

Oracle® Communications

Cloud Native Configuration Console

Troubleshooting Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Contents

1	Introduction	
1.1	Overview	1
1.2	Reference	1
2	Logs	
2.1	Collecting Logs	1
2.2	Log Formats	1
2.3	Log Levels	5
2.4	Types of Logs	5
2.5	Examples of Logs	10
2.6	Configuring Security Logs	23
2.6.1	Accessing logs	24
2.6.1.1	Accessing Logs in Non OCI Deployment	24
2.6.1.2	Accessing logs in OCI Deployment	25
2.6.2	Debugging using Logs	27
3	Debug Tool	
4	CNC Console Troubleshooting in Non OCI Deployment	
4.1	Unable to display the release version of the NF at CNC Console banner	1
4.2	Unable to reach CNC Console Core IP or port directly	1
4.3	Admin user created under CNC Console realm is unable to access CNC Console IAM	1
4.4	CNC Console returns 403 error during NF Configuration	2
4.5	CNC Console returns 500 - Internal Server Error	2
4.6	CNC Console IAM is accessible, but CNC Console Core is not accessible	2
4.7	CNC Console IAM admin password configured through Kubectl secret is not reflected	3
4.8	Access Error in CNC Console Core GUI	3
4.9	Changing the CNC Console IAM admin password	3
4.10	Unable to access Kibana	3
4.11	CNC Console installation failure while installing using cnDBTier	4
4.12	CNC Console IAM kc pod fails while ASM is enabled	4

4.13	Unable to Access CNC Console GUI when ASM is Enabled	4
4.14	CNC Console Core GUI does not get loaded after logging in	4
4.15	CNC Console is not supporting ASM with mTLS disabled configuration	5
4.16	Pods not coming up in an ASM enabled CNC Console deployment in istio injected namespace	6
4.17	Failed to allocate IP for CNC Console IAM Ingress Gateway	7
4.18	Unable to Create required tables in CNC Console IAM DB	7
4.19	Resolve CNC Console Validation hook error	8
4.20	Does CNC Console support Command Line Interface (CLI)	10
4.21	Upgrade or Rollback Failure	10
4.22	CNC Console Upgrade Results IP in Pending state	11
4.23	CNC Console Upgrade Displays Port Already in Use Error	11
4.24	CNC Console Helm Test Fails	11
4.25	CNC Console Helm Test Fails with Service Account Error	12
4.26	Unable to integrate LDAP with Console deployed on ASM setup	12
4.27	CNC Console IAM GUI gives an error while accessing some resources under master realm	15
4.28	Unable to login to CNC Console Core when TLS version is v1.2 and Ciphers Other Than That of TLSv1.2 are Provided	15
4.29	Database Connectivity Failure When Instance Level Access Control is Enabled	16
4.30	403 Forbidden Error when Accessing NF or CS Resources With Instance Level Access Control Enabled	16
4.31	Recovery of Admin Account in CNCC IAM	16
4.32	Pods Enter the CreateContainerConfigError State	18
4.33	Login Error When Accessing CNC Console IAM or CNC Console Core	19
4.34	Unable to Access CNC Console Through FQDN	20
4.35	Ingress Gateway Pods go Into CrashLoopBackOff	20
4.36	IAM Hook Pod Logs Reports the "Table Count Mismatch for dbName='\${dbName}'" Error	20
4.37	IAM Hook Pod Logs Report "Unexpected error during SQL script execution: Communications link failure." Error	21
4.38	IAM Hook Pod Logs Report "SQLException for query='\${SQL_QUERY}'. Error Message: \${SQL_ERROR}. " Error	22
4.39	Tracing Deleted Usernames in CNC Console When Only UUIDs Are Logged	23

5 CNC Console Troubleshooting in OCI Deployment

5.1	CNC Console Deployment pods are not coming up	1
5.2	CNC Console Core GUI is not loading	2
5.3	Getting invalid redirect uri error while accessing CNC Console Core	2
5.4	LDAP Integration Issues	3
5.5	Issues in SAML Authentication	3
5.6	CNC Console Access when private LoadBalancer IP is assigned	3
5.7	OCI IAM Connectivity Failure when Instance Level Access Control is Enabled	5

5.8	403 Forbidden Error when Accessing NF Resources With Instance Level Access Control Enabled	5
-----	--	---

6 CNC Console Alerts

6.1	CNC Console IAM Alerts	1
6.1.1	CncclamTotalIngressTrafficRateAboveMinorThreshold	1
6.1.2	CncclamTotalIngressTrafficRateAboveMajorThreshold	2
6.1.3	CncclamTotalIngressTrafficRateAboveCriticalThreshold	4
6.1.4	CncclamMemoryUsageCrossedMinorThreshold	5
6.1.5	CncclamMemoryUsageCrossedMajorThreshold	6
6.1.6	CncclamMemoryUsageCrossedCriticalThreshold	8
6.1.7	CncclamTransactionErrorRateAbove0.1Percent	9
6.1.8	CncclamTransactionErrorRateAbove1Percent	11
6.1.9	CncclamTransactionErrorRateAbove10Percent	12
6.1.10	CncclamTransactionErrorRateAbove25Percent	14
6.1.11	CncclamTransactionErrorRateAbove50Percent	16
6.1.12	CncclamIngressGatewayServiceDown	18
6.1.13	CncclamFailedLogin	20
6.1.14	AdminUserCreation	21
6.1.15	CncclamAccessTokenFailure	23
6.2	CNC Console Core Alerts	24
6.2.1	CnccCoreTotalIngressTrafficRateAboveMinorThreshold	24
6.2.2	CnccCoreTotalIngressTrafficRateAboveMajorThreshold	25
6.2.3	CnccCoreTotalIngressTrafficRateAboveCriticalThreshold	26
6.2.4	CnccCoreMemoryUsageCrossedMinorThreshold	27
6.2.5	CnccCoreMemoryUsageCrossedMajorThreshold	29
6.2.6	CnccCoreMemoryUsageCrossedCriticalThreshold	31
6.2.7	CnccCoreTransactionErrorRateAbove0.1Percent	32
6.2.8	CnccCoreTransactionErrorRateAbove1Percent	35
6.2.9	CnccCoreTransactionErrorRateAbove10Percent	37
6.2.10	CnccCoreTransactionErrorRateAbove25Percent	39
6.2.11	CnccCoreTransactionErrorRateAbove50Percent	41
6.2.12	CnccCoreIngressGatewayServiceDown	43
6.2.13	CnccCoreFailedLogin	44
6.2.14	CnccCoreUnauthorizedAccess	45
6.2.15	CnccCoreAccessTokenFailure	47
6.3	CNC Console Alerts on OCI	48
6.3.1	CnccCoreTotalIngressTrafficRateAboveMinorThreshold	49
6.3.2	CnccCoreTotalIngressTrafficRateAboveMajorThreshold	49
6.3.3	CnccCoreTotalIngressTrafficRateAboveCriticalThreshold	50
6.3.4	CnccCoreMemoryUsageCrossedMinorThreshold	50

6.3.5	CnccCoreMemoryUsageCrossedMajorThreshold	50
6.3.6	CnccCoreMemoryUsageCrossedCriticalThreshold	51
6.3.7	CnccCoreTransactionErrorRateAbovePointOnePercent	51
6.3.8	CnccCoreTransactionErrorRateAboveOnePercent	52
6.3.9	CnccCoreTransactionErrorRateAboveTenPercent	52
6.3.10	CnccCoreTransactionErrorRateAboveTwentyFivePercent	53
6.3.11	CnccCoreTransactionErrorRateAboveFiftyPercent	53
6.3.12	CnccCoreUnauthorizedAccess	53

Preface

- [Documentation Accessibility](#)
- [Diversity and Inclusion](#)
- [Conventions](#)

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Convention	Meaning
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Acronyms

The following table lists the acronyms and the terminologies used in the document:

Table Acronyms

Acronym	Description
A-CNCC Core	Agent CNC Console is a CNCC Core instance which manages local NF(s) and local OCCNE common services(s). A-CNCC is managed by M-CNCC. A-CNCC contains A-CNCC Core Ingress Gateway. A-CNCC has no IAM component. A-CNCC is also known as A-CNCC Core or aCncc Core.
AD	Active Directory
ASM	Aspen Service Mesh
BSF	Oracle Communications Cloud Native Core, Binding Support Function
CNC Console	Oracle Communications Cloud Native Configuration Console
cnDBTier	Oracle Communications Cloud Native Core, cnDBTier
CNE	Oracle Communications Cloud Native Core, Cloud Native Environment
CNI	Container Network Interface
CNLB	Cloud Native Load Balancer
CRD	Custom Resource Definitions
CRUD Operations	CREATE, READ, UPDATE, DELETE
CS	Common Service
ECDSA	Elliptic Curve Digital Signature Algorithm
EIR	Equipment Identity Register
GRR	Geo Replication Recovery
HTTPS	Hypertext Transfer Protocol Secure
IAM	Identity Access Management
Instance	NF or CNE common service managed by either M-CNCC Core or A-CNCC Core.
KPI	Key Performance Indicator
LCM	Lifecycle Management
LDAP	Lightweight Directory Access Protocol
LDAPS	Lightweight Directory Access Protocol (Over SSL)
MC	Multicluster. In multicluster, a single CNC Console can manage NF instances that access different Kubernetes clusters.
MCMCI	Multiple Clusters Multiple Instances

Table (Cont.) Acronyms

Acronym	Description
M-CNCC	Manager CNC Console or mCncc is a CNC Console instance which manages multiple A-CNCC and local instances. Non OCI: M-CNCC has two components M-CNCC IAM and M-CNCC Core OCI: M-CNCC has only M-CNCC Core component. M-CNCC IAM is substituted with OCI IAM.
M-CNCC Core	Manager CNC Console Core or M-CNCC Core (also known as mCncc Core) is a core component of M-CNCC that provides GUI and API access portal for accessing NF and OCCNE common services. M-CNCC Core contains M-CNCC Core Ingress Gateway and M-CNCC Core back-end microservices.
M-CNCC IAM	Manager CNC Console IAM or M-CNCC IAM (also known as mCncc Iam) is an IAM component of M-CNCC. M-CNCC IAM contains M-CNCC IAM Ingress Gateway and M-CNCC IAM back-end microservices.
M-CNCC Kubernetes cluster	Kubernetes cluster hosting M-CNCC
MO	Managed Objects
MOS	My Oracle Support
mTLS	Mutual Transport Layer Security
NRF	Oracle Communications Cloud Native Core, Network Repository Function
OCI	Oracle Cloud Infrastructure
OCNADD	Oracle Communications Network Analytics Data Director
OCNF	Oracle Communications Network Function
OSDC	Oracle Software Delivery Cloud
OSO	Oracle Communications Operations Services Overlay
PROVGW	Provisioning Gateway
RBAC	Role Based Access Control
Release Stream	A release stream is a sequence of releases for a product available to the customer. Example of release streams are 24.1.x, 24.2.x, 24.3.x, 25.1.1xx, 25.1.2xx, 25.2.1xx, and so on.
REST API	Representational State Transfer Application Programming Interface
SAML	Security Assertion Markup Language
SBA	Service Based Architecture
SBI	Service Based Interface
SCP	Oracle Communications Cloud Native Core, Service Communication Proxy
SCSI	Single Cluster Single Instance
SEPP	Oracle Communications Cloud Native Core, Security Edge Protection Proxy
Site	Kubernetes Cluster

Table (Cont.) Acronyms

Acronym	Description
SSO	Single Sign On
TLS	Transport Layer Security
UDR	Oracle Communications Cloud Native Core, Unified Data Repository
UE	User Equipment
URI	Subscriber Location Function
UUID	Universally Unique Identifier

What's New in This Guide

This section lists the documentation updates for Release 25.2.2xx.

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- **Troubleshooting Updates:**
Added troubleshooting information in the [Tracing Deleted Usernames in CNC Console When Only UUIDs Are Logged](#) section on how to trace deleted usernames when only UUIDs are logged.
- **Logging Updates:**
 - Updated the Log4j JSON format and the example for the pod log in the [Log Formats](#) section.
 - Updated the sample for regular logs in the [Types of Logs](#) section.
 - Updated all the examples for audit logs and security logs in the [Examples of Logs](#) section.
 - Added the [CNC Console UI Event Logs](#) section with details on the M-CNCC IAM and M-CNCC Core UI Event Logs.
 - Added reference to [CNC Console UI Event Logs](#) in the following sections:
 - * [Types of Logs](#)
 - * [Examples of Logs](#)
 - Added the [M-CNCC Core and A-CNCC Core Audit and Security logs for NF](#) section with additional audit and security logs for BSF, Policy, SCP, and UDR.
 - Added a reference to [M-CNCC Core and A-CNCC Core Audit and Security logs for NF](#) in the [Examples of Logs](#) section.

1

Introduction

This document provides information about troubleshooting Oracle Communications Cloud Native Configuration Console (CNC Console).

1.1 Overview

CNC Console is a single screen solution to configure and manage Network Functions (NFs). The CNC Console has the following two modules:

- **CNC Console Core:** CNC Console Core acts as GUI or API portal for NFs and CNE common services. CNC Console Core module includes CNC Console and its integration with other Cloud Native Core network functions. The CNC Console provides user interface that can be used to configure parameters for the following CNC network functions:
 - Oracle Communications Cloud Native Core, Binding Support Function (BSF)
 - Oracle Communications Cloud Native Core, Service Communication Proxy (SCP)
 - Oracle Communications Cloud Native Core, Network Repository Function (NRF)
 - Oracle Communications Cloud Native Core, Converged Policy (Policy)
 - Oracle Communications Cloud Native Core, Security Edge Protection Proxy (SEPP)
 - Oracle Communications Cloud Native Core, Unified Data Repository (UDR)
 - Oracle Communications Cloud Native Core Network Slice Selection Function (NSSF)
 - CNE Common Services
 - Data Director (DD)
 - Oracle Communications Network Data Analytics Function (NWDAF)
 - Provisioning Gateway (PROVGW)
 - Oracle Communications Cloud Native Core, Certificate Management (OCCM)
- **CNC Console Identity Access Management (CNCC IAM):** CNCC IAM acts as local identity provider and broker for external identity provider. CNCC IAM module includes the required authentication and authorization procedures such as creating and assigning roles to users.

1.2 Reference

Following are the reference documents:

- *Oracle Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*
- *Oracle Communications Cloud Native Core DBTier Installation and Upgrade Guide*
- *Oracle Communications Cloud Native Configuration Console User Guide*
- *Oracle Communication Cloud Native Core Data Collector Guide*

2

Logs

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

2.1 Collecting Logs

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

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

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

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

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

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

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

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

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

For more information on kubectl commands, see Kubernetes [website](#).

2.2 Log Formats

This section provides information about the log formats.

[Log4j JSON Format](#)

[CNCC Message Format](#)

Log4j JSON Format

Following is the log format in JSON:

```
{
  "thread": <threadName>,
  "level": <log_level>,
  "loggerName": <name_of_the_logging_class>,
  "message": <message>,
  "instant": <timestamp_in_milliseconds>,
  "messageTimestamp": <timestamp_in_readable_format>,
  "endOfBatch": <default_value_from_log4j>,
```

```

"loggerFqcn": <qualified_class_name_of_logger module>,
"threadId": <threadId>,
"threadPriority": <threadPriority>,
"pod": <name_of_the_pod>,
"processId": <processId>,
"ocLogId": <unique_trace_id_for_every_request>,
"instanceType": <instanceType>,
"ingressTxId": <IngressTransactionId>,
"xRequestId": <xRequestId>
}

```

Table 2-1 Log Details

Name	Description	Example
thread	Name of the thread.	"thread": "reactor-http-epoll-1"
level	Level of the log. It can be: Log level (INFO, WARN, DEBUG, TRACE)	"level": "INFO"
loggerName	Name of the class that generated the log.	"loggerName": "ocpm.cne.gateway.cncc.GatewayApplication"
messageTimestamp	Time represented in human readable format and in UTC. Format is <i>date:yyyy-MM-dd'THH:mm:ss.SSSZ</i> EFK friendly and also follows Oracle Standards.	"messageTimestamp": 2020-07-04'T12:00:40.702Z
message	Information about the event.	"message": "Started Application....." By default, all messages are in simple string except Audit Log , Security Log which are represented in CNC Console Message Format..
instant	The Date and Time the event occurred in epoch second and nano seconds.	"instant": { "epochSecond": 1590045388, "nanoOfSecond": 339789000}
endOfBatch	Default value from log4j	"endOfBatch":false
loggerFqcn	Fully qualified class name of logger module.	"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder"
processId	Linux process Identifier (for a multi-process host).	"processId": "1"
threadId	Id of the thread.	"threadId": "43"
threadPriority	Priority assigned to the thread	"threadPriority": 5
pod	Name of the pods where the log is generated	"pod": "cncc-mcore-ingress-gateway-77df795fb5-wv2sb"
ocLogId	It contains the trace id that is uniquely generated for every request of the format "<timestamp(in milliseconds)>_<thread Id>_<POD name>"	It contains the trace id that is uniquely generated for every request of the format "<timestamp (in milliseconds)>_<thread Id>_<POD name>"
instanceType	Static tag which implies that instance type is production	"instanceType": "prod"
ingressTxId	It contains id of the format "ingress-tx-<Random no>" to track every transaction	"ingressTxId": ingress-tx-1904660570

Table 2-1 (Cont.) Log Details

Name	Description	Example
xRequestId	xRequestId is a placeholder for which value will be populated if x-request-id is present in headers	"xRequestId": "e3e59aff-85e6-4b48-92e7-6bf8e45ef06e"

CNC Console Message Format

Table 2-2 CNC Console Message Format

Name	Description	Example	Possible Values
logType	Indicates whether it is Security Log or Audit Log .	logType=AUDIT	AUDIT SECURITY
type	Indicates nature or action of the log.	type=REQUEST	For Security Log: REQUEST, RESPONSE For Audit Log: LOGIN, ACCESS_RESOURCE, ACCESS_RESOURCE_ERROR, LOGOUT
resourceType	Indicates what is the resource being requested for.	resourceType=SCP	CM_SERVICE (For default route) CNC Console (For User Login Activity) SCP UDR NRF PCF (all CNC Console supported NFs)
cnccld	ID uniquely identifies the deployment and CNE Common Service Instance.	cnccld=Cluster1	NA
instanceld	ID uniquely identified the NF instance or OC-CNE Common Service Instance.	instanceld=Cluster1-scp-instance1	NA
userid	Id of the user who triggered request or action.	userid=3314f54f-08bf-489d-b395-27bf56da1262	NA
username	Name of the user	username= "user1"	NA
status	HTTP status of the response.	status=200 OK	NA

Table 2-2 (Cont.) CNC Console Message Format

Name	Description	Example	Possible Values
operationType	HTTP method of the request.	operationType=GET	NA
scheme	Indicates the scheme of the request.	scheme=http	NA
remoteAddress	The remote address that is associated with the request. It also means the remote address to where this request is connected when available.	remoteAddress=/192.168.219.64:53587	NA
localAddress	The local address that is associated with the request. It also means the local address to where this request is connected when available.	localAddress=cncc-mcore-ingress-gateway.cncc.svc.cluster.local/<unresolved>:30075	NA
resourcePath	Request URI	resourcePath=/soothsayer/v1/canaryrelease/	NA
queryParams	Query parameters associated with request.	queryParams={form_id=9, page=1, view_id=78}	NA
headers	Headers associated with request or response.	headers={Accept=*/, X-Requested-With=XMLHttpRequest, User-Agent=Mozilla/5.0 (Windows NT 10.0; WOW64; rv:68.0) Gecko/20100101 Firefox/68.0, Connection=keep-alive, Host=cncc-core-ingress-gateway.cncc.svc.cluster.local:30075, Accept-Language=en-US,en;q=0.5, Accept-Encoding=gzip, deflate, DNT=1, Content-Type=application/json; charset=utf-8}	NA
payload	Payload or Data associated with request or response.	payload=[{"serviceName":"n5g-eir-eic","canaryReleaseFlag":true,"apiFullVersion":"2.0.0","canaryTraffic":5}]	NA

Table 2-2 (Cont.) CNC Console Message Format

Name	Description	Example	Possible Values
authenticationType	This indicates whether user is requesting resource logged in using CNC Console or directly accessing through postman or curl.	authenticationType=OAUTH	OAUTH -> User is logged in through CNC Console application and accessing resource. JWT -> User is accessing resource directly through postman or curl. UNKNOWN -> Indicates that authenticationType is not applicable for the specific call flow, such as M-CNCC IAM ingress-gateway requests.

2.3 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 CNC Console, 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.

2.4 Types of Logs

The CNC Console logs can be categorized into following types:

- [Audit logs](#)
- [Security logs](#)
- [Regular logs](#)

Audit Logs

Note

CNC Console IAM Audit logs are not applicable for OCI Deployment.

These logs contain user related information and the activity within the system. Audit logs are supported in M-CNCC Core Ingress Gateway only.

The following events are logged in CNC Console Core:

- Log in: A user has logged in.
- Access Resource: A user is accessing a particular NF resource.
- Access Resource Error: A user is denied from accessing a particular NF resource.
- Log out: A user has logged out.

Note

The user can find the CNC Console Core User Activity logs as part of *cncc-core-ingress-gateway* and are represented in CNC Console message format.

The following events are logged in CNC Console IAM:

Login events

- Log in: An admin user has logged in.
- Register: An admin user has registered.
- Logout: An admin user has logged out.
- Refresh Token: An application or a client has refreshed a token.

Account events

- Update Email: The email address for an account has changed.
- Update Profile: The profile for an account has changed.
- Send Password Reset: A password reset email has been sent.
- Update Password: The password for an account has changed.

Note

The user can find the CNC Console IAM User Activity logs as part of *cncc-iam-0*, represented in JSON format. These events are provided by keycloak and documented under [Keycloak Auditing End Events](#).

For additional user event logs, see [CNC Console UI Event Logs](#).

Logging Error Logs are recorded by keycloak container as:

```
{ "timestamp": "2025-06-05T08:38:57.050760755Z", "sequence": 9548, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "WARN", "message": "type=\"LOGIN_ERROR\", realmId=\"master\", realmName=\"master\", clientId=\"security-admin-console\", userId=\"8a279153-ce82-490f-b5d8-884c536f1f9e\", ipAddress=\"<IP>\", error=\"invalid_user_credentials\", auth_method=\"openid-connect\", redirect_uri=\"https://<IP>:<Port>/cncc/auth/admin/master/console/\", code_id=\"3aaa2451-6e2f-4b6e-8ecc-c527541fb78b\", username=\"admin\", \"threadName\": \"executor-thread-2\", \"threadId\": 44, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 1 }
```

Security Logs**Note**

M-CNCC IAM Security logs are not applicable for OCI Deployment.

The security logs contain the header, payload, method, scheme, URI information for all the requests and corresponding responses.

Disabling Security Logs

By default Security Log will be enabled for *M-CNCC IAM*, *M-CNCC Core*, and *A-CNCC Core*. You can disable this by setting *securityLogEnabled* flag to false in *custom values.yaml* file.

```
# CNC Console configuration
cncc:
  # Enable security logs for CNC Console
  securityLogEnabled: false
```

Header Information

At all the log levels, sensitive information like Cookies are masked.

Note

The user can find the Security logs:

- For M-CNCC Core and A-CNCC Core, these are logged as part of *cncc-mcore-ingress-gateway* or *cncc-acore-ingress-gateway* and are represented in CNC Console message format.
- For M-CNCC IAM, these are logged as part of *cncc-iam-ingress-gateway* and are represented in CNCC message format.

Regular logs

These logs contain error messages, warnings, or other events written within the application that provide logical, high level information about the application and ongoing events.

Example:

M-CNCC IAM Pre Hook logs:

```
{ "instant":
  { "epochSecond": 1761807160, "nanoOfSecond": 450000000 }, "thread": "main", "level": "INFO", "loggerName": "com.oracle.cgbu.cne.cncc.iam.Application", "message": "[APP-MAIN] Hook Application started at 2025-10-30T06:52:40.449948335Z", "contextMap":
  { }, "endOfBatch": false, "loggerFqcn": "org.apache.logging.log4j.spi.AbstractLogger", "threadId": 1, "threadPriority": 5, "messageTimestamp": "2025-10-30T06:52:40.450+0000", "application": "cncc", "vendor": "oracle", "engineering_version": "25.2.100-rc.50", "marketing_version": "25.2.100.0.0", "microservice": "cncc-iampreinstall", "cluster": "cncc", "namespace": "cncc", "node": "master", "pod": "cncc-iam-pre-install-bzpvz" }
```

M-CNCC Core CMservice logs:

```
{ "instant":
  { "epochSecond": 1761807196, "nanoOfSecond": 73372171 }, "thread": "main", "level": "INFO", "loggerName": "ocpm.pcf.CmServiceApplication", "message": "Starting CmServiceApplication using Java 17.0.16 with PID 7 (/opt/oracle/app/app.jar started by cncuser in /)", "endOfBatch": false, "loggerFqcn": "org.apache.commons.logging.LogAdapter$Log4jLog", "threadId": 1, "threadPriority": 5, "messageTimestamp": "2025-10-30T06:53:16.073+0000" }
```

M-CNCC Core Ingress Gateway logs:

```
{
  "instant" : {
    "epochSecond" : 1766046505,
    "nanoOfSecond" : 818280753
  },
  "thread" : "main",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.GatewayApplication",
  "message" : "Started GatewayApplication in 33.353 seconds (process running for 37.085)",
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.commons.logging.LogAdapter$Log4jLog",
  "threadId" : 1,
  "threadPriority" : 5,
```

```

"messageTimestamp" : "2025-12-18T08:28:25.818+0000",
"processId" : "1",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

Log Levels

Note

M-CNCC IAM Ingress Gateway default log levels are not applicable for OCI deployment.

Default log levels set for M-CNCC Core and A-CNCC Core:

```

ingress-gateway:
  log:
    level:
      cncc:
        root: WARN
        audit: INFO
        security: INFO

```

Default log levels set for M-CNCC IAM:

```

ingress-gateway:
  log:
    level:
      cncc:
        root: WARN
        security: INFO

```

Updating M-CNCC IAM Kubernetes Cluster (KC) log level

Note

M-CNCC IAM KC logs levels are not applicable for OCI Deployment.

- By default the log level of M-CNCC IAM KC is set to **WARN,org.keycloak.events:DEBUG**. This means the *root log-level* is set to **WARN** and the *org.keycloak.events* package is set to **DEBUG**.
- In the **level** label, set the log level. Following are the different options available to set the log level:
 - **Log level**
 - * TRACE
 - * DEBUG

- * INFO
- * WARN
- * ERROR
- * FATAL
- **level: OFF**
No logs will appear
- Sample M-CNCC IAM KC log configuration:

```
kc:
log:
  level: WARN,org.keycloak.events:DEBUG
```

Table 2-3 Supported Headers for Logging

Header	Header values (regex)
Content-Type	^application/x-www-form-urlencoded.*
	^application/json.*
	^application/problem+json.*
Accept	^application/json.*
	^application/ld+json.*
	^application/xml.*
	^multipart/form-data.*

Role of supporting headers in CNC Console Audit and Security logs

- At INFO level, only those request and response that match the supporting headers and values are logged.
- At DEBUG level, no supporting headers used and all request and response are logged.
- At ERROR / WARN, no supporting headers used and only error or warnings are logged.

Note

Any failure in authorizing a request will always be logged irrespective of the supported header configuration.

2.5 Examples of Logs

This section lists the examples of audit and security logs.

Examples of Audit Logs

CNC Console Core

Only message part of the JSON log is shown in the example.

- User successfully logging into CNC Console Core

```
{
  "instant": {
```

```

        "epochSecond": 1765965000,
        "nanoOfSecond": 123456789
    },
    "thread": "ingress-h2c-epoll-5",
    "level": "INFO",
    "loggerName":
"ocpm.cne.gateway.cncc.config.CustomAuthenticationSuccessHandler",
    "message": {
        "logType": "AUDIT",
        "type": "LOGIN",
        "resourceType": "CNCC",
        "userId": "8238c2be-14bb-420b-b646-86081a9fd7bc",
        "username": "user",
        "userRoles": [
            "DD_WRITE",
            "CNCC_WRITE",
            "BSF_READ",
            "UDR_READ",
            "NSSF_READ",
            "NSSF_WRITE",
            "SEPP_WRITE",
            "PROVGW_READ",
            "CS_WRITE",
            "SCP_READ",
            "default-roles-cncc",
            "offline_access",
            "ADMIN",
            "SEPP_READ",
            "uma_authorization",
            "POLICY_WRITE",
            "NRF_READ",
            "SCP_WRITE",
            "OCCM_READ",
            "DD_READ",
            "POLICY_READ",
            "OCCM_WRITE",
            "CNCC_READ",
            "BSF_WRITE",
            "PROVGW_WRITE",
            "UDR_WRITE",
        ],
        "operationType": "GET",
        "remoteAddress": "/xxx.xxx.xxx.xxx:53587",
        "localAddress": "cncc-mcore-ingress-gateway.cncc.svc.cluster.local/
<unresolved>:30075",
        "resourcePath": "/login/oauth2/code/cncc-iam",
        "authenticationType": "OAUTH"
    },
    "endOfBatch": false,
    "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
    "threadId": 118,
    "threadPriority": 5,
    "messageTimestamp": "2025-12-17T09:40:21.123+0000",
    "processId": "1",
    "ocLogId": "-",
    "instanceType": "prod",

```

```

    "xRequestId": "-"
  }

```

- User accessing SCP resource having SCP_READ role

```

{
  "instant": {
    "epochSecond": 1765965123,
    "nanoOfSecond": 812345678
  },
  "thread": "ingress-h2c-epoll-5",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message": {
    "logType": "AUDIT",
    "type": "ACCESS_RESOURCE",
    "resourceType": "SCP",
    "cnccId": "Cluster1",
    "instanceId": "Cluster1-scp-instance1",
    "userId": "8238c2be-14bb-420b-b646-86081a9fd7bc",
    "username": "user",
    "operationType": "GET",
    "remoteAddress": "/xx.xx.xxx.xxx:53587",
    "localAddress": "cncc-mcore-ingress-gateway.cncc.svc.cluster.local/  
<unresolved>:30075",
    "resourcePath": "/ocscp/scpc-configuration/v1/cncc/datamodel/  
canaryRelease",
    "authenticationType": "OAUTH"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 118,
  "threadPriority": 5,
  "messageTimestamp": "2025-12-17T10:02:03.812+0000",
  "processId": "1",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-",
  "pod": "-",
  "ingressTxId": "-"
}

```

- User updating (PUT) SCP resource having SCP_WRITE role

```

{
  "instant": {
    "epochSecond": 1765966789,
    "nanoOfSecond": 923456789
  },
  "thread": "ingress-h2c-epoll-7",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message": {
    "logType": "AUDIT",
    "type": "ACCESS_RESOURCE",
    "resourceType": "SCP",

```

```

    "cnccId": "Cluster1",
    "instanceId": "Cluster1-SCP-Instance1",
    "userId": "8238c2be-14bb-420b-b646-86081a9fd7bc",
    "username": "user",
    "operationType": "PUT",
    "remoteAddress": "/xx.xx.xxx.xxx:53587",
    "localAddress": "cncc-mcore-ingress-gateway.cncc.svc.cluster.local/
<unresolved>:30075",
    "resourcePath": "/ocscp/scpc-configuration/v1/canary-release/n5g-eir-
eic",
    "authenticationType": "OAUTH"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 124,
  "threadPriority": 5,
  "messageTimestamp": "2025-12-17T10:46:29.923+0000",
  "processId": "1",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-",
  "pod": "-",
  "ingressTxId": "-"
}

```

- User accessing NRF resource without having NRF_READ role

```

{
  "instant": {
    "epochSecond": 1765967821,
    "nanoOfSecond": 564321987
  },
  "thread": "ingress-h2c-epoll-9",
  "level": "INFO",
  "loggerName":
"ocpm.cne.gateway.cncc.config.CustomServerAccessDeniedHandler",
  "message": {
    "logType": "AUDIT",
    "type": "ACCESS_RESOURCE_ERROR",
    "status": "403 FORBIDDEN",
    "resourceType": "NRF",
    "cnccId": "Cluster1",
    "instanceId": "Cluster1-nrf-instance1",
    "userId": "81fd0f84-5632-4a63-b066-f8a7e87d88c2",
    "username": "user",
    "operationType": "PUT",
    "remoteAddress": "/xx.xx.xxx.xxx:53587",
    "localAddress": "cncc-mcore-ingress-gateway.cncc.svc.cluster.local/
<unresolved>:30075",
    "resourcePath": "/nrf-configuration/v1/system-options",
    "message": "User do not have required NF Level permission!!",
    "authenticationType": "OAUTH"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 118,

```

```

    "threadPriority": 5,
    "messageTimestamp": "2025-12-17T11:10:21.564+0000",
    "processId": "1",
    "ocLogId": "-",
    "instanceType": "prod",
    "xRequestId": "-",
    "pod": "-",
    "ingressTxId": "-"
  }
}

```

- User successful logout

```

{
  "instant": {
    "epochSecond": 1765968420,
    "nanoOfSecond": 785421123
  },
  "thread": "ingress-h2c-epoll-5",
  "level": "INFO",
  "loggerName":
"ocpm.cne.gateway.cncc.config.CustomServerLogoutSuccessHandler",
  "message": {
    "logType": "AUDIT",
    "type": "LOGOUT",
    "resourceType": "CNCC",
    "userId": "81fd0f84-5632-4a63-b066-f8a7e87d88c2",
    "username": "user",
    "operationType": "POST",
    "remoteAddress": "/xx.xx.xxx.xxx:53587",
    "localAddress": "cncc-mcore-ingress-gateway.cncc.svc.cluster.local/
<unresolved>:30075",
    "resourcePath": "/logout",
    "authenticationType": "OAUTH"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 121,
  "threadPriority": 5,
  "messageTimestamp": "2025-12-17T11:27:00.785+0000",
  "processId": "1",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-",
  "pod": "-",
  "ingressTxId": "-"
}

```

For additional CNC Console Core Audit logs, see [M-CNCC Core and A-CNCC Core Audit and Security logs for NF](#).

CNC Console IAM:

Note

- The CNC Console IAM Audit log examples defined below are not applicable for OCI Deployment.
- For additional user event logs, see [CNC Console UI Event Logs](#).
- M-CNCC IAM KC Audit event logs are visible only in DEBUG level.
- To see M-CNCC IAM KC Audit event logs, set the `org.keycloak.events` package log to DEBUG in the `custom_values.yaml` file. See [Updating M-CNCC IAM KC loglevel](#) for log level configuration.

- Login Error when password entered was wrong

```
{ "timestamp": "2025-06-05T08:38:57.050760755Z", "sequence": 9548, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "WARN", "message": "type=\"LOGIN_ERROR\", realmId=\"master\", realmName=\"master\", clientId=\"security-admin-console\", userId=\"8a279153-ce82-490f-b5d8-884c536f1f9e\", ipAddress=\"10.75.212.182\", error=\"invalid_user_credentials\", auth_method=\"openid-connect\", redirect_uri=\"https://10.75.212.182:30085/cncc/auth/admin/master/console/\", code_id=\"3aaa2451-6e2f-4b6e-8ecc-c527541fb78b\", username=\"admin\", \"threadName\": \"executor-thread-2\", \"threadId\": 44, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 1 }
```

- Login with correct credential

