

# Oracle® Communications

## Cloud Native Core, cnDBTier REST API

### Guide



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# Preface

- [Documentation Accessibility](#)
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## Conventions

Specific text conventions are used in this document.

| Convention      | Meaning                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>boldface</b> | Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.         |
| <i>italic</i>   | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.                          |
| monospace       | Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter. |

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# What's New in This Guide

This section lists the documentation updates for release 26.1.2xx.

## **Release 26.1.201 - G51102-01, July 2026**

- Added the following cnDBTier Event Details APIs:
  - Get all events details for the current site API
  - Get all events details for the current site by event name API
  - Get all events details for the current site by remote site API
  - Get all events details for the current site by remote site and replication channel grp id API



# 1

## Introduction

This document provides information about how to configure the services and manageable objects in cnDBTier using Representational State Transfer Application Program Interfaces (REST APIs).

Oracle Communications Cloud Native Core, cnDBTier (cnDBTier) is the geodiverse database layer that provides persistence storage for state and subscriber data on a cloud environment such as Oracle Communications Cloud Native Core, Cloud Native Environment (CNE) or Oracle Cloud Infrastructure (OCI). This document provides information about the REST APIs for configuring cnDBTier.

### References

Refer the following documents for more information about cnDBTier:

- Oracle Communications Cloud Native Core, cnDBTier User Guide
- Oracle Communications Cloud Native Core, cnDBTier Installation, Upgrade, and Fault Recovery Guide

### OpenAPI Specification

cnDBTier supports the OpenAPI version 1.0.0.

# 2

## Status APIs

The Status APIs facilitate NF applications to determine the status of cnDBTier and associated cross-site replications. These APIs are hosted by the DB Monitor service.

### Note

- The "base-uri" will be "<db-monitor-svc service name>.<namespace>:8080"
- The namespace "occne-cndbtier" is given in the documentation only as an indicative purpose. Users must configure the name according to their environment.

Example:

Example: `curl http://mysql-cluster-db-monitor-svc.occne-cndbtier:8080/db-tier/status/replication/realtime`

### 2.1 Site Specific Real Time Replication Status API

This API is used to monitor the real-time georeplication status between cnDBTier sites or clusters.

#### API Definition

**URI:** `http://base-uri/db-tier/status/replication/{mate-site-name}/realtime`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                             | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK - Cross-site replication is active | <pre>{   "replicationStatus":     "UP"    "secondsBehindRemote":     "&lt;greater_secondsBehindRemote_of_multiplegroups_withremotesite&gt;"    "replicationGroupDelay":     [{       replchannel_group_id: 1,       secondsBehindRemote:         &lt;seconds&gt;     },     {       replchannel_group_id: 2,       secondsBehindRemote:         &lt;seconds&gt;     }   ]   "siteDetails":     [{       remote_replication_ip:         127.0.0.1,         role: ACTIVE     },     {       remote_replication_ip:         127.0.0.2,         role: STANDBY     },     {       remote_replication_ip:         127.0.0.2,         role: ACTIVE     },     {       remote_replication_ip:         127.0.0.3,         role: STANDBY     }   ] }</pre> |

| Request Payload | Response Code                                                               | Response Payload |
|-----------------|-----------------------------------------------------------------------------|------------------|
|                 |                                                                             | }<br>}]          |
|                 | 404 Not Found                                                               | NA               |
|                 | 400 Bad Request                                                             | NA               |
|                 | 503 Service Unavailable - Cross-site replication is not enabled and/or DOWN | NA               |

### API Configuration

| Field                 | Description                                                                                                                                                                      | Details                                                                                           |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| replicationStatus     | This attribute displays the replication status with corresponding sites.                                                                                                         | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN, INITIALIZING<br><b>Default Value:</b> NA |
| secondsBehindRemote   | This attribute displays the number of seconds that the last record read by the local site is behind the latest record written by the remote site for all the replication groups. | <b>DataType:</b> long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |
| replicationGroupDelay | This attribute displays the seconds behind the remote site for individual replication groups.                                                                                    | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |
| replchannel_group_id  | This attribute displays the ID of the replication channel group.                                                                                                                 | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |
| siteDetails           | This attribute displays all channel details such as Remote Replication IP and Role.                                                                                              | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |
| remote_replication_ip | This attribute displays the IP of the remote replication channel.                                                                                                                | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |
| role                  | This attribute displays the role of the replication channel IP.                                                                                                                  | <b>DataType:</b> string<br><b>Constraints:</b> ACTIVE, STANDBY<br><b>Default Value:</b> NA        |

## 2.2 Real Time Overall Replication Status API

This API retrieves the current end-to-end replication status for cnDBTier in multisite deployments.

### API Definition

**URI:** `http://base-uri/db-tier/status/replication/realtime`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                             | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK - Cross-site replication is active | <pre>{   [     {       "localSiteName": "&lt;current-site-name&gt;",       "remoteSiteName": "&lt;remote-site-name&gt;",       "replicationStatus": "UP/DOWN/INITIALIZING"       "secondsBehindRemote":       "&lt;greater_secondsBehindRemote_of_multiplegroups_withremotesite&gt;"       "replicationGroupDelay":       [{         replchannel_group_id: 1,         secondsBehindRemote:         &lt;seconds&gt;         },         {           replchannel_group_id: 2,           secondsBehindRemote:           &lt;seconds&gt;         }       ]     },     {       "localSiteName": "&lt;current-site-name&gt;",       "remoteSiteName": "&lt;remote-site-name&gt;",       "replicationStatus": "UP/DOWN/INITIALIZING"       "secondsBehindRemote":       "&lt;greater_secondsBehindRemote_of_multiplegroups_withremotesite&gt;"       "replicationGroupDelay":</pre> |

| Request Payload | Response Code                                                   | Response Payload                                                                                                                                                                |
|-----------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                                                                 | <pre>[{   replchannel_group_id: 1,   secondsBehindRemote:     &lt;seconds&gt;   },   {     replchannel_group_id: 2,     secondsBehindRemote:       &lt;seconds&gt;   }] ]</pre> |
|                 | 503 Service Unavailable - Cross-site replication is not enabled | NA                                                                                                                                                                              |

### API Configuration

| Field                 | Description                                                                                                                                                                      | Details                                                                                           |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| localSiteName         | This attribute displays the name of the current site in which the cnDBTier cluster is deployed.                                                                                  | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |
| remoteSiteName        | This attribute displays the name of the remote site where replication is established.                                                                                            | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |
| replicationStatus     | This attribute displays the replication status with corresponding sites.                                                                                                         | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN, INITIALIZING<br><b>Default Value:</b> NA |
| secondsBehindRemote   | This attribute displays the number of seconds that the last record read by the local site is behind the latest record written by the remote site for all the replication groups. | <b>DataType:</b> long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |
| replicationGroupDelay | This attribute displays the seconds behind the remote site for individual replication groups.                                                                                    | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |
| replchannel_group_id  | This attribute displays the ID of the replication channel group.                                                                                                                 | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |

## 2.3 Real Time Local Cluster Status API

This section provides Real Time Local Cluster Status API that are used to monitor the current health and runtime status of a local database cluster in real time.

### API Definition

**URI:** `http://base-uri/db-tier/status/cluster/local/realtime`

**Method:** GET

**Type:** Realtime API

| Request Payload | Response Code                              | Response Payload |
|-----------------|--------------------------------------------|------------------|
| NA              | 200 OK- The local NDB cluster is available | NA               |

### API Configurations

None

## 2.4 Database Statistics Report API

This section provides Database Statistics Report APIs that are used to monitor and collect database performance and usage statistics for monitoring and analysis.

### API Definition

**URI:** `http://base-uri/db-tier/statistics/dbinfo`

**Method:** GET

**API Type:** Realtime API



| Request Payload | Response Code            | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK Data is available | <pre>{   "databaseCount": &lt;database count&gt;,    "databaseTablesCount": [     {       "dbName": "&lt;database name&gt;",       "tableCount": &lt;table count&gt;     },     {       "dbName": "&lt;database name&gt;",       "tableCount": &lt;table count&gt;     }   ],    "databaseTableRowsCount" : [     {       "dbName": "&lt;database name&gt;",       "tables": [         {           "tableName": "&lt;table name&gt;",           "rowCount": &lt;row count&gt;         }       ]     },     {       "dbName": "&lt;database name&gt;",       "tables": [         {           "tableName": "&lt;table name&gt;",           "rowCount": &lt;row count&gt;         },         {           "tableName": "&lt;table name&gt;",           "rowCount": &lt;row count&gt;         }       ]     }   ] }</pre> |

| Request Payload | Response Code                                                        | Response Payload               |
|-----------------|----------------------------------------------------------------------|--------------------------------|
|                 |                                                                      | <pre>       }     ]   } </pre> |
|                 | 503 Service Unavailable - DB statistics reports is empty             | NA                             |
|                 | 500 INTERNAL SERVER ERROR - Could not list the DB statistics reports |                                |

### API Configuration

| Fields                 | Description                                                                                                      | Details                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| databaseCount          | This attribute displays the number of available databases.                                                       | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| databaseTablesCount    | This attribute displays the available database names and their table count.                                      | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| dbName                 | This attribute displays the database name.                                                                       | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |
| tableCount             | This attribute displays the table count for each database.                                                       | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| databaseTableRowsCount | This attribute displays all the tables within a database along with their respective row counts.                 | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| tables                 | This attribute displays the names of individual tables in a database along with the number of rows they contain. | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| tableName              | This attribute displays the table name.                                                                          | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |
| rowCount               | This attribute displays the total count of rows within a table.                                                  | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 2.5 cnDBTier Version API

This API retrieves the current cnDBTier software version from a deployed DB Tier environment.

### API Definition

**URI:** `http://base-uri/db-tier/version`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                        | Response Payload                                                                            |
|-----------------|------------------------------------------------------|---------------------------------------------------------------------------------------------|
| NA              | 200 OK                                               | {<br>"cndbtier_version":<br>"<cndbtier_version>",<br>"ndb_version":<br>"<ndb_version>"<br>} |
|                 | 500 INTERNAL SERVER<br>ERROR - failed to get version | "failed to get<br>version"db-tier/version"                                                  |

**API Configuration**

| Fields           | Description                                                 | Details                                                                       |
|------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------|
| cndbtier_version | This attribute displays the cnDBTier version.               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| ndb_version      | This attribute displays the network database (NDB) version. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 2.6 NDB Backup Status API

This API retrieves the current NDB backup status for the cnDBTier cluster.

**API Definition**

**URI:** `http://base-uri/db-tier/status/cluster/local/backup`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code             | Response Payload                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                    | <pre>{   "isNdbBackupInProgress":     "&lt;true if an NDB     backup is in progress;     otherwise, false&gt;",   "nextBackupScheduleTime"     : "&lt;UTC timestamp for     the next scheduled     routine backup&gt;",   "currentTimestamp":     "&lt;Current UTC timestamp     from the NDB cluster&gt;" }</pre> |
|                 | 500 INTERNAL SERVER ERROR | Not able to fetch Current NDB Backup Status                                                                                                                                                                                                                                                                        |

### API Configuration

| Fields                 | Description                                                              | Details                                                                                |
|------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| isNdbBackupInProgress  | This attribute displays if an NDB backup is in progress or not.          | <b>DataType:</b> boolean<br><b>Constraints:</b> true/false<br><b>Default Value:</b> NA |
| nextBackupScheduleTime | This attribute displays timestamp for the next scheduled routine backup. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA          |
| currentTimestamp       | This attribute displays the current timestamp from the NDB cluster       | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA          |

## 2.7 Cluster Real Time Replication Status across all sites API

This API retrieves the real-time replication status of the cnDBTier cluster across all configured sites.

### API Definition

**URI:** `http://base-uri/db-tier/replication/status/realtime`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code            | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK Data is available | <pre>[ {   "siteNameAndRemoteSiteName": "ses3,ses1",     "siteName": "ses3",     "remoteSiteName": "ses1",     "status": "UP",    "replicationDetailsPerGroupId": [     {       "replicationGroupId": 1,         "status": "UP",        "allSqlStatusDetails": [         {           "sqlNode": "ndbmysqld-0",            "sourceHost": "10.233.29.41",            "externalIp": "10.233.35.195",            "replicaIORunning": "Yes",            "replicaSQLRunning": "Yes",             "serverId": 1002,             "role": "ACTIVE",            "lastErrno": 0,            "lastError": "",            "lastIOErrno": 0,            "lastIOError": "",            "lastSQLErrno": 0,            "lastSQLError": "",            "sqlRemainingDelay":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>null,<br/><br/>"localAppliedEpoch":<br/>3100966387723,<br/><br/>"currentBinlogFileBeingR<br/>eplicated": "mysql-<br/>bin.000005",<br/><br/>"binLogFileRange":<br/>"mysql-bin.000001 -<br/>mysql-bin.000005",<br/><br/>"sourceSqlStatusDetails"<br/>: {<br/><br/>"sqlNode":<br/>"ndbmysqld-2",<br/><br/>"sourceHost":<br/>"10.233.35.195",<br/><br/>"externalIp":<br/>"10.233.29.41",<br/><br/>"replicaIORunning":<br/>"Yes",<br/><br/>"replicaSQLRunning":<br/>"Yes",<br/><br/>"serverId": 3000,<br/>"role":<br/>"ACTIVE",<br/><br/>"lastErrno": 0,<br/><br/>"lastError": "",<br/><br/>"lastIOErrno": 0,<br/><br/>"lastIOError": "",<br/><br/>"lastSQLErrno": 0,<br/><br/>"lastSQLError": "",<br/><br/>"sqlRemainingDelay":<br/>null,<br/><br/>"localAppliedEpoch":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",     }     },     {       "sqlNode": "ndbmysqld-1",  "sourceHost": "10.233.50.242",  "externalIp": "10.233.35.129",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 1003,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql-</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>bin.000005",<br/><br/>"binLogFileRange":<br/>"mysql-bin.000001 -<br/>mysql-bin.000005",<br/><br/>"sourceSqlStatusDetails"<br/>: {<br/><br/>"sqlNode":<br/>"ndbmysqld-3",<br/><br/>"sourceHost":<br/>"10.233.35.129",<br/><br/>"externalIp":<br/>"10.233.50.242",<br/><br/>"replicaIORunning":<br/>"No",<br/><br/>"replicaSQLRunning":<br/>"No",<br/><br/>"serverId": 3001,<br/>"role":<br/>"STANDBY",<br/><br/>"lastErrno": 0,<br/><br/>"lastError": "",<br/><br/>"lastIOErrno": 0,<br/><br/>"lastIOError": "",<br/><br/>"lastSQLErrno": 0,<br/><br/>"lastSQLError": "",<br/><br/>"sqlRemainingDelay":<br/>null,<br/><br/>"localAppliedEpoch":<br/>3100966387723,<br/><br/>"currentBinlogFileBeingR<br/>eplicated": "mysql-<br/>bin.000005",<br/><br/>"binLogFileRange":</pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"mysql-bin.000001 - mysql-bin.000005",     }   } ] } ] }, {  "siteNameAndRemoteSiteNa me": "ses3,ses2",   "siteName": "ses3",   "remoteSiteName": "ses2",   "status": "UP",  "replicationDetailsPerGr oupId": [   {  "replicationGroupId": 1,   "status": "UP",  "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-2",  "sourceHost": "10.233.20.84",  "externalIp": "10.233.9.23",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",     "serverId": 2002,     "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-2", "sourceHost": "10.233.9.23", "externalIp": "10.233.20.84", "replicaIORunning": "Yes", "replicaSQLRunning": "Yes", "serverId": 3002, "role": "ACTIVE", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0,</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   },   {     "sqlNode": "ndbmysqld-3", "sourceHost": "10.233.29.205", "externalIp": "10.233.50.79", "replicaIORunning": "No", "replicaSQLRunning": "No",       "serverId": 2003,       "role": "STANDBY", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>null,<br/><br/>"localAppliedEpoch":<br/>3100966387723,<br/><br/>"currentBinlogFileBeingR<br/>eplicated": "mysql-<br/>bin.000005",<br/><br/>"binLogFileRange":<br/>"mysql-bin.000001 -<br/>mysql-bin.000005",<br/><br/>"sourceSqlStatusDetails"<br/>: {<br/><br/>"sqlNode":<br/>"ndbmysqld-3",<br/><br/>"sourceHost":<br/>"10.233.50.79",<br/><br/>"externalIp":<br/>"10.233.29.205",<br/><br/>"replicaIORunning":<br/>"No",<br/><br/>"replicaSQLRunning":<br/>"No",<br/><br/>"serverId": 3003,<br/>"role":<br/>"STANDBY",<br/><br/>"lastErrno": 0,<br/><br/>"lastError": "",<br/><br/>"lastIOErrno": 0,<br/><br/>"lastIOError": "",<br/><br/>"lastSQLErrno": 0,<br/><br/>"lastSQLError": "",<br/><br/>"sqlRemainingDelay":<br/>null,<br/><br/>"localAppliedEpoch":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>3100966387723,  "currentBinLogFileBeingReplicated": "mysql-bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] }, {  "siteNameAndRemoteSiteName": "ses2,ses3",   "siteName": "ses2",   "remoteSiteName": "ses3",   "status": "UP",  "replicationDetailsPerGroupId": [   {  "replicationGroupId": 1,   "status": "UP",  "allSqlStatusDetails": [     {       "sqlNode": "ndbmysqld-2",  "sourceHost": "10.233.9.23",  "externalIp": "10.233.20.84",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",       "serverId": 3002,       "role": "ACTIVE",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-2", "sourceHost": "10.233.20.84", "externalIp": "10.233.9.23", "replicaIORunning": "Yes", "replicaSQLRunning": "Yes", "serverId": 2002, "role": "ACTIVE", "lastErrno": 0,</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   },   {     "sqlNode": "ndbmysqld-3", "sourceHost": "10.233.50.79", "externalIp": "10.233.29.205", "replicaIORunning": "No", "replicaSQLRunning": "No",       "serverId": 3003,       "role": "STANDBY", "lastErrno": 0, "lastError": "", "lastIOErrno": 0,</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-3", "sourceHost": "10.233.29.205", "externalIp": "10.233.50.79", "replicaIORunning": "No", "replicaSQLRunning": "No", "serverId": 2003, "role": "STANDBY", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0,</pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] }, {   "siteNameAndRemoteSiteNa me": "ses1,ses2",     "siteName": "ses1",     "remoteSiteName": "ses2",     "status": "UP",   "replicationDetailsPerGr oupId": [     {       "replicationGroupId": 1,         "status": "UP",       "allSqlStatusDetails": [         {           "sqlNode": "ndbmysqld-0",           "sourceHost": "10.233.19.91",           "externalIp": "10.233.31.67",           "replicaIORunning": "Yes",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"replicaSQLRunning": "Yes",     "serverId": 2000,     "role": "ACTIVE", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-0", "sourceHost": "10.233.31.67", "externalIp": "10.233.19.91", "replicaIORunning": "Yes", "replicaSQLRunning": "Yes",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"serverId": 1000,   "role": "ACTIVE", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   },   {     "sqlNode": "ndbmysqld-1", "sourceHost": "10.233.6.238", "externalIp": "10.233.35.109", "replicaIORunning": "No", "replicaSQLRunning": "No",       "serverId": 2001,       "role": "STANDBY",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-1", "sourceHost": "10.233.35.109", "externalIp": "10.233.6.238", "replicaIORunning": "No", "replicaSQLRunning": "No", "serverId": 1001, "role": "STANDBY", "lastErrno": 0,</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] }, {   "siteNameAndRemoteSiteNa me": "ses1,ses3",     "siteName": "ses1",     "remoteSiteName": "ses3",     "status": "UP",   "replicationDetailsPerGr oupId": [     {       "replicationGroupId": 1,         "status": "UP",       "allSqlStatusDetails": [         {           "sqlNode": "ndbmysqld-2",           "sourceHost":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"10.233.35.195", "externalIp": "10.233.29.41", "replicaIORunning": "Yes", "replicaSQLRunning": "Yes",       "serverId": 3000,       "role": "ACTIVE", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-0", "sourceHost": "10.233.29.41", "externalIp":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"10.233.35.195",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 1002,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"       }     },     {       "sqlNode": "ndbmysqld-3",  "sourceHost": "10.233.35.129",  "externalIp": "10.233.50.242",  "replicaIORunning": "No",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"replicaSQLRunning": "No",     "serverId": 3001,     "role": "STANDBY", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-1", "sourceHost": "10.233.50.242", "externalIp": "10.233.35.129", "replicaIORunning": "No", "replicaSQLRunning": "No",</pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"serverId": 1003,   "role": "STANDBY",   "lastErrno": 0,   "lastError": "",   "lastIOErrno": 0,   "lastIOError": "",   "lastSQLErrno": 0,   "lastSQLError": "",   "sqlRemainingDelay": null,   "localAppliedEpoch": 3100966387723,   "currentBinlogFileBeingR eplicated": "mysql- bin.000005",   "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   ] }, {   "siteNameAndRemoteSiteNa me": "ses2,ses1",     "siteName": "ses2",     "remoteSiteName": "ses1",     "status": "UP",   "replicationDetailsPerGr oupId": [     {       "replicationGroupId": 1,         "status": "UP",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"allSqlStatusDetails": [<br/>  {<br/>    "sqlNode":<br/>    "ndbmysqld-0",<br/><br/>    "sourceHost":<br/>    "10.233.31.67",<br/><br/>    "externalIp":<br/>    "10.233.19.91",<br/><br/>    "replicaIORunning":<br/>    "Yes",<br/><br/>    "replicaSQLRunning":<br/>    "Yes",<br/>      "serverId":<br/>    1000,<br/>      "role":<br/>    "ACTIVE",<br/><br/>    "lastErrno": 0,<br/><br/>    "lastError": "",<br/><br/>    "lastIOErrno": 0,<br/><br/>    "lastIOError": "",<br/><br/>    "lastSQLErrno": 0,<br/><br/>    "lastSQLError": "",<br/><br/>    "sqlRemainingDelay":<br/>    null,<br/><br/>    "localAppliedEpoch":<br/>    3100966387723,<br/><br/>    "currentBinlogFileBeingR<br/>eplicated": "mysql-<br/>bin.000005",<br/><br/>    "binLogFileRange":<br/>    "mysql-bin.000001 -<br/>mysql-bin.000005",<br/><br/>    "sourceSqlStatusDetails"<br/>    : {</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"sqlNode": "ndbmysqld-0",  "sourceHost": "10.233.19.91",  "externalIp": "10.233.31.67",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 2000,                "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   },   {     "sqlNode": "ndbmysqld-1",  "sourceHost":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"10.233.35.109", "externalIp": "10.233.6.238", "replicaIORunning": "No", "replicaSQLRunning": "No",       "serverId": 1001,       "role": "STANDBY", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-1", "sourceHost": "10.233.6.238", "externalIp":</pre> |

| Request Payload | Response Code           | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                         | <pre>"10.233.35.109",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 2001,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"       }     ]   } }</pre> |
|                 | 404 Not Found           | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                 | 400 Bad Request         |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                 | 503 Service Unavailable |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## API Configuration

| Field                               | Description                                                                      | Details                                                                            |
|-------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| siteNameAndRemoteSiteName           | This attribute displays site name and remote site name.                          | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| siteName                            | This attribute displays site name.                                               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| remoteSiteName                      | This attribute displays the remote site name.                                    | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| status                              | This attribute displays the replication status between the site and remote site. | <b>DataType:</b> string<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA |
| replicationDetailsPerGroupId        | This attribute displays the replication channel details per group id.            | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA        |
| replicationGroupId                  | This attribute displays the replication channel group id.                        | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA     |
| replicationDetailsPerGroupId.status | This attribute displays the replication channel status per group id.             | <b>DataType:</b> string<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA |
| allSqlStatusDetails                 | This attribute displays the all sql node details per group id.                   | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA        |
| sqlNode                             | This attribute displays the sql node.                                            | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| sourceHost                          | This attribute displays the source host.                                         | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| externalIp                          | This attribute displays the external ip of the sql node.                         | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| replicaIORunning                    | This attribute displays the replica IO is running.                               | <b>DataType:</b> string<br><b>Constraints:</b> YES/NO<br><b>Default Value:</b> NA  |
| replicaSQLRunning                   | This attribute displays the replica SQL is running.                              | <b>DataType:</b> string<br><b>Constraints:</b> YES/NO<br><b>Default Value:</b> NA  |
| serverId                            | This attribute displays the server id.                                           | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA     |

| Field                            | Description                                                        | Details                                                                                          |
|----------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| role                             | This attribute displays the role of the sql node.                  | <b>DataType:</b> string<br><b>Constraints:</b> ACTIVE/STANDBY/FAILED<br><b>Default Value:</b> NA |
| lastErrno                        | This attribute displays the last error.                            | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastError                        | This attribute displays the last error number.                     | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastIOErrno                      | This attribute displays the IO error number.                       | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastIOError                      | This attribute displays the last IO error.                         | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastSQLErrno                     | This attribute displays the last SQL error.                        | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastSQLError                     | This attribute displays the last SQL error number.                 | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| sqlRemainingDelay                | This attribute displays the SQL remaining delay.                   | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> Null                  |
| localAppliedEpoch                | This attribute displays the Local Applied Epoch Value.             | <b>DataType:</b> long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                      |
| currentBinlogFileBeingReplicated | This attribute displays the Current Bin Log File Being Replicated. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> Null                  |
| binLogFileRange                  | This attribute displays the Bin Log File Range.                    | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> Null                  |
| sourceSqlStatusDetails           | This attribute displays the source SQL status details.             | <b>DataType:</b> map<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |

## 2.8 Current Replication Status of a Given Site and all mates sites in the Cluster API

This API retrieves the current replication status of a specified site and all its mate sites within the cluster.

