Oracle® Communications Network Analytics Data Director Troubleshooting Guide





Oracle Communications Network Analytics Data Director Troubleshooting Guide, Release 23.1.0

F77635-02

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Acronyms

The following table provides information about the acronyms and the terminology used in the document.

Table Acronyms

Acronym	Description
CLI	Command Line Interface
MPS	Messages Per Second
OHC	Oracle Help Center
OSDC	Oracle Service Delivery Cloud
SCP	Oracle Communications Cloud Native Core, Service Communication Proxy (SCP)
NRF	Oracle Communications Cloud Native Core, Network Repository Function (NRF)
SEPP	Oracle Communications Cloud Native Core, Security Edge Protection Proxy (SEPP)
SVC	Services
URI	Uniform Resource Identifier
KPI	Key Performance Indicator
CNE	Cloud Native Environment
MPS	Messages Per Second

What's New in This Guide

This section lists the documentation updates for Release 23.1.0 in Oracle Communications Network Analytics Data Director Troubleshooting Guide.

Release 23.1.0 - F77635-02, May 2023

Added #unique 14 topic in the Helm Install and Upgrade Failure section.

Release 23.1.0 - F77635-01, March 2023

- Updated <u>Generic Checklist</u> section to add topics like Kafka Consumer Rebalancing, Kafka Performance Impact, Data Feed not accepting updated endpoint, 500 Server Error on GUI while creating/deleting the Data Feed and Kafka resources reaching more than 90% utilization.
- Added #unique 16 topic in the Helm Install and Upgrade Failure section.
- Added Collect logs using Deployment Data Collector Tool topic in the Logs section.
- Modified the Egress-related Alerts in <u>Application Level Alerts</u> section.

Introduction

This document provides Oracle Communications Network Analytics Data Director (OCNADD) troubleshooting information.

1.1 Overview

Oracle Communications Network Analytics Data Director (OCNADD) is a specialized Network Data Broker (NDB) that receives network data from various data sources (such as 5G NFs and Non-5G NFs) and sends the data securely to the subscribed consumers (such as third-party tools) after applying mechanisms such as data filtering, data replication, and data aggregation. All these mechanisms are configurable by the consumers.

OCNADD provides curated data (either filtered or replicated) for network analytics and monitoring. OCNADD supports robust, configurable filtering and aggregation options which enables the operator to sort data, create comprehensive dashboards, and generate Key Performance Indicators (KPIs) for all departments within the service provider framework. OCNADD also provides a GUI that enables users to create, edit, and delete data feed.

For more information about OCNADD architecture and features, see *Oracle Communications Network Analytics Data Director User Guide*.

1.2 Audience

The intended audiences for this document are the network administrators and the professionals responsible for OCNADD deployment and maintenance.

1.3 References

For more information about OCNADD, refer to the following documents:

- Oracle Communications Network Analytics Data Director User Guide
- Oracle Communications Network Analytics Data Director Installation, Upgrade, and Fault Recovery Guide
- Oracle Communications Network Analytics Data Director Benchmarking Guide
- Oracle Communications Cloud Native Environment Installation, Upgrade, and Fault Recovery Guide
- Oracle Communications Cloud Native Core DBTier Installation, Upgrade, and Fault Recovery Guide
- Oracle Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide
- Oracle Communications Cloud Native Configuration Console Troubleshooting Guide

Troubleshooting OCNADD

This chapter provides information to troubleshoot the common errors, which can be encountered during the preinstallation, installation, and upgrade procedures of OCNADD.

(i) Note

kubectl commands might vary based on the platform deployment. Replace kubectl with Kubernetes environment-specific command line tool to configure Kubernetes resources through kube-api server. The instructions provided in this document are as per the Oracle Communications Cloud Native Environment (OCCNE) version of kube-api server.

2.1 Generic Checklist

The following sections provide a generic checklists for troubleshooting OCNADD.

Deployment Checklist

Perform the following pre-deployment checks:

Failure in Certificate or Secret generation.
 There may be a possibility of an error in certificate generation when the Country, State, or Organization name is different in CA and service certificates.

Problem

The certification generation script will report an error if any of the following field in the requested service certificate is not matching with the CA whichis being used to sign the certificates for the services.

countryName
stateOrProvinceName
organizationName

Error Code/ErrorMessage:

The countryName field is different between CA certificate (US) and the request (IN) $\,$

(similar error message will be reported forState or Org name)

Solution

- Navigate to "ssl_certs/default_values/"and edit the "values"file.
- Make changes for the below values under "[global]"section countryName stateOrProvinceName



organizationName

- The values should match exactly with your CA configurations

For e.g., if your CA has country name as "US", state as "NY" and Org name as "ORACLE" then please set the values under [global] parameter like below:

[global] countryName=US stateOrProvinceName=NY localityName=BLR organizationName=ORACLE organizationalUnitName=CGBU defaultDays=365

- Rerun the script and verify the certification and secret generation.
- Run the following command to verify if OCNADD deployment, pods, and services created are running and available:

```
# kubectl -n <namespace> get deployments,pods,svc
```

Verify the output, and check the following columns:

- READY, STATUS, and RESTARTS
- PORT(S) of service

(i) Note

It is normal to observe the Kafka broker restart during deployment.

Verify if the correct image is used and correct environment variables are set in the deployment.

To check, run the following command:

- # kubectl -n <namespace> get deployment <deployment-name> -o yaml
- Check if the microservices can access each other through a REST interface. To check, run the following command:

```
# kubectl -n <namespace> exec <pod name> -- curl <uri>
```

Example:

kubectl exec -it pod/ocnaddconfiguration-6ffc75f956-wnvzx -n ocnaddsystem -- curl 'http://ocnaddadminservice:9181/ocnadd-admin-svc/v1/topic'



(i) Note

These commands are in their simple format and display the logs only if ocnaddconfiguration and ocnadd-admin-svc pods are deployed.



The list of URIs for all the microservices:

- http://ocnaddconfiguration:<port>/ocnadd-configuration/v1/subscription
- http://oncaddalarm:<port>/ocnadd-alarm/v1/alarm?&startTime=<start-time>&endTime=<end-time>

Use off-set date time format, for example, 2022-07-12T05:37:26.954477600Z

- <ip>:<port>/ocnadd-admin-svc/v1/topic/
- <ip>:<port>/ocnadd-admin-svc/v1/describe/topic/<topicName>
- <ip>:<port>/ocnadd-admin-svc/v1/alter
- <ip>:<port>/ocnadd-admin-svc/v1/broker/expand/entry
- <ip>:<port>/ocnadd-admin-svc/v1/broker/health

Application Checklist

Logs Verification

Run the following command to check the application logs and look for exceptions:

```
# kubectl -n <namespace> logs -f <pod name>
```

Use the option -f to follow the logs or grep option to obtain a specific pattern in the log output.

Example:

```
# kubectl -n ocnadd-system logs -f $(kubectl -n ocnadd-system get pods -o
name |cut -d'/' -f 2|grep nrfaggregation)
```

Above command displays the logs of the ocnaddnrfaggregation service.

Run the following command to search for a specific pattern in the log output:

```
# kubectl logs -n ocnadd-system <pod name> | grep <pattern>
```

(i) Note

These commands are in their simple format and display the logs only if there is atleast one nrfaggregation pod deployed.

Kafka Consumer Rebalancing

The Kafka consumers can rebalance in the following scenarios:

- The number of partitions changes for any of the subscribed topics.
- A subscribed topic is created or deleted.
- An existing member of the consumer group is shutdown or fails.
- In the Kafka consumer application,
 - 1. Stream threads inside the consumer app skipped sending heartbeat to Kafka.
 - 2. The batch of messages took longer time to process and causes the time between the two polls to take longer.



- 3. Any stream thread in any of the consumer application pods dies because of some error and it is replaced with a new Kafka Stream thread.
- 4. Any stream thread is stuck and not processing any message.
- A new member is added to the consumer group (for example, new consumer pod spins up).

When the rebalancing is triggered, there is a possibility that offsets are not committed by the consumer threads as offsets are committed periodically. This can result in messages corresponding to non-committed offsets being sent again or duplicated when the rebalancing is completed and consumers started consuming again from the partitions. This is a normal behavior in the Kafka consumer application. However, because of frequent rebalancing in the Kafka consumer applications, the counts of messages in the Kafka consumer application and 3rd party application can mismatch.

Data Feed not accepting updated endpoint

Problem

If a Data feed is created for synthetic packets with an incorrect endpoint, updating the endpoint afterward has no effect.

Solution

Delete and recreate the data feed for synthetic packets with the correct endpoint.

Kafka Performance Impact (due to disk limitation)

Problem

When source topics (SCP, NRF, and SEPP) and MAIN topic are created with Replication Factor = 1

For a low performance disk, the Egress MPS rate drops/fluctuates with the following traces in the Kafka broker logs:

```
Shrinking ISR from 1001,1003,1002 to 1001. Leader: (highWatermark: 1326, endOffset: 1327). Out of sync replicas: (brokerId: 1003, endOffset: 1326) (brokerId: 1002, endOffset: 1326). (kafka.cluster.Partition) ISR updated to 1001,1003 and version updated to 28(kafka.cluster.Partition)
```

Solution

The following steps can be performed (or verified) to optimize the Egress MPS rate:

- Try to increase the disk performance in the cluster where OCNADD is deployed.
- If the disk performance cannot be increased, then perform the following steps for OCNADD:
 - a. Navigate to the Kafka helm charts values file (<helm-chart-path>/ocnadd/charts/ocnaddkafka/values.yaml)
 - b. Change the below parameter in the values.yaml:
 - offsetsTopicReplicationFactor: 1
 - ii. transactionStateLogReplicationFactor: 1



c. Scale down the Kafka and zookeeper deployment by modifying the following lines in the helm chart:

ocnaddkafka:
enabled:false

- d. Perform helm upgrade for OCNADD: helm upgrade <release name> <chart path> -n <namespace>
- e. Delete PVC for Kafka and Zookeeper using the following commands:
 - i. kubectl delete pvc -n <namespace> kafka-volume-kafka-broker-0
 - ii. kubectl delete pvc -n <namespace> kafka-volume-kafka-broker-1
 - iii. kubectl delete pvc -n <namespace> kafka-volume-kafka-broker-2
 - iv. kubectl delete pvc -n <namespace> kafka-broker-security-zookeeper-0
 - v. kubectl delete pvc -n <namespace> kafka-broker-security-zookeeper-1
 - vi. kubectl delete pvc -n <namespace> kafka-broker-security-zookeeper-2
- f. Modify the value of the following parameter to true:

ocnaddkafka: enabled:true

g. Perform helm upgrade for OCNADD: helm upgrade <release name> <chart path> -n <namespace>

(i) Note

The following points are to be considered while applying the above procedure:

- 1. In case a Kafka broker becomes unavailable, then you may experience an impact on the traffic on the Ingress side.
- 2. Verify the Kafka broker logs or describe the Kafka/zookeeper pod which is unavailable and take the necessary action based on the error reported.

500 Server Error on GUI while creating/deleting the Data Feed

Problem

Occasionally, due to network issues, the user may observe a "500 Server Error" while creating/deleting the Data Feed.

Solution

The following actions generally resolve the issue:

- Delete and recreate the feed if it is not created properly.
- Retry the action after logging out from the GUI and login back again.
- Retry creating/deleting the feed after some time.

Kafka resources reaching more than 90% utilization



Problem

Kafka resources(CPU, Memory) reached more than 90% utilization due to a higher MPS rate or slow disk I/O rate

Solution

Add additional resources to the following parameters that are reaching high utilization.

File name: ocnadd-custom-values.yaml

Parameter name: ocnaddkafka.ocnadd.kafkaBroker.resource

```
kafkaBroker:
   name:kafka-broker
   resource:
        limit:
        cpu:5 ===> change it to require number of CPUs
        memory:24Gi ===> change it to require number of memory size
```

2.2 Helm Install and Upgrade Failure

This section describes the various helm installation or upgrade failure scenarios and the respective troubleshooting procedures:

2.2.1 Incorrect Image Name in ocnadd/values File

Problem

helm install fails if an incorrect image name is provided in the ocnadd/values.yaml file or if the image is missing in the image repository.

Error Code or Error Message

When you run kubectl get pods -n <ocnadd_namespace>, the status of the pods might be ImagePullBackOff or ErrImagePull.

Solution

Perform the following steps to verify and correct the image name:

- 1. Edit the ocnadd/values.yaml file and provide the release specific image names and tags.
- 2. Run the helm install command.
- Run the kubectl get pods -n <ocnadd_namespace> command to verify if all the pods are in Running state.

2.2.2 Docker Registry is Configured Incorrectly

Problem

helm install might fail if the docker registry is not configured in all primary and secondary nodes.

Error Code or Error Message



When you run kubectl get pods -n <ocnadd_namespace>, the status of the pods might be ImagePullBackOff or ErrImagePull.