```
{ "timestamp": "2025-06-05T08:41:29.529227833Z", "sequence": 9550, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "type=\"LOGIN\", realmId=\"master\", realmName=\"master\", clientId=\"security-admin-console\", userId=\"8a279153-ce82-490f-b5d8-884c536f1f9e\", sessionId=\"3aaa2451-6e2f-4b6e-8ecc-c527541fb78b\", ipAddress=\"10.75.212.182\", auth_method=\"openid-connect\", response_type=\"code\", redirect_uri=\"https://10.75.212.182:30085/cncc/auth/admin/master/console/\", consent=\"no_consent_required\", code_id=\"3aaa2451-6e2f-4b6e-8ecc-c527541fb78b\", username=\"admin\", response_mode=\"query\", authSessionParentId=\"3aaa2451-6e2f-4b6e-8ecc-c527541fb78b\", authSessionTabId=\"4R9Z3s2rcLw\", \"threadName\": \"executor-thread-7\", \"threadId\": 51, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 1 }
{ "timestamp": "2025-06-05T08:41:38.918832364Z", "sequence": 9551, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "type=\"CODE_TO_TOKEN\", realmId=\"master\", realmName=\"master\", clientId=\"security-admin-console\", userId=\"8a279153-ce82-490f-b5d8-884c536f1f9e\", sessionId=\"3aaa2451-6e2f-4b6e-8ecc-c527541fb78b\", ipAddress=\"10.75.212.182\", token_id=\"24ed07bc-e362-4f32-b3dc-7815d1e0aa72\", grant_type=\"authorization_code\", refresh_token_type=\"Refresh\", scope=\"openid email profile\", refresh_token_id=\"f6739f5b-5505-4a8b-8e1b-f64f92e139d3\", code_id=\"3aaa2451-6e2f-4b6e-8ecc-c527541fb78b\", client_auth_method=\"client-secret\", \"threadName\": \"executor-
```

```
thread-6", "threadId": 50, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 1}
```

- User created

```
{"timestamp": "2025-06-05T08:44:45.741470322Z", "sequence": 9555, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"CREATE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"8a279153-ce82-490f-b5d8-884c536f1f9e\\", ipAddress=\\"10.75.212.182\\", resourceType=\\"USER\\", resourcePath=\\"users/44ed4289-0b2a-4c9f-9e39-16ca70f7e80f\\", "threadName": "executor-thread-11", "threadId": 56, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 1}
```

- Deleted user

```
{"timestamp": "2025-06-05T08:46:32.099434501Z", "sequence": 9560, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"DELETE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"8a279153-ce82-490f-b5d8-884c536f1f9e\\", ipAddress=\\"10.75.212.182\\", resourceType=\\"USER\\", resourcePath=\\"users/44ed4289-0b2a-4c9f-9e39-16ca70f7e80f\\", "threadName": "executor-thread-14", "threadId": 59, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 1}
```

- Admin Role removed for a user

```
{"timestamp": "2025-06-05T08:48:59.017544916Z", "sequence": 9562, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"DELETE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"8a279153-ce82-490f-b5d8-884c536f1f9e\\", ipAddress=\\"10.75.212.182\\", resourceType=\\"REALM_ROLE_MAPPING\\", resourcePath=\\"users/4772ale5-9f7d-416b-9f43-8e735bba0589/role-mappings/realm\\", "threadName": "executor-thread-18", "threadId": 63, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 1}
```

- Admin Role added for a user

```
{"timestamp": "2025-06-05T08:49:07.940955161Z", "sequence": 9563, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"CREATE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"8a279153-ce82-490f-b5d8-884c536f1f9e\\", ipAddress=\\"10.75.212.182\\", resourceType=\\"REALM_ROLE_MAPPING\\", resourcePath=\\"users/4772ale5-9f7d-416b-9f43-8e735bba0589/role-mappings/realm\\", "threadName": "executor-thread-18", "threadId": 63, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 1}
```

- Realm setting update

```
{ "timestamp": "2025-06-05T08:50:03.516786633Z", "sequence": 9565, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"UPDATE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"8a279153-ce82-490f-b5d8-884c536f1f9e\\", ipAddress=\\"10.75.212.182\\", resourceType=\\"REALM\\", resourcePath=\\"null\\", "threadName": "executor-thread-23", "threadId": 68, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 1}
```

Examples of Security Logs

Representation for IAM and Core are same as these logs are part of ingress-gateway. Only message part of the JSON log is shown in the example.

CNC Console Core

- SCP request

```
{
  "instant" : {
    "epochSecond" : 1766047598,
    "nanoOfSecond" : 211447808
  },
  "thread" : "igw-app-thread11",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "GET",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xxxxx.xx.xx:27846",
    "localAddress" : "xxxxx.xx.xx:8081",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "*/*",
      "oc-cncc-id" : "Cluster1",
      "Connection" : "keep-alive",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "uuidToken" : "ad1d7515-2f3a-43a1-aebb-5abddb73ba5",
      "Host" : "xxxxx.xx.xx:30175",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "svcName" : "cncc1-acore-ingress-gateway",

```

```

        "ocLogId" : "1766047598203_76_cncc1-mcore-ingress-gateway-5979db7748-
ct9zb",
        "sbi-timer-publish-headers" : "false",
        "Accept-Language" : "en-GB,en;q=0.9",
        "oc-cncc-instance-id" : "Cluster1-scp-instancel",
        "sbi-timer-feature" : "false",
        "Content-Type" : "application/json; charset=utf-8"
    },
    "payload" : "Either the payload is empty or too large",
    "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 252,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T08:46:38.211+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1394889966",
"pod" : "cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
"ocLogId" : "1766047598203_76_cncc1-mcore-ingress-gateway-5979db7748-
ct9zb",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

- SCP response

```

{
  "instant" : {
    "epochSecond" : 1766047598,
    "nanoOfSecond" : 680858746
  },
  "thread" : "igw-app-thread19",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "GET",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instancel",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release",
    "scheme" : "http",
    "headers" : {
      "date" : "Thu, 18 Dec 2025 08:39:41 GMT",
      "X-Frame-Options" : "SAMEORIGIN",
      "Referrer-Policy" : "no-referrer",
      "content-length" : "182",
      "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
      "X-Content-Type-Options" : "nosniff",
      "content-type" : "application/json",
      "Pragma" : "no-cache",
      "Expires" : "0",

```

```

        "X-XSS-Protection" : "0"
    },
    "payload" :
    "[{"configName":"defaultCanaryConfigName","canaryData":
    {"apiFullVersion":"2.0.0","canaryTraffic":5},"createdTimestamp":"2
    025-12-15 08:12:40","updatedTimestamp":"2025-12-15 08:12:40"}],
    "authenticationType" : "OAUTH",
    "status" : "200 OK"
    },
    "endOfBatch" : false,
    "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
    "threadId" : 261,
    "threadPriority" : 5,
    "messageTimestamp" : "2025-12-18T08:46:38.680+0000",
    "processId" : "1",
    "ingressTxId" : "ingress-tx-1639164842",
    "pod" : "cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
    "ocLogId" : "-",
    "instanceType" : "prod",
    "xRequestId" : "-"
}

```

① Note

For additional CNC Console Core Security logs, see [M-CNCC Core and A-CNCC Core Audit and Security logs for NF](#).

CNC Console IAM

The logs for IAM Ingress Gateway contain the username and user ID for all actions performed by CNCC IAM admin users post login, alongside other relevant information.

① Note

- There may be a few logs with **userId=UNKNOWN, username=UNKNOWN** as user information is not available at that time. However, for request having user information, Username and UserId will be populated.
- The `authenticationType` header is not applicable for the M-CNCC IAM call flow, so it is set to **UNKNOWN** in the M-CNCC IAM ingress-gateway security logs.
- Below defined CNCC IAM Security log examples are not applicable for OCI Deployment.

• Request

```

{
  "instant" : {
    "epochSecond" : 1766048266,
    "nanoOfSecond" : 368468661
  },
  "thread" : "igw-app-thread6",

```

```

"level" : "INFO",
"loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
"message" : {
  "logType" : "SECURITY",
  "type" : "REQUEST",
  "operationType" : "GET",
  "userId" : "77390ae3-eb99-4461-8ac1-1ffaa7dd90a9",
  "username" : "admin",
  "remoteAddress" : "xx.xxx.xx.xx:1953",
  "localAddress" : "xx.xxx.xx.xx:8081",
  "resourcePath" : "/cncc/auth/admin/realms/master/users/77390ae3-
eb99-4461-8ac1-1ffaa7dd90a9",
  "scheme" : "http",
  "queryParams" : {
    "userProfileMetadata" : "true"
  },
  "headers" : {
    "Connection" : "keep-alive",
    "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
    "uuidToken" : "8d58e2a1-9f23-4398-a4e6-42f12bc9ed68",
    "Host" : "xx.xxx.xx.xx:30185",
    "DNT" : "1",
    "Accept-Encoding" : "gzip, deflate",
    "svcName" : "cncc1-iam-kc-http.cncc1.svc.thrust7a",
    "ocLogId" : "1766048266359_243_cncc1-iam-ingress-gateway-59687f9dfb-
cmwkb",
    "accept" : "application/json, text/plain, */*",
    "sbi-timer-publish-headers" : "false",
    "authorization" : "{masked}",
    "Accept-Language" : "en-GB,en;q=0.9",
    "sbi-timer-feature" : "false"
  },
  "payload" : "Either the payload is empty or too large",
  "authenticationType" : "UNKNOWN"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 247,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T08:57:46.368+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1752865491",
"pod" : "cncc1-iam-ingress-gateway-59687f9dfb-cmwkb",
"ocLogId" : "1766048266359_243_cncc1-iam-ingress-gateway-59687f9dfb-
cmwkb",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

- Response

```

{
  "instant" : {
    "epochSecond" : 1766048266,
    "nanoOfSecond" : 380740680
  }
}

```

```

    },
    "thread" : "igw-app-thread14",
    "level" : "INFO",
    "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
    "message" : {
      "logType" : "SECURITY",
      "type" : "RESPONSE",
      "operationType" : "GET",
      "userId" : "77390ae3-eb99-4461-8ac1-1ffaa7dd90a9",
      "username" : "admin",
      "resourcePath" : "/cncc/auth/admin/realms/master/users/77390ae3-
eb99-4461-8ac1-1ffaa7dd90a9",
      "scheme" : "http",
      "headers" : {
        "Referrer-Policy" : "no-referrer",
        "X-Frame-Options" : "SAMEORIGIN",
        "content-length" : "1554",
        "Strict-Transport-Security" : "max-age=31536000; includeSubDomains",
        "Cache-Control" : "no-cache",
        "X-Content-Type-Options" : "nosniff",
        "RequestMethod" : "GET",
        "NettyLatency" : "1766048266359",
        "Content-Type" : "application/json;charset=UTF-8"
      }
    },
    "payload" : {
      "id" : "77390ae3-eb99-4461-8ac1-1ffaa7dd90a9",
      "username" : "admin",
      "emailVerified" : false,
      "userProfileMetadata" : {
        "attributes" : [ {
          "name" : "username",
          "displayName" : "${username}",
          "required" : true,
          "readOnly" : true,
          "validators" : {
            "username-prohibited-characters" : {
              "ignore.empty.value" : true
            },
            "multivalued" : {
              "max" : "1"
            },
            "length" : {
              "max" : 255,
              "ignore.empty.value" : true,
              "min" : 3
            },
            "up-username-not-idn-homograph" : {
              "ignore.empty.value" : true
            }
          }
        }
      },
      "multivalued" : false
    }, {
      "name" : "email",
      "displayName" : "${email}",
      "required" : false,
      "readOnly" : false,

```

```

    "validators" : {
      "multivalued" : {
        "max" : "1"
      },
      "length" : {
        "max" : 255,
        "ignore.empty.value" : true
      },
      "email" : {
        "ignore.empty.value" : true
      }
    },
    "multivalued" : false
  }, {
    "name" : "firstName",
    "displayName" : "${firstName}",
    "required" : false,
    "readOnly" : false,
    "validators" : {
      "person-name-prohibited-characters" : {
        "ignore.empty.value" : true
      },
      "multivalued" : {
        "max" : "1"
      },
      "length" : {
        "max" : 255,
        "ignore.empty.value" : true
      }
    },
    "multivalued" : false
  }, {
    "name" : "lastName",
    "displayName" : "${lastName}",
    "required" : false,
    "readOnly" : false,
    "validators" : {
      "person-name-prohibited-characters" : {
        "ignore.empty.value" : true
      },
      "multivalued" : {
        "max" : "1"
      },
      "length" : {
        "max" : 255,
        "ignore.empty.value" : true
      }
    },
    "multivalued" : false
  } ],
  "groups" : [ {
    "name" : "user-metadata",
    "displayHeader" : "User metadata",
    "displayDescription" : "Attributes, which refer to user metadata"
  } ]
},

```

```

        "enabled" : true,
        "createdTimestamp" : 1765468032797,
        "totp" : false,
        "disableableCredentialTypes" : [ ],
        "requiredActions" : [ ],
        "notBefore" : 0,
        "access" : {
            "manageGroupMembership" : true,
            "resetPassword" : true,
            "view" : true,
            "mapRoles" : true,
            "impersonate" : true,
            "manage" : true
        }
    },
    "authenticationType" : "UNKNOWN",
    "status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 255,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T08:57:46.380+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1327818136",
"pod" : "cncc1-iam-ingress-gateway-59687f9dfb-cmwkb",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

2.6 Configuring Security Logs

This section provides the details about configuring security logs.

Setting at Log Level

By default, Security Log is set to the "INFO" level for both CNC Console Core and CNC Console IAM. You can change the log level by setting `log.level.cncc.security` to the required level in `core` and `iam` `values.yaml` file.

values.yaml

```

#Set the root log level
log:
  level:
    root: WARN
    ingress: INFO
    oauth: INFO
    cncc:
      security: INFO

```

Disabling Security Log

By default, the Security Log is enabled for both CNCC Core and CNCC IAM. You can disable this by setting `securityLogEnabled` flag to `false` in `core` and `iam` `values.yaml` file.

values.yaml

```
# CNCC configuration
cncc:
  enabled: false
  enablehttp1: false
  securityLogEnabled: false
```

2.6.1 Accessing logs

This section gives information about how to access the logs.

2.6.1.1 Accessing Logs in Non OCI Deployment

The CNC Console application logs can be accessed in following ways:

1. Run the following command to view logs of a CNC Console application pod:

```
kubectl logs -f -n <cncc_namespace> <pod_name> -c <container_name>
```

Example:

CNC Console Core:

```
$ kubectl logs -f -n cncc cncc-mcore-ingress-gateway-77df795fb5-wv2sb -c
mcore-ingress-gateway (Security & Audit Log)
```

CNC Console IAM:

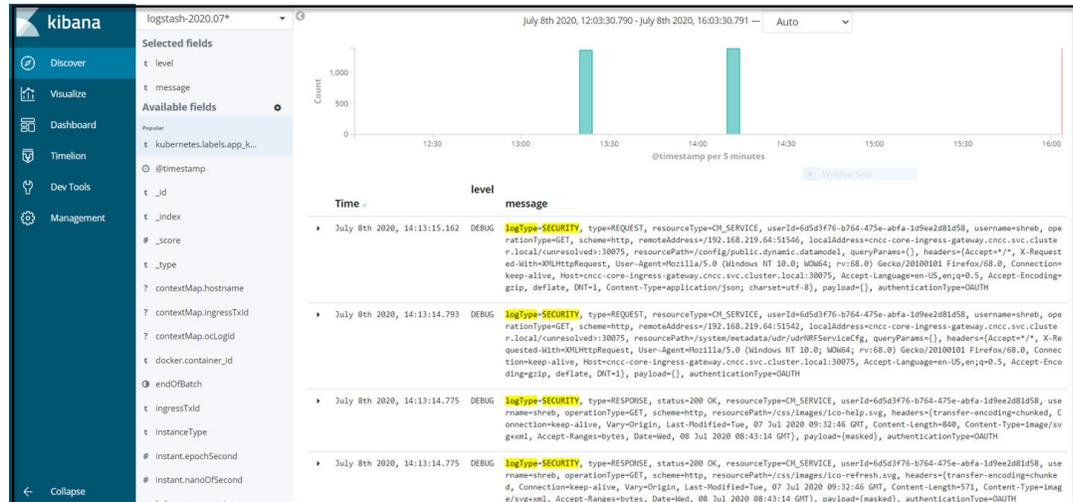
```
$ kubectl logs -f -n cncc cncc-iam-ingress-gateway-77df795fb5-wv2sb -c iam-
ingress-gateway (Security Log)
```

```
$ kubectl logs -f -n cncc cncc-iam-0 -c iam-kc(Audit Log)
```

2. CNC Console uses cloud native supported logging framework to view the logs.

Example : Elasticsearch, Fluentd, and Kibana (EFK) can be used here with CNC Console to view the logs as follows:

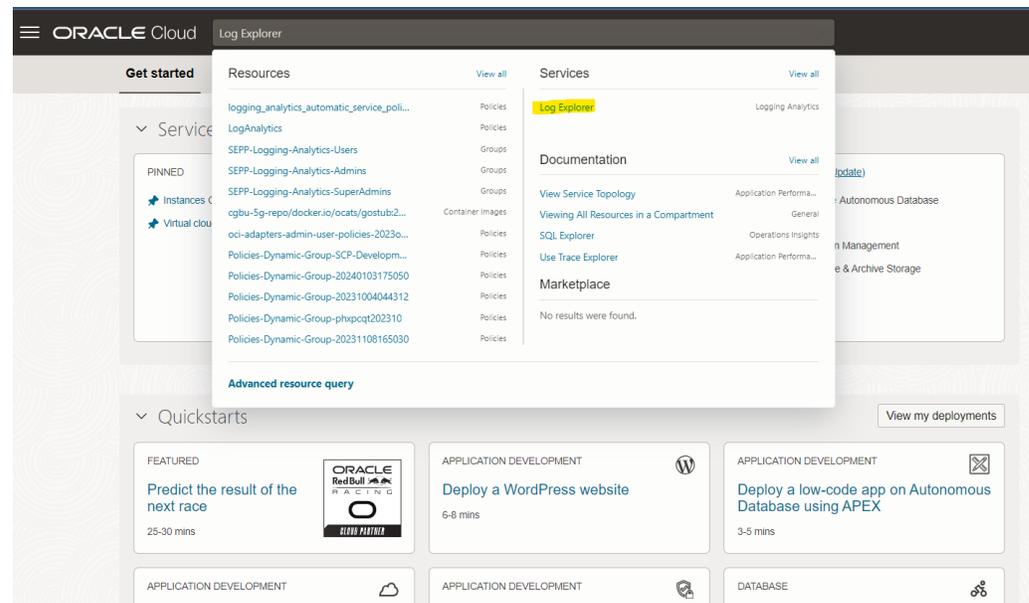
Figure 2-1 Log View



2.6.1.2 Accessing logs in OCI Deployment

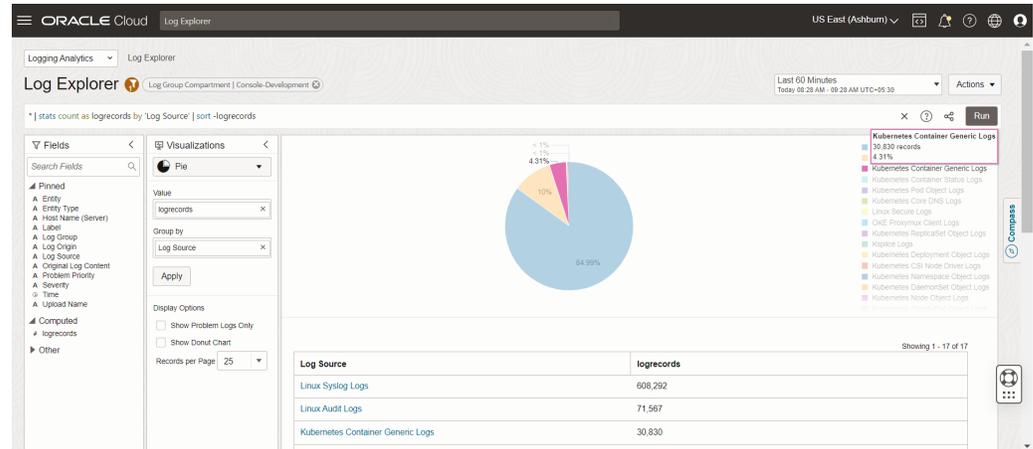
- Viewing logs for OCI IAM in OCI Console GUI:
See the [Generate Identity and Access Management Reports from Oracle Cloud Infrastructure Audit](#) document to view OCI IAM logs.
- Viewing logs for M-CNCC Core and A-CNCC Core in OCI Console GUI:
 - Log in to OCI Console GUI and search for **Log Explorer** or Click the Hamburger menu, click **Observability and Management**, then click **Log Explorer** in **Logging Analytics** section. This will open the Log Explorer page.

Figure 2-2 Log Explorer



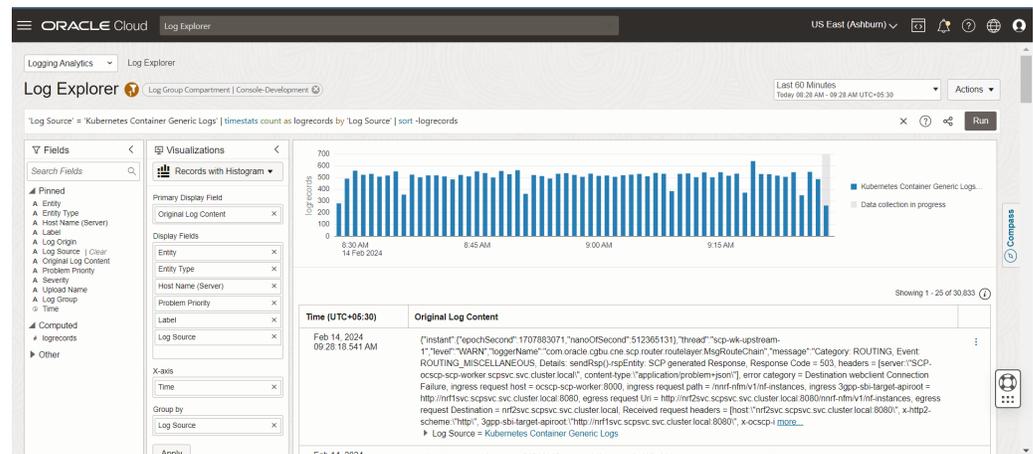
- On the Log Explorer page, click **Kubernetes Container Generic logs**.

Figure 2-3 Kubernetes Container Generic logs



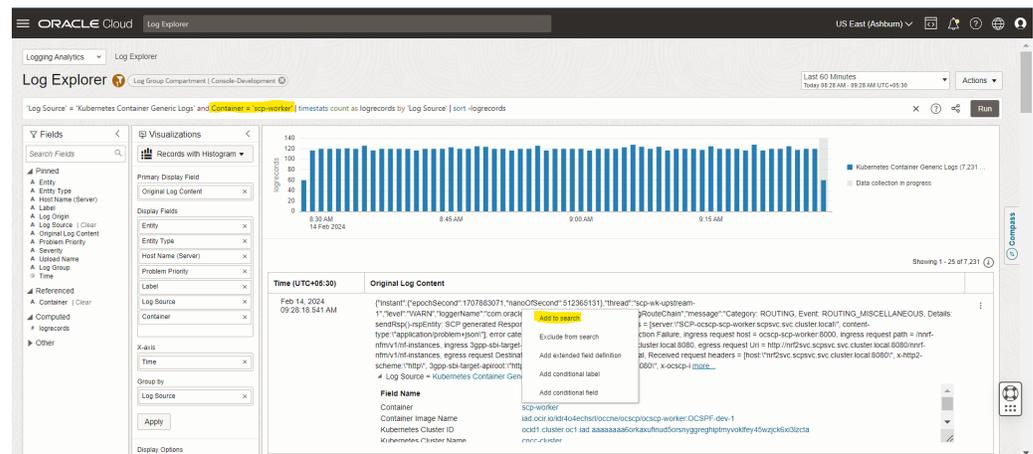
- c. After clicking the **Kubernetes Container Generic Logs** link, logs will be visible.

Figure 2-4 View Logs



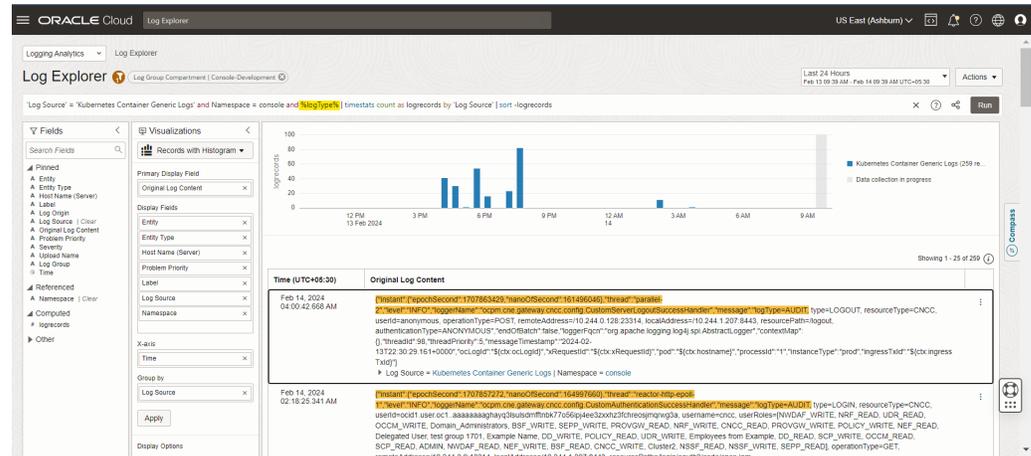
- d. You can filter the logs by the container by clicking **Add to search**. Similarly other log source fields can also be added to filter logs.

Figure 2-5 Filter the logs by the container



- e. Filter logs based on the logType regex pattern for security and audit logs. Similarly required regex patterns can be used to filter the logs.

Figure 2-6 Regex Patterns for Filtering Logs



Note
For more details, see the Explore Logs section in the [Oracle Cloud Infrastructure Logging Analytics Quick Start Guide](#).

2.6.2 Debugging using Logs

This section provides information to debug CNC Console using Logs.

Table 2-4 CNCC Core Debugging through Logs

Scenario	Level	Logs to be searched
CNC Core Login	INFO	Login successful
Session Timeout Value	INFO	Session timeout
Validating user authorization	INFO	User Authorization Details
Accessing a resource	DEBUG	Mapping [Exchange: GET
Updating a resource	DEBUG	Mapping [Exchange: PATCH 'or' Mapping [Exchange: PUT
Creating a new resource	DEBUG	Mapping [Exchange: POST 'or' Mapping [Exchange: PUT
CNCC Core Logout	INFO	Logout successful

3

Debug Tool

Overview

Note

CNC Console IAM is not applicable for OCI.

The Debug Tools provides third-party troubleshooting tools for debugging the runtime issues for the lab environment. Following are the available tools:

- tcpdump
- ip
- netstat
- curl
- ping
- dig

Note

Debug Tool is only applicable for lab setup, and not recommended for production use.

Note

While testing in OCCNE environment, check the Kyverno policies and make sure to exclude the namespace in the disallow-capabilities.

Prerequisites

This section explains the prerequisites for using debug tool.

- For CNE 23.2.0 and later versions, follow [step a](#) of Configuration in CNE.
- For CNE versions prior to 23.2.0, follow [step b](#) of Configuration in CNE.

1. Configuration in CNE

The following configurations must be performed in the Bastion Host.

- a. When CNC Console is installed on CNE version 23.2.0 or above

Note

- You need admin privileges to edit or patch the clusterpolicies that are mentioned in following steps.
- In CNE v23.2.0 onwards, kyverno policy, disallow-capabilities does not allow NET_ADMIN and NET_RAW capabilities required for debug tool.

Adding Namespace to the Empty Resource

If the current disallow-capabilities cluster policy has no namespace in it, for example:

```
$ kubectl get clusterpolicies disallow-capabilities -oyaml
```

Sample output

```
apiVersion: kyverno.io/v1
kind: ClusterPolicy
...
...
spec:
  rules:
  - exclude:
    resources: {}
```

Then, run the following command to add the namespace:

```
$ kubectl patch clusterpolicy disallow-capabilities --type=json \
  -p='[{"op": "add", "path": "/spec/rules/0/exclude/any/0/resources",
"value": {"namespaces":["<namespace>"]} }]'
```

Example:

```
$ kubectl patch clusterpolicy disallow-capabilities --type=json \
  -p='[{"op": "add", "path": "/spec/rules/0/exclude/any/0/resources",
"value": {"namespaces":["cncc"]} }]'
```

Sample output

```
apiVersion: kyverno.io/v1
kind: ClusterPolicy
...
...
spec:
  rules:
  - exclude:
    resources:
      namespaces:
      - cncc
```

To remove the namespace, run the following:

```
$ kubectl patch clusterpolicy disallow-capabilities --type=json \
  -p='[{"op": "replace", "path": "/spec/rules/0/exclude/any/0/
resources", "value": { } }]'
```

Sample output

```
apiVersion: kyverno.io/v1
kind: ClusterPolicy
...
...
spec:
  rules:
  - exclude:
    resources: { }
```

Adding a Namespace to the Existing Namespace List

If the current disallow-capabilities cluster policy has already namespaces added in it, for example:

```
$ kubectl get clusterpolicies disallow-capabilities -oyaml
```

Output:

```
apiVersion: kyverno.io/v1
kind: ClusterPolicy
...
...
spec:
  rules:
  - exclude:
    resources:
      namespaces:
      - namespace1
      - namespace2
      - namespace3
```

Then, run the following command to add your namespace:

```
$ kubectl patch clusterpolicy disallow-capabilities --type=json \
  -p='[{"op": "add", "path": "/spec/rules/0/exclude/any/0/resources/
namespaces/-", "value": "<namespace>"}]'
```

Example:

```
$ kubectl patch clusterpolicy disallow-capabilities --type=json \
  -p='[{"op": "add", "path": "/spec/rules/0/exclude/any/0/resources/
namespaces/-", "value": "cncc"}]'
```

Sample Output:

```
  apiVersion: kyverno.io/v1
  kind: ClusterPolicy
  ...
  ...
  spec:
    rules:
      - exclude:
          resources:
            namespaces:
              - namespace1
              - namespace2
              - namespace3
              - cncc
```

To remove the namespace, run the following command:

```
$ kubectl patch clusterpolicy disallow-capabilities --type=json \
  -p='[{"op": "remove", "path": "/spec/rules/0/exclude/any/0/resources/
  namespaces/<index>"}]'
```

Example:

```
$ kubectl patch clusterpolicy disallow-capabilities --type=json \
  -p='[{"op": "remove", "path": "/spec/rules/0/exclude/any/0/resources/
  namespaces/3"}]'
```

Output:

```
apiVersion: kyverno.io/v1
kind: ClusterPolicy
...
...
spec:
  rules:
    - exclude:
        resources:
          namespaces:
            - namespace1
            - namespace2
            - namespace3
```

b. Configurations in CNE Versions Prior to 23.2.0

The following configurations must be performed in the Bastion Host.

Note

These steps are needed only when you have PSP admission controller enabled in your kubernetes environment.

PodSecurityPolicy (PSP) Creation

- i. Log in to the Bastion Host.
- ii. Create a new PSP by running the following command. The parameters *readOnlyRootFilesystem*, *allowPrivilegeEscalation*, *allowedCapabilities* are needed by debug container.

Note

Other parameters are mandatory for PSP creation and can be customized as per the CNE environment. Default values are recommended.

PodSecurityPolicy

```
kubectl apply -f - <<EOF
apiVersion: policy/v1beta1
kind: PodSecurityPolicy
metadata:
  name: debug-tool-psp
spec:
  readOnlyRootFilesystem: false
  allowPrivilegeEscalation: true
  allowedCapabilities:
  - NET_ADMIN
  - NET_RAW
  fsGroup:
    ranges:
    - max: 65535
      min: 1
    rule: MustRunAs
  runAsUser:
    rule: MustRunAsNonRoot
  seLinux:
    rule: RunAsAny
  supplementalGroups:
    rule: RunAsAny
  volumes:
  - configMap
  - downwardAPI
  - emptyDir
  - persistentVolumeClaim
  - projected
  - secret
EOF
```

Table 3-1 PodSecurityPolicy

Parameter	Description
apiVersion	APIVersion defines the versioned schema of this representation of an object.
kind	Kind is a string value representing the REST resource this object represents.
metadata	Standard object's metadata.

Table 3-1 (Cont.) PodSecurityPolicy

Parameter	Description
metadata.name	Name must be unique within a namespace.
spec	spec defines the policy enforced.
spec.readOnlyRootFilesystem	Controls whether the containers run with a read-only root filesystem (that is no writable layer).
spec.allowPrivilegeEscalation	Gates whether or not a user is allowed to set the security context of a container to allowPrivilegeEscalation=true.
spec.allowedCapabilities	Provides a list of capabilities that are allowed to be added to a container.
spec.fsGroup	Controls the supplemental group applied to some volumes. RunAsAny allows any fsGroup ID to be specified.
spec.runAsUser	Controls which user ID the containers are run with. RunAsAny allows any runAsUser to be specified.
spec.seLinux	RunAsAny allows any seLinuxOptions to be specified.
spec.supplementalGroups	Controls which group IDs containers add. RunAsAny allows any supplementalGroups to be specified.
spec.volumes	Provides a list of allowed volume types. The allowable values correspond to the volume sources that are defined when creating a volume.

Role Creation

Create a role for the PSP by running the following commands:

Role

```
kubectl apply -f - <<EOF
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: debug-tool-role
  namespace: cncc
rules:
- apiGroups:
  - policy
  resources:
  - podsecuritypolicies
  verbs:
  - use
  resourceNames:
  - debug-tool-psp
EOF
```

Table 3-2 Role

Parameter	Description
apiGroups	APIGroups is the name of the APIGroup that contains the resources.
apiVersion	APIVersion defines the versioned schema of this representation of an object.
kind	Kind is a string value representing the REST resource this object represents.

Table 3-2 (Cont.) Role

Parameter	Description
metadata	Standard object's metadata.
metadata.name	Name must be unique within a namespace.
metadata.namespace	Namespace defines the space within which each name must be unique.
rules	Rules holds all the PolicyRules for this Role
rules.resourceNames	ResourceNames is an optional white list of names that the rule applies to.
rules.resources	Resources is a list of resources this rule applies to.
rules.verbs	Verbs is a list of Verbs that apply to ALL the ResourceKinds and AttributeRestrictions contained in this rule.

RoleBinding Creation

Run the following command to attach the service account for your namespace with the role created for the tool PSP:

RoleBinding

```
kubectl apply -f - <<EOF
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: debug-tool-rolebinding
  namespace: cncc
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: debug-tool-role
subjects:
- kind: Group
  apiGroup: rbac.authorization.k8s.io
  name: system:serviceaccounts
EOF
```

Table 3-3 RoleBinding

Parameter	Description
apiVersion	APIVersion defines the versioned schema of this representation of an object.
kind	Kind is a string value representing the REST resource this object represents.
metadata	Standard object's metadata.
metadata.name	Name must be unique within a namespace.
metadata.namespace	Namespace defines the space within which each name must be unique.
roleRef	RoleRef can reference a Role in the current namespace or a ClusterRole in the global namespace.
roleRef.apiGroup	APIGroup is the group for the resource being referenced
roleRef.kind	Kind is the type of resource being referenced
roleRef.name	Name is the name of resource being referenced

Table 3-3 (Cont.) RoleBinding

Parameter	Description
subjects	Subjects holds references to the objects the role applies to.
subjects.kind	Kind of object being referenced. Values defined by this API group are "User", "Group", and "ServiceAccount".
subjects.apiGroup	APIGroup holds the API group of the referenced subject.
subjects.name	Name of the object being referenced.