**API Definition****URI:** `http://base-uri/db-tier/replication/status/realtime/siteName/{siteName}`**Method:** GET**API Type:** Realtime API



| Request Payload | Response Code            | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK Data is available | <pre>[   [     {       "siteNameAndRemoteSiteName":         "ses1,ses2",       "siteName": "ses1",       "remoteSiteName":         "ses2",       "status": "UP",       "replicationDetailsPerGroupI d": [         {           "replicationGroupId": 1,           "status": "UP",           "allSqlStatusDetails": [             {               "sqlNode":                 "ndbmysqld-0",               "sourceHost":                 "10.233.19.91",               "externalIp":                 "10.233.31.67",               "replicaIORunning": "Yes",               "replicaSQLRunning": "Yes",               "serverId":                 2000,               "role":                 "ACTIVE",               "lastErrno": 0,               "lastError": "",               "lastIOErrno":                 0,               "lastIOError":                 "",               "lastSQLErrno":                 0,               "lastSQLError":                 "",               "sqlRemainingDelay": null,               "localAppliedEpoch":                 3100966387723,               "currentBinlogFileBeingRepli cated": "mysql-bin.000005",               "binLogFileRange": "mysql- bin.000001 - mysql- bin.000005",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "sourceSqlStatusDetails": {   "sqlNode":     "ndbmysqld-0",     "sourceHost":       "10.233.31.67",       "externalIp":         "10.233.19.91",         "replicaIORunning": "Yes",         "replicaSQLRunning": "Yes",         "serverId":           1000,           "role":             "ACTIVE",             "lastErrno":               0,               "lastError":                 "",                 "lastIOErrno": 0,                 "lastIOError": "",                 "lastSQLErrno": 0,                 "lastSQLError": "",                 "sqlRemainingDelay": null,                 "localAppliedEpoch":                   3100966387723,                   "currentBinLogFileBeingRepli                     cated": "mysql-bin.000005",                     "binLogFileRange": "mysql-                       bin.000001 - mysql-                         bin.000005"                     }                   },                   {                     "sqlNode":                       "ndbmysqld-1",                       "sourceHost":                         "10.233.6.238",                         "externalIp":                           "10.233.35.109",                           "replicaIORunning": "No",                           "replicaSQLRunning": "No",                           "serverId":                             2001,                             "role":                               "STANDBY", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>       "lastErrno": 0,       "lastError": "",       "lastIOErrno": 0,       "lastIOError": "",       "lastSQLErrno": 0,       "lastSQLError": "",       "sqlRemainingDelay": null,       "localAppliedEpoch": 3100966387723,       "currentBinlogFileBeingRepli cated": "mysql-bin.000005",       "binLogFileRange": "mysql- bin.000001 - mysql- bin.000005",       "sourceSqlStatusDetails": {         "sqlNode": "ndbmysqld-1",         "sourceHost": "10.233.35.109",         "externalIp": "10.233.6.238",         "replicaIORunning": "No",         "replicaSQLRunning": "No",         "serverId": 1001,         "role": "STANDBY",         "lastErrno": 0,         "lastError": "",         "lastIOErrno": 0,         "lastIOError": "",         "lastSQLErrno": 0,         "lastSQLError": "",         "sqlRemainingDelay": null,         "localAppliedEpoch": 3100966387723,         "currentBinlogFileBeingRepli </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> cated": "mysql-bin.000005",  "binLogFileRange": "mysql- bin.000001 - mysql- bin.000005"     }   } ] }, {   "siteNameAndRemoteSiteName":   "ses1, ses3",     "siteName": "ses1",     "remoteSiteName":     "ses3",     "status": "UP",    "replicationDetailsPerGroupI d": [     {       "replicationGroupId": 1,         "status": "UP",        "allSqlStatusDetails": [         {           "sqlNode":             "ndbmysqld-2",             "sourceHost":             "10.233.35.195",             "externalIp":             "10.233.29.41",            "replicaIORunning": "Yes",           "replicaSQLRunning": "Yes",             "serverId":             3000,             "role":             "ACTIVE",             "lastErrno": 0,             "lastError": "",             "lastIOErrno":             0,             "lastIOError":             "",             "lastSQLErrno":             0,             "lastSQLError":             "",            "sqlRemainingDelay": null,           "localAppliedEpoch": </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> 3100966387723,  "currentBinlogFileBeingRepl icated": "mysql-bin.000005",  "binLogFileRange": "mysql- bin.000001 - mysql- bin.000005",  "sourceSqlStatusDetails": {     "sqlNode": "ndbmysqld-0",     "sourceHost": "10.233.29.41",     "externalIp": "10.233.35.195",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",     "serverId": 1002,     "role": "ACTIVE",     "lastErrno": 0,     "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingRepl icated": "mysql-bin.000005",  "binLogFileRange": "mysql- bin.000001 - mysql- bin.000005"     }   },   {     "sqlNode": "ndbmysqld-3",     "sourceHost": "10.233.35.129",     "externalIp": "10.233.50.242", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "replicaIORunning": "No", "replicaSQLRunning": "No",   "serverId": 3001,     "role": "STANDBY",       "lastErrno": 0,       "lastError": "",       "lastIOErrno": 0,         "lastIOError": "",           "lastSQLErrno": 0,             "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingRepli cated": "mysql-bin.000005", "binLogFileRange": "mysql- bin.000001 - mysql- bin.000005", "sourceSqlStatusDetails": {   "sqlNode": "ndbmysqld-1",     "sourceHost": "10.233.50.242",     "externalIp": "10.233.35.129", "replicaIORunning": "No", "replicaSQLRunning": "No",   "serverId": 1003,     "role": "STANDBY",       "lastErrno": 0,       "lastError": "",       "lastIOErrno": 0,       "lastIOError": "",       "lastSQLErrno": 0, </pre> |

| Request Payload | Response Code           | Response Payload                                                                                                                                                                                                                    |
|-----------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                         | <pre> "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingRepli cated": "mysql-bin.000005", "binLogFileRange": "mysql- bin.000001 - mysql- bin.000005" } } } } } } } ] </pre> |
|                 | 404 Not Found           | NA                                                                                                                                                                                                                                  |
|                 | 400 Bad Request         |                                                                                                                                                                                                                                     |
|                 | 503 Service Unavailable |                                                                                                                                                                                                                                     |

### API Configuration

| Field                        | Description                                                                      | Details                                                                            |
|------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| siteNameAndRemoteSiteName    | This attribute displays site name and remote site name.                          | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| siteName                     | This attribute displays site name.                                               | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| remoteSiteName               | This attribute displays the remote site name.                                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| status                       | This attribute displays the replication status between the site and remote site. | <b>DataType:</b> String<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA |
| replicationDetailsPerGroupId | This attribute displays the replication channel details per group id.            | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA        |
| replicationGroupId           | This attribute displays the replication channel group id.                        | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA     |

| Field                               | Description                                                          | Details                                                                                          |
|-------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| replicationDetailsPerGroupId.status | This attribute displays the replication channel status per group id. | <b>DataType:</b> String<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA               |
| allSqlStatusDetails                 | This attribute displays the all sql node details per group id.       | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                      |
| sqlNode                             | This attribute displays the sql node.                                | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| sourceHost                          | This attribute displays the source host.                             | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| externalIp                          | This attribute displays the external ip of the sql node.             | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| replicaIORunning                    | This attribute displays the replica IO is running.                   | <b>DataType:</b> String<br><b>Constraints:</b> YES or NO<br><b>Default Value:</b> NA             |
| replicaSQLRunning                   | This attribute displays the replica SQL is running.                  | <b>DataType:</b> String<br><b>Constraints:</b> YES or NO<br><b>Default Value:</b> NA             |
| serverId                            | This attribute displays the server id.                               | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| role                                | This attribute displays the role of the sql node.                    | <b>DataType:</b> String<br><b>Constraints:</b> ACTIVE/STANDBY/FAILED<br><b>Default Value:</b> NA |
| lastErrno                           | This attribute displays the last error.                              | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastError                           | This attribute displays the last error number.                       | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastIOErrno                         | This attribute displays the IO error number.                         | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastIOError                         | This attribute displays the last IO error.                           | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastSQLErrno                        | This attribute displays the last SQL error.                          | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |



| Field                            | Description                                                        | Details                                                                         |
|----------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|
| lastSQLError                     | This attribute displays the last SQL error number.                 | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |
| sqlRemainingDelay                | This attribute displays the SQL remaining delay.                   | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null |
| localAppliedEpoch                | This attribute displays the Local Applied Epoch Value.             | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA     |
| currentBinlogFileBeingReplicated | This attribute displays the Current Bin Log File Being Replicated. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null |
| binLogFileRange                  | This attribute displays the Bin Log File Range.                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null |
| sourceSqlStatusDetails           | This attribute displays the source SQL status details.             | <b>DataType:</b> map<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |

## 2.9 Current Replication Status of a Given Site and Specific Remote Site API

This API retrieves the current real-time replication status between the specified site and remote site.

### API Definition

**URI:** `http://base-uri/db-tier/replication/status/realtime/siteName/{siteName}/remotesiteName/{remoteSiteName}`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code            | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK Data is available | <pre>[   {     "siteNameAndRemoteSiteName":       "ses1,ses2",       "siteName": "ses1",       "remoteSiteName":         "ses2",       "status": "UP",      "replicationDetailsPerGroupI       d": [         {           "replicationGroupId": 1,           "status": "UP",            "allSqlStatusDetails": [             {               "sqlNode":                 "ndbmysqld-0",               "sourceHost":                 "10.233.19.91",               "externalIp":                 "10.233.31.67",                "replicaIORunning": "Yes",               "replicaSQLRunning": "Yes",               "serverId":                 2000,               "role":                 "ACTIVE",               "lastErrno": 0,               "lastError": "",               "lastIOErrno":                 0,               "lastIOError":                 "",               "lastSQLErrno":                 0,               "lastSQLError":                 "",                "sqlRemainingDelay": null,                "localAppliedEpoch":                 3100966387723,                "currentBinlogFileBeingRepli                 cated": "mysql-bin.000005",                "binLogFileRange": "mysql-                 bin.000001 - mysql-                 bin.000005",                "sourceSqlStatusDetails": {</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>       "sqlNode":       "ndbmysqld-0",       "sourceHost":       "10.233.31.67",       "externalIp":       "10.233.19.91",        "replicaIORunning": "Yes",       "replicaSQLRunning": "Yes",       "serverId":       1000,       "role":       "ACTIVE",       "lastErrno":       0,       "lastError":       "",        "lastIOErrno": 0,       "lastIOError": "",       "lastSQLErrno": 0,       "lastSQLError": "",        "sqlRemainingDelay": null,        "localAppliedEpoch":       3100966387723,        "currentBinlogFileBeingRepli       cated": "mysql-bin.000005",        "binLogFileRange": "mysql-       bin.000001 - mysql-       bin.000005"     }   },   {     "sqlNode":     "ndbmysqld-1",     "sourceHost":     "10.233.6.238",     "externalIp":     "10.233.35.109",      "replicaIORunning": "No",     "replicaSQLRunning": "No",     "serverId":     2001,     "role":     "STANDBY",     "lastErrno": 0,     "lastError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>       "lastIOErrno": 0,       "lastIOError": "",       "lastSQLErrno": 0,       "lastSQLError": "",       "sqlRemainingDelay": null,       "localAppliedEpoch": 3100966387723,       "currentBinlogFileBeingRepli cated": "mysql-bin.000005",       "binLogFileRange": "mysql- bin.000001 - mysql- bin.000005",       "sourceSqlStatusDetails": {         "sqlNode": "ndbmysqld-1",         "sourceHost": "10.233.35.109",         "externalIp": "10.233.6.238",         "replicaIORunning": "No",         "replicaSQLRunning": "No",         "serverId": 1001,         "role": "STANDBY",         "lastErrno": 0,         "lastError": "",         "lastIOErrno": 0,         "lastIOError": "",         "lastSQLErrno": 0,         "lastSQLError": "",         "sqlRemainingDelay": null,         "localAppliedEpoch": 3100966387723,         "currentBinlogFileBeingRepli cated": "mysql-bin.000005", </pre> |

| Request Payload | Response Code           | Response Payload                                                                    |
|-----------------|-------------------------|-------------------------------------------------------------------------------------|
|                 |                         | <pre>"binLogFileRange": "mysql- bin.000001 - mysql- bin.000005" } } ] } ] } ]</pre> |
|                 | 404 Not Found           | NA                                                                                  |
|                 | 400 Bad Request         |                                                                                     |
|                 | 503 Service Unavailable |                                                                                     |

### API Configuration

| Fields                              | Description                                                                      | Details                                                                            |
|-------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| siteNameAndRemoteSiteName           | This attribute displays site name and remote site name.                          | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| siteName                            | This attribute displays site name.                                               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| remoteSiteName                      | This attribute displays the remote site name.                                    | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| status                              | This attribute displays the replication status between the site and remote site. | <b>DataType:</b> string<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA |
| replicationDetailsPerGroupId        | This attribute displays the replication channel details per group id.            | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA        |
| replicationGroupId                  | This attribute displays the replication channel group id.                        | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA     |
| replicationDetailsPerGroupId.status | This attribute displays the replication channel status per group id.             | <b>DataType:</b> String<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA |
| allSqlStatusDetails                 | This attribute displays the all sql node details per group id.                   | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA        |

| Fields            | Description                                              | Details                                                                                          |
|-------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| sqlNode           | This attribute displays the sql node.                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| sourceHost        | This attribute displays the source host.                 | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| externalIp        | This attribute displays the external ip of the sql node. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| replicaIORunning  | This attribute displays the replica IO is running.       | <b>DataType:</b> String<br><b>Constraints:</b> YES/NO<br><b>Default Value:</b> NA                |
| replicaSQLRunning | This attribute displays the replica SQL is running.      | <b>DataType:</b> String<br><b>Constraints:</b> YES/NO<br><b>Default Value:</b> NA                |
| serverId          | This attribute displays the server id.                   | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| role              | This attribute displays the role of the sql node.        | <b>DataType:</b> String<br><b>Constraints:</b> ACTIVE/STANDBY/FAILED<br><b>Default Value:</b> NA |
| lastErrno         | This attribute displays the last error.                  | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastError         | This attribute displays the last error number.           | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastIOErrno       | This attribute displays the IO error number.             | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastIOError       | This attribute displays the last IO error.               | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastSQLErrno      | This attribute displays the last SQL error.              | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastSQLError      | This attribute displays the last SQL error number.       | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| sqlRemainingDelay | This attribute displays the SQL remaining delay.         | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null                  |

| Fields                           | Description                                                        | Details                                                                         |
|----------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|
| localAppliedEpoch                | This attribute displays the Local Applied Epoch Value.             | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA     |
| currentBinlogFileBeingReplicated | This attribute displays the Current Bin Log File Being Replicated. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null |
| binLogFileRange                  | This attribute displays the Bin Log File Range.                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null |
| sourceSqlStatusDetails           | This attribute displays the source SQL status details.             | <b>DataType:</b> map<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |

## 2.10 Current Replication Status of a Given Site and Specific Remote Site and Group ID in the Cluster API

This API retrieves the current replication status between a specified local site and a specific remote site for a given replication channel group ID

### API Definition

**URI:** `http://base-uri/db-tier/replication/status/realtime/siteName/{siteName}/remoteSiteName/{remoteSiteName}/replgroupid/{replGroupId}`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code            | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK Data is available | <pre>[   {     "siteNameAndRemoteSiteName":       "ses1, ses2",     "siteName": "ses1",     "remoteSiteName":       "ses2",     "status": "UP",      "replicationDetailsPerGroupI       d": [         {           "replicationGroupId": 1,           "status": "UP",            "allSqlStatusDetails": [             {               "sqlNode":                 "ndbmysqld-0",               "sourceHost":                 "10.233.19.91",               "externalIp":                 "10.233.31.67",                "replicaIORunning": "Yes",               "replicaSQLRunning": "Yes",               "serverId":                 2000,               "role":                 "ACTIVE",               "lastErrno": 0,               "lastError": "",               "lastIOErrno":                 0,               "lastIOError":                 "",               "lastSQLErrno":                 0,               "lastSQLError":                 "",                "sqlRemainingDelay": null,                "localAppliedEpoch":                 3100966387723,                "currentBinlogFileBeingRepli                 cated": "mysql-bin.000005",                "binLogFileRange": "mysql-                 bin.000001 - mysql-                 bin.000005",                "sourceSqlStatusDetails": {</pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>       "sqlNode":       "ndbmysqld-0",       "sourceHost":       "10.233.31.67",       "externalIp":       "10.233.19.91",        "replicaIORunning": "Yes",       "replicaSQLRunning": "Yes",       "serverId":       1000,       "role":       "ACTIVE",       "lastErrno":       0,       "lastError":       "",        "lastIOErrno": 0,       "lastIOError": "",       "lastSQLErrno": 0,       "lastSQLError": "",        "sqlRemainingDelay": null,        "localAppliedEpoch":       3100966387723,        "currentBinlogFileBeingRepli       cated": "mysql-bin.000005",        "binLogFileRange": "mysql-       bin.000001 - mysql-       bin.000005"     }   },   {     "sqlNode":     "ndbmysqld-1",     "sourceHost":     "10.233.6.238",     "externalIp":     "10.233.35.109",      "replicaIORunning": "No",     "replicaSQLRunning": "No",     "serverId":     2001,     "role":     "STANDBY",     "lastErrno": 0,     "lastError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>       "lastIOErrno": 0,       "lastIOError": "",       "lastSQLErrno": 0,       "lastSQLError": "",       "sqlRemainingDelay": null,       "localAppliedEpoch": 3100966387723,       "currentBinlogFileBeingRepli cated": "mysql-bin.000005",       "binLogFileRange": "mysql- bin.000001 - mysql- bin.000005",       "sourceSqlStatusDetails": {         "sqlNode": "ndbmysqld-1",         "sourceHost": "10.233.35.109",         "externalIp": "10.233.6.238",         "replicaIORunning": "No",         "replicaSQLRunning": "No",         "serverId": 1001,         "role": "STANDBY",         "lastErrno": 0,         "lastError": "",         "lastIOErrno": 0,         "lastIOError": "",         "lastSQLErrno": 0,         "lastSQLError": "",         "sqlRemainingDelay": null,         "localAppliedEpoch": 3100966387723,         "currentBinlogFileBeingRepli cated": "mysql-bin.000005", </pre> |

| Request Payload | Response Code           | Response Payload                                                                    |
|-----------------|-------------------------|-------------------------------------------------------------------------------------|
|                 |                         | <pre>"binLogFileRange": "mysql- bin.000001 - mysql- bin.000005" } } ] } ] } ]</pre> |
|                 | 404 Not Found           | NA                                                                                  |
|                 | 400 Bad Request         |                                                                                     |
|                 | 503 Service Unavailable |                                                                                     |

### API Configuration

| Field                               | Description                                                                      | Details                                                                            |
|-------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| siteNameAndRemoteSiteName           | This attribute displays site name and remote site name.                          | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| siteName                            | This attribute displays site name.                                               | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| remoteSiteName                      | This attribute displays the remote site name.                                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| status                              | This attribute displays the replication status between the site and remote site. | <b>DataType:</b> String<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA |
| replicationDetailsPerGroupId        | This attribute displays the replication channel details per group id.            | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA        |
| replicationGroupId                  | This attribute displays the replication channel group id.                        | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA     |
| replicationDetailsPerGroupId.status | This attribute displays the replication channel status per group id.             | <b>DataType:</b> String<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA |
| allSqlStatusDetails                 | This attribute displays the all sql node details per group id.                   | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA        |
| sqlNode                             | This attribute displays the sql node.                                            | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |

| Field             | Description                                              | Details                                                                                         |
|-------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| sourceHost        | This attribute displays the source host.                 | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| externalIp        | This attribute displays the external ip of the sql node. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| replicaIORunning  | This attribute displays the replica IO is running.       | <b>DataType:</b> String<br><b>Constraints:</b> YES/NO<br><b>Default Value:</b> NA               |
| replicaSQLRunning | This attribute displays the replica SQL is running.      | <b>DataType:</b> String<br><b>Constraints:</b> YES/NO<br><b>Default Value:</b> NA               |
| serverId          | This attribute displays the server id.                   | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                  |
| role              | This attribute displays the role of the sql node.        | <b>DataType:</b> String<br><b>Constraints:</b> ACTIVE/STANDBY/FAILE<br><b>Default Value:</b> NA |
| lastErrno         | This attribute displays the last error.                  | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| lastError         | This attribute displays the last error number.           | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| lastIOErrno       | This attribute displays the IO error number.             | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| lastIOError       | This attribute displays the last IO error.               | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| lastSQLErrno      | This attribute displays the last SQL error.              | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| lastSQLError      | This attribute displays the last SQL error number.       | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| sqlRemainingDelay | This attribute displays the SQL remaining delay.         | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null                 |
| localAppliedEpoch | This attribute displays the Local Applied Epoch Value.   | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |

| Field                            | Description                                                        | Details                                                                         |
|----------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|
| currentBinlogFileBeingReplicated | This attribute displays the Current Bin Log File Being Replicated. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null |
| binLogFileRange                  | This attribute displays the Bin Log File Range.                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null |
| sourceSqlStatusDetails           | This attribute displays the source SQL status details.             | <b>DataType:</b> map<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |

# 3

## Event Details APIs

The Event Details API enables NF applications to retrieve cnDBTier event details. These APIs are hosted by the DB Monitor service.

### Note

- "base-uri" will be "<db-monitor-svc service name>.<namespace>:8080"
- The namespace "occne-cndbtier" is given in the documentation only as an indicative purpose.
- Users must configure the name according to the environment.

Example:

```
$ curl -X POST http://base-uri/db-tier/reset/parameter/  
cluster_restart_disconnect  
$ curl -X POST http://base-uri/db-tier/reset/cluster/{cluster-name}/parameter/  
cluster_restart_disconnect  
$ curl -X GET http://base-uri/db-tier/cluster/status  
$ curl -X GET http://base-uri/db-tier/cluster/status/events/  
{numberoflastevents}  
$ curl -X GET http://base-uri/db-tier/all/cluster/status  
$ curl -X GET http://base-uri/db-tier/all/cluster/status/events/  
{numberoflastevents}
```

The following are the cluster event types:

**Table 3-1 Cluster Event Types**

| Event Type | Description                                                                                                                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| START      | This event is recorded when the cluster is installed                                                                                                                                                        |
| RESTART    | This event is recorded when the cluster is restarted after the cluster is disconnected and started                                                                                                          |
| RESTORE    | This event is recorded when the cluster is restored from the backup during GeoReplication                                                                                                                   |
| RE-SYNC    | This event is recorded when the cluster is resynced after the cluster is restored and geo replication channels are established, and all the data is synced from remote sites after the restore is performed |
| FAILURE    | This event is recorded when the cluster is in failed state                                                                                                                                                  |
| CHECKPOINT | This event is recorded once the database is completely restored from the remote site, from this timestamp, it means that the database is in sync with remote sites, unless there no other restarts occur    |

## 3.1 Get all events details for the current site API

This API retrieves all cnDBTier event details for the current site.

**API Definition**

**URI:** `http://base-uri/db-tier/events/eventsPerPage/{eventsPerPage}/page/{page}`

**Method:** POST

**API Type:** Realtime API

| Request Payload                                                                                     | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Notes                                        |
|-----------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <pre>{   "startTimestamp":     "&lt;startTime&gt;",   "endTimestamp":     "&lt;endTime&gt;" }</pre> | 200 OK        | <pre>{   "totalRecords":     &lt;totalRecords&gt;,     "totalPages":     &lt;totalPages&gt;,     "currentPage":     1,     "nextPage": 2,    "hasMoreEventReco rds": "true/ false",    "eventDetails": [     {       "siteName":         "&lt;siteName&gt;",       "mateSiteName":         "&lt;mateSiteName&gt;",       "replChannelGroup Id":         "&lt;replChannelGrou pId&gt;",       "eventId":         "&lt;event_id&gt;",       "eventTypeName":         "&lt;event_name&gt;",       "eventTime":         "&lt;event_ts&gt;",       "description":         "&lt;event_descripti on&gt;"     },     {       "siteName":         "&lt;siteName&gt;",       "mateSiteName":         "&lt;mateSiteName2&gt;"     },     "replChannelGroup</pre> | Default and initial value for the page is 1. |



| Request Payload | Response Code             | Response Payload                                                                                                                                                                                                        | Notes |
|-----------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                 |                           | <pre> Id": "&lt;replChannelGroup pId&gt;",     "eventId": "&lt;event_id&gt;",  "eventTypeName": "&lt;event_name&gt;",  "eventTime": "&lt;event_ts&gt;",  "description": "&lt;event_descripti on&gt;"     }   ] } </pre> |       |
|                 | 400 Bad Request           | <pre> {   "title": "Bad Request",   "status": 400,   "detail": "INVALID_REQUEST" ,   "cause": "&lt;cause&gt;"  "invalidParams": null } </pre>                                                                           |       |
|                 | 500 Internal Server Error | <pre> {   "title": "INTERNAL_SERVER_ ERROR",   "status": 500,   "detail": "INVALID_REQUEST" ,   "cause": "&lt;details&gt;",  "invalidParams": null } </pre>                                                             |       |

## API Configuration

| Field               | Description                                                                                    | Details                                                                                                 |
|---------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| limit               | This attribute is the number of records per page.                                              | <b>DataType:</b> Integer<br><b>Constraints:</b> must be greater than 0 and <=1000<br><b>Default:</b> NA |
| page                | This attribute is the page number.                                                             | <b>DataType:</b> Integer<br><b>Constraints:</b> must be greater than 0<br><b>Default:</b> 1             |
| startTimestamp      | This attribute displays the start time of the interval for which user wants the event details. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default:</b> NA                                 |
| endTimestamp        | This attribute displays the end time of the interval for which user wants the event details.   | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default:</b> NA                                 |
| totalRecords        | This attribute displays the total number of events between the start and end ts.               | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default:</b> NA                                |
| eventDetails        | This attribute displays the event details between the start and end ts.                        | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default:</b> NA                                   |
| nextPage            | This attribute displays the next page.                                                         | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default:</b> NA                                |
| totalPages          | This attribute displays the total number of pages.                                             | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default:</b> NA                                |
| currentPage         | This attribute displays the current page.                                                      | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default:</b> NA                                |
| hasMoreEventRecords | This attribute displays the whether more events are there or not.                              | <b>DataType:</b> Boolean<br><b>Constraints:</b> true or false<br><b>Default:</b> NA                     |

## 3.2 Get all events details for the current site by event name API

This API retrieves cnDBTier event details for the current site, filtered by a specific event name.