Solution

Configure the docker registry on all primary and secondary nodes. For information about docker registry configuration, see *Oracle Communications Cloud Native Environment Installation Guide*.

2.2.3 Continuous Restart of Pods

Problem

helm install might fail if MySQL primary or secondary hosts are not configured properly in ocnadd/values.yaml.

Error Code or Error Message

When you run kubectl get pods -n <ocnadd_namespace>, the pods shows restart count increases continuously or there is a Prometheus alert for continuous pod restart.

Solution

- Verify MySQL connectivity.
 - MySQL servers(s) may not be configured properly. For more information about the MySQL configuration, see *Oracle Communications Network Analytics Data Director Installation Guide*.
- Describe the POD to check more details on the error, troubleshoot further based on the reported error.
- 3. Check the POD log for any error, troubleshoot further based on the reported error.

2.2.4 Adapter Pods Does Not Receive Update Notification

Problem

Update notification from configuration service/GUI is not reaching Adapter pods..

Error Code or Error Message

On triggering update notification from GUI/Configuration Service, the configuration changes on Adapter does not take place.

Solution

This can be fixed by running the following command:

Check the Adapter pod logs with:

```
"kubectl logs <adapter app name> -n <namespace>
```

 If the update notification logs are not present in the Adapter logs execute the below command to re-read the configurations with the following command:

kubectl rollout restart deploy <adapter app name> -n <namespace>



2.2.5 Adapter Deployment Removed during Upgrade or Rollback

Problem

Adapter(data feed) is deleted during upgrade or rollback.

Error Code or Error Message

Sample error message displayed:

Figure 2-1 Error Message

```
OCL 2023-04-26 14:07:11.421 [boundedFlastic-3] ERROR com.oracle.cobu.cne.ocnadd.admin.syc.service.consumerAdapter.ConsumerAdapterService - exception in deploying
io.fabric8.kubernetes.client.KubernetesClientException: Operation: (list) for kind: [Deployment] with name: [null] in namespace: [ocnadd-sq] failed
    at\ io. fabric 8. kubernetes. Client. Kubernetes Client Exception. Jaunder Throwable (Kubernetes Client Exception. java: 159) \\ \sim [kubernetes - Client - api-6.3.1.jarl/:?]
     at\ io. fabric 8. kubernetes. client. dsl. internal. Base Operation. list (Base Operation. java: 420) \sim [kubernetes-client-6.3.1. jarl:/:?]
    at io.fabric8.kubernetes.client.dsl.internal.BaseOperation.list(BaseOperation.iava:383) ~[kubernetes-client-6.3.1.iar!/:?]
    at io. fabric 8. kubernetes. client. dsl. internal. Base Operation. list (Base Operation. java: 93) \\ \sim [kubernetes-client-6.3.1. jar!/:?]
     at\ com. or acle. cgbu.cne. ocn add. admin. svc. service. consumer Adapter. Consumer Adapter Service. deploy Consumer Adapter (Consumer Adapter Service. deploy Consumer Adapter (Consumer Adapter Service. deploy Consumer Adapter (Consumer Adapter Service. deploy Consumer Adapter Service. deploy Consumer Adapter (Consumer Adapter Service. deploy Consumer Adapte
    at com.oracle.cgbu.cne.ocnadd.admin.svc.controller.AdminControllerImpl.lambda$createConsumerGroup$0(AdminControllerImpl.java:352) ~[classes!/:1.0.72]
    at reactor.core.publisher.MonoCallable.call(MonoCallable.java:92) ~[reactor-core-3.4.26.jar!/:3.4.26]
     at\ reactor. core. publisher. Flux Subscribe On Callable \$ Callable \$ Callable Subscribe On Subscription. run (Flux Subscribe On Subs
     at reactor.core.scheduler.SchedulerTask.call(SchedulerTask.java:68) ~ [reactor-core-3.4.26.jar!/:3.4.26]
    at reactor.core.scheduler.SchedulerTask.call(SchedulerTask.java;28) ~ [reactor-core-3.4.26.jar!/:3.4.26]
    at java.util.concurrent.FutureTask.run(FutureTask.java:264) ~[?:?]
     at java.util.concurrent.ScheduledThreadPoolExecutor$ScheduledFutureTask.run(ScheduledThreadPoolExecutor.java:304) ~ [?:?]
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1136) ~[?:?]
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:635) ~[?:?]
     at java.lang.Thread.run(Thread.java:833) ~[?:?]
Caused by: java.io.InterruptedIOException
    at io.fabric8. kubernetes. client. dsl. internal. Operation Support. wait For Result (Operation Support. java: 523) \sim [kubernetes-client. 6.3.1. jar!/:?]
     at\ io. fabric 8. kubernetes. client. dsl. internal. Base Operation. list (Base Operation. java: 418) \sim [kubernetes-client-6.3.1. jarl:/:?]
      ... 13 more
```

Solution

This can be fixed by running the following commands:

Run the following command to verify the data feeds:

```
kubectl get po -n <namespace>
```

 If data feeds are missing, verify the above mentioned error message in the admin service log, by running the following command:

```
kubectl logs <admin svc pod name> -n <namespace>
```

If the error message is present, run the following command:

kubectl rollout restart deploy <configuration app name> -n <namespace>

2.2.6 Values.yaml File Parse Failure

This section explains the troubleshooting procedure in case of failure while parsing the ocnadd/values.yaml file.

Problem

Unable to parse the ocnadd/values.yaml file or any other while running Helm install.

Error Code or Error Message

Error: failed to parse ocnadd/values.yaml: error converting YAML to JSON: yaml



Symptom

When parsing the ocnadd/values.yaml file, if the above mentioned error is received, it indicates that the file is not parsed because of the following reasons:

- The tree structure may not have been followed
- There may be a tab space in the file

Solution

Download the latest OCNADD custom templates zip file from MOS. For more information, see *Oracle Communications Network Analytics Data Director Installation Guide*.

2.2.7 Kafka Brokers Continuously Restart after Reinstallation

Problem

When re-installing OCNADD in the same namespace without deleting the PVC that was used for the first installation, Kafka brokers will go into crashloopbackoff status and keep restarting.

Error Code or Error Message

When you run, kubectl get pods -n <ocnadd_namespace> the broker pod's status might be Error/crashloopbackoff and it might keep restarting continuously, with "no disk space left on the device" errors in the pod logs.

Solution

- 1. Delete the Stateful set (STS) deployments of the brokers. Run kubectl get sts -n <ocnadd_namespace> to obtain the Stateful sets in the namespace.
- 2. Delete the STS deployments of the services with disk full issue. For example run the command kubectl delete sts -n <ocnadd_namespace> kafka-brokerl kafka-broker2.
- 3. Delete the PVCs in the namespace, which is used by kafka-brokers. Run kubectl get pvc -n <ocnadd_namespace> to get the PVCs in that namespace.

 The number of PVCs used is based on the number of brokers deployed. Therefore, select the PVCs that have the name kafka-broker or zookeeper, and delete them. To delete the PVCs, run kubectl delete pvc -n <ocnadd_namespace> <pvcname1> <pvcname2>.

For example:

For a three broker setup in the namespace ocnadd-deploy, delete the following PVCs:

kubectl delete pvc -n ocnadd-deploy broker1-pvc-kafka-broker1-0, broker2-pvc-kafka-broker2-0, broker3-pvc-kafka-broker3-0, kafka-broker-security-zookeeper-0, kafka-broker-security-zookeeper-1 kafka-broker-security-zookeeper-2

2.2.8 Kafka Brokers Continuously Restart After the Disk is Full

Problem

This issue occurs when the disk space is full on the broker or zookeeper.

Error Code or Error Message



When you run kubectl get pods -n <ocnadd_namespace>, the broker pod's status might be error or crashloopbackoff and it might keep restarting continuously.

Solution

- 1. Delete the STS(Stateful set) deployments of the brokers:
 - a. Get the STS's in the namespace with the following command:

```
kubectl get sts -n <ocnadd_namespace>
```

b. Delete the STS deployments of the services with disk full issue:

```
kubectl delete sts -n <ocnadd_namespace> <sts1> <sts2>
```

For example, for three broker setup:

```
kubectl delete sts -n ocnadd-deploy kafka-broker1 kafka-broker2 kafka-broker3 zookeeper
```

2. Delete the PVCs in that namespace that is used by the removed kafka-brokers. To get the PVCs in that namespace:

```
kubectl get pvc -n <ocnadd_namespace>
```

The number of PVCs used will be based on the number of brokers you deploy. So choose the PVCs that have the name kafka-broker or zookeeper and delete them.

a. To delete PVCs, run:

```
kubectl delete pvc -n <ocnadd_namespace> <pvcname1> <pvcname2>
```

For example, For a three broker setup in namespace ocnadd-deploy, you will need to delete these PVCs;

kubectl delete pvc -n ocnadd-deploy broker1-pvc-kafka-broker1-0 broker2-pvc-kafka-broker2-0 broker3-pvc-kafka-broker3-0 kafka-broker-security-zookeeper-0 kafka-broker-security-zookeeper-2

3. Once the STS and PVC's are deleted for the services, edit the respective broker's values.yaml to increase the PV size of the brokers at the location: <chartpath>/charts/ocnaddkafka/values.yaml.

If any formatting or indentation issues occur while editing, refer to the files in

```
<chartpath>/charts/ocnaddkafka/default
```

To increase the storage edit the fields pvcClaimSize for each broker. For recommendation of PVC storage, see *Oracle CommunicationsNetwork AnalyticsData Director Planning Guide*.

Upgrade the helm chart after increasing the PV size

```
helm upgrade <release-name> <chartpath> -n <namespace>
```

5. Create the required topics.



2.2.9 Kafka Brokers Restart on Installation

Problem

Kafka brokers re-start during OCNADD installation.

Error Code or Error Message

The output of the command kubectl get pods -n <ocnadd_namespace> displays the broker pod's status as restarted.

Solution

The Kafka Brokers wait for a maximum of 3 minutes for the Zookeepers to come online before they are started. If the Zookeeper cluster does not come online within the given interval, the broker will start before the Zookeeper and will error out as it does not have access to the Zookeeper. This may Zookeeper may start after the 3 interval as the node may take more time to pull the images due to network issues. Therefore, when the zookeeper does not come online within the given time this issue may be observed.

2.2.10 Database Goes into the Deadlock State

Problem

MySQL locks get struck.

Error Code or Error Message

ERROR 1213 (40001): Deadlock found when trying to get lock; try restarting the transaction.

Symptom

Unable to access MySQL.

Solution

Perform the following steps to remove the deadlock:

1. Run the following command on each SQL node:

```
SELECT
CONCAT('KILL ', id, ';')
FROM INFORMATION_SCHEMA.PROCESSLIST
WHERE `User` = <DbUsername>
AND `db` = <DbName>;
```

This command retrieves the list of commands to kill each connection. Example:

```
select
CONCAT('KILL ', id, ';')
FROM INFORMATION_SCHEMA.PROCESSLIST
where `User` = 'ocnadduser'
        AND `db` = 'ocnadddb';
+-----+
| CONCAT('KILL ', id, ';') |
+-----+
| KILL 204491;
```



2. Run the kill command on each SQL node.

2.2.11 Readiness Probe Failure

The ${\tt helm}$ install might fail due to the readiness probe URL failure.

If the following error appears, check for the readiness probe URL correctness in the particular microservice helm charts under the charts folder:

```
{"logEvent":"Access URL:http://192.168.140.235:8091/audit/v1/actuator/health/auditReadiness unsuccessful, Exception Details: ","Timestamp":"20-09-21 07:29:25.860+0000","Application":"ocsop", "Engineering version":"77.88.88","Marketing version":"1.8.0.0.0","Microservice":"test","Cluster":"ocsop","Node":"master","Pod":"ocsop-test-thuft8")"M {"logEvent":"Readiness check failed for URL: http://192.168.140.235:8091/audit/v1/actuator/health/auditReadiness, PodName: ocsop-scpc-audit-776f4578b6-xwh5q","Timestamp":"20-09-21 07:29:25.864+0000", "Application":"ocsop","Engineering version":"77.88.88 ","Marketing version":"1.8.0.0.0","Microservice":"test","Cluster":"ocsop","Namespace":"scpsvc","Node":"master","Pod":"ocsop-test-lmtr8"}"M {"logEvent":"Access URL:http://192.168.140.244:8091/notification/v1/actuator/health/notificationReadiness unsuccessful, Except ion Details: ","Timestamp":"20-09-21 07:29:30.899+0000", "Application":"ocsop", "Engineering version":"77.88.88","Marketing version":"1.8.0.0.0","Microservice":"test","Cluster":"ocsop","Namespace":"scpsvc","Node":"master","Pod":"ocsop-test-lmtr8")"M {"logEvent":"Readiness check failed for URL: http://192.168.140.244:8091/notification/v1/actuator/health/notificationReadiness PodName: ocsop-scpc-notification-58d489985c-7ngpz", "Timestamp":"20-09-21 07:29:30.900+0000", "Application":"ocsop", "Engineering version":"77.88.88","Marketing version":"77.88.88","Marketing version":"1.8.0.0.0","Microservice":"test","Cluster":"ocsop","Namespace":"scpsvc","Node":"master","Pod":"ocsop-test-lmtr8")"M {"logEvent":"Access URL:http://192.168.219.172:8091/subscription/v1/actuator/health/subscriptionReadiness unsuccessful, Except ion "Engineering version":"77.88.88","Marketing version":"77.88.88","Marketing version":"1.8.0.0.0","Microservice:"test","Cluster":"ocsop","Engineering version":"77.88.88","Marketing version":"77.88.88","Marketing version":"77.88.88","Marketing version":"77.88.88","Marketing version":"77.88.88","Marketing version":"1.8.0.0.0","Microservice:"test","Cluster":"ocs
```

Low Resources

Helm install might fail due to low resources, and the following error may appear:

In this case, check the CPU and memory availability in the Kubernetes cluster.