Configuration Changes in CNCC Helm Charts

To enable debug tools container, make changes to `occncc_custom_values_<version>.yaml` file at Global level by setting `extraContainers: ENABLED`.

```

global:
  # Allowed Values: DISABLED, ENABLED
  # Preference is to set "resources" request and limit to same values to
  # avoid HPA issues.
  extraContainers: ENABLED
  debugToolContainerMemoryLimit: 4Gi
  extraContainersVolumesTpl: |
    - name: debug-tools-dir
      emptyDir:
        medium: Memory
        sizeLimit: {{ .Values.global.debugToolContainerMemoryLimit | quote }}
  extraContainersTpl: |
    - command:
      - /bin/sleep
      - infinity
      image: {{ .Values.global.dockerRegistry }}/ocncc/ocdebug-
tools:<debugtool_version>
      imagePullPolicy: IfNotPresent
      name: {{ printf "%s-tools-%s" (include "getprefix" .) (include
"getsuffix" .) | trunc 63 | trimPrefix "-" | trimSuffix "-" }}
      resources:
        limits:
          ephemeral-storage: "512Mi"
          cpu: "0.5"
          memory: {{ .Values.global.debugToolContainerMemoryLimit | quote }}
        requests:
          ephemeral-storage: "512Mi"
          cpu: "0.5"
          memory: {{ .Values.global.debugToolContainerMemoryLimit | quote }}
      securityContext:
        allowPrivilegeEscalation: true
        capabilities:
          drop:
            - ALL
          add:
            - NET_RAW
            - NET_ADMIN
        #runAsUser: <user-id>
      volumeMounts:

```

```
- mountPath: /tmp/tools
  name: debug-tools-dir
```

To enable debug tools at service level, make changes to `occncc_custom_values_<version>.yaml` file at service level by setting `extraContainers: USE_GLOBAL_VALUE`

`occncc_custom_values_<version>.yaml`

```
cncc-iam:
  kc:
    # Allowed Values: DISABLED, ENABLED, USE_GLOBAL_VALUE
    extraContainers: USE_GLOBAL_VALUE

  ingress-gateway:
    # Allowed Values: DISABLED, ENABLED, USE_GLOBAL_VALUE
    extraContainers: USE_GLOBAL_VALUE

mcncc-core:
  cmservice:
    # Allowed Values: DISABLED, ENABLED, USE_GLOBAL_VALUE
    extraContainers: USE_GLOBAL_VALUE

  ingress-gateway:
    # Allowed Values: DISABLED, ENABLED, USE_GLOBAL_VALUE
    extraContainers: USE_GLOBAL_VALUE

acncc-core:
  ingress-gateway:
    # Allowed Values: DISABLED, ENABLED, USE_GLOBAL_VALUE
    extraContainers: USE_GLOBAL_VALUE
```

Note

Debug Tool Container comes up with the default user ID - 7000. If the operator wants to override this default value, it can be done using the `runAsUser` field, otherwise the field can be skipped.

```
Default value: uid=7000(debugtool) gid=7000(debugtool)
groups=7000(debugtool)
```

To override `runAsUser` add this line under `securityContext` in `extraContainersTpl`

```
runAsUser: <user-id>
```

Configuration Options

Table 3-4 Configuration Options

Parameter	Description
global.extraContainersTpl	Describes the kubernetes container template for the debug-tool.
global.debugToolContainerMemoryLimit	This field describes the memory size (request and limit) and emptyDir volume size for the Debug-tool container.
global.extraContainersTpl.command	String array used for container command.
global.extraContainersTpl.image	Docker image name
global.extraContainersTpl.imagePullPolicy	Image Pull Policy
global.extraContainersTpl.name	Name of the container
global.extraContainersTpl.resources	Compute Resources required by this container
global.extraContainersTpl.resources.limits	Limits describes the maximum amount of compute resources allowed
global.extraContainersTpl.resources.requests	Requests describes the minimum amount of compute resources required
global.extraContainersTpl.resources.limits.cpu	CPU limits
global.extraContainersTpl.resources.limits.memory	Memory limits
global.extraContainersTpl.resources.limits.ephemeral-storage	Ephemeral Storage limits
global.extraContainersTpl.resources.requests.cpu	CPU requests
global.extraContainersTpl.resources.requests.memory	Memory requests
global.extraContainersTpl.resources.requests.ephemeral-storage	Ephemeral Storage requests
global.extraContainersTpl.securityContext	Security options the container should run with.
global.extraContainersTpl.securityContext.allowPrivilegeEscalation	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This boolean directly controls if the no_new_privs flag will be set on the container process
global.extraContainersTpl.securityContext.capabilities	The capabilities to add or drop when running containers. Defaults to the default set of capabilities granted by the container runtime.
global.extraContainersTpl.securityContext.capabilities.drop	Removed capabilities
global.extraContainersTpl.securityContext.capabilities.add	Added capabilities
global.extraContainersTpl.securityContext.runAsUser	The UID to run the entrypoint of the container process.
global.extraContainersTpl.volumeMounts.mountPath	The path where the emptyDir volume has to be mounted inside the container.
global.extraContainersTpl.volumeMounts.name	Name of the emptyDir volume.

Debug Tool Volume Parameters

Table 3-5 Debug Tool Volume Parameters

Parameter	Description
global.extraContainersVolumesTpl	Describes the kubernetes volume template for the debug-tool container
global.extraContainersVolumesTpl.name	Name of the emptyDir volume.
global.extraContainersVolumesTpl.emptyDir.sizeLimit	The size of the emptyDir volume.
global.extraContainersVolumesTpl.emptyDir.medium	Describes where emptyDir volumes are stored.

Debug Tool Usage

Following is the procedure to run Debug Tool:

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

```
$ kubectl get pods -n <k8s namespace>
```

Example:

```
# kubectl get pod -n cncc
```

Sample Output:

NAME	READY	STATUS	RESTARTS
cncc-iam-ingress-gateway-55987f7dc9-x5nt2 147m	2/2	Running	0
cncc-iam-kc-0 147m	2/2	Running	0
cncc-mcore-cmservice-947cf4c89-76vq6 19m	2/2	Running	0
cncc-mcore-ingress-gateway-764f7f5f77-qnr5p 19m	2/2	Running	0

2. Run the following command to enter Debug Tools Container:

```
kubectl exec -it <pod name> -c <debug_container name> -n <namespace> bash
```

Example:

```
kubectl exec -it cncc-mcore-ingress-gateway-599d858867-x9pvz -c tools -n  
cncc bash
```

3. Run the debug tools:

```
bash -4.2$ <debug_tools>
```

Example:

```
bash -4.2$ tcpdump
```

4. Run the following command to copy output files from container to host:

```
$ kubectl cp -c <debug_container name> <pod name>:<file location in container> -n <namespace> <destination location>
```

Example:

```
$ kubectl cp -c tools -n cncc cncc-mcore-ingress-gateway-764f7f5f77-qnr5p:/tmp/capture.pcap /tmp/
```

Steps to Enable Debug Tools Container

Debug tools container can be enabled or disabled for CNCC components by using helm install or helm upgrade command.

CNC Console

Run the following command to enable or disable CNC Console IAM after updating *occncc_custom_values_<version>.yaml* file on a installed setup:

```
$ helm upgrade <release_name> -f ocncnc_custom_values_<version>.yaml <helm-repo> --version <helm_version>
```

Example:

```
$ helm upgrade cncc -f ocncnc_custom_values_25.1.200.yaml ocsfp_helm-repo/cncc --version 25.2.100
```

4

CNC Console Troubleshooting in Non OCI Deployment

This section provides information to troubleshoot the common errors which can be encountered during the installation and upgrade of CNC Console.

4.1 Unable to display the release version of the NF at CNC Console banner

Unable to display the release version of the NF at CNC Console banner

Problem: CNC Console banner displays the release version of CNC Console, but not displaying the release version of the NF.

Solution:

- The “About” section and Application name displayed next to Oracle logo use the `envSystemName` and `envNFVersion` helm fields.
- The value set of `envSystemName` and `envNFVersion` combines to display the Application name (Application name = `envSystemName` + `envNFVersion`).
- CNC Console Core Custom values have `envSystemName` and `envNFVersion` mentioned in it, but these values can be overridden.

4.2 Unable to reach CNC Console Core IP or port directly

Unable to reach CNC Console Core IP or port directly

Problem: Unable to reach CNC Console Core IP or port directly. `redirect_uri` is inserted instead of directly accessing the CNC Console Core.

Solution: As per the design, CNC Console redirects requests to CNC Console IAM for authentication. On successful authentication, CNC Console IAM redirects the user back to CNC Console GUI.

4.3 Admin user created under CNC Console realm is unable to access CNC Console IAM

Admin user created under CNC Console realm is unable to access CNC Console IAM

Problem: The user with ‘Admin’ privileges is unable to access CNC Console IAM.

Solution: Users created under the `Cnc` realm have access only to CNC Console Core and not to CNC Console IAM. To access CNC Console IAM, create the admin user under the `Master` realm.

4.4 CNC Console returns 403 error during NF Configuration

CNC Console returns 403 error during NF Configuration

Problem: CNCConsole returns a 403 Error Code and error *"Forbidden. Data could not be saved"*.

Error Code/Error Message:
403/Forbidden

Solution: Log into CNC Console IAM to check the roles of the user. The user must have <NF>_READ and <NF>_WRITE roles assigned to perform the write operation on any NF through the CNC Console.

4.5 CNC Console returns 500 - Internal Server Error

CNC Console returns 500 - Internal Server Error

Problem: CNC Console returns a 500 Error Code while accessing NF Resource.

Error Code/Error Message:
500/Internal Server Error

Solution: The internal server error occurs when the NF routes are not configured correctly. To resolve this error, ensure that correct routes for each NF are configured during deployment. You can provide routes in either of the IP/FQDN in the Instances section:

```
id: <Instance ID>
type: <NF type>
owner: <ID of cluster owning the Instance>
ip: <IP of NF deployment>
port: <Port of NF deployment>
```

4.6 CNC Console IAM is accessible, but CNC Console Core is not accessible

CNC Console IAM is accessible, but CNC Console Core is not accessible

Problem: CNC Console IAM is accessible, but CNC Console Core is not accessible.

Error Message:

The ID Token contains invalid claims, which is a JWT validation error, indicating that the system clock on your server is off.

Observation: This issue occurs when Ingress Gateway is behind in time and when CNC Console IAM is ahead of time. For example, If IAM (node1) is ahead of time and Ingress Gateway (node2) is 5 minutes behind, the Ingress Gateway invalidates the received token and throws *"The ID Token contains invalid claims: {iat=2020-05-26T08:32:12Z}"* error.

Solution: To resolve the error, you must ensure that the same time is maintained in CNC Console IAM and Ingress Gateway when they run in the same instance or different NTP server instances.

4.7 CNC Console IAM admin password configured through Kubectl secret is not reflected

CNC Console IAM admin password configured through Kubectl secret is not reflected

Problem:

CNC Console IAM admin password change through `cncc-iam-secret` is not working (Example: if configured `cncc-iam-secret`).

Solution: During the first installation, CNC Console IAM reads the password from the `cncc-iam-secret` and stores it in the database. So any further changes to the admin password must be done through the CNC Console IAM GUI.

4.8 Access Error in CNC Console Core GUI

Access Error in CNC Console Core GUI

Problem:

Unable to access CNC Console Core GUI and an “Invalid redirect URI” error occurs.

Observation:

This error occurs when there is a mismatch between the Root URL provided in CNC Console IAM Admin Console and the URI through which you access the CNC Console Core GUI.

For example, In CNC Console IAM, the Root URL is mentioned as `http://cncc-core-ingress-gateway.cncc.svc.cluster.local:30075/` and if you are accessing the CNC Console Core GUI with IP and NodePort, that is, `http://10.75.xx.xx:30075/*` or vice-versa, you get “invalid redirect_uri” error on CNC Console Core GUI.

Solution: To resolve this error, ensure that the Root URL provided in CNC Console IAM and the URI through which you access the CNC Console Core GUI are the same.

4.9 Changing the CNC Console IAM admin password

Changing the CNC Console IAM admin password

Problem:

How to change the CNC Console IAM admin password using the REST API call.

Solution: Refer the following sections in CNC Console User Guide:

- Accessing NF Resources through Curl or Postman
- CNC Console IAM REST APIs

4.10 Unable to access Kibana

Unable to access Kibana

Problem:

Kibana Common Service is not accessible

Solution: To resolve this issue, ensure that you are accessing Kibana through the correct path. The default access path to Kibana is through "/kibana". You can also access Kibana through the URL `<node-ip>:<node-port>/mycne-cluster/kibana`.

4.11 CNC Console installation failure while installing using cnDBTier

CNC Console installation failure while installing using cnDBTier

Problem:

While installing CNC Console using cnDBTier, the `cncc-iam-kc` pod does not come up and goes into a crash state.

Solution: cnDBTier needs additional grants such as "REFERENCES, INDEX" due to the addition of db hook job.

4.12 CNC Console IAM kc pod fails while ASM is enabled

CNC Console IAM kc pod fails while ASM is enabled

Problem:

While ASM is enabled, CNC Console IAM kc pod fails due to Readiness probe failure.

Solution: Check whether annotation "`sidecar.istio.io/rewriteAppHTTPProbers`" is enabled and set to true under '`nonIbStatefulSets`' in `custom_cncc-iam_values.yaml` during CNC Console IAM deployment.

4.13 Unable to Access CNC Console GUI when ASM is Enabled

Unable to Access CNC Console GUI when ASM is Enabled

Problem:

Unable to access CNC Console GUI after installation as `cncc-iam-ingress-gateway` is listening on port 8080 instead of port 8081(ASM enabled).

Solution: After installing CNC Console, the `cncc-iam-ingress-gateway` is listening on port 8080 instead of port 8081 when ASM is enabled. To resolve this issue, configure the parameters in the `custom_cncc-iam_values.yaml` file as follows:

- Annotation: `sidecar.istio.io/rewriteAppHTTPProbers: "\"true\""`
- `serviceMeshCheck: true`
- Annotation: `sidecar.istio.io/inject: "true"`

4.14 CNC Console Core GUI does not get loaded after logging in

CNC Console Core GUI does not get loaded after logging in

Problem

CNC Console Core microservices are up and running but CNC Console Core GUI does not get loaded after logging in.

Solution

CNC Console supports only single pod deployment, check the following configurations (must be set to 1).

```
ingress-gateway:
# Number of Pods must always be available, even during a disruption.
minAvailable: 1
# Min replicas to scale to maintain an average CPU utilization
minReplicas: 1
# Max replicas to scale to maintain an average CPU utilization
maxReplicas: 1
```

① Note

These are preset to 1 and these parameters are not exposed in custom values.

4.15 CNC Console is not supporting ASM with mTLS disabled configuration

CNC Console is not supporting ASM with mTLS disabled configuration

Problem

When service mesh is enabled and mTLS is set either to disabled or to permissive with insecure HTTP connections, CNC Console Core microservice doesn't come up or CNC Console Core GUI takes time to load because some internal CSS or JS calls are still triggered with HTTPs.

Solution

1. Update `serviceMeshHttpsEnabled` to false in `custom-cncc-core_values.yaml` file to allow insecure HTTP connections.

```
#Mandatory: This parameter must be set to "true" when CNC Console is
deployed with the Service Mesh
serviceMeshCheck: true
# If Service Mesh is deployed with TLS/MTLS disabled then set this flag to
false
serviceMeshHttpsEnabled: false
```

2. Add a PeerAuthentication rule stating mTLS is disabled for CNC Console namespace. For example,

```
kubectl apply -n <namespace> -f - <<EOF
apiVersion: security.istio.io/v1beta1
kind: PeerAuthentication
metadata:
  name: cnccpeer
spec:
  mtls:
    mode: DISABLE
EOF
```

```
#####
```

```
# Example with cncc as namespace #
#####
kubectl apply -n cncc -f - <<EOF
apiVersion: security.istio.io/v1beta1
kind: PeerAuthentication
metadata:
  name: cnccpeer
spec:
  mtls:
    mode: DISABLE
EOF
```

4.16 Pods not coming up in an ASM enabled CNC Console deployment in istio injected namespace

Pods not coming up in an ASM enabled CNC Console deployment in istio injected namespace

Problem

CNC Console pods don't come up when sidecar injection is enabled and CNC Console is deployed in CNE, and the following error is seen:

```
job/cncc-iam-pre-install      Error creating: pods "cncc-iam-pre-
install-" is forbidden: PodSecurityPolicy: unable to admit pod:
 [spec.initContainers[0].securityContext.runAsNonRoot: Invalid value: false:
 must be true spec.initContainers[0].securityContext: Invalid value:
 []int64{0}: group 0 must be in the ranges: [{1 65535}]
spec.initContainers[0].securityContext.capabilities.add: Invalid value:
 "NET_ADMIN": capability may not be added
spec.initContainers[0].securityContext.capabilities.add: Invalid value:
 "NET_RAW": capability may not be added
spec.initContainers[0].securityContext.runAsNonRoot: Invalid value: false:
 must be true]
```

Solution

You must bind the ClusterRole "psp:privileged" to the current namespace:

```
kubectl apply -f - <<EOF
apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: "psp:<namespace>:cs-restricted"
  namespace: "<namespace>"
roleRef:
  kind: ClusterRole
  apiGroup: rbac.authorization.k8s.io
  name: "psp:privileged"
subjects:
- kind: Group
  apiGroup: rbac.authorization.k8s.io
```

```
name: "system:serviceaccounts"  
EOF
```

4.17 Failed to allocate IP for CNC Console IAM Ingress Gateway

Failed to allocate IP for CNC Console IAM Ingress Gateway

Problem

Installation of CNC Console IAM is successful but while checking CNC Console IAM service status, unable to assign the external IP for svc `cncc-iam-ingress-gateway` and received the following error: *Warning Allocation Failed 61s (x3 over 8m48s) metallb-controller Failed to allocate IP for "cncc/cncc-iam-ingress-gateway": no available IPs.*

Solution

Check if the annotations are missing from the `cncc-iam-ingress-gateway` service. Add the missing annotations, due to which the dynamic `metalLbIpAllocation` will work properly.

4.18 Unable to Create required tables in CNC Console IAM DB

Unable to Create required tables in CNC Console IAM DB

Problem

Deployment needs two instances of CNC Console where only the first instance is deployed correctly. After installing the second instance of CNC Console in a different namespace, the pod `"cncc-voice-iam-kc-0"` repeatedly crashes

Observation

After analyzing the logs, it was found that during the preinstall checks, the hook pods did not create all the required tables in the DB. For example, in the first instance DB, all tables created, while in the second instance DB, there are only 43 tables created. The `cbDBTier` has a maximum table limit of 512. So, during the deployment of the second instance of CNC Console, the maximum table limit threshold has exceeded, and hence 43 tables were created.

Deployment needs two instances of CNC Console, first instance is deployed correctly.

After the installation of the second `cncc-iam` in a different namespace, the `pod cncc-voice-iam-kc-0` is crashed repeatedly. By analyzing the logs it seems that not all the tables has been created by the hook pods during the pre-install checks. In the first instance db we can see that there are all tables created while in the second instance we can see only 43 tables.

Solution

To resolve this issue, you must either increase the maximum table limit or clean up unwanted databases to bring table count within the threshold limits. For more information about configuring the table limits, see *Oracle Communications Cloud Native Core DBTier Installation and Upgrade Guide*.

Default limits in `ndb`:

`MaxNoOfOrderedIndexes`: 512

`MaxNoOfTables`: 512

`NoOfFragmentLogFiles`: 256

4.19 Resolve CNC Console Validation hook error

Resolve CNC Console Validation hook error

Problem

Validation hook error occurs during CNC Console Core Deployment.

Solution

To resolve this issue, enable Helm Configuration Validation for CNC Console Deployment, applicable for M-CNCC Core and A-CNCC deployment.

Check the *cncc-aco-re-validation-hook* or *cncc-mcore-validation-hook* pod logs for the error codes. Make the required corrections in the *custom-cncc-core_values.yaml* file and reinstall M-CNCC Core or A-CNCC. For more information about validation hook and error details, see "CNC Console Multi Cluster Deployment Helm Configuration Validation" section in *Oracle Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*.

Table 4-1 Validation Hook Error Codes

Error Code	Error Message Format	Error Scenarios	Sample Error Messages
1001	Invalid value. Resource: <Configuration Name>, ID: <ID>, Attribute: <Attribute>. <More Info>	<ul style="list-style-type: none"> Port should be Numeric Scheme should be either HTTP/HTTPS IDs should follow the alphanumeric pattern Max Limit should be satisfied for M-CNCC IAM, A-CNCC and Instance Max Length for Instance Id Max Length for Self Cncc Id CS instance must have one of these CS subtypes <grafana, kibana, jaeger, prometheus, alertmanager> Both ip and fqdn cannot be provided. Unsupported type InvalidConfig multicluster flag should be false in case of single-cluster deployment multicluster flag should be true in case of multi-cluster deployment 	<p>Invalid value. Resource: mCnccIam, ID: Cluster1, Attribute: Port. It should be numeric value.</p> <p>Invalid value. Resource: instance, ID: Cluster3 Cluster3 Cluster3-instance1, Attribute: Scheme. Allowed values are: [http, https].</p> <p>Invalid value. Resource: instance, ID: Cluster1-grafana##\$\$%, Attribute: id. Ids should be alphanumeric with hyphen allowed as special character.</p> <p>The count of mCnccIam exceeded max limit. Allowed Value:x. Actual Value: y</p> <p>Max limit exceeded. Allowed Value:x. Actual Value: y</p> <p>Invalid value. Resource: aCncc, ID: Cluster3, Attribute: N/A. Both ip and fqdn cannot be provided.</p> <p>Invalid value. Resource: isMultiClusterEnabled, ID:,Attribute: False. isMultiClusterEnabled is set as false, only single cluster configuration is allowed.</p> <p>Invalid value. Resource: isMultiClusterEnabled, ID:,Attribute: True. isMultiClusterEnabled is set as true, only multi cluster configuration is allowed.</p>
1002	Duplicate value. Resource: <Configuration Name>, ID: <ID>, Attribute: <Attribute>. <More Info>	<ul style="list-style-type: none"> All A-CNCC IDs must be unique API prefix must be unique for all instances Owner(Cluster) must have unique CS subtype 	Duplicate value(s). Resource: aCncc, ID: [Cluster3], Attribute: id.
1003	Invalid Reference. Resource: <Configuration Name>, ID: <ID>, Attribute: <Attribute>. <More Info>	<ul style="list-style-type: none"> All the Instance owners must be referenced in M-CNCC IAM IDs or A-CNCC IDs M-CNCC IAM IDs and M-CNCC Core IDs must be same 	<p>Invalid Reference. Resource: instance, ID: Cluster5, Attribute: Owner. Not present in mCncc ids or aCncc ids.</p> <p>Invalid Reference. Resource: instance, ID: N/A, Attribute: N/A. M-Cncc Iam ids and M-Cncc Core ids do not match.</p>

Table 4-1 (Cont.) Validation Hook Error Codes

Error Code	Error Message Format	Error Scenarios	Sample Error Messages
1004	Missing value. Resource: <Configuration Name>, ID: <ID>, Attribute: <Attribute>. <More Info>	<ul style="list-style-type: none"> Missing apiPrefix parameter for type CS Either of IP/FQDN should be present 	<p>Missing value. Resource: instance, ID: Cluster4-grafana, Attribute: apiPrefix.</p> <p>Missing value. Resource: instance, ID: Cluster3-PolicyInstance, Attribute: N/A. Either ip or fqdn is required.</p>

4.20 Does CNC Console support Command Line Interface (CLI)

Does CNC Console support Command Line Interface (CLI)

Problem: Can NF APIs integrated with CNC Console be accessed through curl or postman.

Solution The NF configuration APIs can be accessed through CNC Console GUI or directly using postman or curl. CNC Console provides authentication and authorization in both ways. For more information, see "Generating Access Tokens and Accessing NF Resources" section in *Oracle Communications Cloud Native Configuration Console User Guide*.

4.21 Upgrade or Rollback Failure

Upgrade or Rollback Failure

Problem: Upgrade or Rollback Failure

Solution

When CNC Console upgrade or rollback fails, perform the following procedure:

1. Check the pre or post upgrade or rollback hook logs as applicable.
2. If the failure occurs, then check the cause of the failure from the logs by running the following command:

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

3. After detecting the cause of failure, do the following:
 - For upgrade failure:
 - If the cause of upgrade failure is database or network connectivity issue, then resolve the issue and rerun the upgrade command.
 - If the upgrade failure occurs during the postupgrade phase, for example, post upgrade hook failure due to target release pod not moving to ready state, then perform a rollback.
 - For rollback failure: If the cause of rollback failure is database or network connectivity issue, then resolve the issue and rerun the rollback command.
4. If the issue persists, contact [My Oracle Support](#).

4.22 CNC Console Upgrade Results IP in Pending state

CNC Console Upgrade Results IP in Pending state

Problem: CNC Console deployment using static IP is not allocated to the new mcore service during upgrade.

Solution

CNC Console supports the single helm chart deployment for deploying all three components M-CNCC IAM, M-CNCC Core and A-CNCC Core.

Earlier CNC Console IAM and CNC Console Core were deployed independently, now with single helm chart all 3 components can be deployed using single helm install command.

Upgrade from two helm deployments to one helm deployment is supported but one of the helm deployment must be manually deleted.

CNC Console IAM deployment can be upgraded which upgrades M-CNCC IAM and freshly install M-CNCC Core and A-CNCC Core services. User can manually delete CNC Console Core deployment. For more information, see Upgrade and Rollback sections of *Oracle Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*.

In case, if static LoadBalancer IP is used in existing deployment, after the upgrade, new mcore service IP will be shown as pending. IP will be allocated once the existing M-CNCC Core service is uninstalled.

4.23 CNC Console Upgrade Displays Port Already in Use Error

CNC Console Upgrade Displays Port Already in Use Error

Problem: CNC Console deployment using static node port throws *Port already in use error* during upgrade.

Solution

If static port is used in existing deployment, before upgrade, in custom values file port needs to be updated to use another port to avoid port conflict error.

4.24 CNC Console Helm Test Fails

CNC Console Helm Test Fails

Problem: CNC Console helm test fails when there are stale jobs or pods.

Solution

In some cases, Helm RC builds have intermittent issues which blocks auto deletion of jobs.

Ensure stable helm version is installed in your environment.

4.25 CNC Console Helm Test Fails with Service Account Error

CNC Console Helm Test Fails with Service Account Error

Problem: CNC Console helm test fails when there are stale jobs or pods.

CNCC helm test fails with error message "Unauthorized! Configured service account doesn't have access. Service account may have been revoked."

Solution

The time sync between worker nodes is must for helm test to work. Ensure CNE worker nodes time is in sync.

4.26 Unable to integrate LDAP with Console deployed on ASM setup

Problem: While integrating LDAP/LDAPs with CNC console, **Test Connection** is successful but **Test Authentication** fails. Generic error is displayed on screen "Error when trying to connect to LDAP. See server.log for details. LDAP test error "

Solution:

Apply the following yaml. This YAML sets up Kubernetes resources and Istio configurations to facilitate communication with an external LDAP connectivity service from within the cncc namespace. It ensures that internal services can access the external LDAP service using DNS resolution and defines routing and traffic policies specific to Istio.

```
kubectl apply -n cncc -f - <<EOF
apiVersion: v1
kind: Endpoints
metadata:
  name: <Unique ServiceEntry Name for Service>
  namespace: <CNCC-NAMESPACE>
subsets:
- addresses:
  - ip: <Service-public-IP>
  ports:
  - port: <Service-public-PORT>
    protocol: <Service-PROTOCOL>
---
apiVersion: v1
kind: Service
metadata:
  name: <Unique Endpoint Name for Service>-headless
  namespace: <CNCC-NAMESPACE>
spec:
  clusterIP: None
  ports:
  - port: <Service-public-PORT>
    protocol: <Service-PROTOCOL>
    targetPort: <Service-public-PORT>
  sessionAffinity: None
  type: ClusterIP
---
```

```

apiVersion: v1
kind: Service
metadata:
  name: <Unique ServiceEntry Name for Service>
  namespace: <CNCC-NAMESPACE>
spec:
  externalName: <Unique ServiceEntry Name for Service>-headless.<CNCC-
NAMESPACE>.svc.cluster.local
  sessionAffinity: None
  type: ExternalName
---
apiVersion: networking.istio.io/v1alpha3
kind: ServiceEntry
metadata:
  name: <Unique ServiceEntry Name for Service>
  namespace: <CNCC-NAMESPACE>
spec:
  hosts:
  - <Service-public-FQDN>
  ports:
  - number: <Service-public-PORT>
    name: <Service-PORTNAME>
  location: MESH_EXTERNAL
---
apiVersion: networking.istio.io/v1alpha3
kind: DestinationRule
metadata:
  name: <Unique DestinationRule Name for Service>
  namespace: cncc
spec:
  host: <Service-public-FQDN>
  trafficPolicy:
    tls:
      mode: DISABLE
---
EOF

```

Example:

```

kubectl apply -n cncc -f - <<EOF
apiVersion: v1
kind: Endpoints
metadata:
  name: ldap-connectivity-service-headless
  namespace: cncc
subsets:
- addresses:
  - ip: 10.75.212.154
  ports:
  - port: 30763
    protocol: TCP
---
apiVersion: v1
kind: Service
metadata:

```

```
    name: ldap-connectivity-service-headless
    namespace: cncc
spec:
  clusterIP: None
  ports:
  - port: 30763
    protocol: TCP
    targetPort: 30763
  sessionAffinity: None
  type: ClusterIP
---
apiVersion: v1
kind: Service
metadata:
  name: ldap-connectivity-service
  namespace: cncc
spec:
  externalName: ldap-connectivity-service-headless.cncc.svc.cluster.local
  sessionAffinity: None
  type: ExternalName
---
apiVersion: networking.istio.io/v1alpha3
kind: ServiceEntry
metadata:
  name: ldap-external-se
  namespace: cncc
spec:
  hosts:
  - ldap-connectivity-service-headless.cncc.svc.cluster.local
  ports:
  - number: 30763
    name: ldap
    location: MESH_EXTERNAL
---
apiVersion: networking.istio.io/v1alpha3
kind: DestinationRule
metadata:
  name: ldap-external-dr
  namespace: cncc
spec:
  host: ldap-connectivity-service-headless.cncc.svc.cluster.local
  trafficPolicy:
    tls:
      mode: DISABLE
---
EOF
```

Once the yaml file is applied, LDAP Server can be integrated.

While setting up User Federation with CNCC IAM, when providing your company LDAP server details, connection URL needs to be configured using `ldap-connectivity-service`.

Example: `ldap://ldap-connectivity-service:30362`

4.27 CNC Console IAM GUI gives an error while accessing some resources under master realm

CNC Console IAM GUI gives an error while accessing some resources under master realm.

Problem:

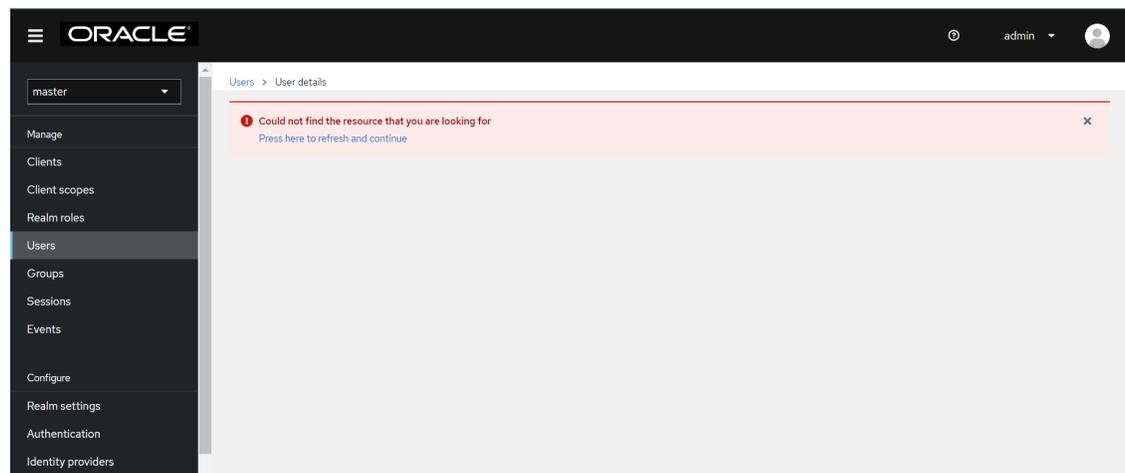
CNC Console IAM GUI throws the following error when some resources are accessed under the master realm:

"Error: Could not find the resource that you are looking for. Press here to refresh and continue."

Solution:

Some resources (APIs) are blocked under the "master realm" or "cncc realm" because of security reasons. This restricts the user from making any configuration changes. These resources are not applicable for Console. So, whenever the user tries to access blocked resources(APIs), the admin user always gets the error message asking the user to refresh and continue. It is expected behavior. Also note that CNC Console IAM is enabled with a single admin user. All admin operations must be carried out by the same admin user.

Figure 4-1 Unable to Find Resource Error



4.28 Unable to login to CNC Console Core when TLS version is v1.2 and Ciphers Other Than That of TLSv1.2 are Provided

Problem: CNC Console user is unable to log into CNC Console GUI.

After the user enters the username and password, the 503-service unavailable error is displayed on GUI. In Pod logs "The specified CipherSuites array contains invalid null or empty string elements" exception is seen.

The following conditions should occur for the issue to be observed:

1. IAM service is HTTPS.
2. M-CNCC Core or A-CNCC service has the TLS version set to TLSv1.2.
3. M-CNCC Core or A-CNCC service has ciphers other than that of TLSv1.2.

Solution: The user should specify the cipher suites applicable to the corresponding TLS version. Cipher Suites can be specified in custom values using `mcncc-core.ingress-gateway.cipherSuites` or `acncc-core.ingress-gateway.cipherSuites`.

For more information, see *Oracle communications, Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*.

4.29 Database Connectivity Failure When Instance Level Access Control is Enabled

Problem: The operator faces database connectivity failure with the CNC Console IAM hook when the instance level access control feature is enabled.

Solution: When the connectivity is established again, operator must delete the `INSTANCE_ALL` role manually from the UI and run the installation for the CNC Console IAM hooks again to assign the `INSTANCE_ALL` role to the existing users.

4.30 403 Forbidden Error when Accessing NF or CS Resources With Instance Level Access Control Enabled

Problem: A user with some required permissions encounters the 403 forbidden error when they try to access any NF or CS resources.

Solution: Check the `acore-ingress-gateway` pod logs to identify the missing permissions for the user.

4.31 Recovery of Admin Account in CNCC IAM

Problem: In CNCC IAM, if only one admin user is created and it gets locked out, and there is no alternative account available to regain access or manage the system.