### API Definition

**URI:** `http://base-uri/db-tier/events/details/{eventName}/eventsPerPage/{limit}/page/{page}`

**Method:** POST

**API Type:** Realtime API

| Request Payload                                                                                     | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Notes                                        |
|-----------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <pre>{   "startTimestamp":     "&lt;startTime&gt;",   "endTimestamp":     "&lt;endTime&gt;" }</pre> | 200 OK        | <pre>{   "totalRecords":     &lt;totalRecords&gt;,     "totalPages":     &lt;totalPages&gt;,     "currentPage":     1,     "nextPage": 2,    "hasMoreEventRecords": "true/ false",    "eventDetails": [     {       "siteName":         "&lt;siteName&gt;",        "mateSiteName":         "&lt;mateSiteName&gt;",        "replChannelGroup       Id":         "&lt;replChannelGroup         Id&gt;",         "eventId":         "&lt;event_id&gt;",        "eventTypeName":         "&lt;event_name&gt;",        "eventTime":         "&lt;event_ts&gt;",        "description":         "&lt;event_description&gt;"     },     {       "siteName":         "&lt;siteName&gt;",        "mateSiteName":         "&lt;mateSiteName2&gt;"     },     {       "replChannelGroup       Id":</pre> | Default and initial value for the page is 1. |

| Request Payload | Response Code             | Response Payload                                                                                                                                                                                         | Notes |
|-----------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                 |                           | <pre>"&lt;replChannelGroupId&gt;",   "eventId": "&lt;event_id&gt;",  "eventTypeName": "&lt;event_name&gt;",  "eventTime": "&lt;event_ts&gt;",  "description": "&lt;event_description&gt;"   } ], }</pre> |       |
|                 | 400 Bad Request           | <pre>{   "title": "BAD REQUEST",   "status": 400,   "detail": "&lt;details&gt;",   "cause": "&lt;cause&gt;",  "invalidParams": null }</pre>                                                              |       |
|                 | 500 Internal Server Error | <pre>{   "title": "INTERNAL_SERVER_ ERROR",   "status": 500,   "detail": "INVALID_REQUEST" ,   "cause": "&lt;details&gt;",  "invalidParams": null }</pre>                                                |       |

| Request Payload | Response Code | Response Payload                                                                                                                            | Notes |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                 | 404 Not Found | <pre>{   "title": "Not Found",   "status": 404,   "detail": "INVALID_REQUEST" ,   "cause": "&lt;cause&gt;"    "invalidParams": null }</pre> |       |

### API Configuration

| Field          | Description                                                                                    | Details                                                                                                       |
|----------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| limit          | This attribute is the number of records per page.                                              | <b>DataType:</b> integer<br><b>Constraints:</b> must be greater than 0 and <=1000<br><b>Default Value:</b> NA |
| page           | This attribute is the page number.                                                             | <b>DataType:</b> integer<br><b>Constraints:</b> must be greater than 0<br><b>Default Value:</b> 1             |
| startTimestamp | This attribute displays the start time of the interval for which user wants the event details. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                 |
| endTimestamp   | This attribute displays the end time of the interval for which user wants the event details.   | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                 |
| totalRecords   | This attribute displays the total number of events between the start and end ts.               | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                |
| eventDetails   | This attribute displays the event details between the start and end ts.                        | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                   |
| nextPage       | This attribute displays the next page.                                                         | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                |
| totalPages     | This attribute displays the total number of pages.                                             | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                |

| Field               | Description                                                       | Details                                                                                   |
|---------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| currentPage         | This attribute displays the current page.                         | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA            |
| hasMoreEventRecords | This attribute displays the whether more events are there or not. | <b>DataType:</b> boolean<br><b>Constraints:</b> true or false<br><b>Default Value:</b> NA |

## 3.3 Get all events details for the current site by remote site API

### API Definition

**URI:** `http://base-uri/db-tier/events/site/{siteName}/remotesite/{remotesiteName}/eventsPerPage/{limit}/page/{page}`

**Method:** POST

**API Type:** Realtime API

| Request Payload                                                                                     | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Notes                                        |
|-----------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <pre>{   "startTimestamp":     "&lt;startTime&gt;",   "endTimestamp":     "&lt;endTime&gt;" }</pre> | 200 OK        | <pre>{   "totalRecords":     &lt;totalRecords&gt;,   "totalPages":     &lt;totalPages&gt;,   "currentPage":     1,   "nextPage": 2,    "hasMoreEventRecords": "true/ false",    "eventDetails": [     {       "siteName":         "&lt;siteName&gt;",        "mateSiteName":         "&lt;mateSiteName&gt;",        "replChannelGroup Id":         "&lt;replChannelGroup pId&gt;",       "eventId":         "&lt;event_id&gt;",        "eventTypeName":         "&lt;event_name&gt;",        "eventTime":         "&lt;event_ts&gt;",        "description":         "&lt;event_descripti on&gt;"     },     {       "siteName":         "&lt;siteName&gt;",        "mateSiteName":         "&lt;mateSiteName&gt;",        "replChannelGroup Id":         "&lt;replChannelGroup pId&gt;,"</pre> | Default and initial value for the page is 1. |

| Request Payload | Response Code             | Response Payload                                                                                                                                                         | Notes |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                 |                           | <pre>"eventId": "&lt;event_id&gt;",  "eventName": "&lt;event_name&gt;",  "eventTime": "&lt;event_ts&gt;",  "description": "&lt;event_descripti on&gt;"     }   ] }</pre> |       |
|                 | 400 Bad Request           | <pre>{   "title": "BAD REQUEST",   "status": 400,   "detail": "&lt;details&gt;",   "cause": "&lt;cause&gt;",  "invalidParams": null }</pre>                              |       |
|                 | 500 Internal Server Error | <pre>{   "title": "INTERNAL_SERVER_ ERROR",   "status": 500,   "detail": "INVALID_REQUEST" ,   "cause": "&lt;details&gt;",  "invalidParams": null }</pre>                |       |



| Request Payload | Response Code | Response Payload                                                                                                                           | Notes |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                 | 404 Not Found | <pre>{   "title": "Not Found",   "status": 404,   "detail": "INVALID_REQUEST",   "cause": "&lt;cause&gt;"    "invalidParams": null }</pre> |       |

### API Configuration

| Field          | Description                                                                                    | Details                                                                                                       |
|----------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| startTimestamp | This attribute displays the start time of the interval for which user wants the event details. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                 |
| limit          | This attribute is the number of records per page.                                              | <b>DataType:</b> integer<br><b>Constraints:</b> must be greater than 0 and <=1000<br><b>Default Value:</b> NA |
| page           | This attribute is the page number.                                                             | <b>DataType:</b> integer<br><b>Constraints:</b> must be greater than 0<br><b>Default Value:</b> 1             |
| endTimestamp   | This attribute displays the end time of the interval for which user wants the event details.   | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                 |
| totalRecords   | This attribute displays the total number of events between the start and end ts.               | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                |
| eventDetails   | This attribute displays the event details between the start and end ts.                        | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                   |
| nextPage       | This attribute displays the next page.                                                         | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                |
| totalPages     | This attribute displays the total number of pages.                                             | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                |

| Field               | Description                                                       | Details                                                                                   |
|---------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| currentPage         | This attribute displays the current page.                         | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA            |
| hasMoreEventRecords | This attribute displays the whether more events are there or not. | <b>DataType:</b> boolean<br><b>Constraints:</b> true or false<br><b>Default Value:</b> NA |

## 3.4 Get all events details for the current site by remote site and replication channel grp id API

This API retrieves cnDBTier event details for the current site, filtered by a specific remote site and replication channel group ID.

### API Definition

**URI:** `http://base-uri/db-tier/events/site/{siteName}/remotesite/{remotesiteName}/replChannelGrpId/{replChannelGrpId}/eventsPerPage/{limit}/page/{page}`

**Method:** POST

**API Type:** Realtime API

| Request Payload                                                                                     | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Notes                                        |
|-----------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <pre>{   "startTimestamp":     "&lt;startTime&gt;",   "endTimestamp":     "&lt;endTime&gt;" }</pre> | 200 OK        | <pre>{   "totalRecords":     &lt;totalRecords&gt;,   "totalPages":     &lt;totalPages&gt;,   "currentPage":     1,   "nextPage": 2,    "hasMoreEventRecords": "true/ false",    "eventDetails": [     {       "siteName":         "&lt;siteName&gt;",        "mateSiteName":         "&lt;mateSiteName&gt;",        "replChannelGroupId":         "&lt;replChannelGroupId&gt;",       "eventId":         "&lt;event_id&gt;",        "eventType":         "&lt;event_name&gt;",        "eventTime":         "&lt;event_ts&gt;",        "description":         "&lt;event_description&gt;"     },     {       "siteName":         "&lt;siteName&gt;",        "mateSiteName":         "&lt;mateSiteName&gt;",        "replChannelGroupId":         "&lt;replChannelGroupId&gt;"     }   ] }</pre> | Default and initial value for the page is 1. |

| Request Payload | Response Code             | Response Payload                                                                                                                                                     | Notes |
|-----------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                 |                           | <pre>"eventId": "&lt;event_id&gt;",  "eventName": "&lt;event_name&gt;",  "eventTime": "&lt;event_ts&gt;",  "description": "&lt;event_descripti on&gt;"   } ] }</pre> |       |
|                 | 400 Bad Request           | <pre>{   "title": "BAD REQUEST",   "status": 400,   "detail": "&lt;details&gt;",   "cause": "&lt;cause&gt;",  "invalidParams": null }</pre>                          |       |
|                 | 500 Internal Server Error | <pre>{   "title": "INTERNAL_SERVER_ ERROR",   "status": 500,   "detail": "INVALID_REQUEST" ,   "cause": "&lt;details&gt;",  "invalidParams": null }</pre>            |       |

| Request Payload | Response Code | Response Payload                                                                                                                            | Notes |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------|
|                 | 404 Not Found | <pre>{   "title": "Not Found",   "status": 404,   "detail": "INVALID_REQUEST" ,   "cause": "&lt;cause&gt;"    "invalidParams": null }</pre> |       |

### API Configuration

| Field          | Description                                                                                    | Details                                                                                                       |
|----------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| limit          | This attribute is the number of records per page.                                              | <b>DataType:</b> integer<br><b>Constraints:</b> must be greater than 0 and <=1000<br><b>Default Value:</b> NA |
| page           | This attribute is the page number.                                                             | <b>DataType:</b> integer<br><b>Constraints:</b> must be greater than 0<br><b>Default Value:</b> 1             |
| startTimestamp | This attribute displays the start time of the interval for which user wants the event details. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> 1                                  |
| endTimestamp   | This attribute displays the end time of the interval for which user wants the event details.   | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                 |
| totalRecords   | This attribute displays the total number of events between the start and end ts.               | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                |
| eventDetails   | This attribute displays the event details between the start and end ts.                        | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                   |
| nextPage       | This attribute displays the next page.                                                         | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                |
| totalPages     | This attribute displays the total number of pages.                                             | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                |

| Field               | Description                                                       | Details                                                                                   |
|---------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| currentPage         | This attribute displays the current page.                         | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA            |
| hasMoreEventRecords | This attribute displays the whether more events are there or not. | <b>DataType:</b> boolean<br><b>Constraints:</b> NA<br><b>Default Value:</b> true or false |

# 4

## Cluster Start, Restart, Disconnect Status and Cluster Events APIs

Cluster Start Restart, Disconnect Status and Cluster Status Events APIs provide the APIs for displaying the status events like Start, Restart, Restore, Cluster Status Events.

### Note

- "base-uri" will be "<db-monitor-svc service name>.<namespace>:8080"
- The namespace "occne-cndbtier" is given in the documentation only as an indicative purpose.
- Users must configure the name according to the environment.

### 4.1 Reset Cluster Restart/Disconnect Status for Current cnDBTier Cluster API

This API resets the `cluster_restart_disconnect` value to 0 for the current cnDBTier cluster.

**URL:** `http://base-uri/db-tier/reset/parameter/cluster_restart_disconnect`

**Method:** POST

**API Type:** Realtime API

**API Definition**

| Request Payload | Response Code                                                                                                                                  | Response Payload |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| NA              | 200 OK Successfully Updated<br>cluster_restart_disconnect to 0<br>500 INTERNAL SERVER<br>ERROR - failed to reset<br>cluster_restart_disconnect | NA               |

**API Configurations**

NA

### 4.2 Reset Cluster Restart/Disconnect Status for Specific cnDBTier Cluster API

This API resets the `cluster_restart_disconnect` value to 0 for the specific cnDBTier cluster API.

**API Definition****URL:** `http://base-uri/db-tier/reset/cluster/{cluster-name}/parameter/cluster_restart_disconnect`**Method:** POST**API Type:** Realtime API

| Request Payload | Response Code                                                                                                                                                                                      | Response Payload |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| NA              | 200 OK Successfully Updated cluster_restart_disconnect to 0<br>404 Not Found - The cluster name has not been configured.<br>500 INTERNAL SERVER ERROR - failed to reset cluster_restart_disconnect | NA               |

**API Configuration**

NA

## 4.3 Retrieve the current cluster Status Events along with last event occurred API

This API retrieves the current cnDBTier cluster status along with the most recent cluster status event that occurred.

**API Definition****URL:** `http://base-uri/db-tier/cluster/status`**Method:** GET**API Type:** Realtime API



| Request Payload | Response Code                                                                                                                                                                       | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | <p>200 OK - Successfully fetched the cluster status with the last event occurred</p> <p>500 INTERNAL SERVER ERROR - Unable to fetch cluster status with the last event occurred</p> | <pre> {   "clusterName":     "&lt;cluster name&gt;",   "currentTS":     "&lt;current timestamp in     UTC format&gt;",   "lastStartTS": "&lt;last     start Time Stamp if     present else blank&gt;",   "lastRestoreTS":     "&lt;last restore Time     Stamp if present else     blank&gt;",   "lastDBResyncTS":     "&lt;last DB Resync Time     Stamp if present else     blank&gt;",   "lastRestartTS":     "&lt;last Restart Time     Stamp if present else     blank&gt;",    "lastFailureTS":     "&lt;last Failure Time     Stamp if present else     blank&gt;",   "lastCheckpointTS":     "&lt;last Checkpoint Time     Stamp if present else     blank&gt;",   "lastMonitorPollTS":     "&lt;last Monitor Poll     Time Stamp if present     else blank&gt;",    "clusterDisconnectCount"     : "&lt;Cluster Disconnect     Count&gt;",   "eventsList": [     {       "eventType":         "&lt;event Type&gt;",       "eventTS": "&lt;Time         Stamp at which event         occurred&gt;"     }   ],    "remoteSitesMonitorTS":     [       { </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>       "clusterName":       "&lt;cluster name&gt;",       "monitorTS":       "&lt;Last Monitor Time       Stamp for the cluster       If present else blank&gt;"     },     {       "clusterName":       "&lt;cluster name&gt;",       "monitorTS":       "&lt;Last Monitor Time       Stamp for the cluster       If present else blank&gt;"     }   ] }</pre> |

### API Configuration

| Field            | Description                                                                  | Details                                                                          |
|------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| clusterName      | This attribute displays the cluster name.                                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| currentTS        | This attribute displays the current timestamp.                               | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastStartTS      | This attribute displays the last start Time Stamp if present else blank      | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastRestoreTS    | This attribute displays the last restore Time Stamp if present else blank    | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastDBResyncTS   | This attribute displays the last DB Resync Time Stamp if present else blank  | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastRestartTS    | This attribute displays the last Restart Time Stamp if present else blank    | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastFailureTS    | This attribute displays the last Failure Time Stamp if present else blank    | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastCheckpointTS | This attribute displays the last Checkpoint Time Stamp if present else blank | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

| Field                  | Description                                                                                | Details                                                                          |
|------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| lastMonitorPollTS      | This attribute displays the last Monitor Poll Time Stamp if present else blank             | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| clusterDisconnectCount | This attribute displays the Cluster Disconnect Count                                       | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> 0    |
| eventsList             | This attribute displays the list of the event details.                                     | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| eventType              | This attribute displays the event type.                                                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| eventTS                | This attribute displays the event timestamp.                                               | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| remoteSitesMonitorTS   | This attribute displays the remote site monitor timestamps.                                | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| monitorTS              | This attribute displays the Last Monitor Time Stamp for the cluster If present else blank. | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 4.4 Retrieve the current cluster Status Events along with last <numberOfLastEvents> event occurred API

This API retrieves the current DB Tier cluster status along with the most recent cluster status events.

### API Definition

**URL:** `http://base-uri/db-tier/cluster/status/events/{numberOfLastEvents}`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                                                                                                                                                                                                                                                                                            | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | <p>200 OK - Successfully fetched the cluster status with the last &lt;numberOfLastEvents&gt; events occurred</p> <p>400 BAD REQUEST - If {numberOfLastEvents} exceeds the configured max count which is by default 10</p> <p>500 INTERNAL SERVER ERROR - Unable to fetch cluster status with the last event occurred</p> | <p>http://base-uri/db-tier/cluster/status/events/{numberOfLastEvents}</p> <p>GET NA</p> <p>200 OK - Successfully fetched the cluster status with the last &lt;numberOfLastEvents&gt; events occurred</p> <p>400 BAD REQUEST - If {numberOfLastEvents} exceeds the configured max count which is by default 10</p> <p>500 INTERNAL SERVER ERROR - Unable to fetch cluster status with the last event occurred</p> <pre>{   "clusterName": "&lt;cluster name&gt;",   "currentTS": "&lt;current timestamp in UTC format&gt;",   "lastStartTS": "&lt;last start Time Stamp if present else blank&gt;",   "lastRestoreTS": "&lt;last restore Time Stamp if present else blank&gt;",   "lastDBResyncTS": "&lt;last DB Resync Time Stamp if present else blank&gt;",   "lastRestartTS": "&lt;last Restart Time Stamp if present else blank&gt;",    "lastFailureTS": "&lt;last Failure Time Stamp if present else blank&gt;",   "lastCheckpointTS": "&lt;last Checkpoint Time</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <div>Stamp if present else blank&gt;",<br/>"lastMonitorPollTS":<br/>"&lt;last Monitor Poll Time Stamp if present else blank&gt;",<br/><br/>"clusterDisconnectCount": "&lt;Cluster Disconnect Count&gt;",<br/>"eventsList": [<br/>  {<br/>    "eventType":<br/>    "&lt;event Type&gt;",<br/>    "eventTS": "&lt;Time Stamp at which event occurred&gt;"<br/>  },<br/><br/>  {<br/>    "eventType":<br/>    "&lt;event Type&gt;",<br/>    "eventTS": "&lt;Time Stamp at which event occurred&gt;"<br/>  }<br/>],<br/><br/>"remoteSitesMonitorTS":<br/>[<br/>  {<br/>    "clusterName":<br/>    "&lt;cluster name&gt;",<br/>    "monitorTS":<br/>    "&lt;Last Monitor Time Stamp for the cluster If present else blank&gt;"<br/>  },<br/>  {<br/>    "clusterName":<br/>    "&lt;cluster name&gt;",<br/>    "monitorTS":<br/>    "&lt;Last Monitor Time Stamp for the cluster If present else blank&gt;"<br/>  }<br/>]<br/>}<br/><br/>RealTime A</div> |

## API Configuration

| Field                  | Description                                                                    | Details                                                                          |
|------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| clusterName            | This attribute displays the cluster name.                                      | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| currentTS              | This attribute displays the current timestamp.                                 | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastStartTS            | This attribute displays the last start Time Stamp if present else blank        | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastRestoreTS          | This attribute displays the last restore Time Stamp if present else blank      | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastDBResyncTS         | This attribute displays the last DB Resync Time Stamp if present else blank    | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastRestartTS          | This attribute displays the last Restart Time Stamp if present else blank      | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastFailureTS          | This attribute displays the last Failure Time Stamp if present else blank      | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastCheckpointTS       | This attribute displays the last Checkpoint Time Stamp if present else blank   | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastMonitorPollTS      | This attribute displays the last Monitor Poll Time Stamp if present else blank | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| clusterDisconnectCount | This attribute displays the Cluster Disconnect Count                           | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> 0    |
| eventsList             | This attribute displays the list of the event details.                         | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| eventType              | This attribute displays the event type.                                        | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| eventTS                | This attribute displays the event timestamp.                                   | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| remoteSitesMonitorTS   | This attribute displays the remote site monitor timestamps.                    | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

| Field     | Description                                                                                | Details                                                                          |
|-----------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| monitorTS | This attribute displays the Last Monitor Time Stamp for the cluster If present else blank. | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 4.5 Retrieve all Cluster Status Events along with last event occurred API

This API retrieves the cnDBTier cluster status information for all cluster status events, including the most recent event that occurred.

### API Definition

**URL:** `http://base-uri/db-tier/all/cluster/status/`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                                                                                                                                                       | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | <p>200 OK - Successfully fetched the cluster status with the last event occurred</p> <p>500 INTERNAL SERVER ERROR - Unable to fetch cluster status with the last event occurred</p> | <pre>[   {     "clusterName": "&lt;cluster name&gt;",     "currentTS": "&lt;current timestamp in UTC format&gt;",     "lastStartTS": "&lt;last start Time Stamp if present else blank&gt;",     "lastRestoreTS": "&lt;last restore Time Stamp if present else blank&gt;",     "lastDBResyncTS": "&lt;last DB Resync Time Stamp if present else blank&gt;",     "lastRestartTS": "&lt;last Restart Time Stamp if present else blank&gt;",      "lastFailureTS": "&lt;last Failure Time Stamp if present else blank&gt;",      "lastCheckpointTS": "&lt;last Checkpoint Time Stamp if present else blank&gt;",      "lastMonitorPollTS": "&lt;last Monitor Poll Time Stamp if present else blank&gt;",      "clusterDisconnectCount" : "&lt;Cluster Disconnect Count&gt;",     "eventsList": [       {         "eventType": "&lt;event Type&gt;",         "eventTS": "&lt;Time Stamp at which event occurred&gt;"       }     ],   } ]</pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "remoteSitesMonitorTS": [     {       "clusterName":       "&lt;cluster name&gt;",       "monitorTS":       "&lt;Last Monitor Time Stamp for the cluster If present else blank&gt;"     },     {       "clusterName":       "&lt;cluster name&gt;",       "monitorTS":       "&lt;Last Monitor Time Stamp for the cluster If present else blank&gt;"     }   ],   {     "clusterName":     "&lt;cluster name&gt;",     "currentTS":     "&lt;current timestamp in UTC format&gt;",     "lastStartTS":     "&lt;last start Time Stamp if present else blank&gt;",     "lastRestoreTS":     "&lt;last restore Time Stamp if present else blank&gt;",     "lastDBResyncTS":     "&lt;last DB Resync Time Stamp if present else blank&gt;",     "lastRestartTS":     "&lt;last Restart Time Stamp if present else blank&gt;",     "lastFailureTS":     "&lt;last Failure Time Stamp if present else blank&gt;",     "lastCheckpointTS": </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "&lt;last Checkpoint Time Stamp if present else blank&gt;",  "lastMonitorPollTS": "&lt;last Monitor Poll Time Stamp if present else blank&gt;",  "clusterDisconnectCount" : "&lt;Cluster Disconnect Count&gt;",     "eventsList": [         {             "eventType": "&lt;event Type&gt;",             "eventTS": "&lt;Time Stamp at which event occurred&gt;"         }     ],  "remoteSitesMonitorTS": [     {  "clusterName": "&lt;cluster name&gt;",         "monitorTS": "&lt;Last Monitor Time Stamp for the cluster If present else blank&gt;"     },     {  "clusterName": "&lt;cluster name&gt;",         "monitorTS": "&lt;Last Monitor Time Stamp for the cluster If present else blank&gt;"     } ] ] </pre> |

## API Configuration

| Field                  | Description                                                                    | Details                                                                          |
|------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| clusterName            | This attribute displays the cluster name.                                      | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| currentTS              | This attribute displays the current timestamp.                                 | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastStartTS            | This attribute displays the last start Time Stamp if present else blank        | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastRestoreTS          | This attribute displays the last restore Time Stamp if present else blank      | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastDBResyncTS         | This attribute displays the last DB Resync Time Stamp if present else blank    | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastRestartTS          | This attribute displays the last Restart Time Stamp if present else blank      | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastFailureTS          | This attribute displays the last Failure Time Stamp if present else blank      | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastCheckpointTS       | This attribute displays the last Checkpoint Time Stamp if present else blank   | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastMonitorPollTS      | This attribute displays the last Monitor Poll Time Stamp if present else blank | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| clusterDisconnectCount | This attribute displays the Cluster Disconnect Count                           | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> 0    |
| eventsList             | This attribute displays the list of the event details.                         | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| eventType              | This attribute displays the event type.                                        | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| eventTS                | This attribute displays the event timestamp.                                   | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| remoteSitesMonitorTS   | This attribute displays the remote site monitor timestamps.                    | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

| Field     | Description                                                                                | Details                                                                          |
|-----------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| monitorTS | This attribute displays the Last Monitor Time Stamp for the cluster If present else blank. | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 4.6 Retrieve all cluster Status Events along with last <numberOfLastEvents> event occurred API

This API retrieves the cnDBTier cluster status information for all cluster status events, including the most recent event that occurred.