2.2.12 Synthetic Feed Unable to Forward Packets After Rollback to 23.1.0

Scenario

- Synthetic data feeds are created in release 23.1.0 and verified with end-to-end traffic flow.
- User performs an upgrade to release 23.2.0. Synthetic data feeds created in release 23.1.0 are working as expected.
- User has to perform a rollback to release 23.1.0 due to some unrecoverable error.
- The thread configuration of the TCP synthetic data feed is modified resulting in traffic failure to the third party consumers.

Error Code or Error Message

The following error message is observed in the synthetic adapter logs:



Figure 2-2 Error Message

```
OCL 2023-05-05 11:35:32.184 [Connection-Recreation] INFO com.oracle.cgbu.cne.ocnadd.ConsumerAdapter.service.TlsServiceImpl - Connection: ChannelOperations{PooledConnection{channel=[id: 0xcb310f49, L:/10.233.100.90:60172 - R:ocnaddthirdpartyconsumeroracle2.upg.svc.pv-11.lab.in.oracle.com/10.233.23.14 5:18990]}} created for ocnaddthirdpartyconsumeroracle2:18990 Exception in thread "Connection-Recreation" java.lang.IllegalStateException: Deque full
```

Solution

- Delete the existing synthetic data feed.
- Create new synthetic feed with the same name and attributes, "Connection Failure setting" set to "Resume from point of failure".
- 3. Verify the end-to-end traffic flow between OCNADD and the corresponding third party application.

2.2.13 The Pending Rollback Issue Due to PreRollback Database Rollback Job Failure

Scenario: Rollback to previous release or above versions are failing due to pre-rollback-db job failure and OCNADD is entering into pending-rollback status

Problem: In this case, OCNADD gets stuck and can't proceed with any other operation like install/upgrade/rollback.

Error Logs - Example with 23.2.0.0.1:

```
>helm rollback ocnadd 1 -n <namespace>
Error: job failed: BackoffLimitExceeded
```

\$ helm history ocnadd -n ocnadd-deploy

REVISION CHART	UPDATED	APP VERSION	DESCRIP'	STATUS FION
1	Fri Jul	14 10:38:31	2023	superseded
ocnadd-23.2.0		23.2.0	Install	complete
2	Fri Jul	14 11:38:31	2023	superseded
ocnadd-23.2.0		23.2.0.0.1	Upgrade	complete
3	Fri Jul	14 11:40:17	2023	superseded
ocnadd-23.3.0		23.3.0.0.0	Upgrade	e complete
4	Mon Jul	17 07:22:04	2023	pending-rollback
ocnadd-23.2.0		23.2.0.0.1	Rollbac	k to 1

\$ helm upgrade ocnadd <helm chart> -n ocnadd-deploy



Error: UPGRADE FAILED: another operation (install/upgrade/rollback) is in
progress

Solution:

To resolve the pending-rollback issue, delete the secrets related to the 'pending-rollback' revision. Follow these steps:

1. Get secrets using kubectl

\$kubectl get secrets -n ocnadd-deploy NAME						
TYPE	DATA					
AGE						
adapter-secret						
Opaque 8 14d						
certdbfilesecret						
Opaque						
1 14d						
db-secret						
Opaque	6					
47h						
<pre>default-token-dmrqq</pre>	14d					
egw-secret	110					
Opaque						
8 14d						
jaas-secret						
Opaque						
1 4d19h kafka-broker-secret						
Opaque						
8 14d						
ocnadd-deploy-admin-sa-token-mfh6l						
kubernetes.io/service-acc	ount-					
token 3 4d19h						
ocnadd-deploy-cache-sa-token-g7rd2 kubernetes.io/service-accoun	+ +olcon					
3 4d19h	t-token					
ocnadd-deploy-gitlab-admin-token-qfmmf						
kubernetes.io/service-	account-					
token 3 4d19h						
ocnadd-deploy-kafka-sa-token-2qqs9						
kubernetes.io/service-accoun	t-token					
3 4d19h ocnadd-deploy-sa-ocnadd-token-tj2zf						
kubernetes.io/service-accoun	t-token					
3 47h	0 0011011					
ocnadd-deploy-zk-sa-token-9x2rb						
kubernetes.io/service-account-	token					
3 4d19h						
ocnaddadminservice-secret						
Opaque 8 14d						



Opaque Opaque	ocnaddalarm-secret	į				
Opaque 8			14d		Opaque	
conaddconfiguration-secret Opaque 8 14d Copaque 8 14d Opaque 8 14d <th cols<="" td=""><td>ocnaddcache-secret</td><td></td><td></td><td></td><td>0paque</td></th>	<td>ocnaddcache-secret</td> <td></td> <td></td> <td></td> <td>0paque</td>	ocnaddcache-secret				0paque
8	ocnaddconfiguratio					
Opaque 8		8	14d		Opaque	
conaddnrfaggregation-secret Opaque 8 14d Opaque 8 14d Opaque 8 14d Opaque 8 14d Opaque 6 14d Opaque 8 14d Opaque 8 14d Opaque 8 14d opaque Magnetic select Secret Ad19h sh.helm.release.vl.ocnadd.vl helm.sh/release.vl helm.sh/release.vl <t< td=""><td>ocnaddhealthmonito</td><td>ring-se</td><td>ecret</td><td></td><td>Opaque</td></t<>	ocnaddhealthmonito	ring-se	ecret		Opaque	
Opaque O	ocnaddnrfaggregati					
Opaque O					Opaque	
Name	ocnaddscpaggregati				Opague	
No paque No paque	ognaddgoppaggrogat				οραφας	
ocnaddthirdpartyconsumer-secret 8 14d ocnadduirouter-secret Opaque 8 14d Opaque oraclenfproducer-secret Opaque 8 14d regcred-sim kubernetes.io/dockerconfigjson 1 8d secret Opaque 7 4d19h helm.sh/release.vl sh.helm.release.vl.ocnadd.vl helm.sh/release.vl sh.helm.release.vl.ocnadd.v2 helm.sh/release.vl sh.helm.release.vl.ocnadd.v3 helm.sh/release.vl sh.helm.release.vl.ocnadd.v3 helm.sh/release.vl release.vl 1 4d19h sh.helm.release.vl.ocnadd.v3 helm.sh/release.vl release.vl 1 47h sh.helm.release.vl.ocnaddsim.vl 1 47h	ocnadoseppaggregat				Opaque	
8 14d ocnadduirouter-secret Opaque 8 14d oraclenfproducer-secret Opaque 8 14d regcred-sim kubernetes.io/dockerconfigjson 1 8d secret Opaque 7 4d19h helm.sh/release.vl sh.helm.release.vl.ocnadd.v2 helm.sh/release.vl sh.helm.release.vl.ocnadd.v3 helm.sh/release.vl sh.helm.release.vl.ocnadd.v3 helm.sh/release.vl release.vl 1 4d19h sh.helm.release.vl.ocnadd.v3 helm.sh/release.vl release.vl 1 47h sh.helm.release.vl.ocnaddsim.vl 47h	ocnaddthirdpartyco				_	
Opaque			14d		Opaque	
oraclenfproducer-secret	ocnadduirouter-sec				Opaque	
Name	oraclenfproducer-s		14d			
kubernetes.io/dockerconfigjson 1 8d secret 7 4d19h sh.helm.release.vl.ocnadd.vl helm.sh/release.vl sh.helm.release.vl.ocnadd.v2 helm.sh/release.vl sh.helm.release.vl.ocnadd.v3 helm.sh/release.vl sh.helm.release.vl.ocnadd.v3 helm.sh/release.vl helm.sh/release.vl helm.sh/release.vl helm.sh/release.vl		8	14d		Opaque	
Opaque 7 4d19h sh.helm.release.v1.ocnadd.v1 sh.helm.release.v1.ocnadd.v2 sh.helm.release.v1.ocnadd.v2 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 4d19h sh.helm.release.v1.ocnadd.v3 helm.sh/release.v1 helm.sh/release.v1	regcred-sim	kube	ernetes.	.io/dockerconfigjson	1 8d	
sh.helm.release.v1.ocnadd.v1 sh.helm.release.v1.ocnadd.v2 sh.helm.release.v1.ocnadd.v2 helm.sh/release.v1 helm.sh/	secret				Opaque	
helm.sh/release.v1 sh.helm.release.v1.ocnadd.v2 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/		7	4d19h			
1 4d19h sh.helm.release.v1.ocnadd.v2 helm.sh/release.v1 1 4d19h sh.helm.release.v1.ocnadd.v3 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 helm.sh/release.v1 1 4d19h sh.helm.release.v1.ocnadd.v4 helm.sh/	sh.helm.release.vl	.ocnado	d.v1		helm sh/release vl	
helm.sh/release.vl sh.helm.release.vl.ocnadd.v3 helm.sh/release.vl helm.sh/release.vl helm.sh/release.vl helm.sh/release.vl helm.sh/ a 4d19h sh.helm.release.vl.ocnadd.v4 helm.sh/ helm.sh/	ch halm ralasca wi	_			neimibily refeabe.vi	
sh.helm.release.v1.ocnadd.v3 helm.sh/release.v1 1 4d19h sh.helm.release.v1.ocnadd.v4 helm.sh/ release.v1 1 47h sh.helm.release.v1.ocnaddsim.v1	SII.IIEIIII.IEIEASE.VI				helm.sh/release.vl	
1 4d19h sh.helm.release.v1.ocnadd.v4 helm.sh/ release.v1 1 47h sh.helm.release.v1.ocnaddsim.v1	sh.helm.release.vl	_			h - l	
helm.sh/ release.v1 1 47h sh.helm.release.v1.ocnaddsim.v1		_			neim.sn/release.vi	
sh.helm.release.v1.ocnaddsim.v1		.ocnado			helm.sh/	
1. 7 1. /		.ocnado	_	47h		
release.vl 1 8d zookeeper-secret			1	8d	helm.sh/	
Opaque 8 14d	33324 230230	8	14d		Opaque	



2. Delete Secrets Related to Pending-Rollback Revision: In this case the secrets of revision 4, that is, 'sh.helm.release.vl.ocnadd.v4' need to be deleted since the data director entered 'pending-rollback' status in revision 4:

kubectl delete secrets sh.helm.release.vl.ocnadd.v4 -n ocnadd-deploy

Sample output:

```
secret "sh.helm.release.v1.ocnadd.v4" deleted
```

3. **Check Helm History:** Verify that the pending-rollback status has been cleared using the following command:

helm history ocnadd -n ocnadd-deploy

Sample output:

REVISION	UPDATI	ED	STATUS
CHART		APP VERSION	DESCRIPTION
1	Fri Ju	14 10:38:31 202	23 superseded
ocnadd-23.2.0		23.2.0	Install complete
2	Fri Ju	14 11:38:31 202	23 superseded
ocnadd-23.2.0		23.2.0.0.1	Upgrade complete
3	Fri Ju	14 11:40:17 202	23 superseded
ocnadd-23.3.0-	rc.2	23.3.0.0.0	Upgrade complete

- 4. Restore Database Backup: Restore the database backup taken before the upgrade started. Follow the "Create OCNADD Restore Job" section of the "Fault Recovery" from the Oracle Communications Network Analytics Data Director Installation, Upgrade and Fault Recovery Guide.
- 5. **Perform Rollback:** Perform rollback again using the following command:

```
helm rollback <release name> <revision number> -n <namespace>
```

For example:

```
helm rollback ocnadd 1 -n ocnadd-deploy --no-hooks
```

6. Verification: Verify that end-to-end traffic is running between the DD and the corresponding third-party application.

2.2.14 Upgrade fails due to unsupported changes

Problem

Upgrade failed from the source release to the target release due to unsupported changes in the target release

The upgrade failed from the source release to the target release due to unsupported changes in the target release (during the upgrade the Database Job was successful but the upgrade failed due to an error).