Solution: There are two ways to unlock the current admin user.

Solution 1: Create a new admin user

1. In the `ocncc_custom_values_<version>.yaml` file used for the current deployment, update the `global.iamUserNamefield` parameter to create a new admin user. For example, change it from `&iamUserName admin (existing)` to `&iamUserName admin2`. If password policies are enabled in CNCC IAM, ensure that new password adheres to the guidelines configured in CNCC IAM. For more details about the password policies, refer 'Password Policies for CNC Console Users' section in *Oracle Communications Cloud Native Configuration Console User Guide*.

- a. Run the following command to delete the existing `cncc-iam-secret`:

```
$ kubectl delete secret cncc-iam-secret -n <namespace>
```

- b. Run the following command to recreate the secret with a password that complies with the guidelines:

```
$ kubectl create secret generic <secret-name> --from-  
literal=iamAdminPasswordKey='<password>' --namespace <namespace>
```

Example:

```
$ kubectl create secret generic cncc-iam-secret --from-  
literal=iamAdminPasswordKey='xxxxxxxxx' --namespace cncc
```

2. Run the following Helm upgrade command to upgrade the deployment by using the updated yaml files:

```
helm upgrade <cncc_iam_release_name> <helm_chart> -f  
<occncc_custom_values_<version>.yaml> -n <namespace>
```

For more details about the Helm upgrade, refer 'Upgrading CNC Console' section in the *Oracle ® Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*.

3. After completing the upgrade, log in to CNCC IAM using the updated admin credentials. Once logged in, navigate to the **Users** section under the default realm to update the password for the old admin account if necessary.

For more details about update the admin user password, refer 'Creating or Updating Admin Password in CNC Console IAM' section in the *Oracle ® Communications Cloud Native Configuration Console User Guide*.

The above steps ensure you regain access to CNCC IAM by creating a new user and then resetting an existing admin user.

Solution 2: Reset the Password of the Existing Admin User

To reset the password of the existing user, do the following:

1. Run the following command to get into the mysql pod:

```
kubectl exec -it <mysql pod name> -n <namespace> bash
```

2. Run the following command to login into the mysql pod:

```
mysql -h 127.0.0.1 -u <username> -p<password>
```

3. Run the following command to use the database which you used to deploy cncc application:

```
use <database name>;
```

4. Run the following command to find the admin user id from the USER_ENTITY table:

```
select * from USER_ENTITY;
```

5. Run the following command to delete the entry from CREDENTIAL TABLE:

```
delete from CREDENTIAL where user_id = '<user-id>'
```

6. Run the following command to delete the row from USER_ROLE_MAPPING table with user id as admin user id:

```
delete from USER_ROLE_MAPPING where user_id = '<user-id>;'
```

7. Run the following command to delete the row from USER_ENTITY table with user id as admin user id:

```
delete from USER_ENTITY where ID = '<user-id>;'
```

8. If password policies are enabled in CNCC IAM, ensure that new password adheres to the guidelines configured in CNCC IAM. For more details about the password policies, refer 'Password Policies for CNCC Users' section in the *Oracle Communications Cloud Native Configuration Console User Guide*.

- a. Run the following command to delete the existing `cncc-iam-secret`.

```
$ kubectl delete secret cncc-iam-secret -n <namespace>
```

- b. Run the following command to recreate it with a password that complies with the guidelines:

```
$ kubectl create secret generic <secret-name> --from-literal=iamAdminPasswordKey='<password>' --namespace <namespace>
```

Example:

```
$ kubectl create secret generic cncc-iam-secret --from-literal=iamAdminPasswordKey='xxxxxxxxx' --namespace cncc
```

- c. Run the following command to restart the CNCC-IAM-KC-0 pod and login to iam using the password given in `cncc-iam` secret:

```
Kubectl delete po <IAM-KC Pod> -n <namespace>
```

Note

If the password is not compliant with configured password policies, user will get an error while login to CNCC IAM.

4.32 Pods Enter the CreateContainerConfigError State

Problem: The pods enter the `CreateContainerConfigError` state.

Solution: Do the following to debug the issue. Check the secrets (`cncc-iam-secret` and `cncc-db-secret`), and recreate them if required:

- The pods may go into `CreateContainerConfigError` state if the secrets are not configured correctly or if they are not present. The following error will be displayed:

```
cncc-iam-kc-0          1/2      CreateContainerConfigError
```

- Run the following command to check the pod description:

```
kubectl describe po <pod-name> -n <namespace>
```

Sample Error Output:

```
Warning Failed      3s (x10 over 96s) kubelet      Error: secret "cncc-iam-secret" not found
```

- Create the secret if its missing or recreate the secret if its not configured correctly, based on the displayed error.
- Install the CNC Console again, the pods must be up and running now.

4.33 Login Error When Accessing CNC Console IAM or CNC Console Core

Problem: CNC Console IAM or CNC Console Core is inaccessible, and the browser displays the "Cookie not found. Please make sure cookies are enabled in your browser." error. This issue typically occurs when the CNC Console is rolled back to a previous version.

Figure 4-2 Login Error



Solution: Close the current browser window and open a new browser window to access CNC Console IAM or CNC Console Core GUI.

4.34 Unable to Access CNC Console Through FQDN

Problem: When setting up CNC Console with FQDN, we usually map load balancer IPs to FQDN. However, sometimes the deployment is accessible through IP but not with FQDN.

Solution: The issue may be related to how the FQDN is being resolved in the user's environment. It could either be because of DNS or Network settings, or how the browser handles the URL.

Perform the following steps as a potential workaround:

1. Update the `/etc/hosts` file by adding an entry mapping the hostname `K8s_SVC_NAME` to the appropriate IP address instead of using the full FQDN.
2. Modify the CNC Console `custom values.yaml` file by updating the hostname reference from full FQDN to `K8s_SVC_NAME`.
3. Redeploy or upgrade the CNC Console deployment.

4.35 Ingress Gateway Pods go Into CrashLoopBackOff

Problem: During the CNC Console upgrade process, the upgrade completes without errors, but the pods encounter an issue and enter a `CrashLoopBackOff` state, preventing them from functioning properly.

Solution: Check if you are using an older Kubernetes/Go version. When deploying the CNC Console on an older Kubernetes/Go version, such as `v1.23.10/go1.17.13`, you must modify the CNC Console custom values file by removing `ec_point_formats` from both `clientDisabledExtensions` and `serverDisabledExtensions` to prevent deployment failures related to version compatibility.

4.36 IAM Hook Pod Logs Reports the "Table Count Mismatch for dbName='\${dbName}'" Error

Problem: When you run the CNC Console installation or upgrade, you see error messages in the pod logs. IAM Hook Pod logs are displaying the following custom error messages that indicate a table count mismatch in one or more CNC Console databases:

```
[VERIFY-TABLE-COUNT] Database '${dbName}' contains '${ActualTableCount}'  
tables (required='${RequiredTableCount}').  
[VERIFY-TABLE-COUNT] Table count mismatch for dbName='${dbName}': present='${  
{ActualTableCount}', required='${RequiredTableCount}'
```

Where,

- `${dbName}` is the name of your CNC Console Database
- `${version}` is the CNC Console version
- `${ActualTableCount}` is the number of tables currently in the database
- `${RequiredTableCount}` is the expected number of tables that should be present in the database

For example,

```
[VERIFY-TABLE-COUNT] Database 'cnccdb' contains 88 tables (required=87).  
[VERIFY-TABLE-COUNT] Table count mismatch for dbName='cnccdb': present=88,  
required=87
```

Solution: This error may have been caused by

- SQL script failures like driver errors, syntax errors, or timeouts.
- Insufficient user privileges to create schemas or tables.
- Interrupted installation or upgrade preventing the full schema from being applied.
- Outdated cnDBTier settings that do not match the current CNC Console MaxLimits recommendations described in the "cnDBTier Profiles" section in *Oracle Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*.

To resolve this,

- If this error is caused by outdated cnDBTier max limits, perform an in-solution upgrade of cnDBTier using the updated values.
- If this is caused by any other reason, do not restart the installation or upgrade process, or perform a rollback. Contact [My Oracle Support](#) for further analysis. When reaching out, be sure to collect and submit:
 - Complete hook job logs
 - The CNC Console Custom Values file

4.37 IAM Hook Pod Logs Report "Unexpected error during SQL script execution: Communications link failure." Error

Problem

When you run the CNC Console installation or upgrade, you see error messages in the pod logs. The messages look like this:

```
[CREATE-SCHEMAS] Schema creation failed for dbName:version = '${dbName}:${  
{version}']'.  
Reason: [RUN-SQL-SCRIPT] Unexpected error during SQL script execution:  
Communications link failure.  
The driver has not received any packets from the server.
```

Where,

- `${dbName}` is the name of your CNC Console database.
- `${version}` is the CNC Console version.

For example,

```
[PRE-UPGRADE] Error during pre-upgarde process: [CREATE-SCHEMAS] Schema  
creation failed for dbName:version = 'cnccdb_tmp:25.1.200'. Reason: [RUN-SQL-  
SCRIPT] Unexpected error during SQL script execution: Communications link  
failure\n\nThe last packet sent successfully to the server was 0 milliseconds  
ago. The driver has not received any packets from the server..
```

Solution

You may have encountered this issue because

- the connection to the MySQL database is not working. This may be due to the hostname being wrong, the port being closed, the host being unreachable, firewall settings, or problems with the DNS lookup.
- there may have been a network interruption during the schema creation.

Perform the following procedure to resolve this issue:

1. Check that you can connect to the database from where you are running the CNC Console process.
2. Make sure the MySQL server hostname and port are correct and the server is accessible.
3. Restart the CNC Console installation or upgrade process.

If the problem continues, contact [My Oracle Support](#) for help. When you contact them, collect and share:

- The full hook job logs
- The CNC Console Custom Values file

4.38 IAM Hook Pod Logs Report "SQLException for query='\${SQL_QUERY}'. Error Message: \${SQL_ERROR}. " Error

When you run the CNC Console installation or upgrade, you see an error in the pod logs. The logs show a message similar to:

```
[PRE-UPGRADE] Error during pre-upgrade process: [CREATE-SCHEMAS] Schema
creation failed for
      dbName:version = '${dbName}:${version}'. Reason: [RUN-SQL-SCRIPT]
SQLException for
      query='${SQL_QUERY}'. Error Message: ${SQL_ERROR}.
```

Where,

- `${dbName}` is the name of your CNC Console database.
- `${version}` is the CNC Console version.

For example:

```
[PRE-UPGRADE] Error during pre-upgarde process: [CREATE-SCHEMAS] Schema
creation failed for
      dbName:version = 'cnccdb_tmp'. Reason: [RUN-SQL-SCRIPT] SQLException
for
      query='CREATE TABLE IF NOT - EXISTS KEYCLOAK_DML_TABLE (\n ID
varchar(36) NOT NULL,\n NAME
      varchar(36) NOT NULL,\n PRIMARY KEY ID)\n) ENGINE=ndbcluster DEFAULT
CHARSET=latin1'. Error
      Message: You have an error in your SQL syntax
```

Solution

You may encounter this error if

- The SQL script could not run because of driver errors, issues with the SQL syntax, or timeouts.
- The user running the script may not have enough privileges to create schemas or tables.
- The upgrade or installation may have been interrupted, which could leave the schema only partly applied.

To resolve this issue,

- Do not restart the installation, upgrade process, or perform a rollback.
- Contact [My Oracle Support](#) for help.

When you contact [My Oracle Support](#), be sure to collect and provide the following:

- The complete hook job logs.
- The CNC Console Custom Values file used.

4.39 Tracing Deleted Usernames in CNC Console When Only UUIDs Are Logged

Problem:

When a user is deleted through the M-CNCC IAM UI, the IAM system logs (kc-0 and iam-ingressgateway pods) record only the user's UUID, not the username. This makes it difficult to determine which user account was deleted.

Solution:

Extract the Deleted User's UUID

In the IAM deletion log entry generated by the M-CNCC IAM pod logs:

- The `userId` field shows the UUID of the user who performed the delete action.
- The `resourcePath` field contains the UUID of the user who was deleted.

Copy the UUID from the `resourcePath` field and use in one of these options:

Option 1 — Search Core UI Logs for Earlier Activity

1. Search the M-CNCC or A-CNCC Core Ingress Gateway logs for the extracted UUID.
2. The Core Ingress Gateway logs record both the username and the UUID, allowing you to match the UUID to the corresponding username.

Option 2 — Query Prometheus Metrics

1. Use the extracted UUID to query Prometheus metrics collected by the M-CNCC Core Ingress Gateway pod or A-CNCC Core Ingress Gateway pod.
2. Run the following query on the log:

```
oc_ingressgateway_http_requests_total{namespace="<namespace>",  
UserId="<user-uuid>"}
```

Replace `<namespace>` with the target namespace (for example, `cncc`) and `<user-uuid>` with the UUID found in the deletion log.

3. Review the metrics results, which include mappings of usernames to UUIDs from previous activity.

If you use historical logs or metric data where both the username and UUID were previously recorded, you can find the username associated with a deleted UUID.

5

CNC Console Troubleshooting in OCI Deployment

This section provides information to troubleshoot the common errors which can be encountered when CNC Console is deployed in OCI.

5.1 CNC Console Deployment pods are not coming up

CNC Console Deployment pods are not coming up

This error can arise due to the following problems -

Problem 1: *CreateContainerConfigError* is observed in *acore-ingress-gateway* and *mcore-ingress-gateway* pods.

Solution: Cross check if **oci-iam-secret** is created or not. If not, create the secret properly as mentioned in *Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*.

Problem 2: *mcore-ingress-gateway* pods is going to *CrashLoopBackOff* state.

Solution: Please check the `ocncc_custom_values.yaml` file for the following -

1. Incorrect domain URL is provided in **global.mCncclams.fqdn** section of Instance configuration. This field should contain the URL of OCI Domain used to deploy CNC Console.

```
mCncclams:  
  - id: Cluster1  
    fqdn: idcs-37e739602b574bb6848c8cd96640f11d.identity.oraclecloud.com  
    scheme: https
```

2. Scheme is missing in Instance Configuration of **global.mCncclams.scheme** User should provide **HTTPS** scheme.

Problem 3: *ImagePullBackOff* Error coming up for CNC Console Deployment pods.

Solution: All the image repositories must be public. Run the following steps to make all image repositories public:

1. Go to **OCI Console** → **Developer Services** → **Containers & Artifacts** → **Container Registry**.
2. Select the compartment.
3. In the **Repositories** and **Images Search** option, the images will be listed. Select each image and change to **Public**. This step must be performed for all the images sequentially.

Problem 4: A *CreateContainerConfigError* is seen in *cncc-mcore-validationhook*.

Solution: Verify that the `oci-iam-admin-secret` has been created. If not, create the secret by following the procedure described in the *Oracle Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*.

5.2 CNC Console Core GUI is not loading

CNC Console Core GUI is not loading

Problem: Unable to access CNC Console Core GUI, getting "Invalid credentials" Error

This error can arise due to the following incorrect configurations -

- Incorrect Configuration 1: When **oci-iam-secret** is incorrect.
Solution: Please make sure to create the secret properly as described in the *Oracle Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*.
- Incorrect Configuration 2: Incorrect **Issuer URL** is provided in OAuth settings of OCI IAM domain
Solution: Follow the below steps to correct the Issuer URL in OAuth settings:
 1. Open the navigation menu and click **Identity & Security**. Under **Identity**, click **Domains**. Select the identity domain where CNC Console is deployed.
 2. Navigate to Security → OAuth
 3. Update the issuer URL with correct value (If the OCI IAM domain URL is with default port 80/443, make sure to remove the port from the domain URL while updating the **Issuer** field and it should match with what is provided in the **global.mCncclams.fqdn** section of `occncc_custom_values.yaml`).

5.3 Getting invalid redirect uri error while accessing CNC Console Core

Getting 'invalid redirect uri error' while accessing CNC Console Core

Problem: Getting the below error while accessing to CNC Console Core

```
{"error": "invalid_redirect_uri", "error_description": "Client c2151db267684a8fa15bcd19d56cd2a3 requested an invalid redirect URL: https://100.xx.xx.xx/login/oauth2/code/cncc-iam. ECID: OZjBv13L9000000000" }
```

Solution:

This problem is observed when incorrect redirect-uri is configured in the OAuth configuration of Integrated Application . Please follow the below steps -

1. Open the navigation menu and click **Identity & Security**. Under **Identity**, click **Domains**. Select the identity domain where CNC Console is deployed.
2. Click on **Integrated Applications**
3. Click on the Integrated Application that you want to modify. (Ex: **cncc-iam**)
4. Click **Edit OAuth Configuration**
5. Scroll down to find Redirect URL
6. Make sure to update the correct Redirect URL as per *Oracle Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*.

5.4 LDAP Integration Issues

LDAP Integration Issues

Problem 1: Not Able to find Delegate Authentication option.

Solution: Check for Type of Domain, it should be Premium for Delegate Authentication.

Problem 2: Not Able to find The Active Directory's (AD) Organization Unit (OU) for user and group in Oracle Cloud Infrastructure IAM (OCI IAM) Console.

Solution:

1. Check for the Organizational Unit in Active Directory.
2. If Organizational Unit is present in Active Directory.
3. Refresh the web Browser.

Problem 3: Not Able to Authenticate User using Active Directory user's password

Solution:

1. Make sure **Enable local authentication** is Enabled in **Authentication Settings** of OCI IAM.
2. Provide the required permission to Active Directory administrator. For more information see, the *Oracle Cloud Infrastructure Documentation*.

5.5 Issues in SAML Authentication

Issues in SAML Authentication

Problem: Logging in using SAML SSO throws following error: *No user was returned during the SAML assertion to user mapping for partner SSO*

Solution: In this case, recheck the SAML JIT configuration done in the **IDP** section of OCI IAM.

1. In the **Map User Attributes** section, check if the proper mapping is done between the IDP and Identity domain attributes.
2. If any of the IDP attribute mapped under this section is missing in SAML Assertion coming from IDP, then the authentication will fail.

5.6 CNC Console Access when private LoadBalancer IP is assigned

CNC Console Access when private LoadBalancer IP is assigned

Problem: CNC Console GUIs cannot be accessed when private LoadBalancer IP is assigned using the annotation `oci-network-load-balancer.oraclecloud.com/internal: "true"`

Solution: Access the CNC Console GUI via tunneling.

You can use any online emulator available for tunneling or you can follow the below steps mentioned

1. Run the following command for tunnelling using ssh command

```
ssh -v -f -N -i <id_rsa_private_key> -o StrictHostKeyChecking=no -o ProxyCommand="ssh -i <id_rsa_private_key> -o StrictHostKeyChecking=no -W %h:%p <user>@<bastion_ip>" <user>@<operator_instance_ip> -L <local_port>:<worker_node_ip>:<loadbalancer_service_port> -o ServerAliveInterval=60 -o ServerAliveCountMax=300
```

Example:

```
ssh -v -f -N -i id_rsa -o StrictHostKeyChecking=no -o ProxyCommand="ssh -i id_rsa -o StrictHostKeyChecking=no -W %h:%p opc@10.xx.xx.xx" opc@10.xx.xx.xx -L 443:10.xx.xx.xx:31152 -o ServerAliveInterval=60 -o ServerAliveCountMax=300
```

where each attributes are

Table 5-1 Tunnelling Attributes

Attribute	Description
<id_rsa_private_key>	Specifies the private key to connect to the Bastion host.
<user>	username to connect to Bastion and Operator instances
<bastion_ip>	IP of the bastion host
<operator_instance_ip>	IP of the Operator instance
<worker_node_ip>	IP of the Worker node where CNC Console Application is installed
<local_port>	The port on your local machine where the browser is installed that requires forwarding from a remote host.
<loadbalancer_service_port>	Load Balancer service port of CNC Console, that is, M-CNCC Core ingress-gateway service

2. Open the /etc/hosts file.

For Mac

- a. Open the Terminal application on your Mac computer.
- b. Access the /etc/ hosts folder using a text editor (sudo user).

For Windows

- a. Press the Windows key.
- b. Type Notepad in the search field.
- c. In the search results, right-click Notepad and select Run as administrator.
- d. From Notepad, open the following file: c:\Windows\System32\Drivers\etc\hosts

3. Add following entries under /etc/hosts file

For M-CNCC Core

```
127.0.0.1 <cncc_release_name>-mcore-ingress-
```

```
gateway.<cnc namespace>.svc.<cluster_domain>
```

Example:

```
127.0.0.1 cnc-mcore-ingress-gateway.cnc.svc.cluster.local
```

4. Access the CNC Console GUI using the above configured FQDN.

5.7 OCI IAM Connectivity Failure when Instance Level Access Control is Enabled

Problem: The operator faces database connectivity failure with the validation hook when the instance level access control feature is enabled.

Solution: When the connectivity is established again, operator must delete the INSTANCE_ALL role manually from the UI and run the installation for the validation hooks again to assign the INSTANCE_ALL role to the existing users.

5.8 403 Forbidden Error when Accessing NF Resources With Instance Level Access Control Enabled

Problem: A user with some required permissions encounters the 403 forbidden error when they try to access any NF resources.

Solution: Check the acore-ingress-gateway pod logs to identify the missing permissions for the user.

6

CNC Console Alerts

This section provides information about CNC Console Alerts.

Note

- The user must use updated `occncc_agent_alertrules_<version>.yaml` file for agent cluster, in case of multicluster deployment.
- Use `occncc_manager_alertrules_<version>.yaml` file for single cluster deployment and in the manager cluster, in case of multi cluster deployment.

Table 6-1 Alerts Levels or Severity Types

Alerts Levels / Severity Types	Definition
Critical	Indicates a severe issue that poses a significant risk to safety, security, or operational integrity. It requires immediate response to address the situation and prevent serious consequences. Raised for conditions may affect the service of OCCM.
Major	Indicates a more significant issue that has an impact on operations or poses a moderate risk. It requires prompt attention and action to mitigate potential escalation. Raised for conditions may affect the service of OCCM.
Minor	Indicates a situation that is low in severity and does not pose an immediate risk to safety, security, or operations. It requires attention but does not demand urgent action. Raised for conditions may affect the service of OCCM.
Info or Warn (Informational)	Provides general information or updates that are not related to immediate risks or actions. These alerts are for awareness and do not typically require any specific response. WARN and INFO alerts may not impact the service of OCCM.

6.1 CNC Console IAM Alerts

This section provides information about CNC Console IAM Alerts.

6.1.1 CncclamTotalIngressTrafficRateAboveMinorThreshold

Table 6-2 CncclamTotalIngressTrafficRateAboveMinorThreshold

Field	Details
Description	This alert notifies that CNCC IAM Ingress Message rate has crossed the configured minor threshold of 700 to 800 TPS.
Summary	namespace: <code>{{ \$labels.namespace }}</code> , podname: <code>{{ \$labels.pod }}</code> , timestamp: <code>{{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}</code> : Traffic Rate is above 70 Percent of Max requests per second(1000)
Severity	minor

Table 6-2 (Cont.) CncclamTotalIngressTrafficRateAboveMinorThreshold

Field	Details
Condition	sum by(namespace,pod) (rate(oc_ingressgateway_http_requests_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns"}[2m])) >= 700 < 800
OID	1.3.6.1.4.1.323.5.3.51.1.2.7001
Metric Used	oc_ingressgateway_http_requests_total
Recommended Actions	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNC Console IAM Ingress receives more traffic than expected. The traffic is primarily authentication, authorization, or user management requests. For example, an Integrated NF or a common service may be sending an unusually high volume of such requests. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor ingress traffic to the pod using the KPI Dashboard. Review iam-ingress pod logs for any irregularities or anomalies, especially spikes in authentication, authorization, or user management operations. <p>Recovery:</p> <p>The alert is cleared automatically when ingress traffic drops below the minor threshold or exceeds the major threshold.</p> <p>If the alert does not clear:</p> <ul style="list-style-type: none"> Check if an Integrated NF or a common service is generating unexpectedly high volumes of authentication, authorization, or user management requests. Analyze logs and metrics for unusual traffic patterns. Take action to block or limit any unauthorized or unexpected traffic if necessary. <p>For any assistance, contact My Oracle Support.</p> <p>Make sure to capture iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.2 CncclamTotalIngressTrafficRateAboveMajorThreshold

Table 6-3 CncclamTotalIngressTrafficRateAboveMajorThreshold

Field	Details
Description	This alert notifies that the CNCC IAM Ingress message rate has crossed the configured major threshold of 800 to 900 TPS.

Table 6-3 (Cont.) CncclamTotalIngressTrafficRateAboveMajorThreshold

Field	Details
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}: Traffic Rate is above 80 Percent of Max requests per second(1000)
Severity	major
Condition	sum by(namespace,pod) (rate(oc_ingressgateway_http_requests_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns"}[2m])) >= 800 < 900
OID	1.3.6.1.4.1.323.5.3.51.1.2.7001
Metric Used	oc_ingressgateway_http_requests_total
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNC Console IAM Ingress receives more traffic than expected. The traffic primarily consists of authentication, authorization, or user management requests. For example, an integrated NF or a common service may be sending an unusually high volume of such requests. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor ingress traffic to the pod using the KPI Dashboard. Review the iam-ingress pod logs for any irregularities or anomalies, especially spikes in authentication, authorization, or user management operations. <p>Recovery:The alert clears automatically when ingress traffic drops below the major threshold or exceeds the critical threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if an integrated NF or a common service is generating unexpectedly high volumes of authentication, authorization, or user management requests. Analyze logs and metrics for unusual traffic patterns. Take action to block or limit any unauthorized or unexpected traffic, if necessary. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.3 CncclamTotalIngressTrafficRateAboveCriticalThreshold

Table 6-4 CncclamTotalIngressTrafficRateAboveCriticalThreshold

Field	Details
Description	This alert notifies that the CNCC IAM Ingress message rate has crossed the configured critical threshold of 900 TPS.
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}: Traffic Rate is above 90 Percent of Max requests per second(1000)
Severity	critical
Condition	sum by(namespace,pod) (rate(oc_ingressgateway_http_requests_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncclam-ns"}[2m])) >= 900
OID	1.3.6.1.4.1.323.5.3.51.1.2.7001
Metric Used	oc_ingressgateway_http_requests_total
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNC Console IAM Ingress receives more traffic than expected. The traffic primarily consists of authentication, authorization, or user management requests. For example, an integrated NF or a common service may be sending an unusually high volume of such requests. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor ingress traffic to the pod using the KPI Dashboard. Review the iam-ingress pod logs for any irregularities or anomalies, especially spikes in authentication, authorization, or user management operations. <p>Recovery:The alert clears automatically when ingress traffic drops below the critical threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if an integrated NF or a common service is generating unexpectedly high volumes of authentication, authorization, or user management requests. Analyze logs and metrics for unusual traffic patterns. Take action to block or limit any unauthorized or unexpected traffic, if necessary. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.4 CncclamMemoryUsageCrossedMinorThreshold

Table 6-5 CncclamMemoryUsageCrossedMinorThreshold

Field	Details
Description	This alert notifies that the CNCC IAM Ingress pod has reached the configured minor threshold (70%) of its memory resource limits.
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }} : Memory Usage of pod exceeded 70% of its limit.
Severity	minor
Condition	sum by(namespace,pod) (container_memory_usage_bytes{container!="", namespace="cncc-ns", pod=~".*iam-ingress-gateway.* .*iam-kc.*"}) / sum by(namespace, pod) (kube_pod_container_resource_limits{namespace="cncc-ns",pod=~".*iam-ingress-gateway.* .*iam-kc.*",resource="memory"}) * 100 >= 70 < 80
OID	1.3.6.1.4.1.323.5.3.51.1.2.7002
Metric Used	container_memory_usage_bytes kube_pod_container_resource_limits Note: This is a Kubernetes metric used for instance availability monitoring. If the metric is not available, use a similar metric as exposed by the monitoring system.

Table 6-5 (Cont.) CncclamMemoryUsageCrossedMinorThreshold

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNC Console IAM Ingress pod's memory usage reaches the configured minor threshold (70%) of its resource limits. Higher memory consumption can result from increased authentication, authorization, or user management requests. For example, if an integrated NF or a common service is generating more traffic than expected. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor memory usage metrics (container_memory_usage_bytes and kube_pod_container_resource_limits) using the KPI Dashboard. Review the iam-ingress pod logs for any irregularities, spikes in memory usage, or high volumes of authentication, authorization, or user management activity. <p>Recovery: The alert clears automatically when memory utilization drops below the minor threshold or exceeds the major threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if an integrated NF or a common service is causing consistently high levels of authentication, authorization, or user management requests, leading to increased memory usage. Analyze logs and metrics to identify and address the source. Take steps to optimize usage or resolve issues as needed. Also, double-check the resource limits and requests configuration to ensure it is aligned with CNC Console recommendations. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.5 CncclamMemoryUsageCrossedMajorThreshold

Table 6-6 CncclamMemoryUsageCrossedMajorThreshold

Field	Details
Description	This alert notifies that the CNC Console IAM Ingress pod has reached the configured major threshold (80%) of its memory resource limits.
Summary	namespace: {{ \$labels.namespace }}, podname: {{ \$labels.pod }}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }} {{ end }} : Memory Usage of pod exceeded 80% of its limit.

Table 6-6 (Cont.) CncclamMemoryUsageCrossedMajorThreshold

Field	Details
Severity	major
Condition	sum by(namespace,pod) (container_memory_usage_bytes{container!="", namespace="cncclam", pod=~".*iam-ingress- gateway.*.*iam-kc.*"}) / sum by(namespace, pod) (kube_pod_container_resource_limits{namespace ="cncclam",pod=~".*iam-ingress-gateway.*.*iam- kc.*",resource="memory"}) * 100 >= 80 < 90
OID	1.3.6.1.4.1.323.5.3.51.1.2.7002
Metric Used	container_memory_usage_bytes kube_pod_container_resource_limits Note: This is a Kubernetes metric used for instance availability monitoring. If the metric is not available, use a similar metric as exposed by the monitoring system.
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNC Console IAM Ingress pod's memory usage reaches the configured major threshold (80%) of its resource limits. Higher memory consumption can result from increased authentication, authorization, or user management requests. For example, if an integrated NF or a common service is generating more traffic than expected. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor memory usage metrics (container_memory_usage_bytes and kube_pod_container_resource_limits) using the KPI Dashboard. Review the iam-ingress pod logs for any irregularities, spikes in memory usage, or high volumes of authentication, authorization, or user management activity. <p>Recovery: The alert clears automatically when memory utilization drops below the major threshold or exceeds the critical threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if an integrated NF or a common service is causing consistently high levels of authentication, authorization, or user management requests, leading to increased memory usage. Analyze logs and metrics to identify and address the source. Take steps to optimize usage or resolve issues as needed. Also, double-check the resource limits and requests configuration to ensure it is aligned with CNC Console recommendations. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.6 CncclamMemoryUsageCrossedCriticalThreshold

Table 6-7 CncclamMemoryUsageCrossedCriticalThreshold

Field	Details
Description	This alert notifies that the CNC Console IAM Ingress pod has reached the configured critical threshold (90%) of its memory resource limits.
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }} : Memory Usage of pod exceeded 90% of its limit.
Severity	critical
Condition	sum by(namespace,pod) (container_memory_usage_bytes{container!="", namespace="cncc-ns", pod=~".*iam-ingress-gateway.* .*iam-kc.*"}) / sum by(namespace, pod) (kube_pod_container_resource_limits{namespace="cncc-ns",pod=~".*iam-ingress-gateway.* .*iam-kc.*",resource="memory"}) * 100 >= 90
OID	1.3.6.1.4.1.323.5.3.51.1.2.7002
Metric Used	container_memory_usage_bytes kube_pod_container_resource_limits Note: This is a Kubernetes metric used for instance availability monitoring. If the metric is not available, use a similar metric as exposed by the monitoring system.

Table 6-7 (Cont.) CncclamMemoryUsageCrossedCriticalThreshold

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNC Console IAM Ingress pod's memory usage reaches the configured critical threshold (90%) of its resource limits. Higher memory consumption can result from increased authentication, authorization, or user management requests. For example, if an integrated NF or a common service is generating more traffic than expected. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor memory usage metrics (container_memory_usage_bytes and kube_pod_container_resource_limits) using the KPI Dashboard. Review the iam-ingress pod logs for any irregularities, spikes in memory usage, or high volumes of authentication, authorization, or user management activity. <p>Recovery: The alert clears automatically when memory utilization drops below the critical threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if an integrated NF or a common service is causing consistently high levels of authentication, authorization, or user management requests, leading to increased memory usage. Analyze logs and metrics to identify and address the source. Take steps to optimize usage or resolve issues as needed. Also, double-check the resource limits and requests configuration to ensure it is aligned with CNC Console recommendations. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.7 CncclamTransactionErrorRateAbove0.1Percent

Table 6-8 CncclamTransactionErrorRateAbove0.1Percent

Field	Details
Description	This alert notifies that the number of CNC Console IAM failed transactions is above 0.1 percent of the total transactions.
Summary	CNC Console IAM transaction Error Rate detected above 0.1 Percent of Total Transactions
Severity	warning

Table 6-8 (Cont.) CncclamTransactionErrorRateAbove0.1Percent

Field	Details
Condition	<pre>(sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Sta tus=~"5.*",InstanceIdentifier=~".*iam_ingressgatew ay",namespace="cncc-ns"}[5m]) or (up * 0))) / (sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Inst anceIdentifier=~".*iam_ingressgateway",namespac e="cncc-ns"}[5m]))) * 100 >= 0.1 < 1</pre>
OID	1.3.6.1.4.1.323.5.3.51.1.2.7003
Metric Used	oc_ingressgateway_http_responses_total
Recommended Action	<p>Cause:This alert triggers when CNC Console IAM failed transactions exceed 0.1% of total transactions.5xx errors typically indicate server-side issues, such as:</p> <ul style="list-style-type: none"> The IAM service or its dependencies (like databases or external services) are down or unreachable. Internal errors due to misconfiguration in the CNC Console custom_values.yaml file. Backend processing errors, resource exhaustion (CPU or memory), or temporary overload. Issues during authentication, authorization, or user management requests. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Check the health and status of all IAM pods and their dependencies (e.g., databases, storage, or external services). Review the iam-ingress pod logs for error details and stack traces, especially around the time of the alert. Monitor service-specific metrics to isolate which operation or endpoint is generating errors. Review recent configuration changes that may have caused backend errors or instability. <p>Recovery:The alert clears automatically when the CNC Console IAM 5xx error rate drops below 0.1% or exceeds the 1% threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate and resolve any backend, database, or resource issues causing 5xx errors. Roll back recent configuration changes if a misconfiguration is suspected. If this level of error rate is expected for your workload, note that the threshold is configurable and can be adjusted as per operational requirements. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.8 CncclamTransactionErrorRateAbove1Percent

Table 6-9 CncclamTransactionErrorRateAbove1Percent

Field	Details
Description	This alert notifies that the number of CNC Console IAM failed transactions is above 1 percent of the total transactions.
Summary	CNC Console IAM transaction Error Rate detected above 1 Percent of Total Transactions
Severity	warning
Condition	(sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Status=~"5.*",InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns"}[5m]) or (up * 0))) / (sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns"}[5m]))) * 100 >= 1 < 10
OID	1.3.6.1.4.1.323.5.3.51.1.2.7003
Metric Used	oc_ingressgateway_http_responses_total

Table 6-9 (Cont.) CncclamTransactionErrorRateAbove1Percent

Field	Details
Recommended Action	<p>Cause:This alert triggers when CNC Console IAM failed transactions exceed 1% of total transactions.5xx errors typically indicate server-side issues, such as:</p> <ul style="list-style-type: none"> The IAM service or its dependencies (like databases or external services) are down or unreachable. Internal errors due to misconfiguration in the CNC Console custom_values.yaml file. Backend processing errors, resource exhaustion (CPU or memory), or temporary overload. Issues during authentication, authorization, or user management requests. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Check the health and status of all IAM pods and their dependencies (e.g, databases, storage, or external services). Review the iam-ingress pod logs for error details and stack traces, especially around the time of the alert. Monitor service-specific metrics to isolate which operation or endpoint is generating errors. Review recent configuration changes that may have caused backend errors or instability. <p>Recovery:The alert clears automatically when the CNC Console IAM 5xx error rate drops below 1% or exceeds the 10% threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate and resolve any backend, database, or resource issues causing 5xx errors. Roll back recent configuration changes if a misconfiguration is suspected. If this level of error rate is expected for your workload, note that the threshold is configurable and can be adjusted as per operational requirements. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.9 CncclamTransactionErrorRateAbove10Percent

Table 6-10 CncclamTransactionErrorRateAbove10Percent

Field	Details
Description	This alert notifies that the number of CNC Console IAM failed transactions is above 10 percent of the total transactions.