### API Definition

**URL:** `http://base-uri/db-tier/all/cluster/status/events/{numberOfLastEvents}`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                                                                                                                                                                                                                                                                                            | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | <p>200 OK - Successfully fetched the cluster status with the last &lt;numberOfLastEvents&gt; events occurred</p> <p>400 BAD REQUEST - If {numberOfLastEvents} exceeds the configured max count which is by default 10</p> <p>500 INTERNAL SERVER ERROR - Unable to fetch cluster status with the last event occurred</p> | <pre>[   {     "clusterName":       "&lt;cluster name&gt;",     "currentTS":       "&lt;current timestamp in       UTC format&gt;",     "lastStartTS":       "&lt;last start Time Stamp       if present else blank&gt;",     "lastRestoreTS":       "&lt;last restore Time       Stamp if present else       blank&gt;",     "lastDBResyncTS":       "&lt;last DB Resync Time       Stamp if present else       blank&gt;",     "lastRestartTS":       "&lt;last Restart Time       Stamp if present else       blank&gt;",     "lastFailureTS":       "&lt;last Failure Time       Stamp if present else       blank&gt;",     "lastCheckpointTS":       "&lt;last Checkpoint Time       Stamp if present else       blank&gt;",     "lastMonitorPollTS":       "&lt;last Monitor Poll       Time Stamp if present       else blank&gt;",     "clusterDisconnectCount"       : "&lt;Cluster Disconnect       Count&gt;",     "eventsList": [       {         "eventType":           "&lt;event Type&gt;",         "eventTS":           "&lt;Time Stamp at which           event occurred&gt;"       },     ],   } ]</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>        {           "eventType": "&lt;event Type&gt;",           "eventTS": "&lt;Time Stamp at which event occurred&gt;"         }       ],        "remoteSitesMonitorTS":       [         {            "clusterName":           "&lt;cluster name&gt;",           "monitorTS":           "&lt;Last Monitor Time Stamp for the cluster If present else blank&gt;"         },         {            "clusterName":           "&lt;cluster name&gt;",           "monitorTS":           "&lt;Last Monitor Time Stamp for the cluster If present else blank&gt;"         }       ]     },      {       "clusterName":       "&lt;cluster name&gt;",       "currentTS":       "&lt;current timestamp in UTC format&gt;",       "lastStartTS":       "&lt;last start Time Stamp if present else blank&gt;",       "lastRestoreTS":       "&lt;last restore Time Stamp if present else blank&gt;",       "lastDBResyncTS":       "&lt;last DB Resync Time Stamp if present else blank&gt;",       "lastRestartTS":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"&lt;last Restart Time Stamp if present else blank&gt;",        "lastFailureTS": "&lt;last Failure Time Stamp if present else blank&gt;",  "lastCheckpointTS": "&lt;last Checkpoint Time Stamp if present else blank&gt;",  "lastMonitorPollTS": "&lt;last Monitor Poll Time Stamp if present else blank&gt;",  "clusterDisconnectCount" : "&lt;Cluster Disconnect Count&gt;",   "eventsList": [     {       "eventType": "&lt;event Type&gt;",       "eventTS": "&lt;Time Stamp at which event occurred&gt;"     },     {       "eventType": "&lt;event Type&gt;",       "eventTS": "&lt;Time Stamp at which event occurred&gt;"     }   ],  "remoteSitesMonitorTS": [   {  "clusterName": "&lt;cluster name&gt;",       "monitorTS": "&lt;Last Monitor Time Stamp for the cluster If present else blank&gt;"     }   ],</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                              |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> {   "clusterName":   "&lt;cluster name&gt;",     "monitorTS":     "&lt;Last Monitor Time Stamp for the cluster If present else blank&gt;"   } } ]</pre> |

### API Configuration

| Field             | Description                                                                    | Details                                                                          |
|-------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| clusterName       | This attribute displays the cluster name.                                      | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| currentTS         | This attribute displays the current timestamp.                                 | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastStartTS       | This attribute displays the last start Time Stamp if present else blank        | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastRestoreTS     | This attribute displays the last restore Time Stamp if present else blank      | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastDBResyncTS    | This attribute displays the last DB Resync Time Stamp if present else blank    | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastRestartTS     | This attribute displays the last Restart Time Stamp if present else blank      | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastFailureTS     | This attribute displays the last Failure Time Stamp if present else blank      | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastCheckpointTS  | This attribute displays the last Checkpoint Time Stamp if present else blank   | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| lastMonitorPollTS | This attribute displays the last Monitor Poll Time Stamp if present else blank | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |



| Field                  | Description                                                                                | Details                                                                          |
|------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| clusterDisconnectCount | This attribute displays the Cluster Disconnect Count                                       | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> 0    |
| eventsList             | This attribute displays the list of the event details.                                     | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| eventType              | This attribute displays the event type.                                                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| eventTS                | This attribute displays the event timestamp.                                               | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| remoteSitesMonitorTS   | This attribute displays the remote site monitor timestamps.                                | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| monitorTS              | This attribute displays the Last Monitor Time Stamp for the cluster If present else blank. | <b>DataType:</b> Timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

# 5

## Change IP Family Preferences API

The Change IP family preferences API provides the REST APIs for migrating single stack to dual stack procedure.

### Note

The "**base-uri**" will be "<db-monitor-svc service name>.<namespace>:8080".

### Note

The namespace "occne-cndbtier" is given in the documentation only as an indicative purpose. Users must configure the name according to their environment.

Example:

```
$ curl -X POST http://base-uri/db-tier/api/v1/ip-family/switch/local/{localSiteName}/remote/{remoteSiteName}/preferred/{preferredIpFamily}/switch-over/{doSwitchOver}
$ curl -X POST http://base-uri/db-tier/api/v1/ip-family/switch/local/{localSiteName}/preferred/{preferredIpFamily}/switch-over/{doSwitchOver}
$ curl -X GET http://base-uri/db-tier/api/v1/ip-family/preference/status/local-site/{localSiteName}/cmd-ids/{cmdIds}
```

### 5.1 Persist IP Family Preference Site to Site API

This API persists the preferred IP family configuration for Site to Site connectivity. It allows clients to save whether IPv4, IPv6, or a dual-stack preference should be used for Site-to-Site communication.

#### API Definition

**URI:** `http://base-uri/db-tier/api/v1/ip-family/switch/local/{localSiteName}/remote/{remoteSiteName}/preferred/{preferredIpFamily}/switch-over/{doSwitchOver}`

**Method:** POST

**API Type:** Realtime API

| Request Payload | Response Code   | Response Payload                                                                                                                                                                                                                 |
|-----------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK          | <pre>{   "preferredIpFamily":   "IPv6",   "details": {     "localSiteName":     "siteA",     "remoteSiteName":     "siteB",      "replicationChannelGroup     Id": 1,     "status": "CREATED",     "commandId": 1212   } }</pre> |
|                 | 404 Not Found   | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception   details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":   &lt;params&gt; }</pre>                                                                 |
|                 | 400 Bad Request | <pre>{   "title": "Bad   Request",   "status": 400,   "detail": "&lt;Exception   details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":   &lt;params&gt; }</pre>                                                             |

| Request Payload | Response Code             | Response Payload                                                                                                                                                         |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 405 NOT_IMPLEMENTED       | <pre>{   "title":   "NOT_IMPLEMENTED",   "status": 405,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre>     |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

### API Configuration

| Field                     | Description                                             | Details                                                                       |
|---------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------|
| localSiteName             | This attribute displays the local site name.            | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| preferredIpFamily         | This attribute displays the preferredIpFamily type      | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| commandId                 | This attribute displays the command id                  | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |
| status                    | This attribute displays the command id status           | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| remoteSiteName            | This attribute displays the remote site name.           | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| replicationChannelGroupid | This attribute displays the replication channel groupid | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |

| Field        | Description                       | Details                                                                         |
|--------------|-----------------------------------|---------------------------------------------------------------------------------|
| doSwitchOver | This attribute do the switch over | <b>Data Type:</b> boolean<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 5.2 Persist IP Family Preference Site To All Sites API

This API persists the preferred IP family configuration for Site-to-All-Sites connectivity. It enables clients to save whether IPv4, IPv6, or dual-stack behavior should be used when a site communicates with all other connected sites.

### API Definition

**URI:** `http://base-uri/db-tier/api/v1/ip-family/switch/local/{localSiteName}/preferred/{preferredIpFamily}/switch-over/{doSwitchOver}`

**Method:** POST

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                 |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>{   "preferredIpFamily":   "IPv6",   "details": {     "localSiteName":     "siteA",     "remoteSiteName":     "siteB",      "replicationChannelGroup     Id": 1,     "status": "CREATED",     "commandId": 1212   } }</pre> |
|                 | 404 Not Found | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception   details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":   &lt;params&gt; }</pre>                                                                 |

| Request Payload | Response Code             | Response Payload                                                                                                                                                         |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 400 Bad Request           | <pre>{   "title": "Bad Request",   "status": 400,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre>           |
|                 | 405 NOT_IMPLEMENTED       | <pre>{   "title": "NOT_IMPLEMENTED",   "status": 405,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre>       |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

### API Configuration

| Field             | Description                                        | Details                                                                       |
|-------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| localSiteName     | This attribute displays the local site name.       | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| preferredIpFamily | This attribute displays the preferredIpFamily type | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

| Field                     | Description                                             | Details                                                                        |
|---------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------|
| commandId                 | This attribute displays the command id                  | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| status                    | This attribute displays the command id status           | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |
| remoteSiteName            | This attribute displays the remote site name.           | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |
| replicationChannelGroupid | This attribute displays the replication channel groupid | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| doSwitchOver              | This attribute do the switch over                       | <b>DataType:</b> boolean<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 5.3 Get Command Queue Status API

This API retrieves the current status of the command queue.

### API Definition

**URI:** `http://base-uri/db-tier/api/v1/ip-family/preference/status/local-site/{localSiteName}/cmd-ids/{cmdIds}`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                  |
|-----------------|---------------|-------------------------------------------------------------------|
| NA              | 200 OK        | <pre>[   {     "status": "CREATED",     "cmdId": 1001   } ]</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                                         |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 Not Found             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre>             |
|                 | 400 Bad Request           | <pre>{   "title": "Bad Request",   "status": 400,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre>           |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

### API Configuration

| Field         | Description                                  | Details                                                                       |
|---------------|----------------------------------------------|-------------------------------------------------------------------------------|
| localSiteName | This attribute displays the local site name. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| cmdIds        | This attribute displays the command id's     | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |
| cmdId         | This attribute displays the command id       | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |



| Field  | Description                                   | Details                                                                       |
|--------|-----------------------------------------------|-------------------------------------------------------------------------------|
| status | This attribute displays the command id status | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

# 6

## Replication Service APIs

These APIs are used to monitor and manage cnDBTier data replication across sites, including replication status, health, recovery, and related configuration details.

### 6.1 Switch Over API

This API is used to initiate a cnDBTier switchover operation.

#### Note

The "**base-uri**" will be "<db-replication-svc Loadbalancer IP>: <db-replication-svc Loadbalancer PORT>".

Example:

```
# If HTTP is enabled in cnDBTier cluster
# Get the replication service LoadBalancer IP for cluster1.
$ IP=$(kubectl get svc -n cluster1 -l
dbtierapp=dbrepliationsvc,servicetype=external --no-headers | awk
'{print $4}' | head -n 1 )
# Get the replication service LoadBalancer Port for cluster1.
$ PORT=$(kubectl get svc -n cluster1 -l
dbtierapp=dbrepliationsvc,servicetype=external --no-headers | awk
'{print $5}' | cut -d '/' -f 1 | cut -d ':' -f 1 | head -n 1)
$ curl -X PUT http://$IP:$PORT/ocdbtier/georeplication/switchover/start/
sitename/{siteName}

# If HTTPS is enabled in cnDBTier cluster
# Obtain the Client certificate which is present in the secret configured by
user in "/global/https/secrets/clientSecret". For Ex - client-cert.pem and
client-key.pem
# Obtain the CA certificate which is present in the secret configured by user
in "/global/https/secrets/caSecret". For Ex - combine-ca.pem
# Get the replication service LoadBalancer IP for cluster1.
$ IP=$(kubectl get svc -n cluster1 -l
dbtierapp=dbrepliationsvc,servicetype=external --no-headers | awk
'{print $4}' | head -n 1 )
# Get the replication service LoadBalancer Port for cluster1.
$ PORT=$(kubectl get svc -n cluster1 -l
dbtierapp=dbrepliationsvc,servicetype=external --no-headers | awk
'{print $5}' | cut -d '/' -f 1 | cut -d ':' -f 1 | head -n 1)
$ curl --cert client-cert.pem --cert-type PEM --key client-key.pem --key-type
PEM --cacert combine-ca.pem -X PUT https://$IP:$PORT/ocdbtier/georeplication/
switchover/start/sitename/{siteName}
```

Site with remote site and group id Specific Replication Switchover Start API

API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/switchover/start/siteName/{siteName}/remoteSiteName/{remoteSiteName}/replchannelgroupid/{replChannelGroupId}`

**Method:** PUT

**API Type:** Realtime API

| Request Payload | Response Code             | Response Payload                                                                                                                                                         |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                    | <pre>{    "replicationSwitchOver":   "start"  }</pre>                                                                                                                    |
|                 | 404 Not Found             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre>             |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

| Request Payload | Response Code   | Response Payload                                                                                                                                               |
|-----------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 400 Bad Request | <pre>{   "title": "Bad Request",   "status": 400,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

### API Configurations

| Fields                | Description                                                                                                       | Details                                                                          |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| replicationSwitchOver | This attribute indicates the status of the replication switch-over, including actions like starting and stopping. | <b>DataType:</b> string<br><b>Constraints:</b> start<br><b>Default Value:</b> NA |

### Site with remote site and group id Specific Replication Switchover Stop API

#### API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/switchover/stop/siteName/{siteName}/remotesitename/{remoteSiteName}/replchannelgroupid/{replChannelGroupId}`

**Method:** PUT

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                 |
|-----------------|---------------|--------------------------------------------------|
| NA              | 200 OK        | <pre>{  "replicationSwitchOver": "stop"  }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                                         |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 Not Found             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre>             |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

### API Configuration

| Fields                | Description                                                                                                       | Details                                                                          |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| replicationSwitchOver | This attribute indicates the status of the replication switch-over, including actions like starting and stopping. | <b>DataType:</b> string<br><b>Constraints:</b> start<br><b>Default Value:</b> NA |

### Site with remote site Specific Replication Switchover Start API

#### API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/switchover/start/sitename/{siteName}/remotesitename/{remoteSiteName}`

**Method:** PUT

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                  |
|-----------------|---------------|---------------------------------------------------|
| NA              | 200 OK        | <pre>{   "replicationSwitchOver": "start" }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                                         |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 Not Found             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre>             |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

### API Configuration

| Fields                | Description                                                                                                       | Details                                                                          |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| replicationSwitchOver | This attribute indicates the status of the replication switch-over, including actions like starting and stopping. | <b>DataType:</b> string<br><b>Constraints:</b> start<br><b>Default Value:</b> NA |

### Site with remote site Specific Replication Switchover Stop API

#### API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/switchover/stop/sitename/{siteName}/remotesitename/{remoteSiteName}`

**Method:** PUT

**API Type:** Realtime API

| Request Payload | Response Code             | Response Payload                                                                                                                                                             |
|-----------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                    | <pre>{   "replicationSwitchOver":   "stop" }</pre>                                                                                                                           |
|                 | 404 Not Found             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":   &lt;params&gt; }</pre>               |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail":   "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":   &lt;params&gt; }</pre> |

### API Configuration

| Fields                | Description                                                                                                       | Details                                                                          |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| replicationSwitchOver | This attribute indicates the status of the replication switch-over, including actions like starting and stopping. | <b>DataType:</b> string<br><b>Constraints:</b> start<br><b>Default Value:</b> NA |

### Site Specific Replication Switchover Start API

#### API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/switchover/start/sitename/{siteName}`

**Method:** PUT

**API Type:** Realtime API

| Request Payload | Response Code             | Response Payload                                                                                                                                                           |
|-----------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                    | <pre>{   "replicationSwitchOver":   "start" }</pre>                                                                                                                        |
|                 | 404 Not Found             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":   &lt;params&gt; }</pre>             |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":   &lt;params&gt; }</pre> |

### API Configuration

| Fields                | Description                                                                                                       | Details                                                                          |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| replicationSwitchOver | This attribute indicates the status of the replication switch-over, including actions like starting and stopping. | <b>DataType:</b> string<br><b>Constraints:</b> start<br><b>Default Value:</b> NA |

### Site Specific Replication Switchover Stop API

#### API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/switchover/stop/sitename/{siteName}`

**Method:** PUT

**API Type:** Realtime API



| Request Payload | Response Code             | Response Payload                                                                                                                                                           |
|-----------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                    | <pre>{   "replicationSwitchOver":   "stop" }</pre>                                                                                                                         |
|                 | 404 Not Found             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":   &lt;params&gt; }</pre>             |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":   &lt;params&gt; }</pre> |

### API Configuration

| Fields                | Description                                                                                                       | Details                                                                          |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| replicationSwitchOver | This attribute indicates the status of the replication switch-over, including actions like starting and stopping. | <b>DataType:</b> string<br><b>Constraints:</b> start<br><b>Default Value:</b> NA |

## 6.2 Stop Replica API

This section is only for the definition of the Stop Replica API. If you want to stop the replication between the sites follow the section "Procedure to Gracefully Stop Georeplication between Sites" in *Oracle Communications Cloud Native Core cnDBTier User Guide*.

**Note**

The "**base-uri**" will be "<db-replication-svc Loadbalancer IP>: <db-replication-svc Loadbalancer PORT>"

Example:

```
# If HTTP is enabled in cnDBTier cluster
# Get the replication service LoadBalancer IP for cluster1.
$ IP=$(kubectl get svc -n cluster1 -l
dbtierapp=dbreplicationsvc,servicetype=external --no-headers | awk
'{print $4}' | head -n 1 )
# Get the replication service LoadBalancer Port for cluster1.
$ PORT=$(kubectl get svc -n cluster1 -l
dbtierapp=dbreplicationsvc,servicetype=external --no-headers | awk
'{print $5}' | cut -d '/' -f 1 | cut -d ':' -f 1 | head -n 1)
$ curl -X PUT http://$IP:$PORT/ocdbtier/georeplication/stopreplica/sitename/
{siteName}

# If HTTPS is enabled in cnDBTier cluster
# Obtain the Client certificate which is present in the secret configured by
user in "/global/https/secrets/clientSecret". For Ex - client-cert.pem and
client-key.pem
# Obtain the CA certificate which is present in the secret configured by user
in "/global/https/secrets/caSecret". For Ex - combine-ca.pem
# Get the replication service LoadBalancer IP for cluster1.
$ IP=$(kubectl get svc -n cluster1 -l
dbtierapp=dbreplicationsvc,servicetype=external --no-headers | awk
'{print $4}' | head -n 1 )
# Get the replication service LoadBalancer Port for cluster1.
$ PORT=$(kubectl get svc -n cluster1 -l
dbtierapp=dbreplicationsvc,servicetype=external --no-headers | awk
'{print $5}' | cut -d '/' -f 1 | cut -d ':' -f 1 | head -n 1)
$ curl --cert client-cert.pem --cert-type PEM --key client-key.pem --key-type
PEM --cacert combine-ca.pem -X PUT https://$IP:$PORT/ocdbtier/georeplication/
stopreplica/sitename/{siteName}
```

## Site with remote site and group id Specific Replication Stop replica Switchover Stop API

### API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/stopreplica/sitename/{siteName}/remotesitename/{remoteSiteName}/replchannelgroupid/{replChannelGroupId}`

**Method:** PUT

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                       |
|-----------------|---------------|----------------------------------------|
| NA              | 200 OK        | <pre>{   "stopReplica": "stop" }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                                         |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 Not Found             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre>             |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

### API Configuration

| Fields      | Description                                                                                      | Details                                                                         |
|-------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| stopReplica | This attribute indicates whether replication between corresponding sites has been halted or not. | <b>DataType:</b> string<br><b>Constraints:</b> stop<br><b>Default Value:</b> NA |

### Site with remote site Specific Replication Stop replica API

#### API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/stopreplica/siteName/{siteName}/remotesitename/{remoteSiteName}`

**Method:** PUT

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                       |
|-----------------|---------------|----------------------------------------|
| NA              | 200 OK        | <pre>{   "stopReplica": "stop" }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                                         |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 Not Found             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre>             |
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

### API Configuration

| Fields      | Description                                                                                      | Details                                                                         |
|-------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| stopReplica | This attribute indicates whether replication between corresponding sites has been halted or not. | <b>DataType:</b> string<br><b>Constraints:</b> stop<br><b>Default Value:</b> NA |

### Site Specific Replication Stop replica API

#### API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/stopreplica/sitename/{siteName}/remotesitename/{remoteSiteName}`

**Method:** PUT

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                       |
|-----------------|---------------|----------------------------------------|
| NA              | 200 OK        | <pre>{   "stopReplica": "stop" }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                             |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 Not Found             | {<br>"title": "Not Found",<br>"status": 404,<br>"detail": "<Exception<br>details>",<br>"cause": <cause>,<br>"invalidParams":<br><params><br>}                |
|                 | 500 Internal Server Error | {<br>"title": "Internal<br>Server Error",<br>"status": 500,<br>"detail": "<Exception<br>details>",<br>"cause": <cause>,<br>"invalidParams":<br><params><br>} |

### API Configuration

| Fields      | Description                                                                                      | Details                                                                         |
|-------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| stopReplica | This attribute indicates whether replication between corresponding sites has been halted or not. | <b>DataType:</b> string<br><b>Constraints:</b> stop<br><b>Default Value:</b> NA |

## 6.3 Listbackups and Heart Beat API

The cnDBTier Listbackups API can be used to determine the backups present in the cnDBTier. These APIs are hosted by the DB Replication service.

### Note

The "**base-uri**" will be "<db-replication-svc Loadbalancer IP>: <db-replication-svc Loadbalancer PORT>"

Example:

```
# If HTTP is enabled in cnDBTier cluster
# Get the replication service LoadBalancer IP for cluster1.
$ IP=$(kubectl get svc -n cluster1 -l
dbtierapp=dbreplicationsvc,servicetype=external --no-headers | awk
'{print $4}' | head -n 1 )
```

```
# Get the replication service LoadBalancer Port for cluster1.
$ PORT=$(kubectl get svc -n cluster1 -l
dbtierapp=dbrepliationsvc,servicetype=external --no-headers | awk
'{print $5}' | cut -d '/' -f 1 | cut -d ':' -f 1 | head -n 1)
$ curl -i -X GET http://$IP:$PORT/db-tier/backup/site/cluster1/listbackups

# If HTTPS is enabled in cnDBTier cluster
# Obtain the Client certificate which is present in the secret configured by
user in "/global/https/secrets/clientSecret". For Ex - client-cert.pem and
client-key.pem
# Obtain the CA certificate which is present in the secret configured by user
in "/global/https/secrets/caSecret". For Ex - combine-ca.pem
# Get the replication service LoadBalancer IP for cluster1.
$ IP=$(kubectl get svc -n cluster1 -l
dbtierapp=dbrepliationsvc,servicetype=external --no-headers | awk
'{print $4}' | head -n 1 )
# Get the replication service LoadBalancer Port for cluster1.
$ PORT=$(kubectl get svc -n cluster1 -l
dbtierapp=dbrepliationsvc,servicetype=external --no-headers | awk
'{print $5}' | cut -d '/' -f 1 | cut -d ':' -f 1 | head -n 1)
$ curl --cert client-cert.pem --cert-type PEM --key client-key.pem --key-type
PEM --cacert combine-ca.pem -X GET https://$IP:$PORT/db-tier/backup/site/
cluster1/listbackups
```

### Site Specific Listing the Backups API

#### API Definition

**URI:** `http://base-uri/db-tier/backup/site/{siteName}/listbackups`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                             | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK - Fetched the list of backups present in cnDBTier. | <pre>{  "localSiteName": "&lt;current_site_name&gt;",    "backupDetails": [      {        "backupId": "&lt;backup identifier&gt;",        "backupSize": "&lt;size of backup&gt;",        "creationTimeStamp": "&lt;timestamp at which backup was initiated&gt;"      },      {        "backupId": "&lt;backup identifier&gt;",        "backupSize": "&lt;size of backup&gt;",        "creationTimeStamp": "&lt;timestamp at which backup was initiated&gt;"      },      {        "backupId": "&lt;backup identifier&gt;",        "backupSize": "&lt;size of backup&gt;"</pre> |

| Request Payload | Response Code                                          | Response Payload                                                                                                                                                                                                                       |
|-----------------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                                                        | <pre>"creationTimeStamp": "&lt;timestamp at which backup was initiated&gt;"      }    ] }</pre>                                                                                                                                        |
|                 | 404 NOT FOUND - Improper Site details/table missing    | Site Name is null so cannot list the backup<br>OR<br>Site: <siteName> doesn't match with the current site Name so cannot list the backup<br>OR<br>DBTIER_BACKUP_INFO table doesn't exist in the current site so cannot list the backup |
|                 | 500 INTERNAL SERVER ERROR - Could not list the backups | Could not list the backups, <Exception Message>                                                                                                                                                                                        |

### API Configuration

| Field             | Description                                                                                                   | Details                                                                            |
|-------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| localSiteName     | This attribute displays the name of the current site in which the cnDBTier cluster is deployed.               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| backupDetails     | This attribute displays the following information like backup ID, backup size, and backup creation timestamp. | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA        |
| backupId          | This attribute displays the ID of the stored backup.                                                          | <b>DataType:</b> big integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| backupSize        | This attribute displays the size(in bytes) of the stored backup.                                              | <b>DataType:</b> big integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| creationTimeStamp | This attribute displays the time recorded when the backup was stored.                                         | <b>DataType:</b> timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |

### Site Specific Listing the Heart Beat Status API

#### API Definition

**URI:** `http://base-uri/db-tier/status/db-replication-svc/realtime`



**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                                                                      | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK - Fetched the Heart Beat Status of every replication service running on the current cluster | <pre>{   "localSiteName": "&lt;current_site_name&gt;",   "heartBeatDetails": [     {       "remoteSiteName": "&lt;remote_site_name&gt;",       "heartBeatStatus": "&lt;SUCCESS/FAILURE&gt;",       "heartBeatLag": "&lt;Heart Beat Lag in Seconds&gt;",       "replicationChannelGroupId": "&lt;replication channel group id&gt;"     },     {       "remoteSiteName": "&lt;remote_site_name&gt;",       "heartBeatStatus": "&lt;SUCCESS/FAILURE&gt;",       "heartBeatLag": "&lt;Heart Beat Lag in Seconds&gt;",       "replicationChannelGroupId": "&lt;replication channel group id&gt;"     }   ] }</pre> |

| Request Payload | Response Code                                                                       | Response Payload                                                          |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                 |                                                                                     | }                                                                         |
|                 | 503 SERVICE_UNAVAILABLE -<br>Not able to query the Data Base                        | Not able to query the Data Base                                           |
|                 | 500<br>INTERNAL_SERVER_ERROR -<br>Could not check the replication<br>service status | Could not check the replication<br>service status, <Exception<br>Message> |

### API Configuration

| Field                     | Description                                                                                                                                 | Details                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| localSiteName             | This attribute displays the name of the current site in which the cnDBTier cluster is deployed.                                             | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA               |
| heartBeatDetails          | This attribute displays the following information like remote site name, heartbeat status, heartbeat lag, and replication channel group id. | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                 |
| remoteSiteName            | This attribute displays the name of the remote site where replication is established.                                                       | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA               |
| heartBeatStatus           | This attribute displays the connectivity status with corresponding sites.                                                                   | <b>DataType:</b> String<br><b>Constraints:</b> SUCCESS, FAILURE<br><b>Default Value:</b> NA |
| heartBeatLag              | This attribute displays the lag or latency in seconds it took to synchronize between sites.                                                 | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA               |
| replicationChannelGroupID | This attribute displays the ID of the replication channel group.                                                                            | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA              |

## 6.4 Data Memory Usage API

This section provides the Data Memory Usage API that retrieves memory usage details for the cnDBTier cluster, including data memory consumption at the node level.