(i) Note

This issue is not a generic issue, however, may occur if users are unable to sync up the target release charts.

Example:

Scenario: If there is a PVC size mismatch from the source release to the target release.

Error Message in Helm History: Example with 23.2.0.0.1 to 23.3.0

```
Error: UPGRADE FAILED: cannot patch "zookeeper" with kind StatefulSet:
StatefulSet.apps "zookeeper" is invalid: spec: Forbidden: updates to
statefulset spec for fields other than 'replicas', 'template',
'updateStrategy', 'persistentVolumeClaimRetentionPolicy' and
'minReadySeconds' are forbidden
```

Run the following command: (with 23.2.0.0.1)

helm history <release-name> -n <namespace>

Sample output with version 23.2.0.0.1:

REVISION	UPDATED			STATUS		
CHART	1	APP VERSION	Ι	DESCRIPTION		
1	Tue Aug	1 07:01:29	2023	superseded		
ocnadd-23.2.0		23.2.0		Install complete		
2	Tue Aug	1 07:08:29	2023	deployed		
ocnadd-23.2.0		23.2.0.0.1		Upgrade complete		
3	Tue Aug	1 07:24:08	2023	failed		
ocnadd-23.3.0		23.3.0.0.0		Upgrade "ocnadd"	<pre>failed: cannot patch</pre>	
"zookeeper" wi	th kind St	tatefulSet:	State	efulSet.apps "zook	eeper" is invalid:	
spec: Forbidde	n: update:	s to statefu	ılset	spec for fields o	ther than	
'replicas', 'te	emplate',	'updateStra	itegy'	,		
'persistentVolumeClaimRetentionPolicy' and 'minReadySeconds' are forbidden						

Solution

Perform the following steps:

- 1. Correct and sync the target release charts as per the source release, and ensure that no new feature of the new release is enabled.
- 2. Perform an upgrade. For more information about the upgrade procedure, see "Upgrading OCNADD" in the Oracle Communications Network Analytics Data Director Installation, Upgrade, and Fault Recovery Guide.

2.2.15 Upgrade Failed from Source Release to Target Release Due to Helm Hook Upgrade Database Job

Problem



Upgrade failed from patch source release to target release due to helmhook upgrade DB job (Upgrade job fails).

Error Code or Error Message: Example with 23.2.0.0.1 to 23.3.0

Error: UPGRADE FAILED: pre-upgrade hooks failed: job failed:
BackoffLimitExceeded

Run the following command:

helm history <release-name> -n <namespace>

Sample Output:

REVISION CHART	UPDATED .	APP VERSION	STATUS DESCRIPTION		
1 ocnadd-23.2.0	Tue Aug 1	07:01:27 2023 23.2.0	superseded Install complete		
2	Tue Aug 1	07:08:29 2023	deployed		
ocnadd-23.2.0		23.2.0.0.1	Upgrade complete		
2	Tue Aug 1	07:24:08 2023	failed		
ocnadd-23.3.0		23.3.0.0.0	Upgrade "ocnadd"	failed:	pre-
upgrade hooks	failed: job	failed: BackoffLim	itExceeded		

Solution

Rollback to patch, correct the errors, and then run the upgrade once again.

1. Run helm rollback to previous release revision:

```
helm rollback <helm release name> <revision number> -n <namespace>
```

- 2. Restore the Database backup taken before upgrade. For more information see, the procedure "Create OCNADD Restore Job" in the "Fault Recovery" section in the *Oracle Communications Network Analytics Data Director Installation, Upgrade, and Fault Recovery Guide.*
- 3. Correct the upgrade issue and run a fresh upgrade. For more information, see "Upgrading OCNADD" in the Oracle Communications Network Analytics Data Director Installation, Upgrade, and Fault Recovery Guide.

2.2.16 Configuration Service Displays Error Logs

Problem

On restarting ocnaddconfiguration and adapter or aggregation pods, notifications are reaching the adapter or aggregation pods, but error logs present in Configuration Service. This is observed if the old pods IP entry is not deleted from the database.





(i) Note

Ensure that configuration and aggregation or adapter pods are not deleted simultaneously.

Error Code or Error Message

Configuration Service Error Log

```
Error has been observed at the following site(s): *__checkpoint ? Request to POST
http://10.233.122.199:9182/ocnadd-consumeradapter/v2/notifications
[DefaultWebClient] Original Stack Trace: at
org.springframework.web.reactive.function.client.ExchangeFunctions$DefaultExchang
eFunction.lambda$wrapException$9(ExchangeFunctions.java:136) ~[spring-
webflux-6.0.7.jar!/:6.0.7] at
reactor.core.publisher.MonoErrorSupplied.subscribe(MonoErrorSupplied.java:55)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.Mono.subscribe(Mono.java:4485) ~[reactor-
core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxOnErrorResume$ResumeSubscriber.onError(FluxOnErrorResu
me.java:103) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxPeek$PeekSubscriber.onError(FluxPeek.java:222)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxPeek$PeekSubscriber.onError(FluxPeek.java:222)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxPeek$PeekSubscriber.onError(FluxPeek.java:222)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.MonoNext$NextSubscriber.onError(MonoNext.java:93)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.MonoFlatMapMany$FlatMapManyMain.onError(MonoFlatMapMany.ja
va:204) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.SerializedSubscriber.onError(SerializedSubscriber.java:124
) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxRetryWhen$RetryWhenMainSubscriber.whenError(FluxRetryW
hen.java:225) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxRetryWhen$RetryWhenOtherSubscriber.onError(FluxRetryWh
en.java:274) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxContextWrite$ContextWriteSubscriber.onError(FluxContex
tWrite.java:121) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxConcatMapNoPrefetch$FluxConcatMapNoPrefetchSubscriber.
maybeOnError(FluxConcatMapNoPrefetch.java:326) ~[reactor-core-3.5.4.jar!/:3.5.4]
at
reactor.core.publisher.FluxConcatMapNoPrefetch\$FluxConcatMapNoPrefetchSubscriber.
onNext(FluxConcatMapNoPrefetch.java:211) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxContextWrite$ContextWriteSubscriber.onNext(FluxContext
Write.java:107) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.SinkManyEmitterProcessor.drain(SinkManyEmitterProcessor.ja
va:471) \sim [reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.SinkManyEmitterProcessor$EmitterInner.drainParent(SinkMany
EmitterProcessor.java:615) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxPublish$PubSubInner.request(FluxPublish.java:602)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxContextWrite$ContextWriteSubscriber.request(FluxContex
tWrite.java:136) ~[reactor-core-3.5.4.jar!/:3.5.4] at
```



```
reactor.core.publisher.FluxConcatMapNoPrefetch$FluxConcatMapNoPrefetchSubscriber.
request(FluxConcatMapNoPrefetch.java:336) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxContextWrite$ContextWriteSubscriber.request(FluxContex
tWrite.java:136) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.Operators$DeferredSubscription.request(Operators.java:1717
) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxRetryWhen$RetryWhenMainSubscriber.onError(FluxRetryWhe
n.java:192) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.MonoCreate$DefaultMonoSink.error(MonoCreate.java:201)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.netty.http.client.HttpClientConnect$MonoHttpConnect$ClientTransportSubscr
iber.onError(HttpClientConnect.java:311) ~[reactor-netty-http-1.1.5.jar!/:1.1.5]
at reactor.core.publisher.MonoCreate$DefaultMonoSink.error(MonoCreate.java:201)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.netty.http.client.Http2ConnectionProvider$DisposableAcquire.onError(Http2
ConnectionProvider.java:281) ~[reactor-netty-http-1.1.5.jar!/:1.1.5] at
reactor.netty.http.client.Http2Pool$Borrower.fail(Http2Pool.java:813) ~[reactor-
netty-http-1.1.5.jar!/:1.1.5] at
reactor.netty.http.client.Http2Pool.lambda$drainLoop$2(Http2Pool.java:443)
~[reactor-netty-http-1.1.5.jar!/:1.1.5] at
reactor.core.publisher.FluxDoOnEach$DoOnEachSubscriber.onError(FluxDoOnEach.java:
186) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxMap$MapConditionalSubscriber.onError(FluxMap.java:265)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.MonoCreate$DefaultMonoSink.error(MonoCreate.java:201)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.netty.resources.DefaultPooledConnectionProvider$DisposableAcquire.onErro
r(DefaultPooledConnectionProvider.java:162) ~[reactor-netty-
core-1.1.5.jar!/:1.1.5] at
reactor.netty.internal.shaded.reactor.pool.AbstractPool$Borrower.fail(AbstractPoo
1.java:475) ~[reactor-netty-core-1.1.5.jar!/:1.1.5] at
reactor.netty.internal.shaded.reactor.pool.SimpleDequePool.lambda$drainLoop$9(Sim
pleDequePool.java:429) ~[reactor-netty-core-1.1.5.jar!/:1.1.5] at
reactor.core.publisher.FluxDoOnEach$DoOnEachSubscriber.onError(FluxDoOnEach.java:
186) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.MonoCreate$DefaultMonoSink.error(MonoCreate.java:201)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.netty.resources.DefaultPooledConnectionProvider$PooledConnectionAllocator
$PooledConnectionInitializer.onError(DefaultPooledConnectionProvider.java:560)
~[reactor-netty-core-1.1.5.jar!/:1.1.5] at
reactor.core.publisher.MonoFlatMap$FlatMapMain.secondError(MonoFlatMap.java:241)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.MonoFlatMap$FlatMapInner.onError(MonoFlatMap.java:315)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxOnErrorResume$ResumeSubscriber.onError(FluxOnErrorResu
me.java:106) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.Operators.error(Operators.java:198) ~[reactor-
core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.MonoError.subscribe(MonoError.java:53) ~[reactor-
core-3.5.4.jar!/:3.5.4] at reactor.core.publisher.Mono.subscribe(Mono.java:4485)
~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.core.publisher.FluxOnErrorResume$ResumeSubscriber.onError(FluxOnErrorResu
me.java:103) ~[reactor-core-3.5.4.jar!/:3.5.4] at
reactor.netty.transport.TransportConnector$MonoChannelPromise.tryFailure(Transpor
```



```
tConnector.java:587) ~[reactor-netty-core-1.1.5.jar!/:1.1.5] at
reactor.netty.transport.TransportConnector$MonoChannelPromise.setFailure(Transpor
tConnector.java:541) ~[reactor-netty-core-1.1.5.jar!/:1.1.5] at
reactor.netty.transport.TransportConnector.lambda$doConnect$7(TransportConnector.
java:265) ~[reactor-netty-core-1.1.5.jar!/:1.1.5] at
io.netty.util.concurrent.DefaultPromise.notifyListener0(DefaultPromise.java:590)
~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.DefaultPromise.notifyListeners0(DefaultPromise.java:583)
~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.DefaultPromise.notifyListenersNow(DefaultPromise.java:55
9) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.DefaultPromise.notifyListeners(DefaultPromise.java:492)
\sim[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.DefaultPromise.setValue0(DefaultPromise.java:636)
~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.DefaultPromise.setFailure0(DefaultPromise.java:629)
~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.DefaultPromise.tryFailure(DefaultPromise.java:118)
~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.channel.nio.AbstractNioChannel$AbstractNioUnsafe$1.run(AbstractNioChanne
1. java: 262) ~[netty-transport-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.PromiseTask.runTask(PromiseTask.java:98) ~[netty-
common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.ScheduledFutureTask.run(ScheduledFutureTask.java:153)
~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.AbstractEventExecutor.runTask(AbstractEventExecutor.java
:174) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.AbstractEventExecutor.safeExecute(AbstractEventExecutor.
java:167) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.SingleThreadEventExecutor.runAllTasks(SingleThreadEventE
xecutor.java:470) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:569) ~[netty-
transport-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecuto
r.java:997) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java
:30) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
java.lang.Thread.run(Thread.java:833) ~[?:?] Caused by:
io.netty.channel.ConnectTimeoutException: connection timed out: /
10.233.122.199:9182 at
io.netty.channel.nio.AbstractNioChannel$AbstractNioUnsafe$1.run(AbstractNioChanne
1.java:261) ~[netty-transport-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.PromiseTask.runTask(PromiseTask.java:98) ~[netty-
common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.ScheduledFutureTask.run(ScheduledFutureTask.java:153)
~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.AbstractEventExecutor.runTask(AbstractEventExecutor.java
:174) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.AbstractEventExecutor.safeExecute(AbstractEventExecutor.
java:167) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.SingleThreadEventExecutor.runAllTasks(SingleThreadEventE
xecutor.java:470) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
```



```
io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:569) ~[netty-
transport-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecuto
r.java:997) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java
:30) ~[netty-common-4.1.90.Final.jar!/:4.1.90.Final] at
java.lang.Thread.run(Thread.java:833) ~[?:?]
```

Solution

Ensure the restart sequence is maintained:

- **1.** Restart the adapter pods once they are running, then restart configuration pod.
- If the previous step is unsuccessful, restart the configuration service again.
- 3. If issue persists, then it is a known issue and can be ignored as the error logs are not impacting the call flow.