Table 6-10 (Cont.) CncclamTransactionErrorRateAbove10Percent

Field	Details
Summary	CNC Console IAM transaction error rate detected above 10 percent of total transactions
Severity	minor
Condition	(sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Status=~"5.*",InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns"}[5m]) or (up * 0))) / (sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns"}[5m]))) * 100 >= 10 < 25
OID	1.3.6.1.4.1.323.5.3.51.1.2.7003
Metric Used	oc_ingressgateway_http_responses_total

Table 6-10 (Cont.) CncclamTransactionErrorRateAbove10Percent

Field	Details
Recommended Action	<p>Cause:This alert triggers when CNC Console IAM failed transactions exceed 10% of total transactions.5xx errors typically indicate server-side issues, such as:</p> <ul style="list-style-type: none"> The IAM service or its dependencies (like databases or external services) are down or unreachable. Internal errors due to misconfiguration in the CNC Console custom_values.yaml file. Backend processing errors, resource exhaustion (CPU or memory), or temporary overload. Issues during authentication, authorization, or user management requests. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Check the health and status of all IAM pods and their dependencies (e.g, databases, storage, or external services). Review the iam-ingress pod logs for error details and stack traces, especially around the time of the alert. Monitor service-specific metrics to isolate which operation or endpoint is generating errors. Review recent configuration changes that may have caused backend errors or instability. <p>Recovery:The alert clears automatically when the CNC Console IAM 5xx error rate drops below 10% or exceeds the 25% threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate and resolve any backend, database, or resource issues causing 5xx errors. Roll back recent configuration changes if a misconfiguration is suspected. If this level of error rate is expected for your workload, note that the threshold is configurable and can be adjusted as per operational requirements. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.10 CncclamTransactionErrorRateAbove25Percent

Table 6-11 CncclamTransactionErrorRateAbove25Percent

Field	Details
Description	This alert notifies that the number of CNCC IAM failed transactions is above 25 percent of the total transactions.

Table 6-11 (Cont.) CnccIamTransactionErrorRateAbove25Percent

Field	Details
Summary	CNCC IAM transaction Error Rate detected above 25 Percent of Total Transactions
Severity	major
Condition	(sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Status=~"5.*",InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns"}[5m]) or (up * 0))) / (sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns"}[5m]))) * 100 >= 25 < 50
OID	1.3.6.1.4.1.323.5.3.51.1.2.7003
Metric Used	oc_ingressgateway_http_responses_total

Table 6-11 (Cont.) CncclamTransactionErrorRateAbove25Percent

Field	Details
Recommended Action	<p>Cause:This alert triggers when CNCC IAM failed transactions exceed 25% of total transactions.5xx errors typically indicate server-side issues, such as:</p> <ul style="list-style-type: none"> The IAM service or its dependencies (like databases or external services) are down or unreachable. Internal errors due to misconfiguration in the CNC Console custom_values.yaml file. Backend processing errors, resource exhaustion (CPU or memory), or temporary overload. Issues during authentication, authorization, or user management requests. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Check the health and status of all IAM pods and their dependencies (e.g, databases, storage, or external services). Review the iam-ingress pod logs for error details and stack traces, especially around the time of the alert. Monitor service-specific metrics to isolate which operation or endpoint is generating errors. Review recent configuration changes that may have caused backend errors or instability. <p>Recovery:The alert clears automatically when the CNCC IAM 5xx error rate drops below 25% or exceeds the 50% threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate and resolve any backend, database, or resource issues causing 5xx errors. Roll back recent configuration changes if a misconfiguration is suspected. If this level of error rate is expected for your workload, note that the threshold is configurable and can be adjusted as per operational requirements. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.11 CncclamTransactionErrorRateAbove50Percent

Table 6-12 CncclamTransactionErrorRateAbove50Percent

Field	Details
Description	This alert notifies that the number of CNCC IAM failed transactions is above 50 percent of the total transactions.

Table 6-12 (Cont.) CncclamTransactionErrorRateAbove50Percent

Field	Details
Summary	CNCC IAM transaction Error Rate detected above 50 Percent of Total Transactions
Severity	critical
Condition	(sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Status=~"5.*",InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns"}[5m]) or (up * 0))) / (sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns"}[5m]))) * 100 >= 50
OID	1.3.6.1.4.1.323.5.3.51.1.2.7003
Metric Used	oc_ingressgateway_http_responses_total

Table 6-12 (Cont.) CncclamTransactionErrorRateAbove50Percent

Field	Details
Recommended Action	<p>Cause:This alert triggers when CNCC IAM failed transactions exceed 50% of total transactions.5xx errors typically indicate server-side issues, such as:</p> <ul style="list-style-type: none"> The IAM service or its dependencies (like databases or external services) are down or unreachable. Internal errors due to misconfiguration in the CNC Console custom_values.yaml file. Backend processing errors, resource exhaustion (CPU or memory), or temporary overload. Issues during authentication, authorization, or user management requests. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Check the health and status of all IAM pods and their dependencies (e.g, databases, storage, or external services). Review the iam-ingress pod logs for error details and stack traces, especially around the time of the alert. Monitor service-specific metrics to isolate which operation or endpoint is generating errors. Review recent configuration changes that may have caused backend errors or instability. <p>Recovery:The alert clears automatically when the CNCC IAM 5xx error rate drops below 50%.If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate and resolve any backend, database, or resource issues causing 5xx errors. Roll back recent configuration changes if a misconfiguration is suspected. If this level of error rate is expected for your workload, note that the threshold is configurable and can be adjusted as per operational requirements. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.1.12 CncclamIngressGatewayServiceDown

Table 6-13 CncclamIngressGatewayServiceDown

Field	Details
Description	This alert notifies that the CNCC IAM Ingress Gateway pod is down.

Table 6-13 (Cont.) CnccIamIngressGatewayServiceDown

Field	Details
Summary	namespace: {{\$labels.namespace}}, timestamp: {{ with query "time()" }}{ . first value humanizeTimestamp }}{{ end }} : cncc-iam-ingress-gateway service down
Severity	critical
Condition	absent(up{pod=~".*iam-ingress-gateway.*", namespace="cncc-ns"}) or (up{pod=~".*iam-ingress-gateway.*", namespace="cncc-ns"}) == 0
OID	1.3.6.1.4.1.323.5.3.51.1.2.7004
Metric Used	up Note: This is a Prometheus metric used for instance availability monitoring. If this metric is not available, use a similar metric as exposed by the monitoring system.
Recommended Action	<p>Cause:This alert triggers when the CNCC IAM Ingress Gateway pod or service is down.</p> <p>Diagnostic Information:</p> <ul style="list-style-type: none"> • Check the orchestration platform (e.g, Kubernetes) logs for the <code>cncc-iam-ingress-gateway</code> pod to identify liveness or readiness probe failures. • Review application logs for the <code>cncc-iam-ingress-gateway</code> service, filtering for error or warning messages, or recent crash loops. • Verify recent configuration or deployment changes that might have impacted pod availability. • Check for resource issues (CPU, memory, disk) or dependency/service failures. <p>Recovery:The alert clears automatically when the <code>cncc-iam-ingress-gateway</code> service becomes available again. If the alert does not clear:</p> <ul style="list-style-type: none"> • Continue to review logs, resource allocations, and configuration for possible causes of downtime. • Address any identified issues to restore service availability. • If this downtime is expected (e.g, for planned maintenance), you may adjust the alerting threshold as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture pod logs, orchestration event logs, and relevant metrics to help Support analyze the issue.</p>

6.1.13 CncclamFailedLogin

Table 6-14 CncclamFailedLogin

Field	Details
Description	This alert notifies you if there are more than 3 failed login attempts in CNCC IAM for a user within 5 minutes.
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}: failed login attempts are more than the configured threshold value
Severity	warning
Condition	sum by(Status,namespace,ResourcePath,Method,User Name,pod) (oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns",ResourcePath="/cncc/auth/realms/master/login-actions/authenticate",Method="POST",Status="200 OK"})- sum by(Status,namespace,ResourcePath,Method,User Name,pod) (oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns",ResourcePath="/cncc/auth/realms/master/login-actions/authenticate",Method="POST",Status="200 OK"} offset 5m) > 3
OID	1.3.6.1.4.1.323.5.3.51.1.2.7005
Metric Used	oc_ingressgateway_http_responses_total

Table 6-14 (Cont.) CncclamFailedLogin

Field	Details
Recommended Action	<p>Cause:This alert triggers when there are more than 3 failed login attempts in CNCC IAM for a user within 5 minutes. This may be due to users entering incorrect credentials, potential automated attacks (such as brute force attempts), or issues with the login process.</p> <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Verify if the affected user(s) are entering the correct username and password. Review login logs, the <code>iam-ke</code> container, and <code>iam-ingress</code> pod logs for patterns, such as repeated failures from the same source. Check for potential account lockouts or signs of automated login attempts. Confirm there have not been any recent configuration changes that could impact the authentication process. <p>Recovery:The alert is cleared automatically when the number of failed login attempts for a user falls below the configured threshold (default is 3) within the last 5 minutes. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate for possible brute-force activity, misconfigurations, or issues causing repeated login failures. Verify the username being used and, if an incorrect password is suspected, reset the password and attempt to log in again. If this level of failed attempts is expected for your use case, note that the threshold is configurable and can be adjusted as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>iam-ke</code> container, <code>iam-ingress</code> pod logs, and relevant metrics to help Support analyze the issue.</p>

6.1.14 AdminUserCreation

Table 6-15 AdminUserCreation

Field	Details
Description	This alert notifies you when a new admin user is created in CNCC IAM within the last 5 minutes.
Summary	namespace: <code>{{ \$labels.namespace }}</code> , podname: <code>{{ \$labels.pod }}</code> , user: <code>{{ \$labels.UserName }}</code> , timestamp: <code>{{ with query "time()" }}{ . first value humanizeTimestamp }}{ end }</code> : Admin users have been created
Severity	warning

Table 6-15 (Cont.) AdminUserCreation

Field	Details
Condition	<pre>sum by(namespace,ResourcePath,Method,UserName,pod) (oc_ingressgateway_http_requests_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns",ResourcePath="/cncc/auth/admin/realms/master/users",Method="POST"}) - sum by(namespace,ResourcePath,Method,UserName,pod) (oc_ingressgateway_http_requests_total{InstanceIdentifier=~".*iam_ingressgateway",namespace="cncc-ns",ResourcePath="/cncc/auth/admin/realms/master/users",Method="POST"} offset 5m) > 0</pre>
OID	1.3.6.1.4.1.323.5.3.51.1.2.7006
Metric Used	oc_ingressgateway_http_requests_total
Recommended Action	<p>Cause:This alert triggers when a new admin user is created in CNCC IAM within the last 5 minutes. This may be the result of a legitimate administrative action or an unauthorized attempt to gain privileged access.</p> <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Verify whether the creation of the new admin user was authorized and expected. Review the <code>iam-kc</code> container, <code>iam-ingress</code> pod logs, and audit logs for information about who initiated the action, including source IP and request details. Monitor for any unusual or suspicious activity related to admin user creation. <p>Recovery:The alert is cleared automatically after the admin user creation event is processed, or when subsequent checks do not detect any new admin user creation within the last 5 minutes.</p> <ul style="list-style-type: none"> Log in to the admin GUI and review the details of the newly created admin user. If the user is legitimate, no further action is required. If the creation was unauthorized, take appropriate steps to delete or disable the admin account, and investigate further for potential security issues. Update policies or controls, if necessary, to prevent unauthorized admin user creation in the future. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>iam-kc</code> container, <code>iam-ingress</code> pod logs, and relevant audit details to help Support analyze the issue.</p>

6.1.15 CncclamAccessTokenFailure

Table 6-16 CncclamAccessTokenFailure

Field	Details
Description	This alert notifies you if there are more than 3 failed access token requests in CNCC IAM within 5 minutes.
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}: Access Token Failure count is above the configured threshold value
Severity	warning
Condition	sum by(Status,namespace,ResourcePath,Method,User Name,UserId,pod) (oc_ingressgateway_http_responses_total{Instanc eIdentifier=~".*iam_ingressgateway",namespace="cnc c-ns",ResourcePath="/cnc/auth/realms/ master/protocol/openid-connect/ token",Method="POST",Status=~"4.* 5.*"}) - sum by(Status,namespace,ResourcePath,Method,User Name,pod) (oc_ingressgateway_http_responses_total{Instanc eIdentifier=~".*iam_ingressgateway",namespace="cnc c-ns",ResourcePath="/cnc/auth/realms/ master/protocol/openid-connect/ token",Method="POST",Status=~"4.* 5.*"} offset 5m) > 3
OID	1.3.6.1.4.1.323.5.3.51.1.2.7007
Metric Used	oc_ingressgateway_http_responses_total

Table 6-16 (Cont.) CncclamAccessTokenFailure

Field	Details
Recommended Action	<p>Cause:This alert triggers when there are more than 3 failed access token requests in CNCC IAM within 5 minutes. This may be due to incorrect user credentials, misconfigured client applications, or backend errors affecting the token generation process.</p> <p>Diagnostic Information:</p> <ul style="list-style-type: none"> • Check if users or client applications are sending correct credentials and valid request parameters. • Review the iam-kc container and iam-ingress pod logs for error messages related to access token requests. • Verify if there are recent changes or configuration issues impacting the token endpoint. • Look for patterns such as repeated failures from a specific user or application. <p>Recovery:The alert clears automatically when the number of failed access token requests for a user drops below the configured threshold (default: 3) within the last 5 minutes. If the alert does not clear:</p> <ul style="list-style-type: none"> • Verify the credentials and parameters being used for the access token request. • If the failure is caused by expired or invalid credentials, advise users to refresh or reset their credentials and attempt to obtain a new token. • If this level of failed requests is expected, note that the threshold is configurable and can be adjusted as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture the iam-kc container, iam-ingress pod logs, and relevant metrics to help Support analyze the issue.</p>

6.2 CNC Console Core Alerts

This section provides the information about CNC Console Core Alerts.

6.2.1 CnccCoreTotalIngressTrafficRateAboveMinorThreshold

Table 6-17 CnccCoreTotalIngressTrafficRateAboveMinorThreshold

Field	Details
Description	This alert notifies that the CNCC Core Ingress message rate has crossed the configured minor threshold of 700 to 800 TPS.

Table 6-17 (Cont.) CnccCoreTotalIngressTrafficRateAboveMinorThreshold

Field	Details
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}: Traffic Rate is above 70 Percent of Max requests per second(1000)
Severity	minor
Condition	sum by(namespace,pod) (rate(oc_ingressgateway_http_requests_total{InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[2m])) >= 700 < 800
OID	1.3.6.1.4.1.323.5.3.51.1.2.8001
Metric Used	oc_ingressgateway_http_requests_total
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNCC Core Ingress receives more traffic than expected, primarily consisting of NF resource requests or common service requests. For example, an integrated NF or a common service may be sending an unusually high volume of requests to the CNCC Core. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor ingress traffic to the pod using the KPI Dashboard. Review the core-ingress pod logs for any irregularities or anomalies, especially spikes in NF resource or common service operations. <p>Recovery: The alert clears automatically when ingress traffic drops below the minor threshold or exceeds the major threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if an integrated NF or a common service is generating unexpectedly high volumes of traffic. Analyze logs and metrics for unusual patterns or possible misconfigurations leading to increased traffic. Take action, as needed, to block or limit any unauthorized or unexpected traffic. <p>For any assistance, contact #unique_87. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.2 CnccCoreTotalIngressTrafficRateAboveMajorThreshold

Table 6-18 CnccCoreTotalIngressTrafficRateAboveMajorThreshold

Field	Details
Description	This alert notifies that the CNCC Core Ingress message rate has crossed the configured major threshold of 800 to 900 TPS.

Table 6-18 (Cont.) CnccCoreTotalIngressTrafficRateAboveMajorThreshold

Field	Details
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}: Traffic Rate is above 80 Percent of Max requests per second(1000)
Severity	major
Condition	sum by(namespace,pod) (rate(oc_ingressgateway_http_requests_total{InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[2m])) >= 800 < 900
OID	1.3.6.1.4.1.323.5.3.51.1.2.8001
Metric Used	oc_ingressgateway_http_requests_total
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNCC Core Ingress receives more traffic than expected, primarily consisting of NF resource requests or common service requests. For example, an integrated NF or a common service may be sending an unusually high volume of requests to the CNCC Core. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor ingress traffic to the pod using the KPI Dashboard. Review the core-ingress pod logs for any irregularities or anomalies, especially spikes in NF resource or common service operations. <p>Recovery: The alert clears automatically when ingress traffic drops below the major threshold or exceeds the critical threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if an integrated NF or a common service is generating unexpectedly high volumes of traffic. Analyze logs and metrics for unusual patterns or possible misconfigurations leading to increased traffic. Take action, as needed, to block or limit any unauthorized or unexpected traffic. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.3 CnccCoreTotalIngressTrafficRateAboveCriticalThreshold

Table 6-19 CnccCoreTotalIngressTrafficRateAboveCriticalThreshold

Field	Details
Description	This alert notifies that the CNCC Core Ingress message rate has crossed the configured critical threshold of 900 TPS.

Table 6-19 (Cont.) CnccCoreTotalIngressTrafficRateAboveCriticalThreshold

Field	Details
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}: Traffic Rate is above 90 Percent of Max requests per second(1000)
Severity	critical
Condition	sum by(namespace,pod) (rate(oc_ingressgateway_http_requests_total{InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[2m])) >= 900
OID	1.3.6.1.4.1.323.5.3.51.1.2.8001
Metric Used	oc_ingressgateway_http_requests_total
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNCC Core Ingress receives more traffic than expected, primarily consisting of NF resource requests or common service requests. For example, an integrated NF or a common service may be sending an unusually high volume of requests to the CNCC Core. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor ingress traffic to the pod using the KPI Dashboard. Review the core-ingress pod logs for any irregularities or anomalies, especially spikes in NF resource or common service operations. <p>Recovery: The alert clears automatically when ingress traffic drops below the critical threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if an integrated NF or a common service is generating unexpectedly high volumes of traffic. Analyze logs and metrics for unusual patterns or possible misconfigurations leading to increased traffic. Take action, as needed, to block or limit any unauthorized or unexpected traffic. <p>For any assistance, contact My Oracle Support. Make sure to capture the core-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.4 CnccCoreMemoryUsageCrossedMinorThreshold

Table 6-20 CnccCoreMemoryUsageCrossedMinorThreshold

Field	Details
Description	This alert notifies that the CNCC Core Ingress pod has reached the configured minor threshold (70%) of its memory resource limits.

Table 6-20 (Cont.) CnccCoreMemoryUsageCrossedMinorThreshold

Field	Details
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }} : Memory Usage of pod exceeded 70% of its limit.
Severity	minor
Condition	sum by(namespace,pod) (container_memory_usage_bytes{container!="", namespace="cncc-ns", pod=~".*core-cmservice.* .*/core-ingress-gateway.*"}) / sum by(namespace, pod) (kube_pod_container_resource_limits{namespace="cncc-ns",pod=~".*core-cmservice.* .*/core-ingress-gateway.*",resource="memory"}) * 100 >= 70 < 80
OID	1.3.6.1.4.1.323.5.3.51.1.2.8002
Metric Used	container_memory_usage_bytes kube_pod_container_resource_limits Note: This is a Kubernetes metric used for instance availability monitoring. If the metric is not available, use a similar metric as exposed by the monitoring system.

Table 6-20 (Cont.) CnccCoreMemoryUsageCrossedMinorThreshold

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNCC Core Ingress pod's memory usage reaches the configured minor threshold (70%) of its resource limits. Higher memory consumption can result from increased NF resource or common service requests. For example, if a network function or common service is generating more traffic than expected. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor memory usage metrics (<code>container_memory_usage_bytes</code> and <code>kube_pod_container_resource_limits</code>) using the KPI Dashboard. Review the <code>core-ingress</code> pod logs for any irregularities, spikes in memory usage, or high volumes of NF resource or common service activity. <p>Recovery: The alert clears automatically when memory utilization drops below the minor threshold or exceeds the major threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if any network function or common service is causing consistently high resource requests, leading to increased memory usage. Analyze logs and metrics to identify and address the source of high usage. Take steps to optimize memory usage or resolve any configuration issues. Also, double-check the resource limits and requests configuration to ensure it is aligned with CNCC Console recommendations. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.5 CnccCoreMemoryUsageCrossedMajorThreshold

Table 6-21 CnccCoreMemoryUsageCrossedMajorThreshold

Field	Details
Description	This alert notifies that the CNCC Core Ingress pod has reached the configured major threshold (80%) of its memory resource limits.
Summary	namespace: <code>{{ \$labels.namespace }}</code> , podname: <code>{{ \$labels.pod }}</code> , timestamp: <code>{{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}</code> : Memory Usage of pod exceeded 80% of its limit.
Severity	major

Table 6-21 (Cont.) CnccCoreMemoryUsageCrossedMajorThreshold

Field	Details
Condition	<pre>sum by(namespace,pod) (container_memory_usage_bytes{container!="", namespace="cncc-ns", pod=~".*core- cmsservice.* .*/core-ingress-gateway.*"}) / sum by(namespace, pod) (kube_pod_container_resource_limits{namespace ="cncc-ns",pod=~".*core-cmsservice.* .*/core- ingress-gateway.*",resource="memory"}) * 100 >= 80 < 90</pre>
OID	1.3.6.1.4.1.323.5.3.51.1.2.8002
Metric Used	<p>container_memory_usage_bytes kube_pod_container_resource_limits</p> <p>Note: This is a Kubernetes metric used for instance availability monitoring. If the metric is not available, use a similar metric as exposed by the monitoring system.</p>
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNCC Core Ingress pod's memory usage reaches the configured major threshold (80%) of its resource limits. Higher memory consumption can result from increased NF resource or common service requests. For example, if a network function or common service is generating more traffic than expected. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor memory usage metrics (container_memory_usage_bytes and kube_pod_container_resource_limits) using the KPI Dashboard. Review the core-ingress pod logs for any irregularities, spikes in memory usage, or high volumes of NF resource or common service activity. <p>Recovery: The alert clears automatically when memory utilization drops below the major threshold or exceeds the critical threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if any network function or common service is causing consistently high resource requests, leading to increased memory usage. Analyze logs and metrics to identify and address the source of high usage. Take steps to optimize memory usage or resolve any configuration issues. Also, double-check the resource limits and requests configuration to ensure it is aligned with CNCC Console recommendations. <p>For any assistance, contact My Oracle Support. Make sure to capture the core-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.6 CnccCoreMemoryUsageCrossedCriticalThreshold

Table 6-22 CnccCoreMemoryUsageCrossedCriticalThreshold

Field	Details
Description	This alert notifies that the CNCC Core Ingress pod has reached the configured critical threshold (90%) of its memory resource limits.
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }} : Memory Usage of pod exceeded 90% of its limit.
Severity	critical
Condition	sum by(namespace,pod) (container_memory_usage_bytes{container!="", namespace="cncc-ns", pod=~".*core-cmservice.* .*/core-ingress-gateway.*"}) / sum by(namespace, pod) (kube_pod_container_resource_limits{namespace="cncc-ns",pod=~".*core-cmservice.* .*/core-ingress-gateway.*",resource="memory"}) * 100 >= 90
OID	1.3.6.1.4.1.323.5.3.51.1.2.8002
Metric Used	container_memory_usage_bytes kube_pod_container_resource_limits Note: This is a Kubernetes metric used for instance availability monitoring. If the metric is not available, use a similar metric as exposed by the monitoring system.

Table 6-22 (Cont.) CnccCoreMemoryUsageCrossedCriticalThreshold

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when the CNCC Core Ingress pod's memory usage reaches the configured critical threshold (90%) of its resource limits. Higher memory consumption can result from increased NF resource or common service requests. For example, if a network function or common service is generating more traffic than expected. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor memory usage metrics (<code>container_memory_usage_bytes</code> and <code>kube_pod_container_resource_limits</code>) using the KPI Dashboard. Review the core-ingress pod logs for any irregularities, spikes in memory usage, or high volumes of NF resource or common service activity. <p>Recovery: The alert clears automatically when memory utilization drops below the critical threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Check if any network function or common service is causing consistently high resource requests, leading to increased memory usage. Analyze logs and metrics to identify and address the source of high usage. Take steps to optimize memory usage or resolve any configuration issues. Also, double-check the resource limits and requests configuration to ensure it is aligned with CNC Console recommendations. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.7 CnccCoreTransactionErrorRateAbove0.1Percent

Table 6-23 CnccCoreTransactionErrorRateAbove0.1Percent

Field	Details
Description	This alert notifies that the number of CNCC Core failed transactions is above 0.1 percent of the total transactions.

Table 6-23 (Cont.) CnccCoreTransactionErrorRateAbove0.1Percent

Field	Details
Summary	CNCC Core transaction Error Rate detected above 0.1 Percent of Total Transactions
Severity	warning
Condition	(sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Status=~"5.*",InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[5m]) or (up * 0))) / (sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[5m]))) *100 >= 0.1 < 1
OID	1.3.6.1.4.1.323.5.3.51.1.2.8003
Metric Used	oc_ingressgateway_http_responses_total

Table 6-23 (Cont.) CnccCoreTransactionErrorRateAbove0.1Percent

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when CNCC Core failed transactions exceed 0.1% of total transactions. 5xx errors typically indicate server-side issues, such as the Core service or its dependencies (e.g, NFs, databases, or common services) being down, unreachable, overloaded, or misconfigured. Unexpected spikes may also result from backend processing errors, resource exhaustion, or recent configuration changes. Misconfiguration of any network function (NF) instance in the CNCC custom_values.yaml file can also lead to increased failure rates. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor the health and status of all Core pods and their dependencies (such as databases, network functions, and external services). Review the core-ingress pod logs for error messages and stack traces, especially around the time of the alert. Examine service-specific and application metrics to pinpoint which operations or endpoints are failing. Check for recent configuration changes or deployment updates that could impact backend stability. Review the CNCC custom_values.yaml for any misconfiguration in network function (NF) instances. <p>Recovery: The alert is cleared automatically when the CNCC Core 5xx error rate drops below 0.1% or exceeds the 1% threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate and address any backend, resource, or configuration issues causing errors. Review CNCC custom_values.yaml for any misconfiguration in NF instances and correct them if necessary. Coordinate with relevant teams to resolve dependency or service interruptions. If this error level is expected for your workload, note that the threshold is configurable and can be adjusted as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture the core-ingress pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.8 CnccCoreTransactionErrorRateAbove1Percent

Table 6-24 CnccCoreTransactionErrorRateAbove1Percent

Field	Details
Description	This alert notifies that the number of CNCC Core failed transactions is above 1 percent of the total transactions.
Summary	CNCC Core transaction Error Rate detected above 1 Percent of Total Transactions
Severity	warning
Condition	(sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Status=~"5.*",InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[5m]) or (up * 0))) / (sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[5m]))) * 100 >= 1 < 10
OID	1.3.6.1.4.1.323.5.3.51.1.2.8003
Metric Used	oc_ingressgateway_http_responses_total

Table 6-24 (Cont.) CnccCoreTransactionErrorRateAbove1Percent

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when CNCC Core failed transactions exceed 1% of total transactions. 5xx errors typically indicate server-side issues, such as the Core service or its dependencies (e.g, NFs, databases, or common services) being down, unreachable, overloaded, or misconfigured. Unexpected spikes may also result from backend processing errors, resource exhaustion, or recent configuration changes. Misconfiguration of any network function (NF) instance in the CNCC <code>custom_values.yaml</code> file can also lead to increased failure rates. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor the health and status of all Core pods and their dependencies (such as databases, network functions, and external services). Review the core-ingress pod logs for error messages and stack traces, especially around the time of the alert. Examine service-specific and application metrics to pinpoint which operations or endpoints are failing. Check for recent configuration changes or deployment updates that could impact backend stability. Review the CNCC <code>custom_values.yaml</code> file for any misconfiguration in network function (NF) instances. <p>Recovery: The alert is cleared automatically when the CNCC Core 5xx error rate drops below 1% or exceeds the 10% threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate and address any backend, resource, or configuration issues causing errors. Review the CNCC <code>custom_values.yaml</code> file for any misconfiguration in NF instances and correct if necessary. Coordinate with relevant teams to resolve dependency or service interruptions. If this error level is expected for your workload, note that the threshold is configurable and can be adjusted as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.9 CnccCoreTransactionErrorRateAbove10Percent

Table 6-25 CnccCoreTransactionErrorRateAbove10Percent

Field	Details
Description	This alert notifies that the number of CNCC Core failed transactions is above 10 percent of the total transactions.
Summary	CNCC Core transaction Error Rate detected above 10 Percent of Total Transactions
Severity	minor
Condition	(sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Status=~"5.*",InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[5m]) or (up * 0))) / (sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[5m]))) * 100 >= 10 < 25
OID	1.3.6.1.4.1.323.5.3.51.1.2.8003
Metric Used	oc_ingressgateway_http_responses_total

Table 6-25 (Cont.) CnccCoreTransactionErrorRateAbove10Percent

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when CNCC Core failed transactions exceed 10% of total transactions. 5xx errors typically indicate server-side issues, such as the Core service or its dependencies (e.g, NFs, databases, or common services) being down, unreachable, overloaded, or misconfigured. Unexpected spikes may also result from backend processing errors, resource exhaustion, or recent configuration changes. Misconfiguration of any network function (NF) instance in the CNCC <code>custom_values.yaml</code> file can also lead to increased failure rates. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor the health and status of all Core pods and their dependencies (such as databases, network functions, and external services). Review the core-ingress pod logs for error messages and stack traces, especially around the time of the alert. Examine service-specific and application metrics to pinpoint which operations or endpoints are failing. Check for recent configuration changes or deployment updates that could impact backend stability. Review the CNCC <code>custom_values.yaml</code> file for any misconfiguration in network function (NF) instances. <p>Recovery: The alert is cleared automatically when the CNCC Core 5xx error rate drops below 10% or exceeds the 25% threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate and address any backend, resource, or configuration issues causing errors. Review the CNCC <code>custom_values.yaml</code> file for any misconfiguration in NF instances and correct if necessary. Coordinate with relevant teams to resolve dependency or service interruptions. If this error level is expected for your workload, note that the threshold is configurable and can be adjusted as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.10 CnccCoreTransactionErrorRateAbove25Percent

Table 6-26 CnccCoreTransactionErrorRateAbove25Percent

Field	Details
Description	This alert notifies that the number of CNCC Core failed transactions is above 25 percent of the total transactions.
Summary	CNCC Core transaction Error Rate detected above 25 Percent of Total Transactions
Severity	major
Condition	(sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Status=~"5.*",InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[5m]) or (up * 0))) / (sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[5m]))) * 100 >= 25 < 50
OID	1.3.6.1.4.1.323.5.3.51.1.2.8003
Metric Used	oc_ingressgateway_http_responses_total

Table 6-26 (Cont.) CnccCoreTransactionErrorRateAbove25Percent

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when CNCC Core failed transactions exceed 25% of total transactions. 5xx errors typically indicate server-side issues, such as the Core service or its dependencies (e.g, NFs, databases, or common services) being down, unreachable, overloaded, or misconfigured. Unexpected spikes may also result from backend processing errors, resource exhaustion, or recent configuration changes. Misconfiguration of any network function (NF) instance in the CNCC <code>custom_values.yaml</code> file can also lead to increased failure rates. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor the health and status of all Core pods and their dependencies (such as databases, network functions, and external services). Review the core-ingress pod logs for error messages and stack traces, especially around the time of the alert. Examine service-specific and application metrics to pinpoint which operations or endpoints are failing. Check for recent configuration changes or deployment updates that could impact backend stability. Review the CNCC <code>custom_values.yaml</code> file for any misconfiguration in network function (NF) instances. <p>Recovery: The alert is cleared automatically when the CNCC Core 5xx error rate drops below 25% or exceeds the 50% threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate and address any backend, resource, or configuration issues causing errors. Review the CNCC <code>custom_values.yaml</code> file for any misconfiguration in NF instances and correct if necessary. Coordinate with relevant teams to resolve dependency or service interruptions. If this error level is expected for your workload, note that the threshold is configurable and can be adjusted as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.11 CnccCoreTransactionErrorRateAbove50Percent

Table 6-27 CnccCoreTransactionErrorRateAbove50Percent

Field	Details
Description	This alert notifies that the number of CNCC Core failed transactions is above 50 percent of the total transactions.
Summary	CNCC Core transaction error rate detected above 50 percent of total transactions
Severity	critical
Condition	(sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{Status=~"5.*",InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[5m]) or (up * 0))) / (sum by(namespace,pod) (rate(oc_ingressgateway_http_responses_total{InstanceIdentifier=~".*core_ingressgateway",namespace="cncc-ns"}[5m]))) * 100 >= 50
OID	1.3.6.1.4.1.323.5.3.51.1.2.8003
Metric Used	oc_ingressgateway_http_responses_total

Table 6-27 (Cont.) CnccCoreTransactionErrorRateAbove50Percent

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when CNCC Core failed transactions exceed 50% of total transactions. 5xx errors typically indicate server-side issues, such as the Core service or its dependencies (e.g, NFs, databases, or common services) being down, unreachable, overloaded, or misconfigured. Unexpected spikes may also result from backend processing errors, resource exhaustion, or recent configuration changes. Misconfiguration of any network function (NF) instance in the CNCC <code>custom_values.yaml</code> file can also lead to increased failure rates. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Monitor the health and status of all Core pods and their dependencies (such as databases, network functions, and external services). Review the core-ingress pod logs for error messages and stack traces, especially around the time of the alert. Examine service-specific and application metrics to pinpoint which operations or endpoints are failing. Check for recent configuration changes or deployment updates that could impact backend stability. Review the CNCC <code>custom_values.yaml</code> file for any misconfiguration in network function (NF) instances. <p>Recovery: The alert is cleared automatically when the CNCC Core 5xx error rate drops below the 50% threshold. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate and address any backend, resource, or configuration issues causing errors. Review the CNCC <code>custom_values.yaml</code> file for any misconfiguration in NF instances and correct if necessary. Coordinate with relevant teams to resolve dependency or service interruptions. If this error level is expected for your workload, note that the threshold is configurable and can be adjusted as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.12 CnccCoreIngressGatewayServiceDown