### Site Specific Data Memory Usage API

#### API Definition

**URI:** `http://base-uri/db-tier/fetch/datamemory/usage`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                             | Response Payload                                                                                                                  |
|-----------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK - Fetched the list of backups present in cnDBTier. | <pre>{   "total": "&lt;total memory&gt;",   "used": "&lt;used memory&gt;",   "isCompressionEnabled": "&lt;true/false&gt;" }</pre> |
|                 | 500 INTERNAL SERVER ERROR - Could not list the backups    | Error in get_memory_usage: <Exception Message>                                                                                    |

### API Configuration

| Field                | Description                                               | Details                                                                                   |
|----------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------|
| total                | This attribute displays the name of the total memory.     | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA            |
| used                 | This attribute displays the total used memory.            | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA            |
| isCompressionEnabled | This attribute displays if compression is enabled or not. | <b>DataType:</b> Boolean<br><b>Constraints:</b> true or false<br><b>Default Value:</b> NA |

## 6.5 GRR Configuration API

This API is used to configure automatic GRR for cnDBTier.

### Note

The "**base-uri**" will be "<db-replication-svc Loadbalancer IP>: <db-replication-svc Loadbalancer PORT>"

Example:

```
# If HTTP is enabled in cnDBTier cluster
# Get the replication service LoadBalancer IP for cluster1.
$ IP=$(kubectl get svc -n cluster1 -l
dbtierapp=dbreplicationsvc,servicetype=external --no-headers | awk
```

```
{print $4}' | head -n 1 )
# Get the replication service LoadBalancer Port for cluster1.
$ PORT=$(kubectl get svc -n cluster1 -l
dbtierapp=dbrepliationsvc,servicetype=external --no-headers | awk
'{print $5}' | cut -d '/' -f 1 | cut -d ':' -f 1 | head -n 1)
$ curl -X GET http://$IP:$PORT/db-tier/site/{siteName}/config/{configNames}

# If HTTPS is enabled in cnDBTier cluster
# Obtain the Client certificate which is present in the secret configured by
user in "/global/https/secrets/clientSecret". For Ex - client-cert.pem and
client-key.pem
# Obtain the CA certificate which is present in the secret configured by user
in "/global/https/secrets/caSecret". For Ex - combine-ca.pem
# Get the replication service LoadBalancer IP for cluster1.
$ IP=$(kubectl get svc -n cluster1 -l
dbtierapp=dbrepliationsvc,servicetype=external --no-headers | awk
'{print $4}' | head -n 1 )
# Get the replication service LoadBalancer Port for cluster1.
$ PORT=$(kubectl get svc -n cluster1 -l
dbtierapp=dbrepliationsvc,servicetype=external --no-headers | awk
'{print $5}' | cut -d '/' -f 1 | cut -d ':' -f 1 | head -n 1)
$ curl --cert client-cert.pem --cert-type PEM --key client-key.pem --key-type
PEM --cacert combine-ca.pem -X PUT https://$IP:$PORT/db-tier/site/{siteName}/
config/{configNames}
```

## GRR Config values API (GET)

### API Definition

**URL:** `http://base-uri/db-tier/site/{siteName}/config/{configNames}`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                      | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK - Successfully started the On Demand backup | <pre>{   "siteName": "&lt;site_name&gt;",   "configEntries": [     {       "configName": "&lt;config_name1&gt;",       "configValue": {         "baseValue": "&lt;config_base_value&gt;",         "overrideValue": "&lt;config_override_value&gt;"       }     },     {       "configName": "&lt;config_name2&gt;",       "configValue": {         "baseValue": "&lt;config_base_value&gt;",         "overrideValue": "&lt;config_override_value&gt;"       }     }   ] }</pre> |
|                 | 500 INTERNAL SERVER ERROR                          | <pre>{   "error_type": "&lt;error type&gt;",   "error_message": "&lt;error message&gt;" }</pre>                                                                                                                                                                                                                                                                                                                                                                                 |
|                 | 400 BAD REQUEST                                    | <pre>{   "error_type": "&lt;error type&gt;",   "error_message": "&lt;error message&gt;" }</pre>                                                                                                                                                                                                                                                                                                                                                                                 |

API Configuration

| Field    | Description                           | Details                                                                       |
|----------|---------------------------------------|-------------------------------------------------------------------------------|
| siteName | This attribute displays the siteName. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

| Field         | Description                                                                   | Details                                                                                                                     |
|---------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| configNames   | This attribute displays the Config names for which we want to get the values. | <b>DataType:</b> List<br><b>Constraints:</b> BACKUP_SITE_SELECTION_POLICY,PREFERRED_BACKUP_SITE<br><b>Default Value:</b> NA |
| configEntries | This attribute displays the config entries.                                   | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                                 |
| configName    | This attribute displays the Config name.                                      | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| configValue   | This attribute displays the Config value.                                     | <b>DataType:</b> map<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                                  |
| baseValue     | This attribute displays the Config base value.                                | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| overrideValue | This attribute displays the Config override value.                            | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |

**GRR Configuration values API (UPDATE)****API Definition****URL:** `http://base-uri/db-tier/site/{siteName}/config/{configName}`**Method:** POST**API Type:** Realtime API

| Request Payload                                                                                 | Response Code             | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre>{   "baseValue": "&lt;base_value&gt;",   "overrideValue": "&lt;override_value&gt;" }</pre> | 200 OK                    | <pre>{   "siteName": "&lt;site_name&gt;",   "configEntries": [     {       "configName":         "&lt;config_name1&gt;",       "configValue": {         "baseValue":           "&lt;config_base_value&gt;",         "overrideValue":           "&lt;config_override_value&gt;"       }     },     {       "configName":         "&lt;config_name2&gt;",       "configValue": {         "baseValue":           "&lt;config_base_value&gt;",         "overrideValue":           "&lt;config_override_value&gt;"       }     }   ] }</pre> |
|                                                                                                 | 500 INTERNAL SERVER ERROR | <pre>{   "error_type": "&lt;error type&gt;",    "error_message": "&lt;error message&gt;" }</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                 | 400 BAD REQUEST           | <pre>{   "error_type": "&lt;error type&gt;",    "error_message": "&lt;error message&gt;" }</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                        |

API Configuration



| Field         | Description                                                                   | Details                                                                                                                     |
|---------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| siteName      | This attribute displays the siteName.                                         | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| configNames   | This attribute displays the Config names for which we want to get the values. | <b>DataType:</b> List<br><b>Constraints:</b> BACKUP_SITE_SELECTION_POLICY,PREFERRED_BACKUP_SITE<br><b>Default Value:</b> NA |
| configEntries | This attribute displays the config entries.                                   | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                                 |
| configName    | This attribute displays the Config name.                                      | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| configValue   | This attribute displays the Config value.                                     | <b>DataType:</b> map<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                                  |
| baseValue     | This attribute displays the Config base value.                                | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| overrideValue | This attribute displays the Config override value.                            | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |

**GRR RESET Config override values API****API Definition****URL:** `http://base-uri/db-tier/site/{siteName}/config/{configName}/reset }`**Method:** PUT**API Type:** Realtime API

| Request Payload | Response Code             | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                    | <pre>{   "siteName": "&lt;site_name&gt;",   "configEntries": [     {       "configName": "&lt;config_name1&gt;",       "configValue": {         "baseValue": "&lt;config_base_value&gt;",         "overrideValue": "&lt;config_override_value&gt;"       }     },     {       "configName": "&lt;config_name2&gt;",       "configValue": {         "baseValue": "&lt;config_base_value&gt;",         "overrideValue": "&lt;config_override_value&gt;"       }     }   ] }</pre> |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "error_type": "&lt;error type&gt;",   "error_message": "&lt;error message&gt;" }</pre>                                                                                                                                                                                                                                                                                                                                                                                 |
|                 | 400 BAD REQUEST           | <pre>{   "error_type": "&lt;error type&gt;",   "error_message": "&lt;error message&gt;" }</pre>                                                                                                                                                                                                                                                                                                                                                                                 |
|                 | 404 NOT FOUND             | <pre>{   "error_type": "&lt;error type&gt;",   "error_message": "&lt;error message&gt;" }</pre>                                                                                                                                                                                                                                                                                                                                                                                 |

**API Configuration**

| Field         | Description                                                                   | Details                                                                                                                     |
|---------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| siteName      | This attribute displays the siteName.                                         | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| configNames   | This attribute displays the Config names for which we want to get the values. | <b>DataType:</b> list<br><b>Constraints:</b> BACKUP_SITE_SELECTION_POLICY,PREFERRED_BACKUP_SITE<br><b>Default Value:</b> NA |
| configEntries | This attribute displays the config entries.                                   | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                                 |
| configName    | This attribute displays the Config name.                                      | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| configValue   | This attribute displays the Config value.                                     | <b>DataType:</b> map<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                                  |
| baseValue     | This attribute displays the Config base value.                                | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| overrideValue | This attribute displays the Config override value.                            | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |

# 7

## Backup APIs

Backup APIs can be used to create On-demand Database backups and check status of On-demand backups in cnDBTier. These APIs are hosted by the DB backup manager service.

### Note

The "base-uri" will be "<db-backup-manager-svc svc>: 8085".

Example:

```
# Get the db-backup-manager-svc pod name from cnDBTier cluster.
$ kubectl -n <namespace of cnDBTier cluster> get pods -l
dbtierapp=dbbackupmanagersvc --no-headers | awk '{print $1}'

# Get the db-backup-manager-svc svc name from cnDBTier cluster.
$ kubectl -n <namespace of cnDBTier cluster> get svc -l
dbtierapp=dbbackupmanagersvc --no-headers | awk '{print $1}'

# Login to the db-backup-manager-svc pod and use below REST API for creating
the on-demand backup.
$ kubectl -n <namespace of cnDBTier cluster> exec -it <db-backup-manager-svc
pod> -- bash
$ curl -i -X POST http://<db-backup-manager-svc svc>:8085/db-tier/on-demand/
backup/initiate
$ curl -i -X GET http://<db-backup-manager-svc svc>:8085/db-tier/on-demand/
backup/<BACKUP_ID_INITIATED>/status
```

### 7.1 Site Specific On-demand Backup Creation API

This API initiates an on-demand database backup for a specific cnDBTier site or cluster by using the cnDBTier backup manager service.

#### API Definition

**URI:** `http://base-uri/db-tier/on-demand/backup/initiate`

**Method:** POST

**API Type:** Realtime API

| Request Payload | Response Code                                                   | Response Payload                                                                                                                                                                                     |
|-----------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK - Successfully started the On Demand backup              | <pre>{<br/>  "backup_id": "&lt;Backup id&gt;",<br/>  "status": "&lt;Backup Initiation Status&gt;"<br/><br/>  "backup_encryption_flag"<br/>: "&lt;backup encryption enabled/disabled&gt;"<br/>}</pre> |
|                 | 500 INTERNAL SERVER ERROR - Could not initiate On-demand Backup | <pre>{<br/>  "error_type": "&lt;error type&gt;",<br/><br/>  "error_message": "&lt;error message&gt;"<br/>}</pre>                                                                                     |
|                 | 400 BAD REQUEST request is invalid                              | <pre>{<br/>  "error_type": "&lt;error type&gt;",<br/><br/>  "error_message": "&lt;error message&gt;"<br/>}</pre>                                                                                     |

| Request Payload | Response Code                                | Response Payload                                                                                |
|-----------------|----------------------------------------------|-------------------------------------------------------------------------------------------------|
|                 | 503 SERVICE UNAVAILABLE<br>data node is down | {<br><br>"error_type": "<error<br>type>",<br><br>"error_message": "<error<br>message>"<br><br>} |
|                 | 409 CONFLICT backup is<br>already going on   | {<br><br>"error_type": "<error<br>type>",<br><br>"error_message": "<error<br>message>"<br><br>} |

### API Configuration

| Field                  | Description                                                                 | Details                                                                                                               |
|------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| backup_id              | This attribute displays the ID of the stored backup.                        | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                         |
| status                 | This attribute displays the status of the backup operation.                 | <b>DataType:</b> String<br><b>Constraints:</b> BACKUP_INITIATED, BACKUP_INITIATION_FAILED<br><b>Default Value:</b> NA |
| backup_encryption_flag | This attribute indicates whether backup encryption has been enabled or not. | <b>DataType:</b> String<br><b>Constraints:</b> true, false<br><b>Default Value:</b> NA                                |

## 7.2 Site Specific On-demand Backup Status API

This API retrieves the current status of an on-demand backup operation for a specific cnDBTier site.

### API Definition

**URI:** `http://base-uri/db-tier/on-demand/backup/<BACKUP_ID_INITIATED>/status`

**Method:** GET**API Type:** Realtime API

| Request Payload | Response Code                                                                            | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                                                                                   | <p>If .Values.global.remote transfer.enable is true then the response will be</p> <pre>{   "backup_status": "&lt;Backup status&gt;",   "transfer_status": "&lt;Transfer Status&gt;" }</pre> <p><b>Note:</b> Here the transfer_status indicates the backup transfer status from db-backup-manager-svc to db-replication-svc not to the remote server.</p> <p>If .Values.global.remote transfer.enable is false then the response will be</p> <pre>{   "status": "&lt;Backup status&gt;" }</pre> |
|                 | 500 INTERNAL SERVER ERROR - Could not check status for the specified On-demand Backup ID | <pre>{   "error_type": "&lt;error type&gt;",   "error_message": "&lt;error message&gt;" }</pre>                                                                                                                                                                                                                                                                                                                                                                                                |
|                 | 400 BAD REQUEST Request is invalid                                                       | <pre>{   "error_description": "&lt;error_description&gt;",   "error_type": "&lt;error type&gt;" }</pre>                                                                                                                                                                                                                                                                                                                                                                                        |

| Request Payload | Response Code                          | Response Payload                                                                                        |
|-----------------|----------------------------------------|---------------------------------------------------------------------------------------------------------|
|                 | 404 NOT FOUND backup_id does not exist | <pre>{   "error_description": "&lt;error_description&gt;",   "error_type": "&lt;error type&gt;" }</pre> |

### API Configuration

| Field           | Description                                                                                                                                                                                   | Details                                                                                                                     |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| backup_status   | This attribute displays the status of the backup operation.                                                                                                                                   | <b>DataType:</b> string<br><b>Constraints:</b> STARTED, FAILED, COMPLETED, PURGED, PURGED_EARLY<br><b>Default Value:</b> NA |
| transfer_status | This attribute displays the status of the backup transfer from db-backup-manager-svc to db-replication-svc.<br><b>Note:</b> This attribute is displayed only when remote transfer is enabled. | <b>DataType:</b> string<br><b>Constraints:</b> REQUESTED, INPROGRESS, FAILED, COMPLETED<br><b>Default Value:</b> NA         |

## 7.3 Health Check API

This API verifies whether the local cnDBTier or NDB cluster is available and healthy.

### API Definition

**URI:** `http://base-uri/db-tier/health`

**Method:** GET

**API Type:** Realtime API



| Request Payload | Response Code                | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                       | <pre>{    "is_connected_to_db":     "&lt;true false&gt;",      "overall_status":     "&lt;true false&gt;",      "service_name":     "&lt;mysql-cluster-db-     backup-manager-svc&gt;"    "executor_status_list":      [        {          "_node_id":         "&lt;node_id&gt;",          "_is_connected_to_db":         "&lt;true false&gt;",          "_is_running": "&lt;true          false&gt;"          },          ...        ]      ] }</pre> |
|                 | 500 INTERNAL SERVER<br>ERROR | <pre>{   "error_type": "&lt;error type&gt;",    "error_message": "&lt;error message&gt;" }</pre>                                                                                                                                                                                                                                                                                                                                                       |

## API Configuration

| Field                 | Description                                                                                                                                                                      | Details                                                                                 |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| is_connected_to_db    | This attribute displays the status of the database connection.                                                                                                                   | <b>DataType:</b> Boolean<br><b>Constraints:</b> true, false<br><b>Default Value:</b> NA |
| overall_status        | This attribute displays the operational well-being of the backup executor service.                                                                                               | <b>DataType:</b> Boolean<br><b>Constraints:</b> true, false<br><b>Default Value:</b> NA |
| service_name          | This attribute displays the name of the cnDBTier microservice.                                                                                                                   | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA           |
| executor_status_list  | This attribute displays the following information like backup upload status, database connection, overall status, and service name.                                              | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA             |
| _node_id              | This attribute displays the Node ID of the DB node.                                                                                                                              | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA          |
| _backup_upload_status | This attribute displays the following information like backup ID, description, local file path, node ID, remote file path, SFTP hostname, transfer state, and upload percentage. | <b>DataType:</b> Object<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA           |
| backup_id             | This attribute displays the ID of the stored backup.                                                                                                                             | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA           |
| node_id               | This attribute displays the Node ID of the DB node.                                                                                                                              | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA           |
| sftp_hostname         | This attribute displays the hostname for SFTP.                                                                                                                                   | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA           |
| local_file_path       | This attribute displays the path of the backup file within the local microservice.                                                                                               | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA           |
| remote_file_path      | This attribute displays the path of the backup file within the remote microservice.                                                                                              | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA           |
| upload_percentage     | This attribute indicates the percentage of the backup transfer that has been uploaded.                                                                                           | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA          |

| Field          | Description                                                     | Details                                                                                                                          |
|----------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| transfer_state | This attribute displays the state of the backup transfer.       | <b>DataType:</b> String<br><b>Constraints:</b> NOT_STARTED, REQUESTED, INPROGRESS, COMPLETED, FAILED<br><b>Default Value:</b> NA |
| description    | This attribute displays the description of the backup transfer. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                                    |

# 8

## Console APIs

Each NF integrates cnDBTier APIs in their menuCncc.json file. A sample cnDBTier menuCncc.json file to be integrated with NF menuCncc.json file is mentioned below.

### Note

NFs and end users should not directly invoke the REST APIs described in this section. All configurations must be performed using the Console GUI, which automatically runs the required API calls.

A sample menuCncc.json file:

```
{
  "menu": {
    "routeConfig": {
      "home": {
        "label": "Home",
        "value": "home",
        "isDefault": true
      },
      "commonServices": {
        "label": "Common Services",
        "value": "commonServices",
        "isDefault": true
      },
      "services/{nf}/{service}": {
        "label": "Services",
        "value": "services"
      },
      "configurations/{nf}/{configType}": {
        "label": "Configurations",
        "value": "configurations"
      }
    },
    "menuItems": [
      {
        "attr": {
          "id": "cnDBTier",
          "name": "cnDBTier",
          "sequence": 10
        },
        "children": [
          {
            "attr": {
              "id": "services/<NF Name>/dbconfig-backupList",
              "name": "Backup List",
              "sequence": 10
            }
          }
        ]
      }
    ]
  }
}
```

```

    },
    {
      "attr": {
        "id": "services/<NF Name>/dbconfig-ndbBackupStatus",
        "name": "cnDBTier Backup Status",
        "sequence": 15
      }
    },
    {
      "attr": {
        "id": "cnDBTierHealth",
        "name": "cnDBTier Health",
        "sequence": 20
      }
    },
    "children": [
      {
        "attr": {
          "id": "services/<NF Name>/dbconfig-backupHealthStatus",
          "name": "Backup Manager Health Status",
          "sequence": 100
        }
      },
      {
        "attr": {
          "id": "services/<NF Name>/dbconfig-monitorHealthStatus",
          "name": "Monitor Health Status",
          "sequence": 110
        }
      },
      {
        "attr": {
          "id": "services/<NF Name>/dbconfig-ndbHealthStatus",
          "name": "NDB Health Status",
          "sequence": 120
        }
      },
      {
        "attr": {
          "id": "services/<NF Name>/dbconfig-replicationHealthStatus",
          "name": "Replication Health Status",
          "sequence": 130
        }
      }
    ]
  },
  {
    "attr": {
      "id": "services/<NF Name>/dbconfig-version",
      "name": "cnDBTier Version",
      "sequence": 30
    }
  },
  {
    "attr": {
      "id": "services/<NF Name>/dbconfig-databaseStatisticsReport",
      "name": "Database Statistics Report",

```

```

        "sequence": 40
    },
    {
        "attr": {
            "id": "GeoreplicationRecovery",
            "name": "Georeplication Recovery",
            "sequence": 50
        },
        "children": [
            {
                "attr": {
                    "id": "services/<NF Name>/dbconfig-updateClusterAsFailed",
                    "name": "Update Cluster As Failed",
                    "sequence": 100
                }
            },
            {
                "attr": {
                    "id": "services/<NF Name>/dbconfig-
startGeoreplicationRecovery",
                    "name": "Start Georeplication Recovery",
                    "sequence": 110
                }
            },
            {
                "attr": {
                    "id": "services/<NF Name>/dbconfig-
georeplicationRecoveryStatus",
                    "name": "Georeplication Recovery Status",
                    "sequence": 120
                }
            }
        ]
    },
    {
        "attr": {
            "id": "configurations/<NF Name>/dbconfig-geoReplicationStatus",
            "name": "Georeplication Status",
            "sequence": 60
        }
    },
    {
        "attr": {
            "id": "configurations/<NF Name>/dbconfig-
geoReplicationStatusAcrossAll",
            "name": "Georeplication Status Across All Sites",
            "sequence": 110
        }
    },
    {
        "attr": {
            "id": "GracefullyStopAndStartGeoreplication",
            "name": "Gracefully Stop And Start Georeplication",
            "sequence": 140
        }
    },

```

```

        "children": [
            {
                "attr": {
                    "id": "services/<NF Name>/dbconfig-stopGeoReplication",
                    "name": "Stop Georeplication",
                    "sequence": 100
                }
            },
            {
                "attr": {
                    "id": "services/<NF Name>/dbconfig-startGeoReplication",
                    "name": "Start Georeplication",
                    "sequence": 110
                }
            }
        ]
    },
    {
        "attr": {
            "id": "configurations/<NF Name>/dbconfig-ipFamilyPreference",
            "name": "IP Preference For Replication Channel",
            "sequence": 120
        }
    },
    {
        "attr": {
            "id": "services/<NF Name>/dbconfig-clusterStatus",
            "name": "Local Cluster Status",
            "sequence": 70
        }
    },
    {
        "attr": {
            "id": "services/<NF Name>/dbconfig-onDemandBackup",
            "name": "On Demand Backup",
            "sequence": 80
        }
    },
    {
        "attr": {
            "id": "services/<NF Name>/dbconfig-heartBeatStatus",
            "name": "Replication HeartBeat Status",
            "sequence": 90
        }
    }
    ]
}

```

### CNC-Console GUI is the consumer of these APIs

DB Tier Status API will facilitate CNC Console user interface to determine the status of the cnDBTier and associated cross-site replication. The DB Tier Status API is hosted by the DB Monitor service.

**Note**

- The "**base-uri**" will be "<db-monitor-svc service name>.<namespace>:8080"
- The namespace "occne-cndbtier" is given in the documentation only as an indicative purpose. The users are requested to configure the name according to their environment.

Example:

```
curl http://mysql-cluster-db-monitor-svc.occne-cndbtier:8080/ocdbtier/status/replication/realtime
```

## 8.1 Site Specific Real Time Replication Status API

This API is used to check the real-time geo-replication status between the current cnDBTier site or cluster and a specific mate site.