2.2.17 Webhook Failure During Installation or Upgrade

Problem

Installation or upgrade unsuccessful due to webhook failure.

Error Code or Error Message

Sample error log:

Error: INSTALLATION FAILED: Internal error occurred: failed calling webhook "prometheusrulemutate.monitoring.coreos.com": failed to call webhook: Post "https://occne-kube-prom-stack-kube-operator.occne-infra.svc:443/admission-prometheusrules/mutate?timeout=10s": context deadline exceeded

Solution

Retry installation or upgrade using Helm.

Logs

This chapter explains the process to retrieve the logs and status that can be used for effective troubleshooting.

3.1 Log Levels

Logs register system events along with their date and time of occurrence. They also provide important details about a chain of events that could have led to an error or problem.

A log level helps in defining the severity level of a log message. For OCNADD, the log level of a microservice can be set to any one of the following valid values:

- TRACE: A log level that describes events, as a step by step execution of code. This can
 be ignored during the standard operation, but may be useful during extended debugging
 sessions.
- DEBUG: A log level used for events during software debugging when more granular information is needed.
- **INFO**: A standard log level indicating that something has happened, an application has entered a certain state, etc.
- WARN: A log level indicates that something unexpected has happened in the application, a
 problem, or a situation that might disturb one of the processes. But this does not mean that
 the application has failed. The WARN level should be used in situations that are
 unexpected, but the code can continue to work.
- **ERROR**: A log level that should be used when an application hits an issue preventing one or more functionalities from functioning.

Using this information, the logs can be filtered based on the system requirements. For instance, if you want to filter the critical information about your system from the informational log messages, set a filter to view messages with only WARN log level in Kibana.

3.2 Configuring Log Levels

To view logging configurations and update logging levels, check the respective service child values.yaml.

Following is an example from the Configurations service:

```
env:

CONFIGURATION_ROOT_LOG_LEVEL: INFO

CONFIGURATION_WEB_LOG_LEVEL: INFO
```

Once the service child values.yaml is modified, perform helm upgrade for the OCNADD charts.



3.3 Collecting Logs

This section describes the steps to collect logs from PODs or containers. Perform the following steps:

1. Run the following command to get the POD details:

```
$ kubectl -n <namespace_name> get pods
```

2. Collect the logs from the specific pods or containers:

```
$ kubectl logs <podname> -n <namespace>
```

Example:

```
$ kubectl logs ocnaddconfiguration-xxxxxxxxxxxxxxxx -n ocnadd
```

3. Store the log in a file using the following command:

```
$ kubectl logs <podname> -n <namespace> > <filename>
```

Example:

```
$ kubectl logs ocnaddconfiguration-xxxxxxxxxxxxxxxx -n ocnadd > logs.txt
```

4. (Optional) You can also use the following commands for the log stream with file redirection starting with the last 100 lines of the log:

```
$ kubectl logs <podname> -n <namespace> -f --tail <number of lines> >
<filename>
```

Example:

```
$ kubectl logs ocnaddconfiguration-xxxxxxxxxxxxxxxxxxxx -n ocnadd -f --tail
100 > logs.txt
```

For information on the OCNADD GUI user logs, see *Oracle Communications Cloud Native Core Console Troubleshooting Guide*.

3.4 Collect logs using Deployment Data Collector Tool

Perform this procedure to start the NF Deployment Data Collector module and generate the tarballs. If the user does not specify the output storage path, then this module generates the output in the same directory where the module is executed.

nfDataCapture.sh is a script which can be used for collecting all required logs from NF deployment for debugging issues. The script will collect logs from all Micro-Service PODs of specified helm input, helm deployment details,the status, description of all the kafka topics, offset details server properties and description of all the pods, services and events.

 Ensure that you have appropriate privileges to access the system and execute kubectl and helm commands.



- Perform this procedure on the same machine where the OCNADD is deployed using helm or kubectl.
- Execute the chmod +x nfDataCapture.sh command on the tool to provide the executable permission.
- Execute the following command to start the module:

```
./nfDataCapture.sh -n|--k8Namespace=[K8 Namespace] -u|--username=[User Name] -p|--password=[Password] -k|--kubectl=[KUBE_SCRIPT_NAME] -h|--helm=[HELM_SCRIPT_NAME] -c|--size=[SIZE_OF_EACH_TARBALL] -d|--cnDBTierStatus=[CN DB TIER STATUS] -x|--kafkaDetails=[KAFKA DETAILS] -b|--binlogCollectionStatus=[BIN LOG COLLECTION STATUS] -o|--toolOutputPath -helm3=false
```

Examples:

```
./nfDataCapture.sh -k="kubectl --kubeconfig=admin.conf" -h="helm --kubeconfig
admin.conf" -n=ocnrf -s=5M -o=/tmp/

./nfDataCapture.sh -n=ocnadd -s=5M -o=/tmp/

./nfDataCapture.sh -n=ocnadd -x=false

./nfDataCapture.sh -n=ocnadd -helm3=true

./nfDataCapture.sh -n=ocnadd -u=username -p=password -s=5M -o=/home/root/
datacollector/data -helm3=true

./nfDataCapture.sh -n=ocnadd -u=username -p=password -s=5M -o=/home/root/
datacollector/data -helm3=true -b=false

./nfDataCapture.sh -n=ocnadd -u=username -p=password -s=5M -o=/home/root/
datacollector/data -helm3=true -b=false
```

Note

Default size of tarball generated will be 10M, if not provided, and default location of output will be tool working directory.

Kafka Detailed Staus will be by default true and if we do not want to collect the details we have to pass it as false.

By default, helm2 is used. Use proper argument in command to use helm3.

(i) Note

If the database is not in same namespace, then the script should be run again for the namespace in which database is deployed to capture the database related logs.



- Only if the size of the tar [example: ocnadd.debugData.2023.01.16_09.15.01.tar.gz] generated is greater than "SIZE_OF_EACH_TARBALL" specified in the command ,tar is split into several tarball based on the size specified.
- After execution of command, tar-balls will be created based on size specified in the following format:

```
<namespace>.debugData.<timestamp>
```

Example:

```
ocnadd.debugData.2023.01.16_09.15.01-part01
```

Each tarball can then be combined into one tarball with the following command:

```
cat ocnadd.debugData.2023.01.16_09.15.01-part* >
onadd.debugData.2023.01.16_09.15.01-combined.tar.gz
```

Capturing topdump from CNE

Perform the following steps to capture tcpdump in CNE:

1. Run the following command to identify the worker node for the running pod:

```
$ kubectl get pods -n ocnadd -o wide
```

2. Login to the worker node and run the following command to search for the IP address of the pod:

```
$ ip a
```

3. Run the following command to start tcpdump on the identified network interface:

```
$ sudo tcpdump -n -s0 -i <interface> w <file-name>.pcap -Z <node-user-name>
```

4. Run the following command to change the file permissions:

```
$ chmod 777 <file-name>.pcap
```

5. Exit the worker node and run the following command to scp the file from the bastion host:

```
$ scp <user-name>@<worker node>:/home/ocnadd-tiger/filename.pcap
```

OCNADD Alerts

This section provides information on Oracle Communications Network Analytics Data Director (OCNADD) alerts and their configuration.

5.1 Configuring Alerts

This section describes how to configure alerts in OCNADD.

If OCNADD is installed in the OCCNE setup, all services are monitored by Prometheus by default. Therefore, there are no modifications required in the helm chart. All the Prometheus alert rules present in helm chart are updated in the Prometheus Server.

(i) Note

Here, the label used to update the Prometheus server is role: cnc-alerting-rules, which is added by default in helm charts.

If OCNADD is installed in the TANZU Setup, one of the files needs to be modified in helm charts with the following parameters.

(i) Note

Update the release: prom-operator label with role: cnc-alerting-rules in the ocnadd-alerting-rules.yaml file.

```
apiVersion: monitoring.coreos.com/v1
kind: PrometheusRule
metadata:
   labels:
    release: prom-operator
   name: ocnadd-alerting-rules
   namespace: {{ .Values.global.cluster.nameSpace.name }}
```

5.2 List of Alerts

This section provides detailed information about the alert rules defined for OCNADD.

5.2.1 System Level Alerts

This section lists the system level alerts for OCNADD.



5.2.1.1 OCNADD_POD_CPU_USAGE_ALERT

Table 5-1 OCNADD_POD_CPU_USAGE_ALERT

Field	Details
Triggering Condition	POD CPU usage is above set threshold (default 70%)
Severity	Major
Description	OCNADD Pod High CPU usage detected for the continuous period of 5min
Alert Details	Summary:
	<pre>'namespace: {{ "{{" "}}\$labels.namespace}}, podname: {{ "{{" "}}\$labels.pod}}, timestamp: {{ "{{" "}} with query "time()" }}{{ "{{" "}} . first value humanizeTimestamp }}{{ "{{" "}} end }}: CPU usage is {{ "{{" "}} \$value printf "%.2f" }} which is above threshold {{ .Values.global.cluster.cpu_threshold }} % '</pre>
	Expression:
	expr: (sum(rate(container_cpu_usage_seconds_total{im age!="", pod=~".*ocnadd.*"}[5m])) by (pod,namespace) > {{ .Values.global.cluster.cpu_threshold }}*2) or
	(sum(rate(container_cpu_usage_seconds_total{im age!="", pod=~".*kafka.*"}[5m])) by (pod,namespace) > {{ .Values.global.cluster.cpu_threshold }}*2) or
	(sum(rate(container_cpu_usage_seconds_total{im age!="", pod=~".*zookeeper.*"}[5m])) by (pod,namespace) > {{ .Values.global.cluster.cpu_threshold }}) or
	(sum(rate(container_cpu_usage_seconds_total{im age!="", pod=~".*egw.*"}[5m])) by (pod,namespace) > {{ .Values.global.cluster.cpu_threshold }}*2) or
	(sum(rate(container_cpu_usage_seconds_total{im age!="", pod=~".*adapter.*"}[5m])) by (pod,namespace) > {{ .Values.global.cluster.cpu_threshold }}*2)
OID	1.3.6.1.4.1.323.5.3.51.29.4002
Metric Used	container_cpu_usage_seconds_total
	Note: This is a Kubernetes metric used for instance availability monitoring. If the metric is not available, use the similar metric as exposed by the monitoring system.
Resolution	The alert gets cleared when the CPU utilization is below the critical threshold.
	Note: The threshold is configurable in the ocnadd-custom-values.yaml file. If guidance is required, contact My Oracle Support (MOS).



5.2.1.2 OCNADD_POD_MEMORY_USAGE_ALERT

Table 5-2 OCNADD_POD_MEMORY_USAGE_ALERT

Field	Details
Triggering Condition	POD Memory usage is above set threshold (default 70%)
Severity	Major
Description	OCNADD Pod High Memory usage detected for the continuous period of 5min
Alert Details	Summary:
	<pre>'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Memory usage is {{ "{{" }} \$value printf "%.2f" }} which is above threshold {{ .Values.global.cluster.memory_threshold }} % '</pre>
	Expression:
	(sum(container_memory_working_set_bytes{imag e!="" , pod=~".*ocnadd.*"}) by (pod,namespace) > 2*1024*1024*1024*{{ .Values.global.cluster.memor y_threshold }}/100) or (sum(container_memory_working_set_bytes{imag e!="" , pod=~".*kafka.*"}) by (pod,namespace) > 24*1024*1024*1024*{{ .Values.global.cluster.mem ory_threshold }}/100) or (sum(container_memory_working_set_bytes{imag e!="" , pod=~".*zookeeper.*"}) by (pod,namespace) > 1*1024*1024*1024*{{ .Values.global.cluster.memor y_threshold }}/100) or (sum(container_memory_working_set_bytes{imag e!="" , pod=~".*egw.*"}) by (pod,namespace) > 2*1024*1024*1024*{{ .Values.global.cluster.memor y_threshold }}/100) or (sum(container_memory_working_set_bytes{imag e!="" , pod=~".*adapter.*"}) by (pod,namespace) > 2*1024*1024*1024*{{ .Values.global.cluster.memor y_threshold }}/100)
OID	1.3.6.1.4.1.323.5.3.51.29.4005
Metric Used	container_memory_working_set_bytes
	Note: This is a Kubernetes metric used for instance availability monitoring. If the metric is not available, use the similar metric as exposed by the monitoring system.
Resolution	The alert gets cleared when the memory utilization is below the critical threshold. Note: The threshold is configurable in the ocnadd/values.yaml file. If guidance is required, contact My Oracle Support (MOS).