Table 6-28 CnccCoreIngressGatewayServiceDown

Field	Details
Description	This alert notifies that the CNCC Core Ingress Gateway pod is down.
Summary	namespace: {{\$labels.namespace}}, timestamp: {{ with query "time()" }}{{ . first value humanizeTimestamp }}{{ end }} : cncc-core-ingress-gateway service down
Severity	critical
Condition	absent(up{pod=~".*core-ingress-gateway.*", namespace="cncc-ns"}) or (up{pod=~".*core-ingress-gateway.*", namespace="cncc-ns"}) == 0
OID	1.3.6.1.4.1.323.5.3.51.1.2.8004
Metric Used	up Note: This is a Prometheus metric used for instance availability monitoring. If this metric is not available, use a similar metric as exposed by the monitoring system.
Recommended Action	<p>Cause: This alert triggers when the CNCC Core Ingress Gateway pod or service is down.</p> <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Check the orchestration platform (e.g., Kubernetes) logs for the <code>cncc-core-ingress-gateway</code> pod to identify liveness or readiness probe failures. Review application logs for the <code>cncc-core-ingress-gateway</code> service, filtering for error or warning messages, or recent crash loops. Verify recent configuration or deployment changes that might have impacted pod availability. Check for resource issues (CPU, memory, disk) or dependency/service failures. <p>Recovery: The alert clears automatically when the <code>cncc-core-ingress-gateway</code> service becomes available again. If the alert does not clear:</p> <ul style="list-style-type: none"> Continue to review logs, resource allocations, and configuration for possible causes of downtime. Address any identified issues to restore service availability. If this downtime is expected (e.g, for planned maintenance), you may adjust the alerting threshold as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture pod logs, orchestration event logs, and relevant metrics to help Support analyze the issue.</p>

6.2.13 CnccCoreFailedLogin

Table 6-29 CnccCoreFailedLogin

Field	Details
Description	This alert notifies you if there are more than 3 failed login attempts in CNCC Core for a user within 5 minutes.
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}: failed login attempts are more than the configured threshold value
Severity	warning
Condition	sum by(Status,namespace,ResourcePath,Method,User Name,pod) (oc_ingressgateway_http_responses_total{Instanc eIdentifier=~".*iam_ingressgateway",namespace="c ncc-ns",ResourcePath="/cncc/auth/realms/cncc/ login-actions/ authenticate",Method="POST",Status="200 OK"}) - sum by(Status,namespace,ResourcePath,Method,User Name,pod) (oc_ingressgateway_http_responses_total{Instanc eIdentifier=~".*iam_ingressgateway",namespace="c ncc-ns",ResourcePath="/cncc/auth/realms/cncc/ login-actions/ authenticate",Method="POST",Status="200 OK"} offset 5m) > 3
OID	1.3.6.1.4.1.323.5.3.51.1.2.8005
Metric Used	oc_ingressgateway_http_responses_total

Table 6-29 (Cont.) CnccCoreFailedLogin

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when there are more than 3 failed login attempts for a user in CNCC Core within 5 minutes. This may be caused by users entering incorrect credentials, automated login attempts (such as brute-force attacks), or issues with the authentication process. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Check if the affected user(s) are entering the correct username and password. Review authentication and <code>core-ingress</code> pod logs for patterns such as repeated failures from the same source. Investigate any potential account lockouts, recent configuration changes, or signs of automated or scripted login attempts. Ensure the authentication service and related configurations are working as expected. <p>Recovery: The alert is cleared automatically when the number of failed login attempts for a user drops below the configured threshold (default: 3) within the last 5 minutes. If the alert does not clear:</p> <ul style="list-style-type: none"> Investigate for possible brute-force activity, misconfigurations, or issues causing repeated login failures. Verify the username being used. If the password is suspected to be incorrect, reset the password and attempt to log in again. If this level of failed attempts is expected for your use case, note that the threshold is configurable and can be adjusted as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.14 CnccCoreUnauthorizedAccess

Table 6-30 CnccCoreUnauthorizedAccess

Field	Details
Description	This alert notifies you if there are more than 3 unauthorized access (403 Forbidden) attempts in CNCC Core within 5 minutes.
Summary	namespace: <code>{{ \$labels.namespace }}</code> , podname: <code>{{ \$labels.pod }}</code> , timestamp: <code>{{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}</code> : Unauthorized Access for CNCC-Core are more than threshold value
Severity	warning

Table 6-30 (Cont.) CnccCoreUnauthorizedAccess

Field	Details
Condition	<pre>sum by(Status,Method,namespace,ResourceType,UserI d,UserName,pod) (oc_ingressgateway_http_responses_total{Instanc elidentifier=~".*core_ingressgateway",namespace=" cncc-ns",Status="403 FORBIDDEN", ResourceType!="UNKNOWN"}) - sum by(Status,Method,namespace,ResourceType,UserI d,UserName,pod) (oc_ingressgateway_http_responses_total{Instanc elidentifier=~".*core_ingressgateway",namespace=" cncc-ns",Status="403 FORBIDDEN",ResourceType!="UNKNOWN"} offset 5m) > 3</pre>
OID	1.3.6.1.4.1.323.5.3.51.1.2.8006
Metric Used	oc_ingressgateway_http_responses_total
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when there are more than 3 unauthorized access (403 Forbidden) attempts in CNCC Core within 5 minutes. Unauthorized access can occur when users or services attempt to access resources without sufficient permissions. Misconfigured access controls or recent changes in user roles or policies may also lead to repeated 403 errors. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Check if the users or services encountering these errors have the necessary permissions for the requested resources. Review <code>core-ingress</code> pod logs and access logs for repeated failed attempts from particular users, roles, services, or source IPs. Examine recent changes in role assignments, access policies, or configurations that might have resulted in new authorization failures. Investigate for potential automated or scripted attempts to access restricted resources. <p>Recovery: This alert will clear automatically when unauthorized access attempts for a particular user or service drop below the configured threshold (default: 3) within the last 5 minutes. If the alert does not clear:</p> <ul style="list-style-type: none"> Verify that user and service permissions are configured appropriately. Correct any misconfigured access controls, roles, or policies as needed. If these attempts are expected for your environment, note that the threshold is configurable and can be adjusted as required. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.2.15 CnccCoreAccessTokenFailure

Table 6-31 CnccCoreAccessTokenFailure

Field	Details
Description	This alert notifies you if there are more than 3 failed access token requests in CNCC Core within 5 minutes.
Summary	namespace: {{\$labels.namespace}}, podname: {{\$labels.pod}}, timestamp: {{ with query "time()" }} {{ . first value humanizeTimestamp }}{{ end }}: Access Token Failure count is above the configured threshold value
Severity	warning
Condition	sum by(Status,namespace,ResourcePath,Method,User Name,pod) (oc_ingressgateway_http_responses_total{Instanc eIdentifier=~".*iam_ingressgateway",namespace="cnc c-ns",ResourcePath="/cnc/auth/realms/cnc/ protocol/openid-connect/ token",Method="POST",Status=~"4.* 5.*"}) - sum by(Status,namespace,ResourcePath,Method,User Name,pod) (oc_ingressgateway_http_responses_total{Instanc eIdentifier=~".*iam_ingressgateway",namespace="cnc c-ns",ResourcePath="/cnc/auth/realms/cnc/ protocol/openid-connect/ token",Method="POST",Status=~"4.* 5.*"} offset 5m) > 3
OID	1.3.6.1.4.1.323.5.3.51.1.2.8007
Metric Used	oc_ingressgateway_http_responses_total

Table 6-31 (Cont.) CnccCoreAccessTokenFailure

Field	Details
Recommended Action	<p>Cause:</p> <ul style="list-style-type: none"> This alert triggers when there are more than 3 failed access token requests in CNCC Core within 5 minutes. Failures may occur due to incorrect credentials, misconfigured client applications, or backend errors affecting token generation. Configuration issues or recent changes in the token endpoint can also cause failures. <p>Diagnostic Information:</p> <ul style="list-style-type: none"> Check if users or client applications are using the correct credentials and valid request parameters. Review the <code>core-ingress</code> pod logs for errors related to access token requests. Look for repeated failures from specific users or applications, or patterns suggesting misconfiguration. Verify whether there have been any recent changes to the token endpoint or related configurations. <p>Recovery: The alert clears automatically when the number of failed access token requests for a user drops below the configured threshold (default: 3) within the last 5 minutes. If the alert does not clear:</p> <ul style="list-style-type: none"> Verify the credentials and parameters being used by users. If requests are failing due to expired or incorrect credentials, reset the credentials and attempt to generate a new token. Address any misconfigurations or backend issues found during diagnostics. If this failure rate is expected, note that the threshold for the alert is configurable and can be adjusted as needed. <p>For any assistance, contact My Oracle Support. Make sure to capture the <code>core-ingress</code> pod logs and relevant metrics to help Support analyze the issue.</p>

6.3 CNC Console Alerts on OCI

This section provides information about CNC Console Alerts on OCI:

6.3.1 CnccCoreTotalIngressTrafficRateAboveMinorThreshold

Table 6-32 CnccCoreTotalIngressTrafficRateAboveMinorThreshold

Field	Details
Trigger Condition	The total CNCC Core Ingress Message rate has crossed the configured minor threshold of 700 TPS. Default value of this alert trigger point in <code>cncc_alert_rules.yaml</code> is when CNCC Core Ingress Rate crosses 70 % of 1000 (Maximum ingress request rate)
Severity	minor
Alert details provided	CNCC Core Ingress traffic Rate is above the configured minor threshold i.e. 700 requests per second
Metric Used	<code>oc_ingressgateway_http_requests_total</code>
Resolution	The alert is cleared either when the total Ingress Traffic rate falls below the Minor threshold or when the total traffic rate cross the Major threshold, inwhich case the <code>CnccCoreTotalIngressTrafficRateAboveMajorThreshold</code> alert shall be raised.Note: The threshold is configurable in the <code>alerts.yaml</code> Steps:Reassess why the CNCC Core is receiving additionaltraffic.If this is unexpected, contact My Oracle Support.

6.3.2 CnccCoreTotalIngressTrafficRateAboveMajorThreshold

Table 6-33 CnccCoreTotalIngressTrafficRateAboveMajorThreshold

Field	Details
Trigger Condition	The total CNCC Core Ingress Message rate has crossed the configured major threshold of 800 TPS. Default value of this alert trigger point in <code>cncc_alert_rules.yaml</code> is when CNCC Core Ingress Rate crosses 80 % of 1000 (Maximum ingress request rate)
Severity	major
Alert details provided	CNCC Core Ingress traffic Rate is above the configured major threshold i.e. 800 requests per second
Metric Used	<code>oc_ingressgateway_http_requests_total</code>
Resolution	The alert is cleared when the total Ingress Traffic ratefalls below the Major threshold or when the total traffic rate cross the Critical threshold, in which casethe <code>CnccCoreTotalIngressTrafficRateAboveCriticalThreshold</code> Note: The threshold is configurable in the <code>alerts.yaml</code> alert shall be raised.Steps:Reassess why the CNCC Core is receiving additionaltraffic.If this is unexpected, contact My Oracle Support.

6.3.3 CnccCoreTotalIngressTrafficRateAboveCriticalThreshold

Table 6-34 CnccCoreTotalIngressTrafficRateAboveCriticalThreshold

Field	Details
Trigger Condition	The total CNCC Core Ingress Message rate has crossed the configured critical threshold of 900TPS. Default value of this alert trigger point in <code>cncc_alert_rules.yaml</code> is when CNCC Core Ingress Rate crosses 90 % of 1000 (Maximum ingress request rate)
Severity	critical
Alert details provided	CNCC Core Ingress traffic Rate is above the configured critical threshold i.e. 900 requests per second
Metric Used	<code>oc_ingressgateway_http_requests_total</code>
Resolution	The alert is cleared when the Ingress Traffic rate falls below the Critical threshold. Note: The threshold is configurable in the <code>alerts.yaml</code> Steps: Reassess why the CNCC Core is receiving additional traffic. If this is unexpected, contact My Oracle Support.

6.3.4 CnccCoreMemoryUsageCrossedMinorThreshold

Table 6-35 CnccCoreMemoryUsageCrossedMinorThreshold

Field	Details
Trigger Condition	A pod has reached the configured minor threshold(70%) of its memory resource limits.
Severity	minor
Alert details provided	CNCC Core Memory Usage for pod has crossed the configured minor threshold (70%) of its limit.
Metric Used	<code>container_memory_usage_bytes</code> 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 falls below the Minor Threshold or crosses the major threshold, in which case <code>CnccCoreMemoryUsageCrossedMajorThreshold</code> alert shall be raised Note : The threshold is configurable in the <code>alerts.yaml</code> If guidance required, Contact My Oracle Support.

6.3.5 CnccCoreMemoryUsageCrossedMajorThreshold

Table 6-36 CnccCoreMemoryUsageCrossedMajorThreshold

Field	Details
Trigger Condition	A pod has reached the configured major threshold(80%) of its memory resource limits.
Severity	major

Table 6-36 (Cont.) CnccCoreMemoryUsageCrossedMajorThreshold

Field	Details
Alert details provided	CNCC Core Memory Usage for pod has crossed the configured major threshold (80%) of its limit.
Metric Used	container_memory_usage_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 falls below the Major Threshold or crosses the critical threshold, in which case CnccCoreMemoryUsageCrossedCriticalThreshold alert shall be raised Note : The threshold is configurable in the alerts.yaml If guidance required, Contact My Oracle Support.

6.3.6 CnccCoreMemoryUsageCrossedCriticalThreshold

Table 6-37 CnccCoreMemoryUsageCrossedCriticalThreshold

Field	Details
Trigger Condition	A pod has reached the configured critical threshold (90%) of its memory resource limits
Severity	critical
Alert details provided	CNCC Core Memory Usage for pod has crossed the configured critical threshold (90%) of its limit.
Metric Used	container_memory_usage_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 falls below the Critical Threshold. Note : The threshold is configurable in the alerts.yaml If guidance required, Contact My Oracle Support.

6.3.7 CnccCoreTransactionErrorRateAbovePointOnePercent

Table 6-38 CnccCoreTransactionErrorRateAbovePointOnePercent

Field	Details
Trigger Condition	The number of failed transactions is above 0.1 percent of the total transactions.
Severity	warning
Alert details provided	CNCC Core transaction Error rate is above 0.1 Percent of Total Transactions
Metric Used	oc_ingressgateway_http_responses_total

Table 6-38 (Cont.) CnccCoreTransactionErrorRateAbovePointOnePercent

Field	Details
Resolution	The alert is cleared when the number of failure transactions are below 0.1% of the total transactions or when the number of failure transactions cross the 1% threshold in which case the CnccCoreTransactionErrorRateAbove1Percent shall be raised. Steps: 1. Check the Service specific metrics to understand the specific service request errors. 2. If guidance required, contact My Oracle Support.

6.3.8 CnccCoreTransactionErrorRateAboveOnePercent

Table 6-39 CnccCoreTransactionErrorRateAboveOnePercent

Field	Details
Trigger Condition	The number of failed transactions is above 1 percent of the total transactions.
Severity	warning
Alert details provided	CNCC Core transaction Error rate is above 1 Percent of Total Transactions
Metric Used	oc_ingressgateway_http_responses_total
Resolution	The alert is cleared when the number of failure transactions are below 1% of the total transactions or when the number of failure transactions cross the 10% threshold in which case the CnccCoreTransactionErrorRateAbove10Percent shall be raised. Steps: 1. Check the Service specific metrics to understand the specific service request errors. 2. If guidance required, contact My Oracle Support.

6.3.9 CnccCoreTransactionErrorRateAboveTenPercent

Table 6-40 CnccCoreTransactionErrorRateAboveTenPercent

Field	Details
Trigger Condition	The number of failed transactions is above 10 percent of the total transactions.
Severity	minor
Alert details provided	CNCC Core transaction Error rate is above 10 Percent of Total Transactions
Metric Used	oc_ingressgateway_http_responses_total
Resolution	The alert is cleared when the number of failure transactions are below 10% of the total transactions or when the number of failure transactions cross the 25% threshold in which case the CnccCoreTransactionErrorRateAbove25Percent shall be raised. Steps: 1. Check the Service specific metrics to understand the specific service request errors. 2. If guidance required, contact My Oracle Support.

6.3.10 CnccCoreTransactionErrorRateAboveTwentyFivePercent

Table 6-41 CnccCoreTransactionErrorRateAboveTwentyFivePercent

Field	Details
Trigger Condition	The number of failed transactions is above 25 percent of the total transactions.
Severity	major
Alert details provided	CNCC Core transaction Error Rate detected above 25 Percent of Total Transactions
Metric Used	oc_ingressgateway_http_responses_total
Resolution	The alert is cleared when the number of failure transactions are below 25% of the total transactions or when the number of failure transactions cross the 50% threshold in which case the CnccCoreTransactionErrorRateAbove50Percent shall be raised. Steps: 1. Check the Service specific metrics to understand the specific service request errors. 2. If guidance required, contact My Oracle Support.

6.3.11 CnccCoreTransactionErrorRateAboveFiftyPercent

Table 6-42 CnccCoreTransactionErrorRateAboveFiftyPercent

Field	Details
Trigger Condition	The number of failed transactions is above 50 percent of the total transactions.
Severity	critical
Alert details provided	CNCC Core transaction Error Rate detected above 50 Percent of Total Transactions
Metric Used	oc_ingressgateway_http_responses_total
Resolution	The alert is cleared when the number of failure transactions are below 50 percent of the total transactions. Steps: 1. Check the Service specific metrics to understand the specific service request errors. 2. If guidance required, contact My Oracle Support.

6.3.12 CnccCoreUnauthorizedAccess

Table 6-43 CnccCoreUnauthorizedAccess

Field	Details
Trigger Condition	If the count of unauthorized access goes above the configured value of '3'
Severity	warning
Alert details provided	Unauthorized Accesses have been detected in CNCC-Core for request. The configured threshold value is 3 for every 5 min
Metric Used	oc_ingressgateway_http_responses_total

Table 6-43 (Cont.) CnccCoreUnauthorizedAccess

Field	Details
Resolution	The alert gets cleared when the total unauthorized accesses for a particular user go below the threshold value (default value is '3') in the last 5 min (default value is 5 m) Note : The threshold and time is configurable in the alerts.yaml If guidance required, Contact My Oracle Support.

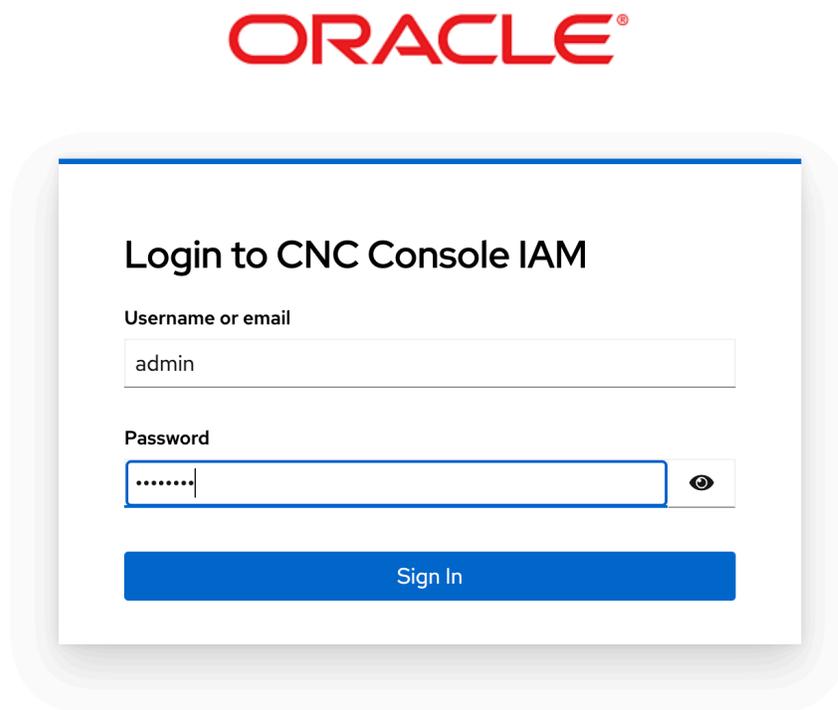
A.1 CNC Console UI Event Logs

This section describes the M-CNCC IAM and M-CNCC Core UI Event Logs.

A.1.1 Login

M-CNCC IAM UI- User login

Figure 1 User login



M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-11-27T14:30:53.648808926Z", "sequence": 2347, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "type=\\"LOGIN\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"security-admin-console\\", userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\", sessionId=\\"20f8b56d-323c-c7ca-baa6-fe9c837653f3\\", ipAddress=\\"10.75.213.184\\", auth_method=\\"openid-connect\\", auth_type=\\"code\\", response_type=\\"code\\", redirect_uri=\\"http://10.75.213.184:30085/cncc/auth/admin/master/console/\\", consent=\\"no_consent_required\\", code_id=\\"20f8b56d-323c-c7ca-baa6-fe9c837653f3\\", username=\\"admin\\", response_mode=\\"query\\", authSessionParentId=\\"20f8b56d-323c-c7ca-baa6-fe9c837653f3\\", authSessionTabId=\\"gcJ7MlP0Gec\\", "threadName": "executor-
```

```
thread-4", "threadId": 46, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 571}
```

M-CNCC IAM Ingress Gateway Logs:

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764253852,
    "nanoOfSecond": 597336446
  },
  "thread": "igw-app-thread5",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "POST",
    "userId": "1",
    "username": "admin",
    "remoteAddress": "xxx.xxx.xxx.xxx:36166",
    "localAddress": "xxx.xxx.xxx.xxx:8081",
    "resourcePath": "/cncc/auth/realms/master/login-actions/authenticate",
    "scheme": "http",
    "queryParams": {
      "session_code": "vQNfAgKZ2fj086nBGeFhZUZyWxfTde0PuCN2jbHFRyM",
      "execution": "75965990-07d5-4dc3-b9aa-e7ad197e41f5",
      "client_id": "security-admin-console",
      "tab_id": "gcJ7MlPOGec",
      "client_data": "eyJyY9hdXRoL2FkbWluL21hc3Rlci9jb25zb2xlLyIsInJ0Ijoiy29kZSI6InJtIjoicXVlcnkiLCJzZCI6ImIxMmQwZjg1LWV1ZTEtNGIzOS1mZDZlLWEzNzAwODY0YTUyY29kZSI9"
    },
    "headers": {
      "Origin": "null",
      "Cookie": "{masked}",
      "Accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "7a413d70-288f-4b45-bfb0-767af8305a55",
      "Host": "xxx.xxx.xxx.xxx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764253852589_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "sbi-timer-publish-headers": "false",
      "Cache-Control": "max-age=0",
      "Upgrade-Insecure-Requests": "1",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "46",
      "sbi-timer-feature": "false",
      "Content-Type": "application/x-www-form-urlencoded"
    },
    "payload": "username=admin&password={masked}&credentialId="
  }
}
```

```

    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 110,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T14:30:52.597+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1868198058",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "1764253852589_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764253853,
    "nanoOfSecond": 770839104
  },
  "thread": "igw-app-thread6",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "POST",
    "userId": "1",
    "username": "admin",
    "resourcePath": "/cncc/auth/realms/master/login-actions/authenticate",
    "scheme": "http",
    "headers": {
      "content-length": "0",
      "transfer-encoding": "chunked",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "POST",
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "X-Robots-Tag": "none",
      "Cache-Control": "no-store, must-revalidate, max-age=0",
      "Content-Security-Policy": "frame-src 'self'; frame-ancestors 'self';
object-src 'none';",
      "NettyLatency": "1764253852589",
      "Set-Cookie": "{masked}",
      "Location": "http://xxx.xxx.xxx.xxx:30085/cncc/auth/admin/master/
console/?state=b12d0f85-dee1-4b39-b06a-
a3700864a5e1&session_state=20f8b56d-323c-c7ca-baa6-
fe9c837653f3&iss=http%3A%2F%2Fxxx.xxx.xxx.xxx%3A30085%2Fcncc%2Fauth%2Frealms%2
Fmaster&code=25a4191b-a508-703e-1976-ef31ac34a31.20f8b56d-323c-c7ca-baa6-
fe9c837653f3.6d475927-19a8-4082-a9f4-8d6b68afbb1a"
    },
    "payload": {}
  }
}

```

```

    "authenticationType": "UNKNOWN",
    "status": "302 FOUND"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 113,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T14:30:53.770+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-909711414",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

M-CNCC Core UI- User login

Figure 2 User login

ORACLE®

M-CNCC IAM Kc Logs:

```

{"timestamp":"2025-11-27T14:34:35.678090562Z","sequence":2369,"loggerClassName":
"org.jboss.logging.Logger","loggerName":"org.keycloak.events","level":"DEBUG",
,"message":"type=\"LOGIN\", realmId=\"cncc\", realmName=\"cncc\",

```



```

        "ocLogId": "1764254075109_70_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
        "sbi-timer-publish-headers": "false",
        "Cache-Control": "max-age=0",
        "Upgrade-Insecure-Requests": "1",
        "Accept-Language": "en-US,en;q=0.9",
        "Content-Length": "47",
        "sbi-timer-feature": "false",
        "Content-Type": "application/x-www-form-urlencoded"
    },
    "payload": "username=user&password={masked}&credentialId=",
    "authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 135,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T14:34:35.113+0000",
"processId": "1",
"ingressTxId": "ingress-tx-678976756",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764254075109_70_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764254075,
    "nanoOfSecond": 704319886
  },
  "thread": "igw-app-thread3",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "POST",
    "userId": "UNKNOWN",
    "username": "UNKNOWN",
    "resourcePath": "/cncc/auth/realms/cncc/login-actions/authenticate",
    "scheme": "http",
    "headers": {
      "content-length": "0",
      "transfer-encoding": "chunked",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "POST",
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "X-Robots-Tag": "none",
      "Cache-Control": "no-store, must-revalidate, max-age=0",
      "Content-Security-Policy": "frame-src 'self'; frame-ancestors 'self';
object-src 'none';",

```

```

    "NettyLatency": "1764254075109",
    "Set-Cookie": "{masked}",
    "Location": "http://xxx.xxx.xxx.xxx:30030/login/oauth2/code/cncc-iam?
state=_q4awhiFuteaa0I1Q9-1nEDcOMIh4us7V2nLiporxig%3D&session_state=475b8a3d-
ce98-789a-46bc-386c30e48c8b&iss=http%3A%2F%2Fxxx.xxx.xxx.xxx%3A30085%2Fcnc%2F
auth%2Frealms%2Fcnc%2Fcode=3c5c714b-e16a-b7bd-6cd8-d0dcf60f3226.475b8a3d-
ce98-789a-46bc-386c30e48c8b.9faaa454-bbaf-4af0-91dd-2d01aa82776d"
  },
  "payload": {},
  "authenticationType": "UNKNOWN",
  "status": "302 FOUND"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 100,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T14:34:35.704+0000",
"processId": "1",
"ingressTxId": "ingress-tx-968859374",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "-",
"instanceType": "prod",
"xRequestId": "-"
}

```

M-CNCC Core Ingress Gateway logs: Audit Log

```

{
  "instant": {
    "epochSecond": 1763534758,
    "nanoOfSecond": 261104272
  },
  "thread": "reactor-http-nio-2",
  "level": "INFO",
  "loggerName":
"ocpm.cne.gateway.cncc.config.CustomAuthenticationSuccessHandler",
  "message": {
    "logType": "AUDIT",
    "type": "LOGIN",
    "resourceType": "CNCC",
    "userId": "c25f872d-6957-4cc5-957f-90c496d225b5",
    "username": "user",
    "userRoles": [
      "DD_WRITE",
      "CNCC_WRITE",
      "BSF_READ",
      "UDR_READ",
      "NSSF_READ",
      "NSSF_WRITE",
      "SEPP_WRITE",
      "PROVGW_READ",
      "CS_WRITE",
      "SCP_READ",
      "default-roles-cncc",
      "offline_access"
    ]
  }
}

```

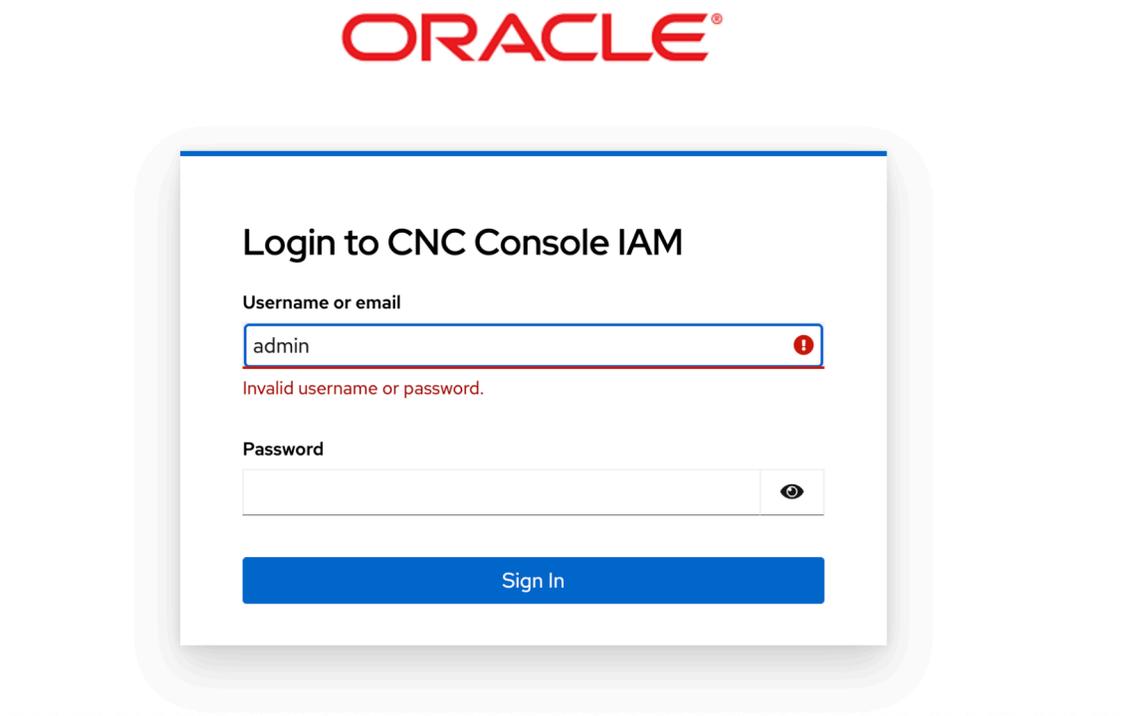
```
"ADMIN",
"SEPP_READ",
"uma_authorization",
"POLICY_WRITE",
"NRF_READ",
"SCP_WRITE",
"OCCM_READ",
"DD_READ",
"POLICY_READ",
"OCCM_WRITE",
"CNCC_READ",
"BSF_WRITE",
"PROVGW_WRITE",
"UDR_WRITE",
"NRF_WRITE"
],
"operationType": "GET",
"remoteAddress": "xxx.xxx.xxx.xxx:46681",
```

Inappropriate output content detected in output blocklist

A.1.2 LOGIN_ERROR

M-CNCC IAM UI- Master realm- Login Error with Brute Force Protection Enabled

Figure 3 Login Error with Brute Force Protection enabled



M-CNCC IAM Kc Logs:

- When a user enters an invalid username and/or password:

Note**Key Attributes to Evaluate:**

```
level:"WARN",
message:"type=\"LOGIN_ERROR\"
error=\"invalid_user_credentials\"
username=\"admin_test\""
```

Event log:

```
{ "timestamp": "2025-11-27T14:48:37.759646496Z", "sequence": 2543, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "WARN", "message": "type=\"LOGIN_ERROR\", realmId=\"master\", realmName=\"master\", clientId=\"security-admin-console\", userId=\"4f960adf-d36a-4706-ae1b-24ca3508c05f\", ipAddress=\"10.75.213.184\", error=\"invalid_user_credentials\", auth_method=\"openid-connect\", auth_type=\"code\", redirect_uri=\"http://10.75.213.184:30085/cncc/auth/admin/master/console/#/master/realms\", code_id=\"8a6becd6-9f29-5ce3-fd85-9247e45b4ec1\", username=\"admin_test\", \"threadName\": \"executor-thread-54\", \"threadId\": 109, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 571}
```

- If the number of LOGIN_ERROR attempts exceeds the configured Max Login Failures threshold (default: 5) with Brute Force Protection (enabled by Default), the following logs will be observed in the next attempt to log in:

Note**Key Attributes to Evaluate**

```
level:"DEBUG",
message:"type=\"USER_DISABLED_BY_TEMPORARY_LOCKOUT\"
num_failures=\"5\"
reason=\"brute_force_attack detected\"
not_before=\"2025-11-17T09:37:50(only present in 6th attempt)
username field isn't present in the 6th attempt
```

Event log:

```
{ "timestamp": "2025-11-27T14:48:37.7692526Z", "sequence": 2544, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "type=\"USER_DISABLED_BY_TEMPORARY_LOCKOUT\", realmId=\"master\", realmName=\"master\", clientId=\"null\", userId=\"4f960adf-d36a-4706-ae1b-24ca3508c05f\",
```

```
ipAddress="\10.75.213.184\", reason=\"brute_force_attack detected\",
not_before=\"2025-11-27T15:18:37\", num_failures=\"1\", \"threadName\": \"kc-
bruteforce-39-0\", \"threadId\": 47, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-
iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 571}
```

- Subsequent login attempts will generate following logs after `brute_force_attack` event log is generated:

Note

Key Attributes to Evaluate

```
level:"WARN",
message:"type=\"LOGIN_ERROR\"
error=\"user_temporarily_disabled\"
username=\"admin\""
```

Event log:

```
{ "timestamp": "2025-11-27T14:49:34.353565336Z", "sequence": 2546, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "WARN", "message": "type=\"LOGIN_ERROR\", realmId=\"master\", realmName=\"master\", clientId=\"security-admin-console\", userId=\"4f960adf-d36a-4706-aeb-24ca3508c05f\", ipAddress=\"10.75.213.184\", error=\"user_temporarily_disabled\", auth_method=\"openid-connect\", auth_type=\"code\", redirect_uri=\"http://10.75.213.184:30085/cncc/auth/admin/master/console/#/master/realms\", code_id=\"8a6becd6-9f29-5ce3-fd85-9247e45b4ec1\", username=\"admin_test\", \"threadName\": \"executor-thread-53\", \"threadId\": 108, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 571}
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764254387,
    "nanoOfSecond": 634506670
  },
  "thread": "igw-app-thread5",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "POST",
    "userId": "1",
    "username": "admin",
    "remoteAddress": "xxx.xxx.xxx.xxx:42411",
    "localAddress": "xxx.xxx.xxx.xxx:8081",
    "resourcePath": "/cncc/auth/realms/master/login-actions/authenticate",
    "scheme": "http",
```