**API Definition**

**URI:** `http://base-uri/ocdbtier/status/replication/realtime/{remoteSiteName}`

**Method:** GET

**API Type:** Realtime API



| Request Payload | Response Code                             | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK - Cross-site replication is active | <pre>{   "localSiteName": "&lt;current-site-name&gt;",   "remoteSiteName": "&lt;remote-site-name&gt;",   "replicationStatus": "UP/DOWN/INITIALIZING"   "secondsBehindRemote":     "&lt;greater_secondsBehindRemote_of_multiplegroups_withremotesite&gt;"   "replicationGroupDelay":     [       {         "replchannel_group_id":           "1",         "secondsBehindRemote":           &lt;seconds&gt;,           "channelDetails":             [               {                 "remote_replication_ip":                   "127.0.0.1",                   "role":                     "ACTIVE"                 },                 {                   "remote_replication_ip":                     "127.0.0.2",                     "role":                       "STANDBY"                 }               ]             },             {               "replchannel_group_id":                 "2",               "secondsBehindRemote":                 &lt;seconds&gt;,               "channelDetails":</pre> |

| Request Payload | Response Code                                                        | Response Payload                                                                                                                                                                       |
|-----------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                                                                      | <pre>[   {     "remote_replication_ip":       "127.0.0.3",     "role":       "ACTIVE"   },   {     "remote_replication_ip":       "127.0.0.4",     "role":       "STANDBY"   } ]</pre> |
|                 | 503 Service Unavailable - -<br>Cross-site replication is not enabled | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":     &lt;params&gt; }</pre>             |
|                 | 400 Bad Request                                                      | <pre>{   "title": "Bad Request",   "status": 400,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":     &lt;params&gt; }</pre>                     |

| Request Payload | Response Code             | Response Payload                                                                                                                                             |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 Not Found             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |
|                 | 500 Internal Server Error |                                                                                                                                                              |

### API Configuration

| Field                 | Description                                                                                                                                                                      | Details                                                                                           |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| localSiteName         | This attribute displays the name of the current site in which the cnDBTier cluster is deployed.                                                                                  | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |
| remoteSiteName        | This attribute displays the name of the remote site where replication is established.                                                                                            | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |
| replicationStatus     | This attribute displays the replication status with corresponding sites.                                                                                                         | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN, INITIALIZING<br><b>Default Value:</b> NA |
| secondsBehindRemote   | This attribute displays the number of seconds that the last record read by the local site is behind the latest record written by the remote site for all the replication groups. | <b>DataType:</b> long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |
| replicationGroupDelay | This attribute displays the seconds behind the remote site for individual replication groups.                                                                                    | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |
| replchannel_group_id  | This attribute displays the ID of the replication channel group.                                                                                                                 | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |
| channelDetails        | This attribute displays all channel details such as Remote Replication IP and Role.                                                                                              | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |
| remote_replication_ip | This attribute displays the IP of the remote replication channel.                                                                                                                | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |

| Field | Description                                                     | Details                                                                                    |
|-------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| role  | This attribute displays the role of the replication channel IP. | <b>DataType:</b> string<br><b>Constraints:</b> ACTIVE, STANDBY<br><b>Default Value:</b> NA |

## 8.2 Real Time Overall Replication Status API

### API Definition

**URI:** `http://base-uri/ocdbtier/status/replication/realtime`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                             | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK - Cross-site replication is active | <pre>{   [     {       "localSiteName": "&lt;current-site-name&gt;",       "remoteSiteName": "&lt;remote-site-name&gt;",       "replicationStatus": "UP/DOWN/INITIALIZING"       "secondsBehindRemote":       "&lt;greater_secondsBehindRemote_of_multiplegroups_withremotesite&gt;"       "replicationGroupDelay":       [{         replchannel_group_id: 1,         secondsBehindRemote:         &lt;seconds&gt;       },       {         replchannel_group_id: 2,         secondsBehindRemote:         &lt;seconds&gt;       }     ],     {       "localSiteName": "&lt;current-site-name&gt;",       "remoteSiteName": "&lt;remote-site-name&gt;",       "replicationStatus": "UP/DOWN/INITIALIZING"       "secondsBehindRemote":       "&lt;greater_secondsBehindRemote_of_multiplegroups_withremotesite&gt;"       "replicationGroupDelay":</pre> |

| Request Payload | Response Code                                                   | Response Payload                                                                                                                                                                 |
|-----------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                                                                 | <pre>[{   replchannel_group_id: 1,   secondsBehindRemote:     &lt;seconds&gt;   },   {     replchannel_group_id: 2,     secondsBehindRemote:       &lt;seconds&gt;   }] ]</pre>  |
|                 | 503 Service Unavailable - Cross-site replication is not enabled | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":     &lt;params&gt; }</pre>       |
|                 | 500 Internal Server Error                                       | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail":     "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams":     &lt;params&gt; }</pre> |

### API Configuration

| Field         | Description                                                                                     | Details                                                                       |
|---------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| localSiteName | This attribute displays the name of the current site in which the cnDBTier cluster is deployed. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

| Field                 | Description                                                                                                                                                                      | Details                                                                                           |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| remoteSiteName        | This attribute displays the name of the remote site where replication is established.                                                                                            | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |
| replicationStatus     | This attribute displays the replication status with corresponding sites.                                                                                                         | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN, INITIALIZING<br><b>Default Value:</b> NA |
| secondsBehindRemote   | This attribute displays the number of seconds that the last record read by the local site is behind the latest record written by the remote site for all the replication groups. | <b>DataType:</b> long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |
| replicationGroupDelay | This attribute displays the seconds behind the remote site for individual replication groups.                                                                                    | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                       |
| replchannel_group_id  | This attribute displays the ID of the replication channel group.                                                                                                                 | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                     |

## 8.3 Real Time Local Cluster Status API

This API provides the current operational status of a local cnDBTier cluster in real time.

### API Definition

**URI:** `http://base-uri/ocdbtier/status/cluster/local/realtime`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                               | Response Payload                                                                             |
|-----------------|---------------------------------------------|----------------------------------------------------------------------------------------------|
| NA              | 200 OK- The local NDB cluster is UP or DOWN | <pre>{   "clusterName": "&lt;current-cluster-name&gt;",   "clusterStatus": "UP/DOWN" }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                                         |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

### API Configuration

| Field         | Description                                                                                        | Details                                                                             |
|---------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| clusterName   | This attribute displays the name of the current cluster in which the cnDBTier cluster is deployed. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA       |
| clusterStatus | This attribute displays the local cluster status for the current cluster.                          | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |

## 8.4 cnDBTier Version API

This section provides cnDBTier Version API that provides version information for the cnDBTier deployment, including the cnDBTier software version and the NDB version.

### API Definition

**URI:** `http://base-uri/ocdbtier/version`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                        |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>{   "cndbtier_version": "&lt;cndbtier_version&gt;",   "ndb_version": "&lt;ndb_version&gt;" }</pre> |



| Request Payload | Response Code             | Response Payload                                                                                                                                                         |
|-----------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 500 Internal Server Error | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception details&gt;",   "cause": &lt;cause&gt;,   "invalidParams": &lt;params&gt; }</pre> |

#### API Configuration

| Field            | Description                                                 | Details                                                                       |
|------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------|
| cndbtier_version | This attribute displays the cnDBTier version.               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| ndb_version      | This attribute displays the network database (NDB) version. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 8.5 Site Specific Listing the Completed Backups API

This API is used to retrieve the list of completed backups for a specific site.

#### API Definition

**URI:** `http://base-uri/ocdbtier/list/backups`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                                                                      | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK - Fetched the Heart Beat Status of every replication service running on the current cluster | <pre>{   "localSiteName":     "&lt;current_site_name&gt;",   "backupDetails": [     {       "backupId": "&lt;backup         identifier&gt;",       "backupSize": "&lt;size         of backup&gt;",       "creationTimeStamp":         "&lt;timestamp at which backup         was initiated&gt;"     },     {       "backupId": "&lt;backup         identifier&gt;",       "backupSize": "&lt;size         of backup&gt;",       "creationTimeStamp":         "&lt;timestamp at which backup         was initiated&gt;"     },     {       "backupId": "&lt;backup         identifier&gt;",       "backupSize": "&lt;size         of backup&gt;",       "creationTimeStamp":         "&lt;timestamp at which backup         was initiated&gt;"     }   ] }</pre> |
|                 | 404 NOT FOUND Table Missing                                                                        | <pre>{   "title": "Not Found",   "status": 404,   "detail":     "DBTIER_BACKUP_INFO table     doesn't exist in the     current site so cannot list     the backup",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                 | 500 INTERNAL SERVER ERROR                                                                          | <pre>{   "title": "Internal Server     Error",   "status": 500,   "detail": "Could not list     the backups",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### API Configurations

| Field             | Description                                                                                                   | Details                                                                            |
|-------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| localSiteName     | This attribute displays the name of the current site in which the cnDBTier cluster is deployed.               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| backupDetails     | This attribute displays the following information like backup ID, backup size, and backup creation timestamp. | <b>DataType:</b> List<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA        |
| backupId          | This attribute displays the ID of the stored backup.                                                          | <b>DataType:</b> big integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| backupSize        | This attribute displays the size(in bytes) of the stored backup.                                              | <b>DataType:</b> big integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| creationTimeStamp | This attribute displays the time recorded when the backup was stored.                                         | <b>DataType:</b> timestamp<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |

## 8.6 Database Statistics Reports API

This API retrieves database statistics reports for the cnDBTier environment.

### API Definition

**URI:** `http://base-uri/ocdbtier/statistics/report/dbinfo`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>{   "databaseCount": &lt;database count&gt;,    "databaseTablesCount": [     {       "dbName": "&lt;database name&gt;",       "tableCount": &lt;table count&gt;     },     {       "dbName": "&lt;database name&gt;",       "tableCount": &lt;table count&gt;     }   ],    "databaseTableRowsCount" : [     {       "dbName": "&lt;database name&gt;",       "tables": [         {           "tableName": "&lt;table name&gt;",           "rowCount": &lt;row count&gt;         }       ]     },     {       "dbName": "&lt;database name&gt;",       "tables": [         {           "tableName": "&lt;table name&gt;",           "rowCount": &lt;row count&gt;         },         {           "tableName": "&lt;table name&gt;",           "rowCount": &lt;row count&gt;         }       ]     }   ] }</pre> |

| Request Payload | Response Code                | Response Payload                                                                                                                                        |
|-----------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                              | <pre> } ] } </pre>                                                                                                                                      |
|                 | 503 SERVICE_UNAVAILABLE      | <pre> {   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Exception details&gt;",   "cause": null,   "invalidParams": null } </pre>   |
|                 | 500<br>INTERNAL_SERVER_ERROR | <pre> {   "title": "Internal Server Error",   "status": 500,   "detail": "&lt;Exception Details&gt;",   "cause": null,   "invalidParams": null } </pre> |

### API Configuration

| Field                  | Description                                                                                                      | Details                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| databaseCount          | This attribute displays the number of available databases.                                                       | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| databaseTablesCount    | This attribute displays the available database names and their table count.                                      | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| dbName                 | This attribute displays the database name.                                                                       | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |
| tableCount             | This attribute displays the table count for each database.                                                       | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| databaseTableRowsCount | This attribute displays all the tables within a database along with their respective row counts.                 | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA    |
| tables                 | This attribute displays the names of individual tables in a database along with the number of rows they contain. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |

| Field     | Description                                                     | Details                                                                       |
|-----------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|
| tableName | This attribute displays the table name.                         | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| rowCount  | This attribute displays the total count of rows within a table. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 8.7 Overall HeartBeat Status API

This API checks the overall heartbeat status of the cnDBTier environment.

### API Definition

**URI:** `http://base-uri/ocdbtier/heartbeat/status`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>{   "heartBeatDetails": [     {       "remoteSiteName":         "&lt;remote_site_name&gt;",       "heartBeatStatus":         "&lt;SUCCESS/FAILURE&gt;",       "heartBeatLag":         "&lt;Heart Beat Lag in         Seconds&gt;",       "replicationChannelGroupId":         "&lt;replication channel group         id&gt;"     },     {       "remoteSiteName":         "&lt;remote_site_name&gt;",       "heartBeatStatus":         "&lt;SUCCESS/FAILURE&gt;",       "heartBeatLag":         "&lt;Heart Beat Lag in         Seconds&gt;",       "replicationChannelGroupId":         "&lt;replication channel group         id&gt;"     }   ],   "siteName":     "&lt;current_site_name&gt;", }</pre> |

| Request Payload | Response Code                                                    | Response Payload                                                                                                                                              |
|-----------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 503 SERVICE_UNAVAILABLE - Not able to query the Data Base        | {<br>"title": "Service Unavailable",<br>"status": 503,<br>"detail": "Not able to query the Data Base",<br>"cause": null,<br>"invalidParams": null<br>}        |
|                 | 500 INTERNAL_SERVER_ERROR - Could Not Check The HeartBeat Status | {<br>"title": "Internal Server Error",<br>"status": 500,<br>"detail": "Could Not Check The HeartBeat Status",<br>"cause": null,<br>"invalidParams": null<br>} |

### API Configuration

| Field                     | Description                                                                                                                                 | Details                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| heartBeatDetails          | This attribute displays the following information like remote site name, heartbeat status, heartbeat lag, and replication channel group ID. | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                 |
| remoteSiteName            | This attribute displays the name of the remote site where replication is established.                                                       | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA               |
| heartBeatStatus           | This attribute displays the connectivity status with corresponding sites.                                                                   | <b>DataType:</b> String<br><b>Constraints:</b> SUCCESS, FAILURE<br><b>Default Value:</b> NA |
| heartBeatLag              | This attribute displays the lag or latency in seconds it took to synchronize between sites.                                                 | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA               |
| replicationChannelGroupID | This attribute displays the ID of the replication channel group.                                                                            | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA              |
| siteName                  | This attribute displays the name of the current site in which the cnDBTier cluster is deployed.                                             | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA               |

## 8.8 On Demand Backup GET API

This API retrieves information about an on-demand backup operation.

**API Definition****URI:** `http://base-uri/ocdbtier/on-demand/backup/initiate`**Method:** GET**API Type:** Realtime API

| Request Payload | Response Code                | Response Payload                                                                                                                                                                                                                                                                                                                             |
|-----------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                       | <pre>{   "siteName":     "&lt;current_site_name&gt;",   "drStatus":     "&lt;drStatus&gt;",   "backupId":     "&lt;backupId&gt;",   "backupStatus":     "&lt;backupStatus&gt;",   "remoteTransferStatus":     "&lt;remoteTransferStatus&gt;",   "initiateBackup": false/     true,   "transferStatus": "&lt;transferS     tatus&gt;" }</pre> |
|                 | 404 NOT FOUND                | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception     message&gt;",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                |
|                 | 500<br>INTERNAL_SERVER_ERROR | <pre>{   "title": "Internal Server     Error",   "status": 500,   "detail": "&lt;Exception     message&gt;",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                |

**API Configuration**

| Field    | Description                                                                                     | Details                                                                       |
|----------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| siteName | This attribute displays the name of the current site in which the cnDBTier cluster is deployed. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| drStatus | This attribute displays the disaster recovery status.                                           | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |



| Field                | Description                                                    | Details                                                                                                                     |
|----------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| backupId             | This attribute displays the ID of the stored backup.           | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| backupStatus         | This attribute displays the status of the backup.              | <b>DataType:</b> string<br><b>Constraints:</b> STARTED, FAILED, COMPLETED, PURGED, PURGED_EARLY<br><b>Default Value:</b> NA |
| remoteTransferStatus | The attribute displays the status of the remote transfer.      | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| transferStatus       | The attribute displays the status of the local transfer.       | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| initiateBackup       | The attribute displays whether the backup is initiated or not. | <b>DataType:</b> boolean<br><b>Constraints:</b> true, false<br><b>Default Value:</b> NA                                     |

## 8.9 On Demand Initiate Backup POST API

This API is used to start a new backup operation manually.

### API Definition

**URI:** `http://base-uri/ocdbtier/on-demand/backup/initiate`

**Method:** POST

**API Type:** Realtime API

| Request Payload                                                                                                                                                                                                                                                                        | Response Code | Response Payload                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre>{   "siteName":     "&lt;current_site_name&gt;",   "drStatus":     "&lt;drStatus&gt;",   "backupId":     "&lt;backupId&gt;",   "backupStatus":     "&lt;backupStatus&gt;",    "remoteTransferStatus":     "&lt;remoteTransferStatus&gt;" ,    "initiateBackup":false/ true,</pre> | 200 OK        | <pre>{   "siteName":     "&lt;current_site_name&gt;",   "drStatus": "&lt;drStatus&gt;",   "backupId": "&lt;backupId&gt;",   "backupStatus":     "&lt;backupStatus&gt;",   "remoteTransferStatus":     "&lt;remoteTransferStatus&gt;",   "initiateBackup": false/ true,    "transferStatus": "&lt;transferS tatus&gt;" }</pre> |

| Request Payload                                         | Response Code             | Response Payload                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre>"transferStatus": "&lt;transferStatus&gt;" }</pre> | 400 BAD REQUEST           | <pre>{   "title": "Bad Request",   "status": 400,   "detail": "Couldn't initiate the backup when initiateBackup flag is set to false",   "cause": null,   "invalidParams": [     {       "param": "initiateBackup",       "reason": "Couldn't initiate the backup when initiateBackup flag is set to false"     }   ] }</pre> |
|                                                         | 404 NOT FOUND             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Exception message&gt;",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                     |
|                                                         | 500 INTERNAL_SERVER_ERROR | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "BACKUP_INITIATION_FAILED",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                          |

### API Configuration

| Field    | Description                                                                                     | Details                                                                       |
|----------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| siteName | This attribute displays the name of the current site in which the cnDBTier cluster is deployed. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

| Field                | Description                                                    | Details                                                                                                                     |
|----------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| drStatus             | This attribute displays the disaster recovery status.          | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| backupId             | This attribute displays the ID of the stored backup.           | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| backupStatus         | This attribute displays the status of the backup.              | <b>DataType:</b> string<br><b>Constraints:</b> STARTED, FAILED, COMPLETED, PURGED, PURGED_EARLY<br><b>Default Value:</b> NA |
| remoteTransferStatus | The attribute displays the status of the remote transfer.      | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| transferStatus       | The attribute displays the status of the local transfer.       | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                               |
| initiateBackup       | The attribute displays whether the backup is initiated or not. | <b>DataType:</b> boolean<br><b>Constraints:</b> true, false<br><b>Default Value:</b> NA                                     |

## 8.10 Replication Health Status API

This API displays the health status of the cnDBTier replication service.

### API Definition

**URI:** `http://base-uri/ocdbtier/health-info/replication-svc/status`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                                                      | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                                                                             | <pre>{   "localSiteName": "&lt;siteName&gt;",   "healthStatusDetails": [     {       "serviceName": "&lt;serviceName&gt;",       "serviceStatus": "UP/DOWN",       "connectionToDbStatus": "UP/ DOWN",       "overAllReplicationServiceHe alth": "UP/DOWN"     },     {       "serviceName": "&lt;serviceName&gt;",       "serviceStatus": "UP/DOWN",       "connectionToDbStatus": "UP/ DOWN",       "overAllReplicationServiceHe alth": "UP/DOWN"     }.....   ] }</pre> |
|                 | 503 SERVICE_UNAVAILABLE -<br>Replication Service IP is empty                       | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "Replication Service IP is empty",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                                                                                                                                  |
|                 | 500<br>INTERNAL_SERVER_ERROR -<br>Could Not Check The Replication<br>Health Status | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "Could Not Check The Health Status",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                                                                                                                              |

### API Configuration

| Field                           | Description                                                                                                                                                     | Details                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| localSiteName                   | This attribute displays the name of the current site in which the cnDBTier cluster is deployed.                                                                 | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA       |
| healthStatusDetails             | This attribute displays the following information like service name, service status, database connection status, and overall health of the replication service. | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA         |
| serviceName                     | This attribute displays the name of the cnDBTier microservice followed by the namespace.                                                                        | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA       |
| serviceStatus                   | This attribute displays the status of the corresponding cnDBTier microservice.                                                                                  | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |
| connectionToDbStatus            | This attribute displays the status of the database connection.                                                                                                  | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |
| overAllReplicationServiceHealth | This attribute displays the operational well-being of the replication service.                                                                                  | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |

## 8.11 Monitor Service Health Status API

This API displays the health status of the cnDBTier monitor service.

### API Definition

**URI:** `http://base-uri/ocdbtier/health-info/monitor-svc/status`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                       | Response Payload                                                                                                                                                            |
|-----------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK (Monitor Service is healthy) | <pre>{   "serviceName": "mysql-cluster-db-monitor-svc",   "connectionToDbStatus":     "UP",   "metricScrapeStatus":     "UP",   "overAllMonitorServiceHealth": "UP" }</pre> |

### API Configuration

| Field                       | Description                                                                          | Details                                                                             |
|-----------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| serviceName                 | This attribute displays the name of the cnDBTier microservice.                       | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA       |
| connectionToDbStatus        | This attribute displays the status of the database connection.                       | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |
| metricScrapeStatus          | This attribute indicates whether the monitor service can collect the metrics or not. | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |
| overAllMonitorServiceHealth | This attribute displays the operational well-being of the monitor service.           | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |

## 8.12 All NDB Health Status API

This API displays the health status of all cnDBTier NDB service pods.

### API Definition

**URI:** `http://base-uri/ocdbtier/health-info/ndb-svc/status`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code                                                    | Response Payload                                                                                                                                                                                                                                                                                                                                         |
|-----------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                                                           | <pre>{   "localSiteName": "&lt;siteName&gt;",    "ndbHealthStatusDetails": [     {       "serviceName": "&lt;serviceName&gt;",       "serviceStatus": "UP/DOWN",       "pvcHealthStatus": "UP/DOWN"     },     {       "serviceName": "&lt;serviceName&gt;",       "serviceStatus": "UP/DOWN",       "pvcHealthStatus": "UP/DOWN"     }.....   ] }</pre> |
|                 | 404 NOT FOUND - sitename not found                               | <pre>{   "title": "Not Found",   "status": 404,   "detail": "sitename not found",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                                       |
|                 | 500<br>INTERNAL_SERVER_ERROR - Could Not Check The Health Status | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "Could Not Check The Health Status",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                            |

### API Configuration

| Field         | Description                                                                                     | Details                                                                        |
|---------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| localSiteName | This attribute displays the name of the current site in which the cnDBTier cluster is deployed. | <b>Data Type:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

| Field                  | Description                                                                                                                                                                                                           | Details                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ndbHealthStatusDetails | This attribute displays the following information like service name, service status, PVC health status of management microservice, data microservice, replication SQL microservice, and application SQL microservice. | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA         |
| serviceName            | This attribute displays the name of the cnDBTier microservice.                                                                                                                                                        | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA       |
| serviceStatus          | This attribute displays the status of the corresponding cnDBTier microservice.                                                                                                                                        | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |
| pvcHealthStatus        | This attribute displays the PVC health status of the corresponding cnDBTier microservice.                                                                                                                             | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |

## 8.13 Backup Manager Service Health API

This API displays the health status of the cnDBTier backup manager service.

### API Definition

**URI:** `http://base-uri/ocdbtier/health-info/backup-mgr-svc/status`

**Method:** GET

**API Type:** Realtime API



| Request Payload | Response Code                                                          | Response Payload                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                                                                 | <pre>{   "serviceName": "mysql- cluster-db-backup- manager-svc",    "connectionToDbStatus":   "UP",   "serviceStatus": "UP",    "backupExecutorHealthSta tus": [     {       "nodeId": 2,        "connectionToDbStatus":       "UP"     },     {       "nodeId": 1,        "connectionToDbStatus":       "UP"     }   ],    "overAllBackupManagerHea lth": "UP" }</pre> |
|                 | 500<br>INTERNAL_SERVER_ERROR -<br>Could Not Check The Health<br>Status | <pre>{   "title": "Internal Server Error",   "status": 500,   "detail": "Could Not Check The Health Status",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                           |

### API Configuration

| Field                | Description                                                    | Details                                                                             |
|----------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|
| serviceName          | This attribute displays the name of the cnDBTier microservice. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA       |
| connectionToDbStatus | This attribute displays the status of the database connection. | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |

| Field                      | Description                                                                                     | Details                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| serviceStatus              | This attribute displays the status of the corresponding cnDBTier microservice.                  | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |
| backupExecutorHealthStatus | This attribute displays the following information like node id, and database connection status. | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA         |
| nodeId                     | This attribute displays the Node ID of the DB node.                                             | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| overAllBackupManagerHealth | This attribute displays the operational well-being of the backup manager service.               | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |

## 8.14 cnDBTier Cluster GRR Details API

This API displays the cnDBTier cluster details required for georeplication recovery.

### API Definition

**URI:** `http://base-uri/ocdbtier/list/clusterdetails`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code             | Response Payload                                                                                                                                                                                                                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                    | <pre>[   {     "clusterName": "&lt;clusterName&gt;",     "clusterId": "1",     "status": "NOT_RUNNING/FAILED"   },   {     "clusterName": "&lt;clusterName&gt;",     "clusterId": "2",     "status": "NOT_RUNNING/FAILED"   },   {     "clusterName": "&lt;clusterName&gt;",     "clusterId": "3",     "status": "NOT_RUNNING/FAILED"   } ]</pre> |
|                 | 404 NOT FOUND             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                             |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                 |

## API Configuration

| Field       | Description                                                                                        | Details                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| clusterName | This attribute displays the name of the current cluster in which the cnDBTier cluster is deployed. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                  |
| clusterId   | This attribute displays the cluster ID.                                                            | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                  |
| status      | This attribute displays the local cluster GRR status for the current cluster.                      | <b>DataType:</b> string<br><b>Constraints:</b> NOT_RUNNING, FAILED<br><b>Default Value:</b> NA |

## 8.15 Get cnDBTier Clusters Marked as Failed API

This API displays the cnDBTier clusters that are marked as failed. It helps users identify failed or disrupted clusters that may require georeplication recovery or other corrective actions.