5.2.1.3 OCNADD_POD_RESTARTED

Table 5-3 OCNADD_POD_RESTARTED

Field	Details
Triggering Condition	A POD has restarted
Severity	Minor
Description	A POD has restarted in last 2 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: A Pod has restarted'
	Expression:
	expr: kube_pod_container_status_restarts_total{namesp ace="{{ .Values.global.cluster.nameSpace.name }}" } > 1
OID	1.3.6.1.4.1.323.5.3.51.29.5006
Metric Used	kube_pod_container_status_restarts_total
	Note: This is a Kubernetes metric used for instance availability monitoring. If the metric is not available, use the similar metric asexposed by the monitoring system.
Resolution	The alert is cleared automatically if the specific pod is up.
	Steps:
	1. Check the application logs. Check for database related failures such as connectivity, Kubernetes secrets, and so on.
	Run the following command to check orchestration logs for liveness or readiness probe failures:
	kubectl get po -n <namespace></namespace>
	Note the full name of the pod that is not running, and use it in the following command:
	kubectl describe pod <desired full="" name="" pod=""> -n <namespace></namespace></desired>
	3. Check the database status. For more information, see "Oracle Communications Cloud Native Core DBTier User Guide".
	4. If the issue persists, capture all the outputs from the above steps and contact My Oracle Support (MOS), If guidance is required.

5.2.2 Application Level Alerts

This section lists the application level alerts for OCNADD.



5.2.2.1 OCNADD_ADMIN_SVC_DOWN

Table 5-4 OCNADD_ADMIN_SVC_DOWN

Field	Details
Triggering Condition	The OCNADD Admin service went down or not accessible
Severity	Critical
Description	OCNADD Admin service not available for more than 2 min
Alert Details	Summary:
	"namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: ocnaddadminservice service is down' Expression:
	expr: up{service="ocnaddadminservice"} != 1
OID	1.3.6.1.4.1.323.5.3.51.30.2002
Metric Used	'up'
	Note: This is a Prometheus metric used for instance availability monitoring. If this metric is not available, use the similar metric as exposed by the monitoring system.
Resolution	The alert is cleared automatically when the OCNADD Admin service start becoming available.
	Steps: 1. Check for service specific alerts which may be causing the issues with service exposure.
	Run the following command to check if the pod's status is in "Running" state:
	kubectl –n <namespace> get pod</namespace>
	If it is not in running state, capture the pod logs and events. Run the following command to fetch the events as follows:
	kubectl get events sortby=.metadata.creationTimestamp -n <namespace></namespace>
	3. Refer to the application logs and check for database related failures such as connectivity, invalid secrets, and so on.
	4. Run the following command to check Helm status and make sure there are no errors:
	helm status <helm data="" director="" name="" of="" release=""> - n<namespace></namespace></helm>
	If it is not in "STATUS: DEPLOYED", then again capture logs and events.
	5. If the issue persists, capture all the outputs from the above steps and contact My Oracle Support (MOS), If guidance is required.



5.2.2.2 OCNADD_ALARM_SVC_DOWN

Table 5-5 OCNADD_ALARM_SVC_DOWN

Field	Details
Triggering Condition	The alarm service went down or not accessible
Severity	Critical
Description	OCNADD Alarm service not available for more than 2 min
Alert Details	Summary:
	namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: ocnaddalarm service is down'
	Expression:
	expr: up{service="ocnaddalarm"} != 1
OID	1.3.6.1.4.1.323.5.3.51.24.2002
Metric Used	'up' (i) Note This is a Prometheus metric used for instance availability monitoring. If this metric is not available, use the similar metric as exposed by the monitoring system.



Table 5-5 (Cont.) OCNADD_ALARM_SVC_DOWN

Field	Details
Resolution	The alert is cleared automatically when the OCNADD Alarm service start becoming available.
	Steps:
	Check for service specific alerts which may be causing the issues with service exposure.
	2. Run the following command to check if the pod's status is in "Running" state:
	kubectl –n <namespace> get pod</namespace>
	If it is not in running state, capture the pod logs and events. Run the following command to fetch the events as follows:
	kubectl get events sortby=.metadata.creationTimestamp -n <namespace></namespace>
	3. Refer to the application logs and check for database related failures such as connectivity, invalid secrets, and so on.
	Run the following command to check Helm status and make sure there are no errors:
	helm status <helm data="" director="" name="" of="" release=""> - n<namespace></namespace></helm>
	If it is not in "STATUS: DEPLOYED", then again capture logs and events.
	5. If the issue persists, capture all the outputs from the above steps and contact My Oracle Support (MOS), If guidance is required

5.2.2.3 OCNADD_CONFIG_SVC_DOWN

Table 5-6 OCNADD_CONFIG_SVC_DOWN

Field	Details
Triggering Condition	The configuration service went down or not accessible
Severity	Critical
Description	OCNADD Configuration service not available for more than 2 min
Alert Details	Summary: 'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: ocnaddconfiguration service is down' Expression: expr: up{service="ocnaddconfiguration"} != 1
OID	1.3.6.1.4.1.323.5.3.51.20.2002



Table 5-6 (Cont.) OCNADD_CONFIG_SVC_DOWN

Field	Details
Metric Used	'up'
	Note: This is a Prometheus metric used for instance availability monitoring. If this metric is not available, use the similar metric as exposed by the monitoring system.
Resolution	The alert is cleared automatically when the OCNADD Configuration service start becoming available.
	Steps:
	Check for service specific alerts which may be causing the issues with service exposure.
	2. Run the following command to check if the pod's status is in "Running" state:
	kubectl –n <namespace> get pod</namespace>
	If it is not in running state, capture the pod logs and events. Run the following command to fetch the events as follows:
	kubectl get events sortby=.metadata.creationTimestamp -n <namespace></namespace>
	3. Refer to the application logs and check for database related failures such as connectivity, invalid secrets, and so on.
	Run the following command to check Helm status and make sure there are no errors:
	helm status <helm data="" director="" name="" of="" release=""> - n<namespace></namespace></helm>
	If it is not in "STATUS: DEPLOYED", then again capture logs and events.
	5. If the issue persists, capture all the outputs from the above steps and contact My Oracle Support (MOS), If guidance is required

5.2.2.4 OCNADD_CONSUMER_ADAPTER_SVC_DOWN

Table 5-7 OCNADD_CONSUMER_ADAPTER_SVC_DOWN

Field	Details
Triggering Condition	The OCNADD Consumer Adapter service went down or not accessible
Severity	Critical
Description	OCNADD Consumer Adapter service not available for more than 2 min



Table 5-7 (Cont.) OCNADD_CONSUMER_ADAPTER_SVC_DOWN

Field	Details
Alert Details	Summary: 'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Consumer Adapter service is down'
	Expression: expr: up{service=~".*adapter.*"} != 1
OID	1.3.6.1.4.1.323.5.3.51.25.2002
Metric Used	'up'
	Note: This is a Prometheus metric used for instance availability monitoring. If this metric is not available, use the similar metric as exposed by the monitoring system.
Resolution	The alert is cleared automatically when the OCNADD Consumer Adapter service start becoming available.
	Steps:
	Check for service specific alerts which may be causing the issues with service exposure.
	2. Run the following command to check if the pod's status is in "Running" state:
	kubectl –n <namespace> get pod</namespace>
	If it is not in running state, capture the pod logs and events. Run the following command to fetch the events as follows:
	kubectl get events sortby=.metadata.creationTimestamp -n <namespace></namespace>
	3. Refer to the application logs and check for database related failures such as connectivity, invalid secrets, and so on.
	Run the following command to check Helm status and make sure there are no errors:
	helm status <helm data="" director="" name="" of="" release=""> - n<namespace></namespace></helm>
	If it is not in "STATUS: DEPLOYED", then again capture logs and events.
	5. If the issue persists, capture all the outputs from the above steps and contact My Oracle Support (MOS), If guidance is required.



5.2.2.5 OCNADD_E2E_AVG_RECORD_LATENCY_CRITICAL_THRESHOLD_CROSSED

Table 5-8 OCNADD_E2E_AVG_RECORD_LATENCY_CRITICAL_THRESHOLD_CROSSE D

Field	Details
Triggering Condition	The total observed latency is above the configured critical threshold alert level of 100%
Severity	Critical
Description	Average E2E Latency is above configured critical threshold alert level (100%) for the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: E2E Latency is above 100% of Maximum permissable latency {{ .Values.global.cluster.max_latency }} ms'
	Expression:
	expr: (sum (irate(ocnadd_egress_e2e_request_processing_lat ency_seconds_sum[5m])) by (namespace)) /(sum (irate(ocnadd_egress_e2e_request_processing_lat ency_seconds_count[5m])) by (namespace)) > 1.0*{{ .Values.global.cluster.max_latency }}
OID	1.3.6.1.4.1.323.5.3.51.29.5010
Metric Used	ocnadd_egress_e2e_request_processing_latency_ seconds_sum, ocnadd_egress_e2e_request_processing_latency_ seconds_count
Resolution	The alert is cleared automatically when the average latency goes below the critical threshold alert level of permissable latency

5.2.2.6 OCNADD_E2E_AVG_RECORD_LATENCY_MAJOR_THRESHOLD_CROSSED

Table 5-9 OCNADD_E2E_AVG_RECORD_LATENCY_MAJOR_THRESHOLD_CROSSED

Field	Details
Triggering Condition	The total observed latency is above the configured major threshold alert level of 95%
Severity	Major
Description	Average E2E Latency is above configured minor threshold alert level (95%) for the period of 5 min



Table 5-9 (Cont.)
OCNADD_E2E_AVG_RECORD_LATENCY_MAJOR_THRESHOLD_CROSSED

Field	Details
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: E2E Latency is above 95% of Maximum permissable latency {{ .Values.global.cluster.max_latency }} ms' Expression:
	expr: (sum (irate(ocnadd_egress_e2e_request_processing_lat ency_seconds_sum[5m])) by (namespace)) /(sum (irate(ocnadd_egress_e2e_request_processing_lat ency_seconds_count[5m])) by (namespace)) > .95*{{ .Values.global.cluster.max_latency }} <= 1.0*{{ .Values.global.cluster.max_latency }}
OID	1.3.6.1.4.1.323.5.3.51.29.5010
Metric Used	ocnadd_egress_e2e_request_processing_latency_ seconds_sum, ocnadd_egress_e2e_request_processing_latency_ seconds_count
Resolution	The alert is cleared automatically when the average latency goes below the major threshold alert level of 95% of permissable latency

5.2.2.7 OCNADD_E2E_AVG_RECORD_LATENCY_MINOR_THRESHOLD_CROSSED

Table 5-10 OCNADD_E2E_AVG_RECORD_LATENCY_MINOR_THRESHOLD_CROSSED

Field	Details
Triggering Condition	The total observed latency is above the configured minor threshold alert level of 90%
Severity	Minor
Description	Average E2E Latency is above configured minor threshold alert level (90%) for the period of 5 min



Table 5-10 (Cont.)
OCNADD_E2E_AVG_RECORD_LATENCY_MINOR_THRESHOLD_CROSSED

Field	Details
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: E2E Latency is above 90% of Maximum permissable latency {{ .Values.global.cluster.max_latency }} ms' Expression:
	expr: (sum (irate(ocnadd_egress_e2e_request_processing_lat ency_seconds_sum[5m])) by (namespace)) /(sum (irate(ocnadd_egress_e2e_request_processing_lat ency_seconds_count[5m])) by (namespace)) > .90*{{ .Values.global.cluster.max_latency }} <= 0.95*{{ .Values.global.cluster.max_latency }}
OID	1.3.6.1.4.1.323.5.3.51.29.5010
Metric Used	ocnadd_egress_e2e_request_processing_latency_ seconds_sum, ocnadd_egress_e2e_request_processing_latency_ seconds_count
Resolution	The alert is cleared automatically when the average latency goes below the minor threshold alert level of 90% of permissable latency

5.2.2.8
OCNADD_E2E_AVG_RECORD_LATENCY_WARNING_THRESHOLD_CROSSED

Table 5-11 OCNADD_E2E_AVG_RECORD_LATENCY_WARNING_THRESHOLD_CROSS ED

Field	Details
Triggering Condition	The total observed latency is above the configured warning threshold alert level of 80%
Severity	Warn
Description	Average E2E Latency is above configured warning threshold alert level (80%) for the period of 5 min



Table 5-11 (Cont.)
OCNADD_E2E_AVG_RECORD_LATENCY_WARNING_THRESHOLD_CROSSED

Field	Details
Alert Details	Summary: 'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: E2E Latency is above 80% of Maximum permissable latency {{ .Values.global.cluster.max_latency }} ms'
	Expression:
	expr: (sum (irate(ocnadd_egress_e2e_request_processing_lat ency_seconds_sum[5m])) by (namespace)) /(sum (irate(ocnadd_egress_e2e_request_processing_lat ency_seconds_count[5m])) by (namespace)) > .80*{{ .Values.global.cluster.max_latency }} <= .90*{{ .Values.global.cluster.max_latency }}
OID	1.3.6.1.4.1.323.5.3.51.29.5010
Metric Used	ocnadd_egress_e2e_request_processing_latency_ seconds_sum, ocnadd_egress_e2e_request_processing_latency_ seconds_count
Resolution	The alert is cleared automatically when the average latency goes below the warning threshold alert level of 80% of permissable latency