```

"queryParams": {
  "session_code": "LWdhvDZM6j9mRZC-0V5s4a_TrQY3sGnRkoFbE7ivhxs",
  "execution": "75965990-07d5-4dc3-b9aa-e7ad197e41f5",
  "client_id": "security-admin-console",
  "tab_id": "jHQb3x-olHo",
  "client_data": "eyJydSI6Imh0dHA6Ly94eHgueHh4Ln4eDozMDA4NS9jb
mNjYy9hdXRoL2FkbWluL21hc3Rlci9jb25zb2xlLyMvbWVzZGVyL3VzZXJzLzRmOTYwYWRmLWQzNmE
tNDcwNilhZTFiLTI0Y2EzNTA4YzAlZi9jcmVkbWVzZD50aWVzYyIsInJ0IjoiY29kZSIsInJtIjoicXVlc
nkiLCJzdCI6Ijc0NjJhOWU1LTl0ODEtNDhmZC1hMTNmLTc0YjhlNzkyZWQzZCJ9"
},
"headers": {
  "Origin": "null",
  "Cookie": "{masked}",
  "Accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/
avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7",
  "Connection": "keep-alive",
  "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
  "uuidToken": "2e40b37c-5f4d-4d40-b899-d4e242e594d8",
  "Host": "xxx.xxx.xxx.xxx:30085",
  "Accept-Encoding": "gzip, deflate",
  "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
  "ocLogId": "1764254387630_97_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "sbi-timer-publish-headers": "false",
  "Cache-Control": "max-age=0",
  "Upgrade-Insecure-Requests": "1",
  "Accept-Language": "en-US,en;q=0.9",
  "Content-Length": "47",
  "sbi-timer-feature": "false",
  "Content-Type": "application/x-www-form-urlencoded"
},
"payload": "username=admin_test&password={masked}&credentialId=",
"authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 110,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T14:39:47.634+0000",
"processId": "1",
"ingressTxId": "ingress-tx-1998179520",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764254387630_97_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764254387,
    "nanoOfSecond": 854526741
  },
  "thread": "igw-app-thread12",

```

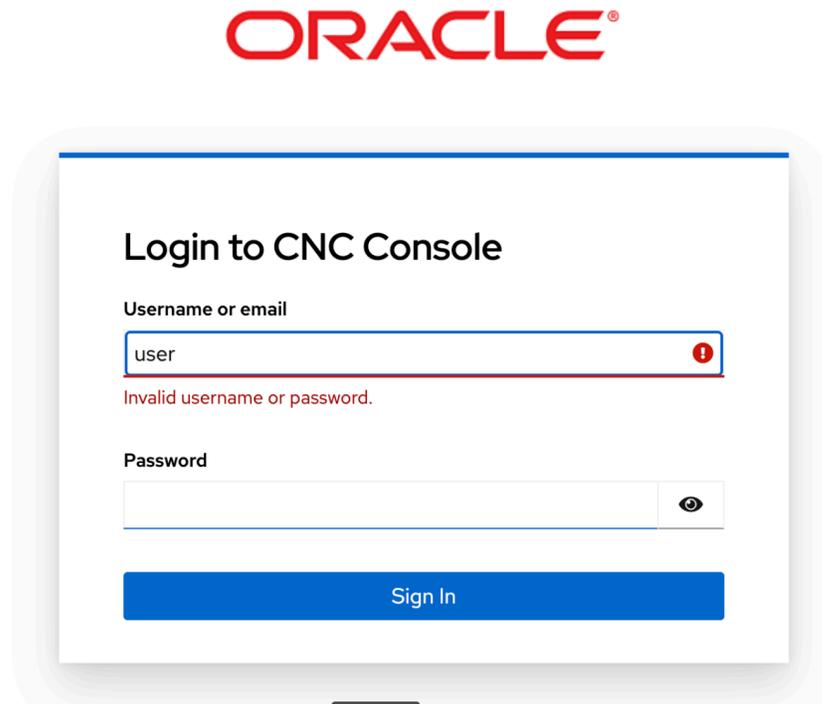
```

"level": "INFO",
"loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
"message": {
  "logType": "SECURITY",
  "type": "RESPONSE",
  "operationType": "POST",
  "userId": "1",
  "username": "admin",
  "resourcePath": "/cncc/auth/realms/master/login-actions/authenticate",
  "scheme": "http",
  "headers": {
    "content-length": "8661",
    "X-Content-Type-Options": "nosniff",
    "RequestMethod": "POST",
    "Referrer-Policy": "no-referrer",
    "X-Frame-Options": "SAMEORIGIN",
    "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
    "X-Robots-Tag": "none",
    "Cache-Control": "no-store, must-revalidate, max-age=0",
    "Content-Security-Policy": "frame-src 'self'; frame-ancestors 'self';
object-src 'none';",
    "NettyLatency": "1764254387630",
    "Content-Language": "en",
    "Content-Type": "text/html;charset=utf-8"
  },
  "payload": {},
  "authenticationType": "UNKNOWN",
  "status": "200 OK"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 128,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T14:39:47.854+0000",
"processId": "1",
"ingressTxId": "ingress-tx-1173116420",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "-",
"instanceType": "prod",
"xRequestId": "-"
}

```

M-CNCC Core UI- Login Error in with Brute Force Protection enabled

Figure 4 Login Error in with Brute Force Protection enabled



M-CNCC IAM Kc Logs

- When a user enters an invalid username and/or password:

```
{ "timestamp": "2025-11-27T14:52:23.939615062Z", "sequence": 2567, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "WARN", "message": "type=\"LOGIN_ERROR\", realmId=\"cncc\", realmName=\"cncc\", clientId=\"cncc\", userId=\"c3108ac1-a5b5-425c-b752-41e4bf36d724\", ipAddress=\"10.75.213.184\", error=\"user_temporarily_disabled\", auth_method=\"openid-connect\", auth_type=\"code\", redirect_uri=\"http://10.75.213.184:30030/login/oauth2/code/cncc-iam\", code_id=\"16ea4573-22ab-f78e-d6aa-37decad33307\", username=\"user_test\", \"threadName\": \"executor-thread-67\", \"threadId\": 127, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 571 }
```

- If the number of `LOGIN_ERROR` attempts exceeds the configured Max Login Failures threshold (default: 5) with Brute Force Protection (enabled by Default), the following logs will be observed in the next attempt to log in:

Note**Key Attributes to Evaluate**

```
level:"DEBUG",
message:"type=\"USER_DISABLED_BY_TEMPORARY_LOCKOUT\
num_failures=\"5\"
reason=\"brute_force_attack detected\"
not_before=\"2025-11-17T09:37:50(only present in 6th attempt)
username field isnt present in the 6th attempt
```

Event log:

```
{ "timestamp": "2025-11-27T13:37:13.565594768Z", "sequence": 2496, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "type=\"USER_DISABLED_BY_TEMPORARY_LOCKOUT\", realmId=\"cncc\", realmName=\"cncc\", clientId=\"null\", userId=\"c3108ac1-a5b5-425c-b752-41e4bf36d724\", ipAddress=\"10.75.213.184\", reason=\"brute_force_attack detected\", not_before=\"2025-11-27T14:07:13\", num_failures=\"5\", \"threadName\": \"kc-bruteforce-952-3\", \"threadId\": 60, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 550 }
```

- Subsequent login attempts will generate following logs after brute_force_attack event log is generated:

Note**Key Attributes to Evaluate**

```
level:"WARN",
message:"type=\"LOGIN_ERROR\"
error=\"user_temporarily_disabled\"
username=\"user_test\"
```

Event log:

```
{ "timestamp": "2025-11-27T14:57:52.77916759Z", "sequence": 2594, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "WARN", "message": "type=\"LOGIN_ERROR\", realmId=\"cncc\", realmName=\"cncc\", clientId=\"cncc\", userId=\"c3108ac1-a5b5-425c-b752-41e4bf36d724\", ipAddress=\"10.75.213.184\", error=\"user_temporarily_disabled\", auth_method=\"openid-connect\", auth_type=\"code\", redirect_uri=\"http://10.75.213.184:30030/login/oauth2/code/cncc-iam\", code_id=\"16ea4573-22ab-f78e-d6aa-37decad33307\", username=\"user_test\", \"threadName\": \"executor-thread-81\", \"threadId\": 144, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 571 }
```

M-CNCC IAM Ingress Gateway Logs

SECURITY- Request log:

```

{
  "instant": {
    "epochSecond": 1764255143,
    "nanoOfSecond": 900330911
  },
  "thread": "igw-app-thread8",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "POST",
    "userId": "UNKNOWN",
    "username": "UNKNOWN",
    "remoteAddress": "xxx.xxx.xxx.xxx:40035",
    "localAddress": "xxx.xxx.xxx.xxx:8081",
    "resourcePath": "/cncc/auth/realms/cncc/login-actions/authenticate",
    "scheme": "http",
    "queryParams": {
      "session_code": "nSfrzV49PIW_qqdsB9QjzFK7M9ufPlraPExq6BWvBg",
      "execution": "91a42aca-f4f5-401f-a63f-ebbed8681d17",
      "client_id": "cncc",
      "tab_id": "hoM8hXq0qB8",
      "client_data":
"eyJydSI6Imh0dHA6Ly94eHgueHh4Lnh4eDozMDAzMC9sb2dpci9vYXV0aDIvY29kZS9jb
mNjLWlhbSIsInJ0Ijoiy29kZSIsInN0Ijoibk1EcEF1bUhiZW1Bc00yaTVnZDFXak0zdZBSVlVTzh
JVlFPZGFrbFptMD0ifQ"
    },
    "headers": {
      "Origin": "null",
      "Cookie": "{masked}",
      "Accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/
avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "e2499a63-39e0-4b51-ad0a-7cb6e7acdf20",
      "Host": "xxx.xxx.xxx.xxx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764255143898_70_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "sbi-timer-publish-headers": "false",
      "Cache-Control": "max-age=0",
      "Upgrade-Insecure-Requests": "1",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "46",
      "sbi-timer-feature": "false",
      "Content-Type": "application/x-www-form-urlencoded"
    },
    "payload": "username={masked}_test&password={masked}&credentialId=",
    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",

```

```

"threadId": 116,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T14:52:23.900+0000",
"processId": "1",
"ingressTxId": "ingress-tx-29641272",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764255143898_70_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764255143,
    "nanoOfSecond": 951946753
  },
  "thread": "igw-app-thread9",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "POST",
    "userId": "UNKNOWN",
    "username": "UNKNOWN",
    "resourcePath": "/cncc/auth/realms/cncc/login-actions/authenticate",
    "scheme": "http",
    "headers": {
      "content-length": "8257",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "POST",
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "X-Robots-Tag": "none",
      "Cache-Control": "no-store, must-revalidate, max-age=0",
      "Content-Security-Policy": "frame-src 'self'; frame-ancestors 'self';
object-src 'none';",
      "NettyLatency": "1764255143898",
      "Content-Language": "en",
      "Content-Type": "text/html;charset=utf-8"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "200 OK"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 117,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T14:52:23.951+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-832908555",

```

```

    "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
    "ocLogId": "-",
    "instanceType": "prod",
    "xRequestId": "-"
  }

```

A.1.3 Refresh Token

A refresh token issues a new access token to extend the user's session without requiring them to log in again.

M-CNCC IAM UI- Refresh Token Logs

M-CNCC IAM Kc Logs:

```

{"timestamp":"2025-11-27T15:01:17.642316786Z","sequence":2607,"loggerClassName":"org.jboss.logging.Logger","loggerName":"org.keycloak.events","level":"DEBUG","message":"type=\"REFRESH_TOKEN\", realmId=\"master\", realmName=\"master\", clientId=\"security-admin-console\", userId=\"acc21615-964a-4055-8c20-fb2705bd641b\", sessionId=\"8bf41957-1eee-e509-3bce-56bf385ec4d6\", ipAddress=\"10.75.213.184\", token_id=\"onrtrt:99622498-4ce5-2523-b2b8-7844f8ac4e8c\", grant_type=\"refresh_token\", refresh_token_type=\"Refresh\", access_token_expiration_time=\"60\", updated_refresh_token_id=\"afd1e0da-298c-45ad-ef45-27416a69692a\", scope=\"openid email profile\", age_of_refresh_token=\"67\", refresh_token_id=\"129ec718-1a9a-551f-b56b-dc205b5bee97\", refresh_token_sub=\"acc21615-964a-4055-8c20-fb2705bd641b\", client_auth_method=\"client-secret\", \"threadName\":\"executor-thread-88\", \"threadId\":154, \"mdc\":{}, \"ndc\": \"\", \"hostName\":\"cncc-iam\", \"processName\":\"/opt/java/jre/bin/java\", \"processId\":571}

```

M-CNCC IAM Ingress Gateway Logs:

SECURITY- Request log:

```

{
  "instant": {
    "epochSecond": 1764255677,
    "nanoOfSecond": 627856372
  },
  "thread": "igw-app-thread14",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "POST",
    "userId": "1",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:xxxxx",
    "localAddress": "xx.xx.xx.xx:xxxx",
    "resourcePath": "/cncc/auth/realms/master/protocol/openid-connect/token",
    "scheme": "http",
    "queryParams": {}
  }
}

```

```

"headers": {
  "Origin": "http://xx.xx.xx.xx:xxxxx",
  "Cookie": "{masked}",
  "Accept": "*/*",
  "Connection": "keep-alive",
  "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
  "uuidToken": "03cf3cda-2e80-4f7c-b6c1-cdb56e2600a7",
  "Host": "xx.xx.xx.xx:xxxxx",
  "Accept-Encoding": "gzip, deflate",
  "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
  "ocLogId": "1764255677625_70_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "sbi-timer-publish-headers": "false",
  "Content-type": "application/x-www-form-urlencoded",
  "Accept-Language": "en-US,en;q=0.9",
  "Content-Length": "782",
  "sbi-timer-feature": "false"
},
"payload": "grant_type={masked}&refresh_token={masked}&client_id=security-
admin-console",
"authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 130,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T15:01:17.627+0000",
"processId": "1",
"ingressTxId": "ingress-tx-539009905",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764255677625_70_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764255677,
    "nanoOfSecond": 663699378
  },
  "thread": "igw-app-thread19",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "POST",
    "userId": "1",
    "username": "admin",
    "resourcePath": "/cncc/auth/realms/master/protocol/openid-connect/token",
    "scheme": "http",
    "headers": {
      "content-length": "4205",

```

```

"Access-Control-Allow-Origin": "http://xx.xx.xx.xx:xxxxx",
"X-Content-Type-Options": "nosniff",
"RequestMethod": "POST",
"Pragma": "no-cache",
"Referrer-Policy": "no-referrer",
"X-Frame-Options": "SAMEORIGIN",
"Access-Control-Expose-Headers": "Access-Control-Allow-Methods",
"Strict-Transport-Security": "max-age=31536000; includeSubDomains",
"Cache-Control": "no-store",
"Access-Control-Allow-Credentials": "true",
"NettyLatency": "1764255677625",
"Content-Type": "application/json"
},
"payload": {
  "access_token": "{masked}",
  "expires_in": 60,
  "refresh_expires_in": 1800,
  "refresh_token": "{masked}",
  "token_type": "Bearer",
  "id_token": "{masked}",
  "not-before-policy": 0,
  "session_state": "{masked}",
  "scope": "openid email profile"
},
"authenticationType": "UNKNOWN",
"status": "200 OK"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 135,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T15:01:17.663+0000",
"processId": "1",
"ingressTxId": "ingress-tx-1218880694",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "-",
"instanceType": "prod",
"xRequestId": "-"
}

```

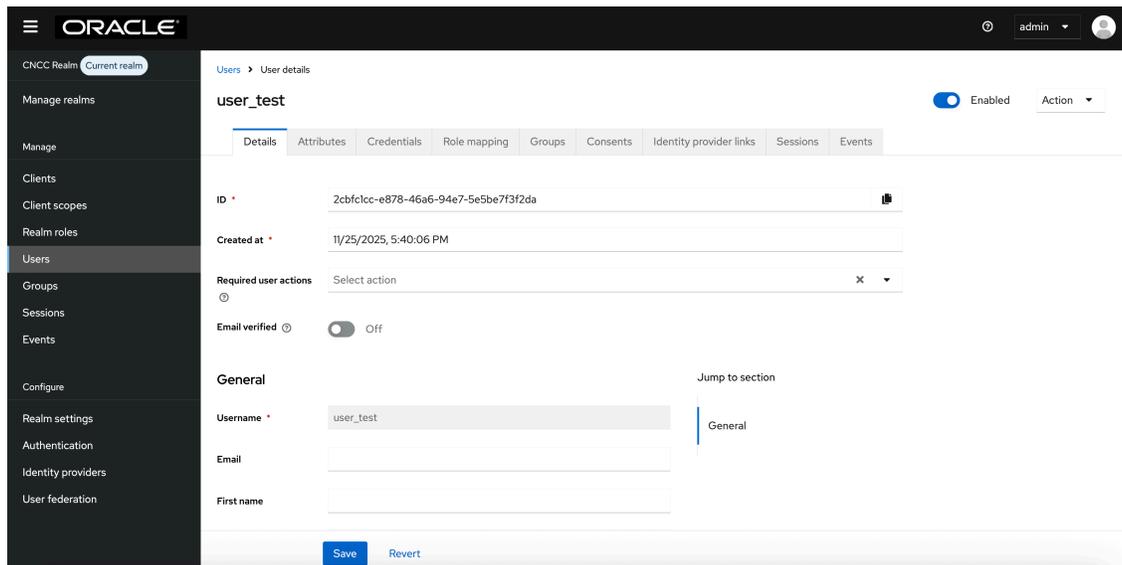
Note

Similar logs will be obtained for M-CNCC Core UI with realm set to cncc.

A.1.4 USER_CREATE

M-CNCC IAM UI- cncc Realm- User Creation Event

Figure 5 User details



M-CNCC IAM Kc Logs:

Note

- `userId` field in the log depicts which ADMIN User is performing this `USER_CREATE` event
- `resourcePath` in the logs depicts the `UserId` of the user which got created

Event log:

```
{ "timestamp": "2025-11-27T15:05:18.927732842Z", "sequence": 2613, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"CREATE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\", ipAddress=\\"10.75.213.184\\", resourceType=\\"USER\\", resourcePath=\\"users/ce2362ff-5fd7-4596-8846-e6a46be0819f\\", "threadName": "executor-thread-91", "threadId": 158, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 571 }
```

M-CNCC IAM Ingress Gateway logs:

SECURITY- Request log:

```

{
  "instant": {
    "epochSecond": 1764255918,
    "nanoOfSecond": 806555890
  },
  "thread": "igw-app-thread8",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "POST",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:xxxxx",
    "localAddress": "xx.xx.xx.xx:xxxx",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xx.xx.xx.xx:xxxxx",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "9efc97ba-8d29-48c1-ac49-89ede18d6a4d",
      "Host": "xx.xx.xx.xx:xxxxx",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764255918804_97_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "151",
      "sbi-timer-feature": "false"
    },
  },
  "payload": {
    "requiredActions": [],
    "emailVerified": false,
    "username": "user_test2",
    "email": "",
    "firstName": "",
    "lastName": "",
    "groups": [],
    "attributes": {},
    "enabled": true
  },
  "authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 116,

```

```

"threadPriority": 5,
"messageTimestamp": "2025-11-27T15:05:18.806+0000",
"processId": "1",
"ingressTxId": "ingress-tx-615688795",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764255918804_97_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764255918,
    "nanoOfSecond": 933502119
  },
  "thread": "igw-app-thread17",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "POST",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users",
    "scheme": "http",
    "headers": {
      "content-length": "0",
      "transfer-encoding": "chunked",
      "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:xxxxx",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "POST",
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "Access-Control-Allow-Credentials": "true",
      "NettyLatency": "1764255918804",
      "Location": "http://xx.xx.xx.xx:xxxxx/cncc/auth/admin/realms/cncc/users/ce2362ff-5fd7-4596-8846-e6a46be0819f"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "201 CREATED"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 133,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T15:05:18.933+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-43404993",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",

```

```

"ocLogId": "-",
"instanceType": "prod",
"xRequestId": "-"
}

```

Note

Similar logs will also be observed for the default realm.

A.1.5 USER_UPDATE_PROFILE

The user update profile logs capture updates made to user profile fields, including changes to the email address, first name, last name, and other user attributes.

M-CNCC IAM UI- cncc Realm- User Profile Update Event

Figure 6 Update user profile

The screenshot shows the Oracle IAM console interface for updating a user profile. The left sidebar contains navigation options: CNCC Realm (Current realm), Manage realms, Manage, Clients, Client scopes, Realm roles, Users (selected), Groups, Sessions, Events, Configure, Realm settings, Authentication, Identity providers, and User federation. The main content area displays the 'Update user profile' form for the user 'user_test2'. The form includes the following fields and controls:

- Created at:** 11/27/2025, 8:35:18 PM
- Required user actions:** Select action (dropdown menu)
- Email verified:** Off (toggle switch)
- General section:**
 - Username:** user_test2
 - Email:** test@oracle.com (input field)
 - First name:** (input field)
 - Last name:** (input field)
 - Temporarily locked:** Off (toggle switch)
- Buttons:** Save and Revert

M-CNCC IAM Kc Logs:

Note

- `userId` field in the log depicts which ADMIN User is performing this `USER_UPDATE_PROFILE` event.
- `resourcePath` in the logs depicts the `UserId` of the user whose profile got updated.

Event log:

```

{"timestamp":"2025-11-27T15:11:24.460784636Z","sequence":2627,"loggerClassName":
": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG

```

```

    ,"message":{"operationType="\UPDATE\", realmId="\master\",
    realmName="\master\", clientId="\6d475927-19a8-4082-a9f4-8d6b68afbb1a\",
    userId="\acc21615-964a-4055-8c20-fb2705bd641b\", ipAddress="\10.75.213.184\",
    resourceType="\USER\", resourcePath="\users/ce2362ff-5fd7-4596-8846-
    e6a46be0819f\""}, "threadName":"executor-thread-95", "threadId":168, "mdc":
    {}, "ndc":"","hostName":"cncc-iam", "processName":"/opt/java/jre/bin/
    java", "processId":571}

```

M-CNCC IAM Ingress Gateway logs:

SECURITY- Request log:

```

{
  "instant": {
    "epochSecond": 1764256284,
    "nanoOfSecond": 416975413
  },
  "thread": "igw-app-thread6",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "PUT",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:xxxxx",
    "localAddress": "xx.xx.xx.xx:xxxx",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/
    ce2362ff-5fd7-4596-8846-e6a46be0819f",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xx.xx.xx.xx:xxxxx",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
      AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "21c8a1c4-d3a7-4261-a5ab-eba08e651287",
      "Host": "xx.xx.xx.xx:xxxxx",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764256284415_92_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "412",
      "sbi-timer-feature": "false"
    },
    "payload": {
      "id": "ce2362ff-5fd7-4596-8846-e6a46be0819f",
      "username": "user_test2",
      "emailVerified": false,
      "enabled": true,

```

```

    "createdTimestamp": 1764255918891,
    "totp": false,
    "disableableCredentialTypes": [],
    "requiredActions": [],
    "notBefore": 0,
    "access": {
      "manageGroupMembership": true,
      "resetPassword": true,
      "view": true,
      "mapRoles": true,
      "impersonate": true,
      "manage": true
    },
    "attributes": {},
    "email": "test@oracle.com",
    "firstName": "",
    "lastName": ""
  },
  "authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 113,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T15:11:24.416+0000",
"processId": "1",
"ingressTxId": "ingress-tx-1560334606",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764256284415_92_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764256284,
    "nanoOfSecond": 467541799
  },
  "thread": "igw-app-thread5",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "PUT",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/
ce2362ff-5fd7-4596-8846-e6a46be0819f",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",

```

```

    "Access-Control-Expose-Headers": "Location",
    "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
    "transfer-encoding": "chunked",
    "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:xxxxx",
    "Access-Control-Allow-Credentials": "true",
    "X-Content-Type-Options": "nosniff",
    "RequestMethod": "PUT",
    "NettyLatency": "1764256284415"
  },
  "payload": {},
  "authenticationType": "UNKNOWN",
  "status": "204 NO_CONTENT"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 110,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T15:11:24.467+0000",
"processId": "1",
"ingressTxId": "ingress-tx-1456270284",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "-",
"instanceType": "prod",
"xRequestId": "-"
}

```

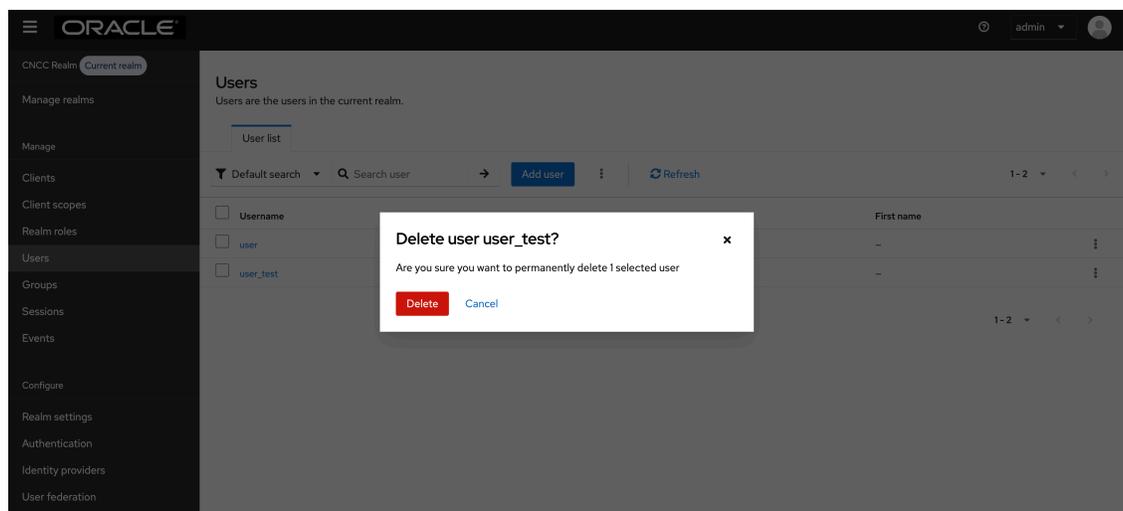
Note

Similar logs will also be observed for the default realm.

A.1.6 USER_DELETE

M-CNCC IAM UI- cncc Realm- User Deletion Event

Figure 7 Delete user



M-CNCC IAM Kc Logs

Note

- `userId` field in the log depicts which ADMIN User is performing this `USER_DELETE` event.
- `resourcePath` in the logs depicts the `UserId` of the user which got deleted.

Event log:

```
{ "timestamp": "2025-11-27T15:13:35.626159405Z", "sequence": 2630, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"DELETE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\", ipAddress=\\"10.75.213.184\\", resourceType=\\"USER\\", resourcePath=\\"users/ce2362ff-5fd7-4596-8846-e6a46be0819f\\", "threadName": "executor-thread-96", "threadId": 172, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 571 }
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764256415,
    "nanoOfSecond": 448295140
  },
  "thread": "igw-app-thread16",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "DELETE",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:xxxxx",
    "localAddress": "xx.xx.xx.xx:xxxx",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/ce2362ff-5fd7-4596-8846-e6a46be0819f",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xx.xx.xx.xx:xxxxx",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "46afa106-6056-406f-b8bc-0d40d2b5ee71",
      "Host": "xx.xx.xx.xx:xxxxx",
      "Accept-Encoding": "gzip, deflate",

```

```

    "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
    "ocLogId": "1764256415445_92_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
    "accept": "application/json, text/plain, */*",
    "sbi-timer-publish-headers": "false",
    "authorization": "{masked}",
    "content-type": "application/json",
    "Accept-Language": "en-US,en;q=0.9",
    "Content-Length": "2",
    "sbi-timer-feature": "false"
  },
  "payload": {},
  "authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 132,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T15:13:35.448+0000",
"processId": "1",
"ingressTxId": "ingress-tx-970863000",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764256415445_92_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764256415,
    "nanoOfSecond": 635694136
  },
  "thread": "igw-app-thread13",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "DELETE",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/
ce2362ff-5fd7-4596-8846-e6a46be0819f",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "transfer-encoding": "chunked",
      "Cache-Control": "no-cache",
      "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:xxxxx",
      "Access-Control-Allow-Credentials": "true",
      "X-Content-Type-Options": "nosniff",

```

```

    "RequestMethod": "DELETE",
    "NettyLatency": "1764256415445"
  },
  "payload": {},
  "authenticationType": "UNKNOWN",
  "status": "204 NO_CONTENT"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 129,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T15:13:35.635+0000",
"processId": "1",
"ingressTxId": "ingress-tx-2129472853",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "-",
"instanceType": "prod",
"xRequestId": "-"
}

```

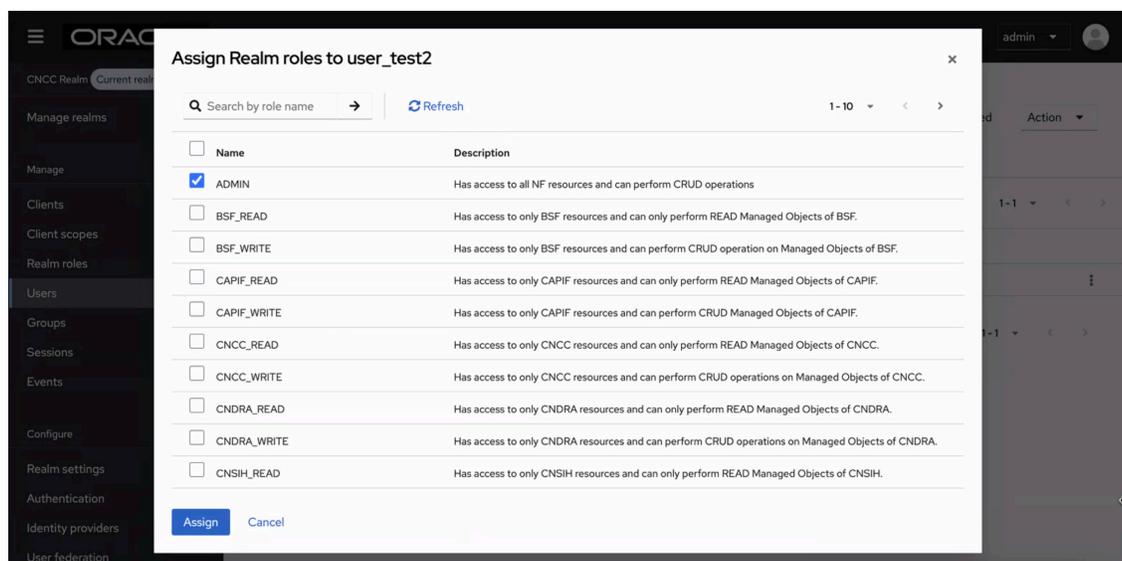
Note

Similar logs will also be observed for the default realm.

A.1.7 REALM_ROLE_MAPPING_CREATE

M-CNCC IAM UI- cncc Realm- Assign Role to the User

Figure 8 Assign Role to user



M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-11-27T15:07:51.038041412Z", "sequence": 2622, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"CREATE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\", ipAddress=\\"10.75.213.184\\", resourceType=\\"REALM_ROLE_MAPPING\\", resourcePath=\\"users/ce2362ff-5fd7-4596-8846-e6a46be0819f/role-mappings/realm\\", "threadName": "executor-thread-92", "threadId": 162, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 571 }
```

M-CNCC IAM Ingress Gateway logs**SECURITY- Request log:**

```
{
  "instant": {
    "epochSecond": 1764256071,
    "nanoOfSecond": 12758028
  },
  "thread": "igw-app-thread16",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "POST",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:xxxxx",
    "localAddress": "xx.xx.xx.xx:xxxx",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/ce2362ff-5fd7-4596-8846-e6a46be0819f/role-mappings/realm",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xx.xx.xx.xx:30085",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "db1864a7-cf5b-470d-bb59-5adb0381c7bc",
      "Host": "10.75.213.184:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764256071010_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "198",
      "sbi-timer-feature": "false"
    }
  },
}
```

```

    "payload": "[{"id": "fc5006e0-3927-4034-a01f-af70d779f1f8", "name": "ADMIN", "description": "Has access to all NF resources and can perform CRUD operations", "composite": true, "clientRole": false, "containerId": "cncc"}]",
    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 132,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T15:07:51.012+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-288142735",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "1764256071010_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764256071,
    "nanoOfSecond": 43259305
  },
  "thread": "igw-app-thread13",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "POST",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/ce2362ff-5fd7-4596-8846-e6a46be0819f/role-mappings/realm",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "transfer-encoding": "chunked",
      "Access-Control-Allow-Origin": "http://10.75.213.184:30085",
      "Access-Control-Allow-Credentials": "true",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "POST",
      "NettyLatency": "1764256071010"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "204 NO_CONTENT"
  },
}

```

```

"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 129,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T15:07:51.043+0000",
"processId": "1",
"ingressTxId": "ingress-tx-2129472853",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "-",
"instanceType": "prod",
"xRequestId": "-"
}

```

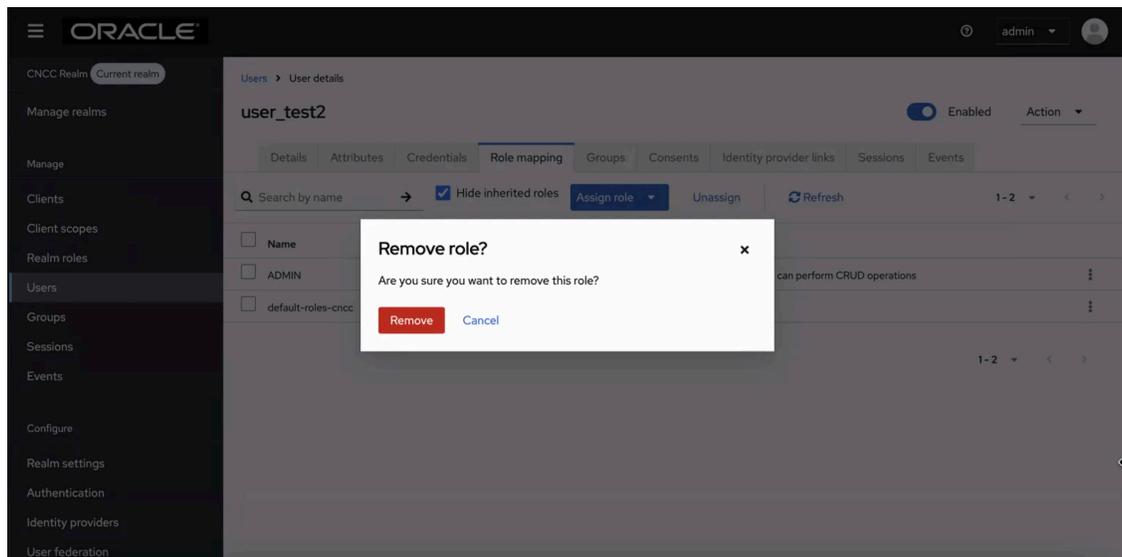
Note

Similar logs will also be observed for the `cncc` realm.