## API Definition

**URI:** `http://base-uri/ocdbtier/markcluster/failed`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                               |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>{   "clusterNameToBeMarkedAsFailed": "",   "failedClusterNames": [     "&lt;failedcluster1&gt;",     "&lt;failedcluster2&gt;"   ] }</pre> |
|                 | 404 NOT FOUND | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>          |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

### API Configuration

| Field                         | Description                                                                                                           | Details                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| clusterNameTobeMarkedAsFailed | This attribute displays the names of the clusters that has to be marked as failed. For this GET API it will be empty. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| failedClusterNames            | This attribute displays the names of the clusters which has been marked as Failed                                     | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |

## 8.16 Mark cnDBTier Cluster As Failed API

This API marks a disrupted cnDBTier cluster as failed. It is used to identify the failed cluster before initiating georeplication recovery or other corrective actions.

### API Definition

**URI:** `http://base-uri/ocdbtier/markcluster/failed`

**Method:** PUT

**API Type:** Realtime API

| Request Payload                                                                                       | Response Code | Response Payload                                                                                                                         |
|-------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <pre>{   "clusterNameTobeMarkedAsFailed": "&lt;failedcluster&gt;",   "failedClusterNames": [] }</pre> | 200 OK        | <pre>{   "clusterNameTobeMarkedAsFailed": "",   "failedClusterNames": [   "&lt;failedcluster1&gt;",   "&lt;failedcluster2&gt;" ] }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 NOT FOUND             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>             |
|                 | 400 BAD REQUEST           | <pre>{   "title": "BAD_REQUEST",   "status": 400,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>           |
|                 | 503 SERVICE_UNAVAILABLE   | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>   |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

**API Configuration**

| Field                         | Description                                                                                                                                                                                               | Details                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| clusterNameToBeMarkedAsFailed | This attribute displays the name of the cluster that have to be marked as failed. In request Payload, It will be the site name which has to be marked as Failed but in response payload it will be empty. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| failedClusterNames            | This attribute displays the names of the clusters which has been marked as Failed. In Request Payload it will be empty but in response it will contain all the clusters that has been marked as Failed.   | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |

## 8.17 Monitor Georeplication Recovery Status API

This API monitors the recovery status of georeplication for cnDBTier sites. This API is used to check the recovery state for both failed and active cnDBTier sites during or after a georeplication recovery operation.

**API Definition**

**URI:** `http://base-uri/ocdbtier/faultrecovery/status`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code             | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                    | <pre>{   "localClusterName":     "&lt;local cluster name&gt;",   "faultRecoverStatus": [     {       "clusterName":         "&lt;clusterName&gt;",       "faultRecoverState":         "&lt;faultRecoverState&gt;"     },     {       "clusterName":         "&lt;clusterName&gt;",       "faultRecoverState":         "&lt;faultRecoverState&gt;"     },     {       "clusterName":         "&lt;clusterName&gt;",       "faultRecoverState":         "&lt;faultRecoverState&gt;"     }   ] }</pre> |
|                 | 404 NOT FOUND             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                                                                                                                                                                               |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title":     "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                                                                                                                                                               |



**API Configuration**

| Field              | Description                                                                                 | Details                                                                       |
|--------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| localClusterName   | This attribute displays the names of the local cluster from where the status API is called. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| faultRecoverStatus | This attribute displays the names of the clusters and their georeplication recovery state.  | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |

## 8.18 Start Georeplication Recovery API

This API is used to initiate recovery for a failed or disrupted cnDBTier cluster so that georeplication can be restored between the affected sites.

**API Definition**

**URI:** `http://base-uri/ocdbtier/faultrecovery/start`

**Method:** PUT

**API Type:** Realtime API

| Request Payload                                                                                                                   | Response Code | Response Payload                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <pre>{   "backupClusterName":     "&lt;backup cluster name&gt;",   "failedClusterName":     "&lt;failed cluster name&gt;" }</pre> | 200 OK        | <pre>{   "backupClusterName":     "&lt;backup cluster name&gt;",   "failedClusterName":     "&lt;failed cluster name&gt;" }</pre>     |
|                                                                                                                                   | 404 NOT FOUND | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 400 BAD REQUEST           | <pre>{   "title": "INVALID INPUT",   "status": 400,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>         |
|                 | 503 SERVICE_UNAVAILABLE   | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>   |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |
|                 | 409 CONFLICT              | <pre>{   "title": "Conflict",   "status": 409,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>              |

API Configuration

| Field             | Description                                                                            | Details                                                                       |
|-------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| backupClusterName | This attribute displays the names of the cluster which will be used as backup cluster. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| failedClusterName | This attribute displays the names of the failed cluster.                               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

# 8.19 cnDBTier Backup Status API

This API displays the current backup status of cnDBTier, including the current system time, current backup status, and the next scheduled backup time.

API Definition

**URI:** `http://base-uri/ocdbtier/v1/backup/status`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                                                                          | API Type |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| NA              | 200 OK        | <pre>{   "backupStatus": "&lt;   backup status&gt;",   "nextBackupScheduleTime": "&lt;next   backup scheduled   timestamp&gt;",   "creationTs": "&lt;cr   eation   timestamp&gt;" }</pre> |          |

| Request Payload | Response Code             | Response Payload                                                                                                                                                                      | API Type |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title":   "Internal Server   Error",   "status": 500,   "detail":   "&lt;Exception   details&gt;",   "cause":   &lt;cause&gt;,    "invalidParams":   &lt;params&gt; }</pre> |          |

### API Configuration

| Field                  | Description                                                                      | Details                                                                        |
|------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| creationTs             | This attribute displays the creation timestamp of the last backup.               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |
| backupStatus           | This attribute displays the last backup's status.                                | <b>DataType:</b> boolean<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| nextBackupScheduleTime | This attribute displays the timestamp when the next backup is scheduled to start | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |

## 8.20 Georeplication Status Across All Sites API

This API displays the real-time cross-site replication status for all configured mate or remote sites in a cnDBTier deployment.

### API Definition

**URI:** `http://base-uri/ocdbtier/replication/status/realtime`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>[   {     "siteNameAndRemoteSiteName": "tanvi3,tanvi1",     "siteName":       "tanvi3",     "remoteSiteName":       "tanvi1",     "status": "UP",      "replicationDetailsPerGroupId": [       {         "replicationGroupId": 1,         "status": "UP",          "allSqlStatusDetails": [           {             "sqlNode":               "ndbmysqld-0",              "sourceHost":               "ndbmysqld-6.ndbmysqldsvc.tanvi1.svc.occne5-arjun-sreenivasalu",              "externalIp":               "ndbmysqld-0.ndbmysqldsvc.tanvi3.svc.occne5-arjun-sreenivasalu",              "replicaIORunning":               "Yes",              "replicaSQLRunning":               "Yes",               "serverId":                 1006,               "role":                 "ACTIVE",              "lastErrno": 0,              "lastError": "",              "lastIOErrno": 0,              "lastIOError": "",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastSQLErrno": 0,  "lastSQLException": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-6",  "sourceHost": "ndbmysqld-0.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-6.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 3000, "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastSQLErrno": 0, "lastSQLException": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinLogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   },   {     "sqlNode": "ndbmysqld-1", "sourceHost": "ndbmysqld-7.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-1.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "No", "replicaSQLRunning": "No",     "serverId": 1007,     "role": "STANDBY", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastSQLErrno": 0, "lastSQLException": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinLogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-7", "sourceHost": "ndbmysqld-1.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-7.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "No", "replicaSQLRunning": "No", "serverId": 3001, "role": "STANDBY", "lastErrno": 0, "lastError": "", "lastIOErrno": 0,</pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } }, { "replicationGroupId": 2,   "status": "UP", "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-2", "sourceHost": "ndbmysqld-8.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-2.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "Yes", "replicaSQLRunning": "Yes",       "serverId": 1008,       "role": </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-8",  "sourceHost": "ndbmysqld-2.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-8.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 3002, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>      "role": "ACTIVE",       "lastErrno": 0,       "lastError": "",       "lastIOErrno": 0,       "lastIOError": "",       "lastSQLErrno": 0,       "lastSQLError": "",       "sqlRemainingDelay": null,       "localAppliedEpoch": 3100966387723,       "currentBinlogFileBeingR eplicated": "mysql- bin.000005",       "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     },     {       "sqlNode": "ndbmysqld-3",       "sourceHost": "ndbmysqld-9.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",       "externalIp": "ndbmysqld-3.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",       "replicaIORunning": "No",       "replicaSQLRunning": "No",       "serverId": 1009,</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "role": "STANDBY", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-9", "sourceHost": "ndbmysqld-3.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-9.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "No", "replicaSQLRunning": "No", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "serverId": 3003,   "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } }, {   "replicationGroupId": 3,     "status": "UP",  "allSqlStatusDetails": [     {       "sqlNode": "ndbmysqld-4",  "sourceHost": "ndbmysqld-10.ndbmysqlds vc.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-4.ndbmysqldsv c.tanvi3.svc.occne5- </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>arjun-sreenivasalu",<br/><br/>"replicaIORunning":<br/>"Yes",<br/><br/>"replicaSQLRunning":<br/>"Yes",<br/>      "serverId":<br/>1010,<br/>      "role":<br/>"ACTIVE",<br/><br/>"lastErrno": 0,<br/><br/>"lastError": "",<br/><br/>"lastIOErrno": 0,<br/><br/>"lastIOError": "",<br/><br/>"lastSQLErrno": 0,<br/><br/>"lastSQLError": "",<br/><br/>"sqlRemainingDelay":<br/>null,<br/><br/>"localAppliedEpoch":<br/>3100966387723,<br/><br/>"currentBinlogFileBeingR<br/>eplicated": "mysql-<br/>bin.000005",<br/><br/>"binLogFileRange":<br/>"mysql-bin.000001 -<br/>mysql-bin.000005",<br/><br/>"sourceSqlStatusDetails"<br/>: {<br/><br/>"sqlNode":<br/>"ndbmysqld-10",<br/><br/>"sourceHost":<br/>"ndbmysqld-4.ndbmysqldsv<br/>c.tanvi3.svc.occne5-<br/>arjun-sreenivasalu",<br/><br/>"externalIp":<br/>"ndbmysqld-10.ndbmysqlds</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>vc.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 3004,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinLogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"       }     },     {       "sqlNode": "ndbmysqld-5",  "sourceHost": "ndbmysqld-11.ndbmysqlds vc.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-5.ndbmysqldsv</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 1011,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-11",  "sourceHost": "ndbmysqld-5.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": </pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "ndbmysqld-11.ndbmysqlds vc.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 3005,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"       }     ]   } }, {   "siteNameAndRemoteSiteNa me": "tanvi3,tanvi2",     "siteName": "tanvi3", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"remoteSiteName": "tanvi2", "status": "UP",  "replicationDetailsPerGr oupId": [ { "replicationGroupId": 1, "status": "UP",  "allSqlStatusDetails": [ { "sqlNode": "ndbmysqld-6",  "sourceHost": "ndbmysqld-6.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-6.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes", "serverId": 2006, "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-6",  "sourceHost": "ndbmysqld-6.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-6.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 3006, "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "localAppliedEpoch": 3100966387723,  "currentBinLogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     },     {       "sqlNode": "ndbmysqld-7",  "sourceHost": "ndbmysqld-7.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-7.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 2007,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-7",  "sourceHost": "ndbmysqld-7.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-7.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 3007, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] }, {  "replicationGroupId": 2,   "status": "UP",  "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-8",  "sourceHost": "ndbmysqld-8.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-8.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",       "serverId": 2008,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-8", "sourceHost": "ndbmysqld-8.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-8.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "Yes", "replicaSQLRunning": "Yes", "serverId": 3008, "role": "ACTIVE", "lastErrno": 0, "lastError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     },     {       "sqlNode": "ndbmysqld-9",  "sourceHost": "ndbmysqld-9.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-9.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 2009,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "", </pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLException": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-9",  "sourceHost": "ndbmysqld-9.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-9.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 3009, "role": "STANDBY",  "lastErrno": 0,  "lastError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } }, { "replicationGroupId": 3,   "status": "UP", "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-10", "sourceHost": "ndbmysqld-10.ndbmysqlds vc.tanvi2.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-10.ndbmysqlds vc.tanvi3.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "Yes", "replicaSQLRunning": "Yes", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"serverId": 2010, "role": "ACTIVE", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-10", "sourceHost": "ndbmysqld-10.ndbmysqlds vc.tanvi3.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-10.ndbmysqlds vc.tanvi2.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "Yes", "replicaSQLRunning":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"Yes",  "serverId": 3010,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"       }     },     {       "sqlNode": "ndbmysqld-11",  "sourceHost": "ndbmysqld-11.ndbmysqlds vc.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-11.ndbmysqlds vc.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "No",     "serverId": 2011,     "role": "STANDBY", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-11", "sourceHost": "ndbmysqld-11.ndbmysqlds vc.tanvi3.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-11.ndbmysqlds vc.tanvi2.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "No", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "replicaSQLRunning": "No",  "serverId": 3011, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   ] } }, {  "siteNameAndRemoteSiteNa me": "tanvi1,tanvi2", "siteName": "tanvi1", "remoteSiteName": "tanvi2", "status": "UP",  "replicationDetailsPerGr oupId": [     { </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"replicationGroupId": 1,   "status": "UP",  "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-0",  "sourceHost": "ndbmysqld-0.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-0.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",       "serverId": 2000,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-0",  "sourceHost": "ndbmysqld-0.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-0.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 1000, "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005", </pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|                 |               | <pre> "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     },     {       "sqlNode": "ndbmysqld-1",  "sourceHost": "ndbmysqld-1.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-1.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 2001,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-1",  "sourceHost": "ndbmysqld-1.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-1.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 1001, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql-</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     }   ] }, {  "replicationGroupId": 2,   "status": "UP",  "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-2",  "sourceHost": "ndbmysqld-2.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-2.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",       "serverId": 2002,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-2",  "sourceHost": "ndbmysqld-2.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-2.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 1002, "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     },     {       "sqlNode": "ndbmysqld-3",  "sourceHost": "ndbmysqld-3.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-3.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 2003,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingReplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-3",  "sourceHost": "ndbmysqld-3.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-3.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 1003, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinLogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] }, {  "replicationGroupId": 3,   "status": "UP",  "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-4",  "sourceHost": "ndbmysqld-4.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-4.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",       "serverId": 2004,       "role": "ACTIVE",  "lastErrno": 0, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-4", "sourceHost": "ndbmysqld-4.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-4.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "Yes", "replicaSQLRunning": "Yes", "serverId": 1004, "role": "ACTIVE", "lastErrno": 0, </pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   },   {     "sqlNode": "ndbmysqld-5", "sourceHost": "ndbmysqld-5.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-5.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "No", "replicaSQLRunning": "No",       "serverId": 2005,       "role": "STANDBY", "lastErrno": 0, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-5", "sourceHost": "ndbmysqld-5.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-5.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "No", "replicaSQLRunning": "No", "serverId": 1005, "role": "STANDBY",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] }, { "siteNameAndRemoteSiteNa me": "tanvi1,tanvi3",   "siteName": "tanvi1",   "remoteSiteName": "tanvi3",   "status": "UP", "replicationDetailsPerGr oupId": [   { "replicationGroupId": 1,   "status": "UP", "allSqlStatusDetails": [   {     "sqlNode": </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "ndbmysqld-6",  "sourceHost": "ndbmysqld-0.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-6.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",       "serverId": 3000,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : { </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"sqlNode": "ndbmysqld-0",  "sourceHost": "ndbmysqld-6.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-0.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 1006,                "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   },   {</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|                 |               | <pre>"sqlNode": "ndbmysqld-7",  "sourceHost": "ndbmysqld-1.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-7.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 3001,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"sqlNode": "ndbmysqld-1",  "sourceHost": "ndbmysqld-7.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-1.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 1007, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   }</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>    ]     },     {       "replicationGroupId": 2,       "status": "UP",       "allSqlStatusDetails": [         {           "sqlNode":             "ndbmysqld-8",           "sourceHost":             "ndbmysqld-2.ndbmysqldsv             c.tanvi3.svc.occne5-             arjun-sreenivasalu",           "externalIp":             "ndbmysqld-8.ndbmysqldsv             c.tanvi1.svc.occne5-             arjun-sreenivasalu",           "replicaIORunning":             "Yes",           "replicaSQLRunning":             "Yes",             "serverId":             3002,             "role":             "ACTIVE",           "lastErrno": 0,           "lastError": "",           "lastIOErrno": 0,           "lastIOError": "",           "lastSQLErrno": 0,           "lastSQLError": "",           "sqlRemainingDelay":             null,           "localAppliedEpoch":             3100966387723,           "currentBinlogFileBeingR</pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                 |               | <pre> eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-2",  "sourceHost": "ndbmysqld-8.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-2.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 1008, "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "currentBinLogFileBeingReplicated": "mysql-bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     },     {         "sqlNode": "ndbmysqld-9",  "sourceHost": "ndbmysqld-3.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-9.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",         "serverId": 3003,         "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                 |               | <pre> "currentBinlogFileBeingReplicated": "mysql-bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-3",  "sourceHost": "ndbmysqld-9.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-3.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 1009, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                 |               | <pre> "currentBinlogFileBeingReplicated": "mysql-bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] }, {  "replicationGroupId": 3,   "status": "UP",  "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-10",  "sourceHost": "ndbmysqld-4.ndbmysqldsvc.tanvi3.svc.occne5-arjun-sreenivasalu",  "externalIp": "ndbmysqld-10.ndbmysqldsvc.tanvi1.svc.occne5-arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",     "serverId": 3004,     "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinLogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-4", "sourceHost": "ndbmysqld-10.ndbmysqlds vc.tanvi1.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-4.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "Yes", "replicaSQLRunning": "Yes", "serverId": 1010, "role": "ACTIVE", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"       }     },     {       "sqlNode": "ndbmysqld-11",  "sourceHost": "ndbmysqld-5.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-11.ndbmysqlds vc.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 3005,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastSQLErrno": 0,  "lastSQLException": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-5",  "sourceHost": "ndbmysqld-11.ndbmysqlds vc.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-5.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 1011, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinLogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] }, {   "siteNameAndRemoteSiteNa me": "tanvi2,tanvi1",   "siteName": "tanvi2",   "remoteSiteName": "tanvi1",   "status": "UP",   "replicationDetailsPerGr oupId": [     {       "replicationGroupId": 1,       "status": "UP",       "allSqlStatusDetails": [         {           "sqlNode": "ndbmysqld-0",           "sourceHost": "ndbmysqld-0.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",</pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"externalIp": "ndbmysqld-0.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",       "serverId": 1000,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-0",  "sourceHost": "ndbmysqld-0.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                 |               | <pre>"externalIp": "ndbmysqld-0.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 2000, "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   },   {     "sqlNode": "ndbmysqld-1",  "sourceHost": "ndbmysqld-1.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"externalIp": "ndbmysqld-1.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 1001,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-1",  "sourceHost": "ndbmysqld-1.ndbmysqldsv c.tanvi2.svc.occne5-</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> arjun-sreenivasalu",  "externalIp": "ndbmysqld-1.ndbmysqldsv c.tanvi1.svc.occn5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 2001, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   ] }, {   "replicationGroupId": 2,   "status": "UP", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"allSqlStatusDetails": [<br/>  {<br/>    "sqlNode":<br/>    "ndbmysqld-2",<br/><br/>    "sourceHost":<br/>    "ndbmysqld-2.ndbmysqldsv<br/>c.tanvi1.svc.occne5-<br/>arjun-sreenivasalu",<br/><br/>    "externalIp":<br/>    "ndbmysqld-2.ndbmysqldsv<br/>c.tanvi2.svc.occne5-<br/>arjun-sreenivasalu",<br/><br/>    "replicaIORunning":<br/>    "Yes",<br/><br/>    "replicaSQLRunning":<br/>    "Yes",<br/>      "serverId":<br/>1002,<br/>      "role":<br/>"ACTIVE",<br/><br/>    "lastErrno": 0,<br/><br/>    "lastError": "",<br/><br/>    "lastIOErrno": 0,<br/><br/>    "lastIOError": "",<br/><br/>    "lastSQLErrno": 0,<br/><br/>    "lastSQLError": "",<br/><br/>    "sqlRemainingDelay":<br/>null,<br/><br/>    "localAppliedEpoch":<br/>3100966387723,<br/><br/>    "currentBinlogFileBeingR<br/>eplicated": "mysql-<br/>bin.000005",<br/><br/>    "binLogFileRange":<br/>"mysql-bin.000001 -<br/>mysql-bin.000005",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"sourceSqlStatusDetails" : {    "sqlNode":   "ndbmysqld-2",    "sourceHost":   "ndbmysqld-2.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",    "externalIp":   "ndbmysqld-2.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",    "replicaIORunning":   "Yes",    "replicaSQLRunning":   "Yes",    "serverId": 2002,                "role":   "ACTIVE",    "lastErrno": 0,    "lastError": "",    "lastIOErrno": 0,    "lastIOError": "",    "lastSQLErrno": 0,    "lastSQLError": "",    "sqlRemainingDelay":   null,    "localAppliedEpoch":   3100966387723,    "currentBinlogFileBeingR eplicated": "mysql- bin.000005",    "binLogFileRange":   "mysql-bin.000001 - mysql-bin.000005"</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>         },       },       {         "sqlNode": "ndbmysqld-3",  "sourceHost": "ndbmysqld-3.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-3.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",           "serverId": 1003,           "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-3",  "sourceHost": "ndbmysqld-3.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-3.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 2003, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - </pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>mysql-bin.000005"     }   } ] }, {   "replicationGroupId": 3,   "status": "UP",   "allSqlStatusDetails": [     {       "sqlNode":       "ndbmysqld-4",       "sourceHost":       "ndbmysqld-4.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",       "externalIp":       "ndbmysqld-4.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",       "replicaIORunning":       "Yes",       "replicaSQLRunning":       "Yes",       "serverId":       1004,       "role":       "ACTIVE",       "lastErrno": 0,       "lastError": "",       "lastIOErrno": 0,       "lastIOError": "",       "lastSQLErrno": 0,       "lastSQLError": "",       "sqlRemainingDelay":       null,       "localAppliedEpoch":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> 3100966387723,  "currentBinlogFileBeingReplicated": "mysql-bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-4",  "sourceHost": "ndbmysqld-4.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-4.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 2004, "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     },     {       "sqlNode": "ndbmysqld-5",  "sourceHost": "ndbmysqld-5.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-5.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 1005,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-5",  "sourceHost": "ndbmysqld-5.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-5.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 2005, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "localAppliedEpoch": 3100966387723,  "currentBinLogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] } }, {  "siteNameAndRemoteSiteNa me": "tanvi2,tanvi3",   "siteName": "tanvi2",   "remoteSiteName": "tanvi3",   "status": "UP",  "replicationDetailsPerGr oupId": [   {  "replicationGroupId": 1,   "status": "UP",  "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-6",  "sourceHost": "ndbmysqld-6.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-6.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"replicaSQLRunning": "Yes",     "serverId": 3006,     "role": "ACTIVE", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : { "sqlNode": "ndbmysqld-6", "sourceHost": "ndbmysqld-6.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-6.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu", "replicaIORunning":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "Yes",  "replicaSQLRunning": "Yes",  "serverId": 2006,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"       }     },     {       "sqlNode": "ndbmysqld-7",  "sourceHost": "ndbmysqld-7.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-7.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "No",  "replicaSQLRunning": "No",       "serverId": 3007,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-7",  "sourceHost": "ndbmysqld-7.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-7.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu", </pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 2007,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"       }     ]   },   {     "replicationGroupId": 2,       "status": "UP",      "allSqlStatusDetails": [       {         "sqlNode": "ndbmysqld-8",          "sourceHost": "ndbmysqld-8.ndbmysqldsv</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                 |               | c.tanvi3.svc.occne5-arjun-sreenivasalu",<br><br>"externalIp":<br>"ndbmysqld-8.ndbmysqldsv<br>c.tanvi2.svc.occne5-arjun-sreenivasalu",<br><br>"replicaIORunning":<br>"Yes",<br><br>"replicaSQLRunning":<br>"Yes",<br>"serverId":<br>3008,<br>"role":<br>"ACTIVE",<br><br>"lastErrno": 0,<br><br>"lastError": "",<br><br>"lastIOErrno": 0,<br><br>"lastIOError": "",<br><br>"lastSQLErrno": 0,<br><br>"lastSQLError": "",<br><br>"sqlRemainingDelay":<br>null,<br><br>"localAppliedEpoch":<br>3100966387723,<br><br>"currentBinlogFileBeingReplicated": "mysql-bin.000005",<br><br>"binLogFileRange":<br>"mysql-bin.000001 -<br>mysql-bin.000005",<br><br>"sourceSqlStatusDetails":<br>: {<br><br>"sqlNode":<br>"ndbmysqld-8",<br><br>"sourceHost": |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|                 |               | <pre>"ndbmysqld-8.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-8.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 2008,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"       }     },     {       "sqlNode": "ndbmysqld-9",  "sourceHost":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                 |               | <pre> "ndbmysqld-9.ndbmysqldsv c.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-9.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 3009,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-9", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "sourceHost": "ndbmysqld-9.ndbmysqldsv c.tanvi2.svc.occn5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-9.ndbmysqldsv c.tanvi3.svc.occn5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 2009, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005" } } ] }, { </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"replicationGroupId": 3,   "status": "UP",    "allSqlStatusDetails": [     {       "sqlNode":         "ndbmysqld-10",        "sourceHost":         "ndbmysqld-10.ndbmysqlds         vc.tanvi3.svc.occne5-         arjun-sreenivasalu",        "externalIp":         "ndbmysqld-10.ndbmysqlds         vc.tanvi2.svc.occne5-         arjun-sreenivasalu",        "replicaIORunning":         "Yes",        "replicaSQLRunning":         "Yes",         "serverId":         3010,         "role":         "ACTIVE",        "lastErrno": 0,        "lastError": "",        "lastIOErrno": 0,        "lastIOError": "",        "lastSQLErrno": 0,        "lastSQLError": "",        "sqlRemainingDelay":         null,        "localAppliedEpoch":         3100966387723,        "currentBinlogFileBeingR         eplicated": "mysql-         bin.000005",        "binLogFileRange":</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-10",  "sourceHost": "ndbmysqld-10.ndbmysqlds vc.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-10.ndbmysqlds vc.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",  "serverId": 2010,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre>"binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     },     {       "sqlNode": "ndbmysqld-11",  "sourceHost": "ndbmysqld-11.ndbmysqlds vc.tanvi3.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-11.ndbmysqlds vc.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 3011,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinLogFileBeingR eplicated": "mysql- bin.000005",</pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {  "sqlNode": "ndbmysqld-11",  "sourceHost": "ndbmysqld-11.ndbmysqlds vc.tanvi2.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-11.ndbmysqlds vc.tanvi3.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",  "serverId": 2011, "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005", </pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                           | <pre>"binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   ] } ]</pre>                                                                 |
|                 | 503 SERVICE_UNAVAILABLE   | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>   |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