5.2.2.9 OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_0.1PERCENT

Table 5-12 OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_0.1PERCENT

Field	Details
Triggering Condition	The Egress adapter failure rate towards the 3rd party application is above the configured threshold of 0.1% of total supported MPS
Severity	Info
Description	Egress external connection failure rate towards 3rd party application is crossing info threshold of 0.1% in the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Egress external connection Failure Rate detected above 0.1 Percent of Total Egress external connections'
	Expression:
	expr: (sum(rate(ocnadd_egress_failed_request_total[5m])) by (namespace))/ (sum(rate(ocnadd_egress_requests_total[5m])) by (namespace)) *100 >= 0.1 < 10



Table 5-12 (Cont.) OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_0.1PERCENT

Field	Details
OID	1.3.6.1.4.1.323.5.3.51.29.5012
Metric Used	ocnadd_egress_failed_request_total, ocnadd_egress_requests_total
Resolution	The alert is cleared automatically when the failure rate towards 3rd party consumer goes below the threshold (0.1%) alert level of supported MPS

5.2.2.10 OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_10PERCENT

Table 5-13 OCNADD EGRESS FAILURE RATE THRESHOLD 10PERCENT

Field	Details
Triggering Condition	The Egress adapter failure rate towards the 3rd party application is above the configured threshold of 10% of total supported MPS
Severity	Minor
Description	Egress external connection failure rate towards 3rd party application is crossing minor threshold of 10% in the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} end }}: Egress external connection Failure Rate detected above 10 Percent of Total Egress external connections' Expression:
	expr: (sum(rate(ocnadd_egress_failed_request_total[5m])) by (namespace))/ (sum(rate(ocnadd_egress_requests_total[5m])) by (namespace)) *100 >= 10 < 25
OID	1.3.6.1.4.1.323.5.3.51.29.5012
Metric Used	ocnadd_egress_failed_request_total, ocnadd_egress_requests_total
Resolution	The alert is cleared automatically when the failure rate towards 3rd party consumer goes below the threshold (10%) alert level of supported MPS

5.2.2.11 OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_1PERCENT

Table 5-14 OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_1PERCENT

Field	Details
Triggering Condition	The Egress adapter failure rate towards the 3rd party application is above the configured threshold of 1% of total supported MPS
Severity	Warn



Table 5-14 (Cont.) OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_1PERCENT

Field	Details
Description	Egress external connection failure rate towards 3rd party application is crossing warning threshold of 1% in the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} end }}: Egress external connection Failure Rate detected above 1 Percent of Total Egress external connections' Expression:
	expr: (sum(rate(ocnadd_egress_failed_request_total[5m])) by (namespace))/ (sum(rate(ocnadd_egress_requests_total[5m])) by (namespace)) *100 >= 1 < 10
OID	1.3.6.1.4.1.323.5.3.51.29.5012
Metric Used	ocnadd_egress_failed_request_total, ocnadd_egress_requests_total
Resolution	The alert is cleared automatically when the failure rate towards 3rd party consumer goes below the threshold (1%) alert level of supported MPS

5.2.2.12 OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_25PERCENT

Table 5-15 OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_25PERCENT

Field	Details
Triggering Condition	The Egress adapter failure rate towards the 3rd party application is above the configured threshold of 25% of total supported MPS
Severity	Major
Description	Egress external connection failure rate towards 3rd party application is crossing major threshold of 25% in the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Egress external connection Failure Rate detected above 25 Percent of Total Egress external connections'
	Expression:
	expr: (sum(rate(ocnadd_egress_failed_request_total[5m])) by (namespace))/ (sum(rate(ocnadd_egress_requests_total[5m])) by (namespace)) *100 >= 25 < 50
OID	1.3.6.1.4.1.323.5.3.51.29.5012



Table 5-15 (Cont.) OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_25PERCENT

Field	Details
Metric Used	ocnadd_egress_failed_request_total, ocnadd_egress_requests_total
Resolution	The alert is cleared automatically when the failure rate towards 3rd party consumer goes below the threshold (25%) alert level of supported MPS

5.2.2.13 OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_50PERCENT

Table 5-16 OCNADD_EGRESS_FAILURE_RATE_THRESHOLD_50PERCENT

Field	Details
Triggering Condition	The Egress adapter failure rate towards the 3rd party application is above the configured threshold of 50% of total supported MPS
Severity	Critical
Description	Egress external connection failure rate towards 3rd party application is crossing critical threshold of 50% in the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }}} with query "time()" }}{{ "{{" }}} . first value humanizeTimestamp }}{{ "{{" }} end }}: Egress external connection Failure Rate detected above 50 Percent of Total Egress external connections'
	Expression:
	expr: (sum(rate(ocnadd_egress_failed_request_total[5m])) by (namespace))/ (sum(rate(ocnadd_egress_requests_total[5m])) by (namespace)) *100 >= 50
OID	1.3.6.1.4.1.323.5.3.51.29.5012
Metric Used	ocnadd_egress_failed_request_total, ocnadd_egress_requests_total
Resolution	The alert is cleared automatically when the failure rate towards 3rd party consumer goes below the threshold (50%) alert level of supported MPS

5.2.2.14 OCNADD_HEALTH_MONITORING_SVC_DOWN

Table 5-17 OCNADD_HEALTH_MONITORING_SVC_DOWN

Field	Details
Triggering Condition	The health monitoring service went down or not accessible
Severity	Critical



Table 5-17 (Cont.) OCNADD_HEALTH_MONITORING_SVC_DOWN

Field	Details
Description	OCNADD Health monitoring service not available for more than 2 min
Alert Details	Summary:
	summary: 'namespace: {{ "{{" "}}\$labels.namespace}}, podname: {{ "{{" "}}\$labels.pod}}, timestamp: {{ "{{" "}}} with query "time()" }}{{ "{{" "}}}. first value humanizeTimestamp }}{{ "{{" "}} end }}: ocnaddhealthmonitoring service is down'
	Expression:
	expr: up{service="ocnaddhealthmonitoring"} != 1
OID	1.3.6.1.4.1.323.5.3.51.28.2002
Metric Used	'up'
	Note: This is a Prometheus metric used for instance availability monitoring. If this metric is not available, use the similar metric as exposed by the monitoring system.
Resolution	The alert is cleared automatically when the OCNADD Health monitoring service start becoming available.
	Steps:
	Check for service specific alerts which may be causing the issues with service exposure.
	2. Run the following command to check if the pod's status is in "Running" state:
	kubectl –n <namespace> get pod</namespace>
	If it is not in running state, capture the pod logs and events. Run the following command to fetch the events as follows:
	kubectl get events sortby=.metadata.creationTimestamp -n <namespace></namespace>
	3. Refer to the application logs and check for database related failures such as connectivity, invalid secrets, and so on.
	4. Run the following command to check Helm status and make sure there are no errors:
	helm status <helm data="" director="" name="" of="" release=""> - n<namespace></namespace></helm>
	If it is not in "STATUS: DEPLOYED", then again capture logs and events.
	5. If the issue persists, capture all the outputs from the above steps and contact My Oracle Support (MOS) if guidance is required.



5.2.2.15 OCNADD_INGRESS_TRAFFIC_RATE_DECREASE_SPIKE_10PERCENT

Table 5-18 OCNADD_INGRESS_TRAFFIC_RATE_DECREASE_SPIKE_10PERCENT

Field	Details
Triggering Condition	The ingress traffic decrease is more than 10% of the supported MPS
Severity	Major
Description	The ingress traffic decrease is more than 10% of the supported MPS in last 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Ingress MPS decrease is more than 10 Percent of current supported MPS' Expression: expr: sum(irate(kafka_stream_processor_node_process _total{service=~".*aggregation.*"}[5m])) by (namespace)/ sum(irate(kafka_stream_processor_node_process _total{service=~".*aggregation.*"}[5m] offset 5m)) by (namespace) <= 0.9
OID	1.3.6.1.4.1.323.5.3.51.29.5013
Metric Used	
	kafka_stream_processor_node_process_total
Resolution	The alert is cleared automatically when the decrease in MPS comes back to lower than 10% of the supported MPS

5.2.2.16 OCNADD_INGRESS_TRAFFIC_RATE_INCREASE_SPIKE_10PERCENT

Table 5-19 OCNADD_INGRESS_TRAFFIC_RATE_INCREASE_SPIKE_10PERCENT

Field	Details
Triggering Condition	The ingress traffic increase is more than 10% of the supported MPS
Severity	Major
Description	The ingress traffic increase is more than 10% of the supported MPS in last 5 min



Table 5-19 (Cont.)
OCNADD_INGRESS_TRAFFIC_RATE_INCREASE_SPIKE_10PERCENT

Field	Details
Alert Details	Summary: 'namespace: {{ "{{" }} labels.namespace}}, podname: {{ "{{" }} labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Ingress MPS increase is more than 10 Percent of current supported MPS'
	Expression:
	expr: sum(irate(kafka_stream_processor_node_process _total{service=~".*aggregation.*"}[5m])) by (namespace)/ sum(irate(kafka_stream_processor_node_process _total{service=~".*aggregation.*"}[5m] offset 5m)) by (namespace) >= 1.1
OID	1.3.6.1.4.1.323.5.3.51.29.5013
Metric Used	kafka_stream_processor_node_process_total
Resolution	The alert is cleared automatically when the increase in MPS comes back to lower than 10% of the supported MPS

5.2.2.17 OCNADD_KAFKA_PACKET_DROP_THRESHOLD_10PERCENT_MPS

Table 5-20 OCNADD_KAFKA_PACKET_DROP_THRESHOLD_10PERCENT_MPS

Field	Details
Triggering Condition	The packet drop rate in Kafka streams is above the configured critical threshold of 10% of total supported MPS
Severity	Critical
Description	The packet drop rate in Kafka streams is above the configured critical threshold of 10% of total supported MPS in the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Packet Drop rate is above 10% thereshold of Max messages per second:{{ .Values.global.cluster.mps }}'
	Expression:
	expr: sum(rate(kafka_stream_task_dropped_records_tot al{service=~".*aggregation.*"}[5m])) by (namespace) > 0.1*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5011
Metric Used	kafka_stream_task_dropped_records_total



Table 5-20 (Cont.) OCNADD_KAFKA_PACKET_DROP_THRESHOLD_10PERCENT_MPS

Field	Details
Resolution	The alert is cleared automatically when the packet drop rate goes below the critical threshold (10%) alert level of supported MPS

5.2.2.18 OCNADD_KAFKA_PACKET_DROP_THRESHOLD_1PERCENT_MPS

Table 5-21 OCNADD_KAFKA_PACKET_DROP_THRESHOLD_1PERCENT_MPS

Field	Details
Triggering Condition	The packet drop rate in Kafka streams is above the configured major threshold of 1% of total supported MPS
Severity	Major
Description	The packet drop rate in Kafka streams is above the configured major threshold of 1% of total supported MPS in the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Packet Drop rate is above 1% thereshold of Max messages per second:{{ .Values.global.cluster.mps }}'
	Expression:
	expr: sum(rate(kafka_stream_task_dropped_records_tot al{service=~".*aggregation.*"}[5m])) by (namespace) > 0.01*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5011
Metric Used	kafka_stream_task_dropped_records_total
Resolution	The alert is cleared automatically when the packet drop rate goes below the major threshold (1%) alert level of supported MPS

5.2.2.19 OCNADD_MPS_CRITICAL_EGRESS_THRESHOLD_CROSSED

Table 5-22 OCNADD_MPS_CRITICAL_EGRESS_THRESHOLD_CROSSED

Field	Details
Triggering Condition	The total egress MPS crossed the critical threshold alert level of 100% of the supported MPS
Severity	Critical
Description	Total Egress Message Rate is above configured critical threshold alert (100%) for the period of 5 min



Table 5-22 (Cont.) OCNADD_MPS_CRITICAL_EGRESS_THRESHOLD_CROSSED

Field	Details
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Message Rate is above supported Max messages per second:{{ .Values.global.cluster.mps }}' Expression:
	expr: sum (irate(ocnadd_egress_requests_total[5m])) by (namespace) > 1.0*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5008
Metric Used	ocnadd_egress_requests_total
Resolution	The alert is cleared automatically when the the MPS rate goes below the critical threshold alert level of 100% of supported MPS

5.2.2.20
OCNADD_MPS_CRITICAL_EGRESS_THRESHOLD_CROSSED_FOR_A_CONSUM ER

Table 5-23 OCNADD_MPS_CRITICAL_EGRESS_THRESHOLD_CROSSED_FOR_A_CON SUMER

Field	Details
Triggering Condition	The total egress MPS crossed the critical threshold alert level of 100% of the supported MPS for a consumer
Severity	Critical
Description	Total Egress Message Rate is above configured critical threshold alert (100%) for the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Message Rate is above supported Max messages per second:{{ .Values.global.cluster.mps }}' Expression:
	expr: sum (rate(ocnadd_egress_requests_total[5m])) by (namespace, instance_identifier) > 1.0*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5009
Metric Used	ocnadd_egress_requests_total



Table 5-23 (Cont.)
OCNADD_MPS_CRITICAL_EGRESS_THRESHOLD_CROSSED_FOR_A_CONSUMER

Field	Details
Resolution	The alert is cleared automatically when the the MPS rate goes below the critical threshold alert level of 100% of supported MPS

5.2.2.21 OCNADD_MPS_CRITICAL_INGRESS_THRESHOLD_CROSSED

Table 5-24 OCNADD_MPS_CRITICAL_INGRESS_THRESHOLD_CROSSED

Field	Details
Triggering Condition	The total ingress MPS crossed the critical threshold alert level of 100% of the supported MPS
Severity	Critical
Description	Total Ingress Message Rate is above configured critical threshold alert (100%) for the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}}labels.namespace}}, podname: {{ "{{" }}}labels.pod}}, timestamp: {{ "{{" }}} with query "time()" }}{{ "{{" }}} . first value humanizeTimestamp }}{{ "{{" }} end }}: Message Rate is above the supported Max messages per second:{{ .Values.global.cluster.mps }}'
	Expression:
	expr: sum(irate(kafka_stream_processor_node_process _total{service=~".*aggregation.*"}[5m])) by (namespace) > 1.0*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5007
Metric Used	kafka_stream_processor_node_process_total
Resolution	The alert is cleared automatically when the the MPS rate goes below the critical threshold alert level of 100% of supported MPS

5.2.2.22 OCNADD_MPS_MAJOR_EGRESS_THRESHOLD_CROSSED

Table 5-25 OCNADD_MPS_MAJOR_EGRESS_THRESHOLD_CROSSED

Field	Details
Triggering Condition	The total egress MPS crossed the major threshold alert level of 95% of the supported MPS
Severity	Major
Description	Total Egress Message Rate is above configured major threshold alert (95%) for the period of 5 min



Table 5-25 (Cont.) OCNADD_MPS_MAJOR_EGRESS_THRESHOLD_CROSSED

Field	Details
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Message Rate is above 95% of Max messages per second: {{ .Values.global.cluster.mps }}' Expression:
	expr: sum (irate(ocnadd_egress_requests_total[5m])) by (namespace) > 0.95*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5008
Metric Used	ocnadd_egress_requests_total
Resolution	The alert is cleared automatically when the MPS rate goes below the major threshold alert level of 95% of supported MPS

5.2.2.23 OCNADD_MPS_MAJOR_INGRESS_THRESHOLD_CROSSED

Table 5-26 OCNADD_MPS_MAJOR_INGRESS_THRESHOLD_CROSSED

Field	Details
Triggering Condition	The total ingress MPS crossed the major threshold alert level of 95% of the supported MPS
Severity	Major
Description	Total Ingress Message Rate is above configured major threshold alert (95%) for the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }}} . first value humanizeTimestamp }}{{ "{{" }} end }}: Message Rate is above 95 Percent of Max messages per second:{{ .Values.global.cluster.mps }}' Expression: expr: sum(irate(kafka_stream_processor_node_process _total{service=~".*aggregation.*"}[5m])) by
	(namespace) > 0.95*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5007
Metric Used	kafka_stream_processor_node_process_total
Resolution	The alert is cleared automatically when the the MPS rate goes below the major threshold alert level of 95%.



5.2.2.24 OCNADD_MPS_MINOR_EGRESS_THRESHOLD_CROSSED

Table 5-27 OCNADD_MPS_MINOR_EGRESS_THRESHOLD_CROSSED

Field	Details
Triggering Condition	The total egress MPS crossed the minor threshold alert level of 90% of the supported MPS
Severity	Minor
Description	Total Egress Message Rate is above configured minor threshold alert (90%) for the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Message Rate is above 90% of Max messages per second: {{ .Values.global.cluster.mps }}' Expression:
	expr: sum (irate(ocnadd_egress_requests_total[5m])) by (namespace) > 0.90*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5008
Metric Used	ocnadd_egress_requests_total
Resolution	The alert is cleared automatically when the the MPS rate goes below the minor threshold alert level of 90% of supported MPS

5.2.2.25 OCNADD_MPS_MINOR_INGRESS_THRESHOLD_CROSSED

Table 5-28 OCNADD_MPS_MINOR_INGRESS_THRESHOLD_CROSSED

Field	Details
Triggering Condition	The total ingress MPS crossed the minor threshold alert level of 90% of the supported MPS
Severity	Minor
Description	Total Ingress Message Rate is above configured minor threshold alert (90%) for the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Message Rate is above 90 Percent of Max messages per second:{{ .Values.global.cluster.mps }}' Expression:
	expr: sum(irate(kafka_stream_processor_node_process _total{service=~".*aggregation.*"}[5m])) by (namespace) > 0.9*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5007



Table 5-28 (Cont.) OCNADD_MPS_MINOR_INGRESS_THRESHOLD_CROSSED

Field	Details
Metric Used	kafka_stream_processor_node_process_total
Resolution	The alert is cleared automatically when the the MPS rate goes below the minor threshold alert level of 90%.

5.2.2.26 OCNADD_MPS_WARNING_EGRESS_THRESHOLD_CROSSED

Table 5-29 OCNADD_MPS_WARNING_EGRESS_THRESHOLD_CROSSED

Field	Details
Triggering Condition	The total egress MPS crossed the warning threshold alert level of 80% of the supported MPS
Severity	Warn
Description	Total Egress Message Rate is above configured warning threshold alert (80%) for the period of 5 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: Message Rate is above 80% of Max messages per second: {{ .Values.global.cluster.mps }}' Expression:
	expr: sum (irate(ocnadd_egress_requests_total[5m])) by (namespace) > 0.80*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5008
Metric Used	ocnadd_egress_requests_total
Resolution	The alert is cleared automatically when the the MPS rate goes below the warning threshold alert level of 80% of supported MPS

5.2.2.27 OCNADD_MPS_WARNING_INGRESS_THRESHOLD_CROSSED

Table 5-30 OCNADD_MPS_WARNING_INGRESS_THRESHOLD_CROSSED

Field	Details
Triggering Condition	The total ingress MPS crossed the warning threshold of 80% of the supported MPS
Severity	Warn
Description	Total Ingress Message Rate is above configured warning threshold (80%) for the period of 5 min



Table 5-30 (Cont.) OCNADD_MPS_WARNING_INGRESS_THRESHOLD_CROSSED

Field	Details
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} end }}: Message Rate is above 80 Percent of Max messages per second:{{ .Values.global.cluster.mps }}' Expression:
	expr: sum(irate(kafka_stream_processor_node_process _total{service=~".*aggregation.*"}[5m])) by (namespace) > 0.8*{{ .Values.global.cluster.mps }}
OID	1.3.6.1.4.1.323.5.3.51.29.5007
Metric Used	kafka_stream_processor_node_process_total
Resolution	The alert is cleared automatically when the the MPS rate goes below the warning threshold level of 80%.

5.2.2.28 OCNADD_NRF_AGGREGATION_SVC_DOWN

Table 5-31 OCNADD_NRF_AGGREGATION_SVC_DOWN

E-11	D. (12)
Field	Details
Triggering Condition	The NRF Aggregation service went down or not accessible
Severity	Critical
Description	OCNADD NRF Aggregation service not available for more than 2 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: ocnaddnrfaggregation service is down'
	Expression:
	expr: up{service="ocnaddnrfaggregation"} != 1
OID	1.3.6.1.4.1.323.5.3.51.22.2002
Metric Used	'up'
	Note: This is a Prometheus metric used for instance availability monitoring. If this metric is not available, use the similar metric as exposed by the monitoring system.



Table 5-31 (Cont.) OCNADD_NRF_AGGREGATION_SVC_DOWN

Field	Details
Resolution	The alert is cleared automatically when the OCNADD NRF Aggregation service start becoming available.
	Steps:
	Check for service specific alerts which may be causing the issues with service exposure.
	Run the following command to check if the pod's status is in "Running" state:
	kubectl –n <namespace> get pod</namespace>
	If it is not in running state, capture the pod logs and events. Run the following command to fetch the events as follows:
	kubectl get events sortby=.metadata.creationTimestamp -n <namespace></namespace>
	3. Refer to the application logs and check for database related failures such as connectivity, invalid secrets, and so on.
	Run the following command to check Helm status and make sure there are no errors:
	helm status <helm data="" director="" name="" of="" release=""> - n<namespace></namespace></helm>
	If it is not in "STATUS: DEPLOYED", then again capture logs and events.
	5. If the issue persists, capture all the outputs from the above steps and contact My Oracle Support (MOS), If guidance is required.

5.2.2.29 OCNADD_SCP_AGGREGATION_SVC_DOWN

Table 5-32 OCNADD_SCP_AGGREGATION_SVC_DOWN

Field	Details
Triggering Condition	The SCP Aggregation service went down or not accessible
Severity	Critical
Description	OCNADD SCP Aggregation service not available for more than 2 min
Alert Details	Summary:
	'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} : first value humanizeTimestamp }}{{ "{{" }} end }}: ocnaddscpaggregation service is down' Expression:
	expr: up{service="ocnaddscpaggregation"} != 1
OID	1.3.6.1.4.1.323.5.3.51.22.2002



Table 5-32 (Cont.) OCNADD_SCP_AGGREGATION_SVC_DOWN

Field	Details
Metric Used	'up'
ivietiic Osed	Note: This is a Prometheus metric used for instance availability monitoring. If this metric is not available, use the similar metric as exposed by the monitoring system.
Resolution	The alert is cleared automatically when the OCNADD SCP Aggregation service start becoming available.
	Steps:
	Check for service specific alerts which may be causing the issues with service exposure.
	2. Run the following command to check if the pod's status is in "Running" state:
	kubectl –n <namespace> get pod</namespace>
	If it is not in running state, capture the pod logs and events. Run the following command to fetch the events as follows:
	kubectl get events sortby=.metadata.creationTimestamp -n <namespace></namespace>
	3. Refer to the application logs and check for database related failures such as connectivity, invalid secrets, and so on.
	Run the following command to check Helm status and make sure there are no errors:
	helm status <helm data="" director="" name="" of="" release=""> - n<namespace></namespace></helm>
	If it is not in "STATUS: DEPLOYED", then again capture logs and events.
	5. If the issue persists, capture all the outputs from the above steps and contact My Oracle Support (MOS), If guidance is required.

5.2.2.30 OCNADD_SEPP_AGGREGATION_SVC_DOWN

Table 5-33 OCNADD_SEPP_AGGREGATION_SVC_DOWN

Field	Details
Triggering Condition	The SEPP Aggregation service went down or not accessible
Severity	Critical
Description	OCNADD SEPP Aggregation service not available for more than 2 min



Table 5-33 (Cont.) OCNADD_SEPP_AGGREGATION_SVC_DOWN

Field	Details
Alert Details	Summary: 'namespace: {{ "{{" }}\$labels.namespace}}, podname: {{ "{{" }}\$labels.pod}}, timestamp: {{ "{{" }} with query "time()" }}{{ "{{" }} . first value humanizeTimestamp }}{{ "{{" }} end }}: ocnaddseppaggregation service is down'
	Expression:
OID	expr: up{service="ocnaddseppaggregation"} != 1
OID Matria Haad	1.3.6.1.4.1.323.5.3.51.22.2002
Metric Used	'up' Note: This is a Prometheus metric used for instance availability monitoring. If this metric is not available, use the similar metric as exposed by the monitoring system.
Resolution	The alert is cleared automatically when the OCNADD SEPP Aggregation service start becoming available. Steps:
	Check for service specific alerts which may be causing the issues with service exposure.
	2. Run the following command to check if the pod's status is in "Running" state:
	kubectl -n <namespace> get pod</namespace>
	If it is not in running state, capture the pod logs and events. Run the following command to fetch the events as follows:
	kubectl get events sortby=.metadata.creationTimestamp -n <namespace></namespace>
	3. Refer to the application logs and check for database related failures such as connectivity, invalid secrets, and so on.
	4. Run the following command to check Helm status and make sure there are no errors:
	helm status <helm data="" director="" name="" of="" release=""> - n<namespace></namespace></helm>
	If it is not in "STATUS: DEPLOYED", then again capture logs and events.
	5. If the issue persists, capture all the outputs from the above steps and contact My Oracle Support (MOS), If guidance is required.