API Configuration

| Field                     | Description                                             | Details                                                                       |
|---------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------|
| siteNameAndRemoteSiteName | This attribute displays site name and remote site name. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| siteName                  | This attribute displays site name.                      | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| remoteSiteName            | This attribute displays the remote site name.           | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

| Field                               | Description                                                                      | Details                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| status                              | This attribute displays the replication status between the site and remote site. | <b>DataType:</b> string<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA               |
| replicationDetailsPerGroupId        | This attribute displays the replication channel details per group id.            | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                      |
| replicationGroupId                  | This attribute displays the replication channel group id.                        | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| replicationDetailsPerGroupId.status | This attribute displays the replication channel status per group id.             | <b>DataType:</b> String<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA               |
| allSqlStatusDetails                 | This attribute displays the all sql node details per group id.                   | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                      |
| sqlNode                             | This attribute displays the sql node.                                            | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| sourceHost                          | This attribute displays the source host.                                         | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| externalIp                          | This attribute displays the external ip of the sql node.                         | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| replicaIORunning                    | This attribute displays the replica IO is running.                               | <b>DataType:</b> String<br><b>Constraints:</b> YES/NO<br><b>Default Value:</b> NA                |
| replicaSQLRunning                   | This attribute displays the replica SQL is running.                              | <b>DataType:</b> String<br><b>Constraints:</b> YES/NO<br><b>Default Value:</b> NA                |
| serverId                            | This attribute displays the server id.                                           | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| role                                | This attribute displays the role of the sql node.                                | <b>DataType:</b> String<br><b>Constraints:</b> ACTIVE/STANDBY/FAILED<br><b>Default Value:</b> NA |
| lastErrno                           | This attribute displays the last error.                                          | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastError                           | This attribute displays the last error number.                                   | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |

| Field                            | Description                                                        | Details                                                                         |
|----------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|
| lastIOErrno                      | This attribute displays the IO error number.                       | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |
| lastIOError                      | This attribute displays the last IO error.                         | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |
| lastSQLErrno                     | This attribute displays the last SQL error.                        | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |
| lastSQLError                     | This attribute displays the last SQL error number.                 | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |
| sqlRemainingDelay                | This attribute displays the SQL remaining delay.                   | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null |
| localAppliedEpoch                | This attribute displays the Local Applied Epoch Value.             | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA     |
| currentBinlogFileBeingReplicated | This attribute displays the Current Bin Log File Being Replicated. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null |
| binLogFileRange                  | This attribute displays the Bin Log File Range.                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> null |
| sourceSqlStatusDetails           | This attribute displays the source SQL status details.             | <b>DataType:</b> map<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |

## 8.21 Georeplication Status Across All Given SiteName and Remote SiteName API

This API retrieves the current real-time georeplication status between a specified local site and a specified remote or mate site.

### API Definition

**URI:** `http://base-uri/ocdbtier/replication/status/realtime/{siteNameAndRemoteSiteName}`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>{   "siteNameAndRemoteSiteName": "tanvi1,tanvi2",   "siteName": "tanvi1",   "remoteSiteName": "tanvi2",   "status": "UP",   "replicationDetailsPerGroupId": [     {       "replicationGroupId": 1,       "status": "UP",       "allSqlStatusDetails": [         {           "sqlNode": "ndbmysqld-0",           "sourceHost": "ndbmysqld-0.ndbmysqldsvc.tanvi2.svc.occn5-arjun-sreenivasalu",           "externalIp": "ndbmysqld-0.ndbmysqldsvc.tanvi1.svc.occn5-arjun-sreenivasalu",           "replicaIORunning": "Yes",           "replicaSQLRunning": "Yes",           "serverId": 2000,           "role": "ACTIVE",           "lastErrno": 0,           "lastError": "",           "lastIOErrno": 0,           "lastIOError": "",           "lastSQLErrno": 0,           "lastSQLException": ""         }       ]     }   ] }</pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {       "sqlNode": "ndbmysqld-0",  "sourceHost": "ndbmysqld-0.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-0.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",       "serverId": 1000,       "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     },     {         "sqlNode": "ndbmysqld-1",         "sourceHost": "ndbmysqld-1.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",         "externalIp": "ndbmysqld-1.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",         "serverId": 2001,         "role": "STANDBY",         "lastErrno": 0,         "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {       "sqlNode": "ndbmysqld-1",  "sourceHost": "ndbmysqld-1.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-1.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",       "serverId": 1001,       "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null, </pre> |



| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     }   ] }, {  "replicationGroupId": 2,   "status": "UP",  "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-2",     "sourceHost": "ndbmysqld-2.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",     "externalIp": "ndbmysqld-2.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",     "serverId": 2002,     "role": "ACTIVE",     "lastErrno": 0,     "lastError": "",  "lastIOErrno": 0,  "lastIOError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastSQLErrno": 0,  "lastSQLException": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {             "sqlNode": "ndbmysqld-2",  "sourceHost": "ndbmysqld-2.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-2.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",             "serverId": 1002,             "role": "ACTIVE",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastSQLErrno": 0,  "lastSQLException": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     },     {         "sqlNode": "ndbmysqld-3",         "sourceHost": "ndbmysqld-3.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",         "externalIp": "ndbmysqld-3.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",         "serverId": 2003,         "role": "STANDBY",         "lastErrno": 0,         "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {             "sqlNode": "ndbmysqld-3",  "sourceHost": "ndbmysqld-3.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-3.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",             "serverId": 1003,             "role": "STANDBY",  "lastErrno": 0,  "lastError": "",  "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinLogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] }, {  "replicationGroupId": 3,   "status": "UP",  "allSqlStatusDetails": [   {     "sqlNode": "ndbmysqld-4",     "sourceHost": "ndbmysqld-4.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",     "externalIp": "ndbmysqld-4.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",     "serverId": 2004,     "role": "ACTIVE",     "lastErrno": 0,     "lastError": "" </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005",  "sourceSqlStatusDetails" : {             "sqlNode": "ndbmysqld-4",  "sourceHost": "ndbmysqld-4.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "externalIp": "ndbmysqld-4.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "Yes",  "replicaSQLRunning": "Yes",             "serverId": 1004,             "role": "ACTIVE",  "lastErrno": 0,  "lastError": "", </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastIOErrno": 0,  "lastIOError": "",  "lastSQLErrno": 0,  "lastSQLError": "",  "sqlRemainingDelay": null,  "localAppliedEpoch": 3100966387723,  "currentBinlogFileBeingR eplicated": "mysql- bin.000005",  "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }     },     {         "sqlNode": "ndbmysqld-5",         "sourceHost": "ndbmysqld-5.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu",         "externalIp": "ndbmysqld-5.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu",  "replicaIORunning": "No",  "replicaSQLRunning": "No",         "serverId": 2005,         "role": "STANDBY",         "lastErrno": 0,         "lastError": "",  "lastIOErrno": 0, </pre> |

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |               | <pre> "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005", "sourceSqlStatusDetails" : {       "sqlNode": "ndbmysqld-5", "sourceHost": "ndbmysqld-5.ndbmysqldsv c.tanvi1.svc.occne5- arjun-sreenivasalu", "externalIp": "ndbmysqld-5.ndbmysqldsv c.tanvi2.svc.occne5- arjun-sreenivasalu", "replicaIORunning": "No", "replicaSQLRunning": "No",       "serverId": 1005,       "role": "STANDBY", "lastErrno": 0, "lastError": "", "lastIOErrno": 0, </pre> |



| Request Payload | Response Code   | Response Payload                                                                                                                                                                                                                                                       |
|-----------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 |                 | <pre> "lastIOError": "", "lastSQLErrno": 0, "lastSQLError": "", "sqlRemainingDelay": null, "localAppliedEpoch": 3100966387723, "currentBinlogFileBeingR eplicated": "mysql- bin.000005", "binLogFileRange": "mysql-bin.000001 - mysql-bin.000005"     }   } ] } </pre> |
|                 | 400 Bad Request | <pre> {   "title": "Bad Request",   "status": 400,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null } </pre>                                                                                                                              |
|                 | 404 Not Found   | <pre> {   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null } </pre>                                                                                                                                |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 503 SERVICE_UNAVAILABLE   | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>   |
|                 | 500 INTERNAL_SERVER_ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

### API Configuration

| Field                               | Description                                                                      | Details                                                                            |
|-------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| siteNameAndRemoteSiteName           | This attribute displays site name and remote site name.                          | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| siteName                            | This attribute displays site name.                                               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| remoteSiteName                      | This attribute displays the remote site name.                                    | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |
| status                              | This attribute displays the replication status between the site and remote site. | <b>DataType:</b> string<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA |
| replicationDetailsPerGroupId        | This attribute displays the replication channel details per group id.            | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA        |
| replicationGroupId                  | This attribute displays the replication channel group id.                        | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA     |
| replicationDetailsPerGroupId.status | This attribute displays the replication channel status per group id.             | <b>DataType:</b> String<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA |

| Field               | Description                                                    | Details                                                                                          |
|---------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| allSqlStatusDetails | This attribute displays the all sql node details per group id. | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                      |
| sqlNode             | This attribute displays the sql node.                          | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b>                       |
| sourceHost          | This attribute displays the source host.                       | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| externalIp          | This attribute displays the external IP of the SQL node.       | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| replicaIORunning    | This attribute displays the replica IO is running.             | <b>DataType:</b> String<br><b>Constraints:</b> YES/NO<br><b>Default Value:</b> NA                |
| replicaSQLRunning   | This attribute displays the replica SQL is running.            | <b>DataType:</b> String<br><b>Constraints:</b> YES/NO<br><b>Default Value:</b> NA                |
| serverId            | This attribute displays the server id.                         | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                   |
| role                | This attribute displays the role of the sql node.              | <b>DataType:</b> String<br><b>Constraints:</b> ACTIVE/STANDBY/FAILED<br><b>Default Value:</b> NA |
| lastErrno           | This attribute displays the last error.                        | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastError           | This attribute displays the last error number.                 | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastIOErrno         | This attribute displays the IO error number.                   | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastIOError         | This attribute displays the last IO error.                     | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastSQLErrno        | This attribute displays the last SQL error.                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |
| lastSQLError        | This attribute displays the last SQL error number.             | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                    |

| Field                            | Description                                                        | Details                                                                         |
|----------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------|
| sqlRemainingDelay                | This attribute displays the SQL remaining delay.                   | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> Null |
| localAppliedEpoch                | This attribute displays the Local Applied Epoch Value.             | <b>DataType:</b> Long<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA     |
| currentBinlogFileBeingReplicated | This attribute displays the Current Bin Log File Being Replicated. | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> Null |
| binLogFileRange                  | This attribute displays the Bin Log File Range.                    | <b>DataType:</b> String<br><b>Constraints:</b> NA<br><b>Default Value:</b> Null |
| sourceSqlStatusDetails           | This attribute displays the source SQL status details.             | <b>DataType:</b> map<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA      |

## 8.22 Get IpFamily Preferences API

This API retrieves the configured IP family preference status used for cnDBTier site-to-site or site-to-mate-site communication.

### API Definition

**URI:** `http://base-uri/ocdbtier/preferred/ip-family/preferences`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>[   {     "siteName":     "smr1",     "remoteSiteName":     "smr2",     "preferredFamily":     "IPV4",     "status":     "RUNNING",     "siteNameAndRemoteSiteName": "smr1,smr2"   },   {     "siteName":     "smr1",     "remoteSiteName":     "smr3",     "preferredFamily":     "IPV4",     "status":     "RUNNING",     "siteNameAndRemoteSiteName": "smr1,smr3"   } ]</pre> |
|                 | 404 NOT FOUND | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>                                                                                                                                                                                                                                                 |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 405 METHOD_NOT_ALLOWED    | <pre>{   "title": "Method Not Allowed",   "status": 405,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>    |
|                 | 503 SERVICE_UNAVAILABLE   | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>   |
|                 | 500 INTERNAL_SERVER_ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

### API Configuration

| Field           | Description                                           | Details                                                                             |
|-----------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|
| siteName        | This attribute displays the name of the current site. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA       |
| remoteSiteName  | This attribute displays the remote site name.         | <b>DataType:</b> string<br><b>Constraints:</b> UP, DOWN<br><b>Default Value:</b> NA |
| preferredFamily | This attribute displays the preferred IP family.      | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA       |

| Field                     | Description                                                     | Details                                                                                        |
|---------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| status                    | This attribute displays the status of the Ip family switchover. | <b>DataType:</b> string<br><b>Constraints:</b> RUNNING/ INPROGRESS<br><b>Default Value:</b> NA |
| siteNameAndRemoteSiteName | This attribute displays the site and remote site name.          | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                  |

## 8.23 Put IpFamily Preferences API

This API updates the IP family preferences for the cnDBTier configuration. The API can be used to set or modify the preferred IP family, such as IPv4, IPv6, or dual-stack behavior, depending on the supported deployment configuration.

### API Definition

**URI:** `http://base-uri/ocdbtier/preferred/ip-family/preferences`

**Method:** PUT

**API Type:** Realtime API

| Request Payload                                                                                                     | Response Code | Response Payload                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre>{   "siteName": "smr1",   "remoteSiteName": "smr2",   "preferredFamily": "IPv6",   "status": "RUNNING" }</pre> | 200 OK        | <pre>{   "preferredIpFamily": "IPv6",   "details": [     {       "localSiteName": "smr1",       "remoteSiteName": "smr2",       "replicationChannelGroup Id": 1,       "status": "CREATED",       "commandId": 1     }   ] }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 NOT FOUND             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>             |
|                 | 400 BAD REQUEST           | <pre>{   "title": "Bad Request",   "status": 400,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>           |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

### API Configuration

| Field             | Description                                      | Details                                                                       |
|-------------------|--------------------------------------------------|-------------------------------------------------------------------------------|
| preferredIpFamily | This attribute displays the preferred IP family. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| details           | This attribute displays the details of the site. | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |
| localSiteName     | This attribute displays the site name.           | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |



| Field                     | Description                                              | Details                                                                                                                                  |
|---------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| remoteSiteName            | This attribute displays the remote site name.            | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                                            |
| replicationChannelGroupId | This attribute displays replication channel group id.    | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                                           |
| status                    | This attribute displays the status IP family switchover. | <b>DataType:</b> string<br><b>Constraints:</b> CREATED/<br>IN_PROGRESS/<br>PRE_COMPLETE/COMPLETED/<br>FAILED<br><b>Default Value:</b> NA |
| commandId                 | This attribute displays command id.                      | <b>DataType:</b> Integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                                           |

## 8.24 Retrieve IP Family Preferences by Site and Remote Site API

This API retrieves the IP family preferences configured for a given site name and remote site name.

### API Definition

**URI:** `http://base-uri/ocdbtier/preferred/ip-family/preferences/{ siteNameAndRemoteSiteName }`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                                                 |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>{   "siteName": "smr1",   "remoteSiteName": "smr2",   "preferredFamily": "IPV4",   "status": "RUNNING",    "siteNameAndRemoteSiteName": "smr1,smr2" }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 NOT FOUND             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>             |
|                 | 400 BAD REQUEST           | <pre>{   "title": "Bad Request",   "status": 400,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>           |
|                 | 503 SERVICE_UNAVAILABLE   | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>   |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

API Configuration

| Field                     | Description                                                            | Details                                                                                                |
|---------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| siteName                  | This attribute displays the name of the current site.                  | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                          |
| remoteSiteName            | This attribute displays the remote site name.                          | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                          |
| preferredFamily           | This attribute displays the preferred IP family.                       | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                          |
| status                    | This attribute displays the status of the Ip family switchover status. | <b>DataType:</b> string<br><b>Constraints:</b> RUNNING/<br>INPROGRESS<br><b>Default Value:</b> RUNNING |
| siteNameAndRemoteSiteName | This attribute displays the site and remote site name.                 | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                          |

## 8.25 Get Mate Site details API

This API retrieves details of the mate site configured for the current cnDBTier site or cluster.

### API Definition

**URI:** `http://base-uri/ocdbtier/list/matesite/details`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                          |
|-----------------|---------------|-----------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>[   {     "remoteSiteName":     "cluster2"   },   {     "remoteSiteName":     "cluster3"   } ]</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 NOT FOUND             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>             |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

**API Configuration**

| Field          | Description                                   | Details                                                                       |
|----------------|-----------------------------------------------|-------------------------------------------------------------------------------|
| remoteSiteName | This attribute displays the remote site name. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 8.26 Get Mate Site Replication Channel Group Id details API

This API retrieves the replication channel group details configured for cnDBTier mate sites. This API enables CNC Console users to view the remote site information and the corresponding replication channel group ID used for replication between site pairs.

**API Definition**

**URI:** `http://base-uri/ocdbtier/list/matesite/replgroupid/details`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code             | Response Payload                                                                                                                               |
|-----------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK                    | [<br>{<br>"replGroupId": "1"<br>},<br>{<br>"replGroupId": "2"<br>}<br>]                                                                        |
|                 | 404 NOT FOUND             | {<br>"title": "Not Found",<br>"status": 404,<br>"detail": "<Error<br>message>",<br>"cause": null,<br>"invalidParams": null<br>}                |
|                 | 500 INTERNAL SERVER ERROR | {<br>"title":<br>"INTERNAL_SERVER_ERROR",<br>"status": 500,<br>"detail": "<Error<br>message>",<br>"cause": null,<br>"invalidParams": null<br>} |

**API Configuration**

| Field       | Description                                               | Details                                                                       |
|-------------|-----------------------------------------------------------|-------------------------------------------------------------------------------|
| replGroupId | This attribute displays the replication channel group Id. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 8.27 Gracefully Stop Georeplication API (GET)

This API stops cnDBTier georeplication between sites using the cnDBTier switchover API. It can be used to stop replication for a site against all configured mate sites, for a specific remote site, or for a specific replication channel group.

**API Definition**

**URI:** http://base-uri /ocdbtier/georeplication/stop

**Method:** GET  
**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>{   "siteName": "ses1",   "remoteSiteNames": [     "ses2"   ],   "replicationGroupIds": [     "1",     "2"   ],   "replicationSwitchOverList": [     {       "siteName": "ses1",       "remoteSiteName": "ses2",       "replicationGroupId": 1,       "replicationStatus": "UP",       "switchOverStatus": "SWITCH_OVER_ENABLED"     },     {       "siteName": "ses1",       "remoteSiteName": "ses2",       "replicationGroupId": 2,       "replicationStatus": "UP",       "switchOverStatus": "SWITCH_OVER_ENABLED"     }   ] }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 NOT FOUND             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>             |
|                 | 503 SERVICE_UNAVAILABLE   | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>   |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

### API Configuration

| Field               | Description                                                                    | Details                                                                       |
|---------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| siteName            | This attribute displays the name of the current site.                          | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| remoteSiteNames     | This attribute displays the list of remote site names of the current site.     | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |
| replicationGroupIds | This attribute displays the list of replication group ids of the current site. | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |

| Field                     | Description                                                                         | Details                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| replicationSwitchOverList | This attribute displays the replication switch over details.                        | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                             |
| siteName                  | This attribute displays the name of the current site.                               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                           |
| remoteSiteName            | This attribute displays the remote site name.                                       | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                           |
| replicationGroupId        | This attribute displays the replication group id.                                   | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                          |
| replicationStatus         | This attribute displays the status of the geo replication between sites.            | <b>DataType:</b> string<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA                                      |
| switchOverStatus          | This attribute displays the switch over status of the geo replication between sites | <b>DataType:</b> string<br><b>Constraints:</b> SWITCH_OVER_ENABLED/<br>SWITCH_OVER_DISABLED<br><b>Default Value:</b> NA |

## 8.28 Gracefully Stop Georeplication API (PUT)

This API stops cnDBTier georeplication between sites using the cnDBTier switchover API. It can be used to stop replication for a site against all configured mate sites, for a specific remote site, or for a specific replication channel group.

### API Definition

**URI:** `http://base-uri /ocdbtier/georeplication/stop`

**Method:** PUT

**API Type:** Realtime API

| Request Payload                                                                              | Response Code | Response Payload                                                                                                                      |
|----------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <pre>{   "siteName": "ses1",   "remoteSiteName": "ses2",   "replicationGroupId": "1" }</pre> | 200 OK        | NA                                                                                                                                    |
|                                                                                              | 404 NOT FOUND | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |



| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 503 SERVICE_UNAVAILABLE   | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>   |
|                 | 500 INTERNAL_SERVER_ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

### API Configuration

| Field              | Description                                           | Details                                                                        |
|--------------------|-------------------------------------------------------|--------------------------------------------------------------------------------|
| siteName           | This attribute displays the name of the current site. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |
| remoteSiteName     | This attribute displays the remote site name.         | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |
| replicationGroupId | This attribute displays the replication group id.     | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

## 8.29 Gracefully Start Georeplication API (GET)

This API starts cnDBTier georeplication between sites using the cnDBTier switchover API. It can be used to start replication for a site against all configured mate sites, for a specific remote site, or for a specific replication channel group.

### API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/start`

**Method:** GET

**API Type:** Realtime API

| Request Payload | Response Code | Response Payload                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA              | 200 OK        | <pre>{   "siteName": "ses1",   "remoteSiteNames": [     "ses2"   ],   "replicationGroupIds": [     "1",     "2"   ],   "replicationSwitchOverList": [     {       "siteName": "ses1",       "remoteSiteName": "ses2",       "replicationGroupId": 1,       "replicationStatus": "UP",       "switchOverStatus": "SWITCH_OVER_ENABLED"     },     {       "siteName": "ses1",       "remoteSiteName": "ses2",       "replicationGroupId": 2,       "replicationStatus": "UP",       "switchOverStatus": "SWITCH_OVER_ENABLED"     }   ] }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 404 NOT FOUND             | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>             |
|                 | 503 SERVICE_UNAVAILABLE   | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>   |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

### API Configuration

| Field               | Description                                                                    | Details                                                                       |
|---------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| siteName            | This attribute displays the name of the current site.                          | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |
| remoteSiteNames     | This attribute displays the list of remote site names of the current site.     | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |
| replicationGroupIds | This attribute displays the list of replication group ids of the current site. | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA   |

| Field                     | Description                                                                         | Details                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| replicationSwitchOverList | This attribute displays the replication switch over details.                        | <b>DataType:</b> list<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                             |
| siteName                  | This attribute displays the name of the current site.                               | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                           |
| remoteSiteName            | This attribute displays the remote site name.                                       | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                           |
| replicationGroupId        | This attribute displays the replication group id.                                   | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA                                          |
| replicationStatus         | This attribute displays the status of the geo replication between sites.            | <b>DataType:</b> string<br><b>Constraints:</b> UP/DOWN<br><b>Default Value:</b> NA                                      |
| switchOverStatus          | This attribute displays the switch over status of the geo replication between sites | <b>DataType:</b> string<br><b>Constraints:</b> SWITCH_OVER_ENABLED/<br>SWITCH_OVER_DISABLED<br><b>Default Value:</b> NA |

## 8.30 Gracefully Start Georeplication API (PUT)

This API starts cnDBTier georeplication between sites using the cnDBTier switchover API. It can be used to start replication for a site against all configured mate sites, for a specific remote site, or for a specific replication channel group.

### API Definition

**URI:** `http://base-uri/ocdbtier/georeplication/start`

**Method:** PUT

**API Type:** Realtime API

| Request Payload                                                                              | Response Code | Response Payload                                                                                                                      |
|----------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <pre>{   "siteName": "ses1",   "remoteSiteName": "ses2",   "replicationGroupId": "1" }</pre> | 200 OK        | NA                                                                                                                                    |
|                                                                                              | 404 NOT FOUND | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

| Request Payload | Response Code             | Response Payload                                                                                                                                  |
|-----------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | 503 SERVICE_UNAVAILABLE   | <pre>{   "title": "Not Found",   "status": 404,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>             |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "Service Unavailable",   "status": 503,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre>   |
|                 | 500 INTERNAL SERVER ERROR | <pre>{   "title": "INTERNAL_SERVER_ERROR",   "status": 500,   "detail": "&lt;Error message&gt;",   "cause": null,   "invalidParams": null }</pre> |

### API Configuration

| Field              | Description                                           | Details                                                                        |
|--------------------|-------------------------------------------------------|--------------------------------------------------------------------------------|
| siteName           | This attribute displays the name of the current site. | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |
| remoteSiteName     | This attribute displays the remote site name.         | <b>DataType:</b> string<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA  |
| replicationGroupId | This attribute displays the replication group id.     | <b>DataType:</b> integer<br><b>Constraints:</b> NA<br><b>Default Value:</b> NA |

# Glossary