A.1.8 REALM_ROLE_MAPPING_DELETE

M-CNCC IAM UI- cncc Realm- Unassign Role from the User

Figure 9 Remove role



M-CNCC IAM Kc Logs:

```

{"timestamp":"2025-11-27T15:09:10.856656699Z","sequence":2624,"loggerClassName":
"org.jboss.logging.Logger","loggerName":"org.keycloak.events","level":"DEBUG",
"message":"operationType=\\"DELETE\\" , realmId=\\"master\\" ,
realmName=\\"master\\" , clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\" ,
userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\" , ipAddress=\\"10.75.213.184\\" ,
resourceType=\\"REALM_ROLE_MAPPING\\" , resourcePath=\\"users/
ce2362ff-5fd7-4596-8846-e6a46be0819f/role-mappings/

```

```
realm\","threadName":"executor-thread-92","threadId":162,"mdc":
{},"ndc":"","hostName":"cncc-iam","processName":"/opt/java/jre/bin/
java","processId":571}
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764256150,
    "nanoOfSecond": 828535717
  },
  "thread": "igw-app-thread20",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "DELETE",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:7823",
    "localAddress": "xx.xx.xx.xx:8081",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/
ce2362ff-5fd7-4596-8846-e6a46be0819f/role-mappings/realms",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xx.xx.xx.xx:30085",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "d06decf5-3549-4081-a380-93fb9e3fc70b",
      "Host": "xx.xx.xx.xx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764256150826_97_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "62",
      "sbi-timer-feature": "false"
    },
    "payload": "[{"id":"fc5006e0-3927-4034-a01f-
af70d779f1f8","name":"ADMIN"}]",
    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 136,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T15:09:10.828+0000",
```

```

    "processId": "1",
    "ingressTxId": "ingress-tx-1052996107",
    "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
    "ocLogId": "1764256150826_97_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
    "instanceType": "prod",
    "xRequestId": "-"
  }
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764256150,
    "nanoOfSecond": 866340087
  },
  "thread": "igw-app-thread19",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "DELETE",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/ce2362ff-5fd7-4596-8846-e6a46be0819f/role-mappings/realm",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "transfer-encoding": "chunked",
      "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:30085",
      "Access-Control-Allow-Credentials": "true",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "DELETE",
      "NettyLatency": "1764256150826"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "204 NO_CONTENT"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 135,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T15:09:10.866+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1218880694",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

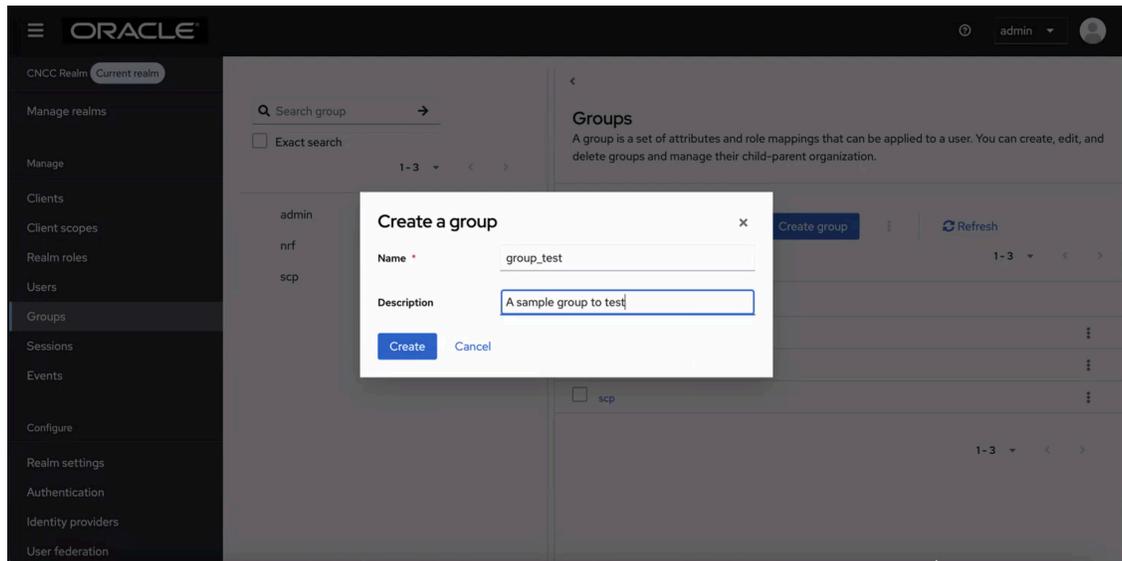
Note

Similar logs will also be observed for the default realm.

A.1.9 GROUP_CREATE

M-CNCC IAM UI- cncc Realm- Creating a group

Figure 10 Create a group



M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-11-27T16:00:34.539776136Z", "sequence": 2643, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"CREATE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\", ipAddress=\\"10.75.213.184\\", resourceType=\\"GROUP\\", resourcePath=\\"groups/d8cbf600-718a-48af-98f6-bcf196e668ae\\", "threadName": "executor-thread-105", "threadId": 200, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 571 }
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764259234,
    "nanoOfSecond": 504402070
  },
  "thread": "igw-app-thread1",
```

```

"level": "INFO",
"loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
"message": {
  "logType": "SECURITY",
  "type": "REQUEST",
  "operationType": "POST",
  "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
  "username": "admin",
  "remoteAddress": "xx.xx.xx.xx:xxxx",
  "localAddress": "xx.xx.xx.xx:xxxx",
  "resourcePath": "/cncc/auth/admin/realms/cncc/groups",
  "scheme": "http",
  "queryParams": {},
  "headers": {
    "Origin": "http://xx.xx.xx.xx:xxxx",
    "Cookie": "{masked}",
    "Connection": "keep-alive",
    "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
    "uuidToken": "f6f77ala-elae-41ff-86a8-ef0c4e7a28b6",
    "Host": "xx.xx.xx.xx:xxxx",
    "Accept-Encoding": "gzip, deflate",
    "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
    "ocLogId": "1764259234502_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
    "accept": "application/json, text/plain, */*",
    "sbi-timer-publish-headers": "false",
    "authorization": "{masked}",
    "content-type": "application/json",
    "Accept-Language": "en-US,en;q=0.9",
    "Content-Length": "60",
    "sbi-timer-feature": "false"
  },
  "payload": {
    "name": "group_test",
    "description": "A sample group to test"
  },
  "authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 93,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T16:00:34.504+0000",
"processId": "1",
"ingressTxId": "ingress-tx-82116594",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764259234502_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {

```

```

    "epochSecond": 1764259234,
    "nanoOfSecond": 544206723
  },
  "thread": "igw-app-thread18",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "POST",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/groups",
    "scheme": "http",
    "headers": {
      "content-length": "0",
      "transfer-encoding": "chunked",
      "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:xxxx",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "POST",
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "Access-Control-Allow-Credentials": "true",
      "NettyLatency": "1764259234502",
      "Location": "http://xx.xx.xx.xx:xxxx/cncc/auth/admin/realms/cncc/groups/
d8cbf600-718a-48af-98f6-bcf196e668ae"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "201 CREATED"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 134,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:00:34.544+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1138885579",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

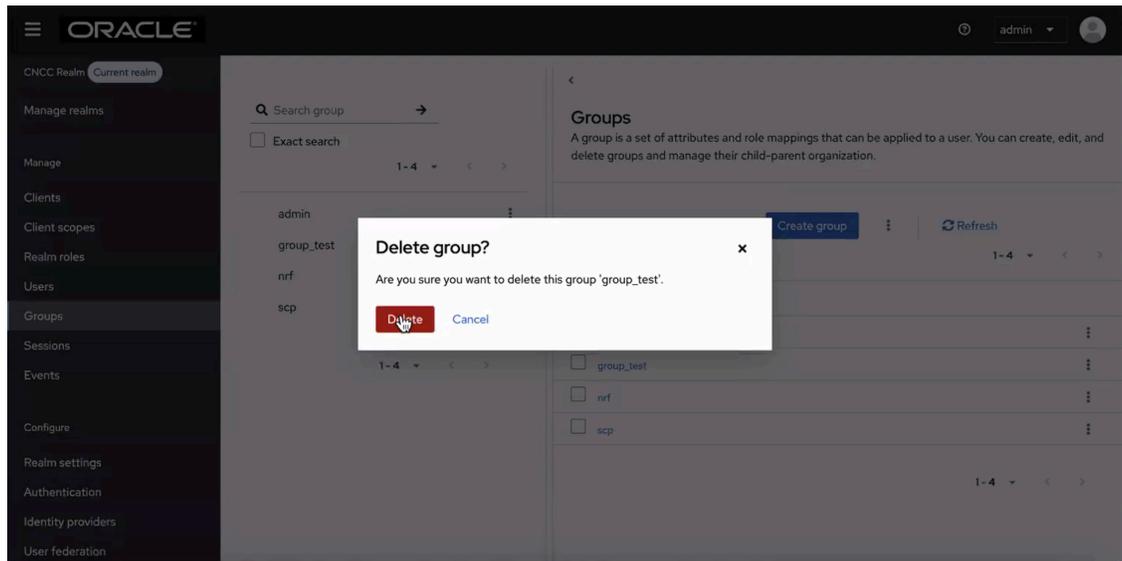
Note

Similar logs will also be observed for the default realm.

A.1.10 GROUP_DELETE

M-CNCC IAM UI- cncc Realm- Deleting a group

Figure 11 Delete group



M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-11-27T16:03:31.971227604Z", "sequence": 2645, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"DELETE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afb1a\\", userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\", ipAddress=\\"10.75.213.184\\", resourceType=\\"GROUP\\", resourcePath=\\"groups/d8cbf600-718a-48af-98f6-bcf196e668ae\\", "threadName": "executor-thread-105", "threadId": 200, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 571 }
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764259411,
    "nanoOfSecond": 922920566
  },
  "thread": "igw-app-thread20",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
  }
}
```

```

"operationType": "DELETE",
"userId": "acc21615-964a-4055-8c20-fb2705bd641b",
"username": "admin",
"remoteAddress": "xx.xx.xx.xx:xxxx",
"localAddress": "xx.xx.xx.xx:xxxx",
"resourcePath": "/cncc/auth/admin/realms/cncc/groups/
d8cbf600-718a-48af-98f6-bcf196e668ae",
"scheme": "http",
"queryParams": {},
"headers": {
  "Origin": "http://xx.xx.xx.xx:xxxx",
  "Cookie": "{masked}",
  "Connection": "keep-alive",
  "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
  "uuidToken": "1824c459-587a-4914-befb-4ee2dcd750a5",
  "Host": "xx.xx.xx.xx:xxxx",
  "Accept-Encoding": "gzip, deflate",
  "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
  "ocLogId": "1764259411921_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "accept": "application/json, text/plain, */*",
  "sbi-timer-publish-headers": "false",
  "authorization": "{masked}",
  "content-type": "application/json",
  "Accept-Language": "en-US,en;q=0.9",
  "Content-Length": "2",
  "sbi-timer-feature": "false"
},
"payload": {},
"authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 136,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T16:03:31.922+0000",
"processId": "1",
"ingressTxId": "ingress-tx-1432841308",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764259411921_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764259411,
    "nanoOfSecond": 978409519
  },
  "thread": "igw-app-thread6",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {

```

```
"logType": "SECURITY",
"type": "RESPONSE",
"operationType": "DELETE",
"userId": "acc21615-964a-4055-8c20-fb2705bd641b",
"username": "admin",
"resourcePath": "/cncc/auth/admin/realms/cncc/groups/
d8cbf600-718a-48af-98f6-bcf196e668ae",
"scheme": "http",
"headers": {
  "Referrer-Policy": "no-referrer",
  "X-Frame-Options": "SAMEORIGIN",
  "Access-Control-Expose-Headers": "Location",
  "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
  "transfer-encoding": "chunked",
  "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:xxxx",
  "Access-Control-Allow-Credentials": "true",
  "X-Content-Type-Options": "nosniff",
  "RequestMethod": "DELETE",
  "NettyLatency": "1764259411921"
},
"payload": {},
"authenticationType": "UNKNOWN",
"status": "204 NO_CONTENT"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 113,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T16:03:31.978+0000",
"processId": "1",
"ingressTxId": "ingress-tx-396558232",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "-",
"instanceType": "prod",
"xRequestId": "-"
}
```

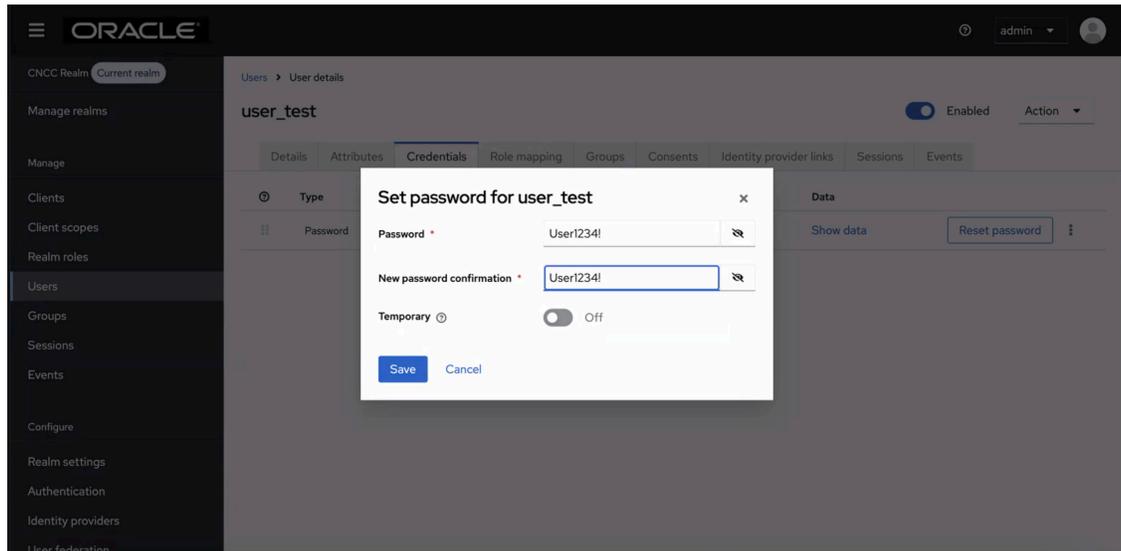
Note

Similar logs will also be observed for the `cncc` realm.

A.1.11 Reset password

M-CNCC IAM UI- cncc Realm- Reset password Event

Figure 12 M-CNCC IAM UI- cncc Realm- Reset password Event



M-CNCC IAM Kc Logs

Note

- `userId` field in the log depicts which ADMIN User is performing the reset password action.
- `resourcePath` in the logs depicts the `UserId` of the user whose password is getting reset.

Event log:

```
{ "timestamp": "2025-11-27T16:41:20.279837473Z", "sequence": 2701, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\ACTION\\", realmId=\\master\\", realmName=\\master\\", clientId=\\6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\acc21615-964a-4055-8c20-fb2705bd641b\\", ipAddress=\\10.75.213.184\\", resourceType=\\USER\\", resourcePath=\\users/c3108ac1-a5b5-425c-b752-41e4bf36d724/reset-password\\", "threadName": "executor-thread-138", "threadId": 250, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 571 }
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```

{
  "instant": {
    "epochSecond": 1764261679,
    "nanoOfSecond": 509867008
  },
  "thread": "igw-app-thread5",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "PUT",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:xxxx",
    "localAddress": "xx.xx.xx.xx:xxxx",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/c3108ac1-a5b5-425c-
b752-41e4bf36d724/reset-password",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xx.xx.xx.xx:xxxx",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "17ca23d1-115b-4eb3-afb1-7f293e311674",
      "Host": "xx.xx.xx.xx:xxxx",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764261679508_97_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "57",
      "sbi-timer-feature": "false"
    },
    "payload": "{\\"temporary\\":false,\\"type\\":{masked},\\"value\\":{masked}}",
    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 110,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:41:19.509+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-428217452",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "1764261679508_97_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "instanceType": "prod",

```

```
"xRequestId": "-"
}
```

SECURITY- Response log:

```
{
  "instant": {
    "epochSecond": 1764261680,
    "nanoOfSecond": 285525562
  },
  "thread": "igw-app-thread14",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "PUT",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/c3108ac1-a5b5-425c-b752-41e4bf36d724/reset-password",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "transfer-encoding": "chunked",
      "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:xxxx",
      "Access-Control-Allow-Credentials": "true",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "PUT",
      "NettyLatency": "1764261679508"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "204 NO_CONTENT"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 130,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:41:20.285+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-750888502",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}
```

Note

Similar logs will also be observed for the default realm.

M-CNCC IAM UI- cncc Realm- Reset password Error Scenarios

When the new password do not match the password policy defined for cncc realm (ex: MinSpecialChar)

Figure 13 Set Password

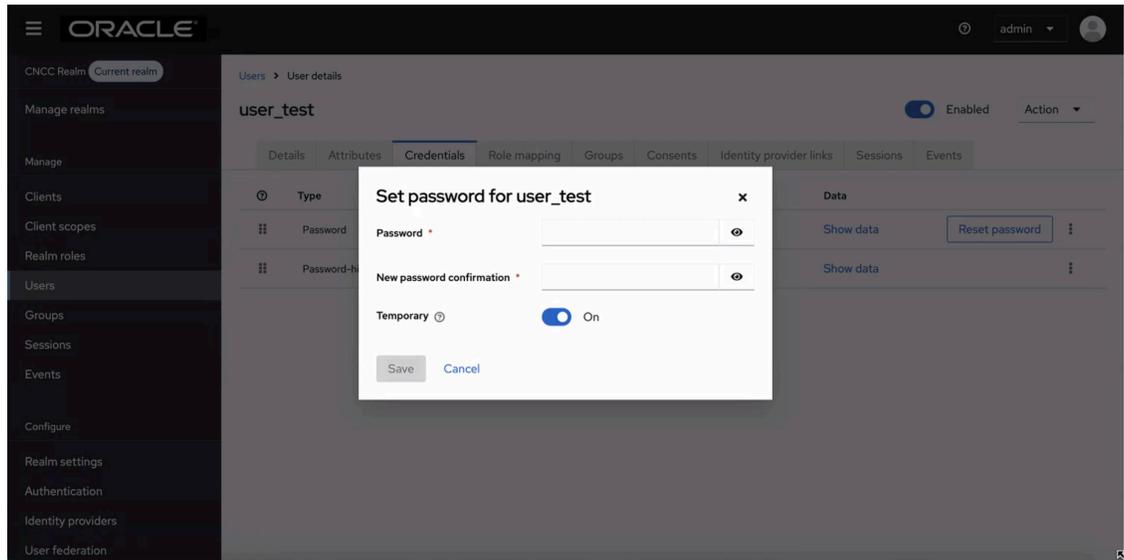
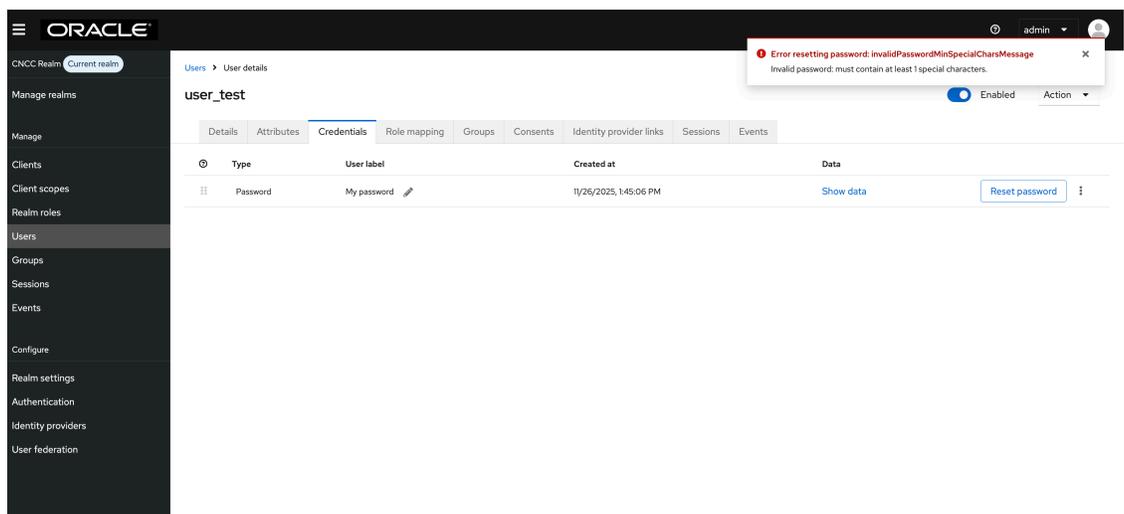


Figure 14 Password Reset Error



M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-11-19T13:14:28.223388787Z", "sequence": 3936, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.services.resources.admin.UserResource", "level": "WARN", "message": "Could not update user password.", "threadName": "executor-thread-381", "threadId": 3322, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 577, "exception": { "refId": 1, "exceptionType": "org.keycloak.models.ModelException", "message": "invalidPasswordMinSpecialCharsMessage", "frames": [ { "class": "org.keycloak.credential.PasswordCredentialProvider", "method": "createCredential", "line": 90 }, { "class": "org.keycloak.credential.PasswordCredentialProvider", "method": "updateCredential", "line": 189 }, { "class": "org.keycloak.credential.UserCredentialManager", "method": "lambda$updateCredential$2", "line": 98 } ] }
```

M-CNCC IAM Ingress Gateway logs**SECURITY- Request log:**

```
{
  "instant": {
    "epochSecond": 1764261841,
    "nanoOfSecond": 397904714
  },
  "thread": "igw-app-thread20",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "PUT",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:xxxx",
    "localAddress": "xx.xx.xx.xx:xxxx",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/c3108ac1-a5b5-425c-b752-41e4bf36d724/reset-password",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xx.xx.xx.xx:xxxx",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "e8c7e3d8-5d62-4fc5-82c4-62d8654115cc",
      "Host": "xx.xx.xx.xx:xxxx",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764261841396_97_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",

```

```

    "Accept-Language": "en-US,en;q=0.9",
    "Content-Length": "55",
    "sbi-timer-feature": "false"
  },
  "payload": "{masked}",
  "authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 136,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T16:44:01.397+0000",
"processId": "1",
"ingressTxId": "ingress-tx-1177476893",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764261841396_97_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764261841,
    "nanoOfSecond": 416506438
  },
  "thread": "igw-app-thread4",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "PUT",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/users/c3108ac1-a5b5-425c-b752-41e4bf36d724/reset-password",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "content-length": "133",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "Access-Control-Allow-Origin": "http://xx.xx.xx:xxxx",
      "Access-Control-Allow-Credentials": "true",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "PUT",
      "NettyLatency": "1764261841396",
      "Content-Type": "application/json"
    },
    "payload": {
      "error": "invalidPasswordMinSpecialCharsMessage",
      "error_description": "Invalid password: must contain at least 1 special

```

```

characters."
  },
  "authenticationType": "UNKNOWN",
  "status": "400 BAD_REQUEST"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 109,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T16:44:01.416+0000",
"processId": "1",
"ingressTxId": "ingress-tx-1331675039",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "-",
"instanceType": "prod",
"xRequestId": "-"
}

```

Note

Similar logs will also be observed for the default realm.

When a M-CNCC Core User's password is marked as *Temporary* in M-CNCC IAM UI, but a same temporary password is entered in the "Update Password" screen during login on M-CNCC Core UI

Figure 15 Set Password

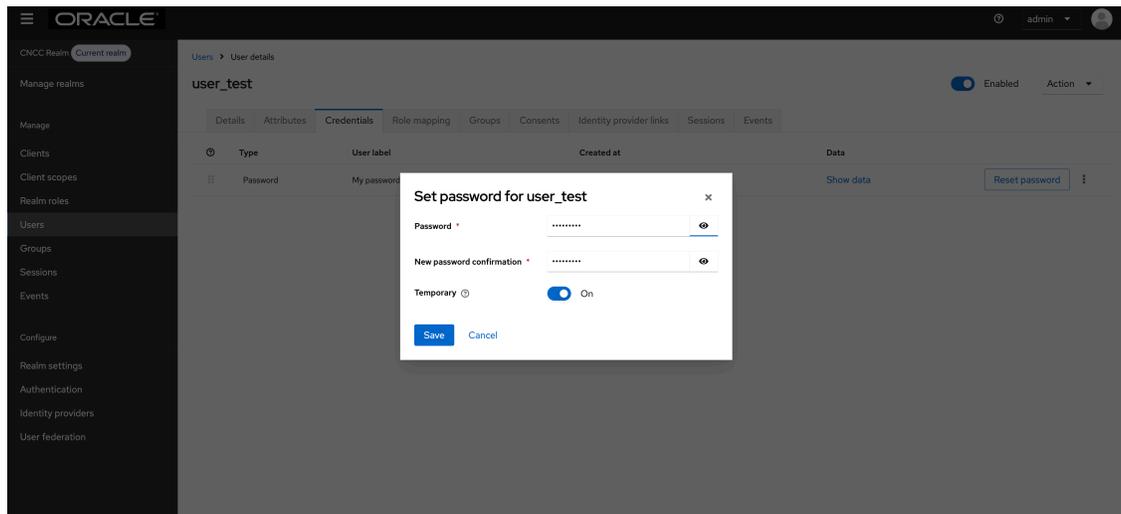


Figure 16 Update Password

ORACLE®

Update password

You need to change your password to activate your account.

New Password

Confirm password

Sign out from other devices

Submit

M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-11-27T17:09:46.224371082Z", "sequence": 2763, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "WARN", "message": "type=\"UPDATE_CREDENTIAL_ERROR\", realmId=\"cncc\", realmName=\"cncc\", clientId=\"cncc\", userId=\"c3108ac1-a5b5-425c-b752-41e4bf36d724\", ipAddress=\"10.75.213.184\", error=\"password_rejected\", credential_type=\"password\", reason=\"invalidPasswordHistoryMessage\", auth_method=\"openid-connect\", custom_required_action=\"UPDATE_PASSWORD\", response_type=\"code\", redirect_uri=\"http://10.75.213.184:30030/login/oauth2/code/cncc-iam\", remember_me=\"false\", code_id=\"390bcc3c-429b-ea57-2ef8-a1387e651704\", response_mode=\"query\", username=\"user_test\", \"threadName\": \"executor-thread-160\", \"threadId\": 291, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 571 }
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764263385,
    "nanoOfSecond": 828329586
  }
}
```

```

},
"thread": "igw-app-thread15",
"level": "INFO",
"loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
"message": {
  "logType": "SECURITY",
  "type": "REQUEST",
  "operationType": "POST",
  "userId": "1",
  "username": "admin",
  "remoteAddress": "xx.xx.xx.xx:xxxx",
  "localAddress": "xx.xx.xx.xx:xxxx",
  "resourcePath": "/cncc/auth/realms/cncc/login-actions/required-action",
  "scheme": "http",
  "queryParams": {
    "session_code": "CINYdQV-olHhfeyrF_sOeals9tvggdFSqaHd5cqzKaY",
    "execution": "UPDATE_PASSWORD",
    "client_id": "cncc",
    "tab_id": "9oPc9NocmlA",
    "client_data":
"eyJYdSI6Imh0dHA6Ly8xMC43NS4yMTMuMTg0OjMwMDMwL2xvZ2luL29hdXRoMi9jb2RlL2NuY2Mta
WftIiwicnQiOiJjb2RlIiwic3QiOiJlNVNwS0dzVXNCTERrWWFfXQ3J5dWNFTFdIaEpDU1RrQXVSB3p
LeXRRY0gwPSJ9"
  },
  "headers": {
    "Origin": "null",
    "Cookie": "{masked}",
    "Accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/
avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7",
    "Connection": "keep-alive",
    "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
    "uuidToken": "16cd85ba-fcdf-445a-bf3f-152273324548",
    "Host": "xx.xx.xx.xx:xxxx",
    "Accept-Encoding": "gzip, deflate",
    "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
    "ocLogId": "1764263385826_70_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
    "sbi-timer-publish-headers": "false",
    "Cache-Control": "max-age=0",
    "Upgrade-Insecure-Requests": "1",
    "Accept-Language": "en-US,en;q=0.9",
    "Content-Length": "51",
    "sbi-timer-feature": "false",
    "Content-Type": "application/x-www-form-urlencoded"
  },
  "payload": "password-new={masked}&password-confirm={masked}",
  "authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 131,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T17:09:45.828+0000",
"processId": "1",
"ingressTxId": "ingress-tx-1231025400",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",

```

```

"ocLogId": "1764263385826_70_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764263386,
    "nanoOfSecond": 250971965
  },
  "thread": "igw-app-thread7",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "POST",
    "userId": "1",
    "username": "admin",
    "resourcePath": "/cncc/auth/realms/cncc/login-actions/required-action",
    "scheme": "http",
    "headers": {
      "content-length": "11464",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "POST",
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "X-Robots-Tag": "none",
      "Cache-Control": "no-store, must-revalidate, max-age=0",
      "Content-Security-Policy": "frame-src 'self'; frame-ancestors 'self';
object-src 'none';",
      "NettyLatency": "1764263385826",
      "Content-Language": "en",
      "Content-Type": "text/html;charset=utf-8"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "200 OK"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 114,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T17:09:46.250+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1889649512",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

Note

Similar logs will also be observed for the default realm.

A.1.12 Client Update

M-CNCC IAM UI - Cncc Realm - Updating Authentication flow to Direct Access Grant for cncc-api-access client

Figure 17 cncc-api-access

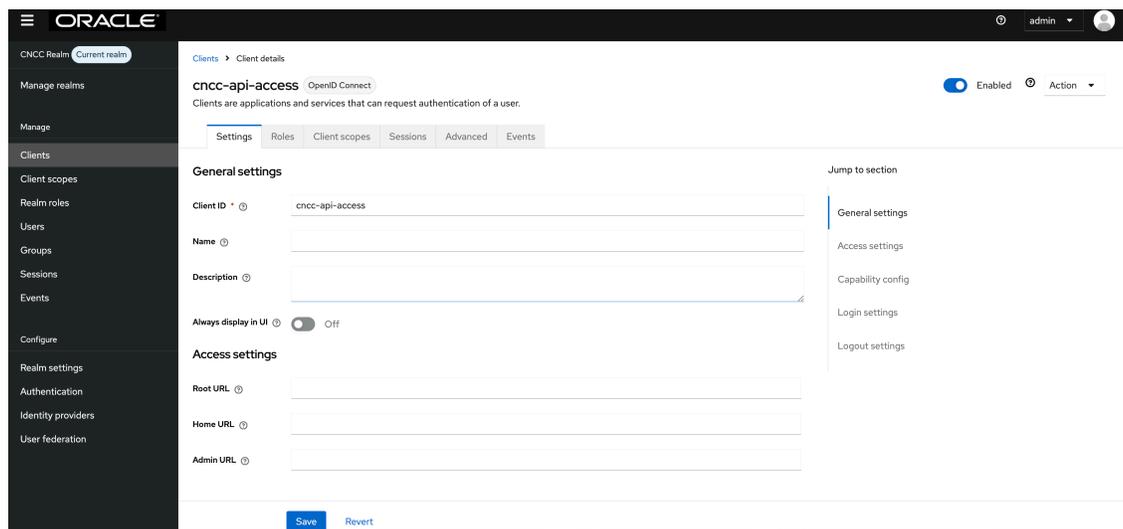
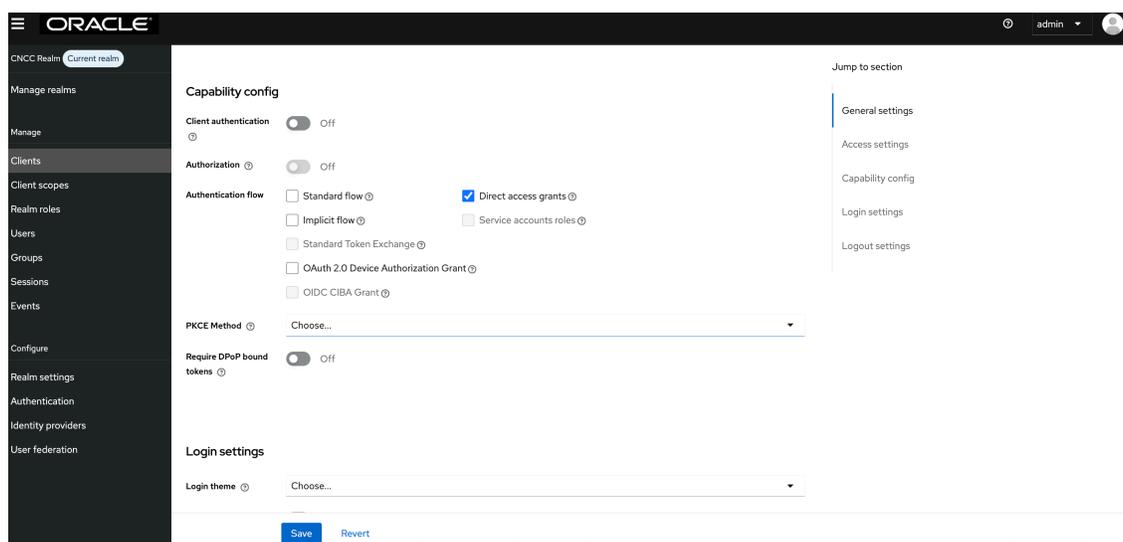


Figure 18 Capability config



M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-11-27T16:12:30.027887228Z", "sequence": 2648, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"UPDATE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\", ipAddress=\\"10.75.213.184\\", resourceType=\\"CLIENT\\", resourcePath=\\"clients/f07clee9-d40d-4814-89de-77c09cda068d\\", "threadName": "executor-thread-109", "threadId": 207, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 571 }
```

M-CNCC IAM Ingress Gateway logs**SECURITY- Request log:**

```
{
  "instant": {
    "epochSecond": 1764259949,
    "nanoOfSecond": 942497792
  },
  "thread": "igw-app-thread12",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "PUT",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:31778",
    "localAddress": "xx.xx.xx.xx:8081",
    "resourcePath": "/cncc/auth/admin/realms/cncc/clients/f07clee9-d40d-4814-89de-77c09cda068d",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xx.xx.xx.xx:30085",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "25880323-4c4d-4e39-aefe-c7d8ca70a06e",
      "Host": "xx.xx.xx.xx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764259949940_92_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "1995",
      "sbi-timer-feature": "false"
    },
  },
  "payload": {
```

```

"id": "f07c1ee9-d40d-4814-89de-77c09cda068d",
"clientId": "cncc-api-access",
"surrogateAuthRequired": false,
"enabled": true,
"alwaysDisplayInConsole": false,
"clientAuthenticatorType": "client-secret",
"redirectUris": [],
"webOrigins": [],
"notBefore": 0,
"bearerOnly": false,
"consentRequired": false,
"standardFlowEnabled": false,
"implicitFlowEnabled": false,
"directAccessGrantsEnabled": true,
"serviceAccountsEnabled": false,
"publicClient": true,
"frontchannelLogout": false,
"protocol": "openid-connect",
"attributes": {
  "id.token.as.detached.signature": "false",
  "saml.assertion.signature": "false",
  "saml.force.post.binding": "false",
  "saml.multivalued.roles": "false",
  "saml.encrypt": "false",
  "oauth2.device.authorization.grant.enabled": "false",
  "backchannel.logout.revoke.offline.tokens": "false",
  "saml.server.signature": "false",
  "saml.server.signature.keyinfo.ext": "false",
  "use.refresh.tokens": "true",
  "exclude.session.state.from.auth.response": "false",
  "realm_client": "false",
  "oidc.ciba.grant.enabled": "false",
  "saml.artifact.binding": "false",
  "backchannel.logout.session.required": "false",
  "client_credentials.use_refresh_token": "false",
  "saml_force_name_id_format": "false",
  "require.pushed.authorization.requests": "false",
  "saml.client.signature": "false",
  "tls.client.certificate.bound.access.tokens": "false",
  "saml.authnstatement": "false",
  "authorization.signed.response.alg": "RS256",
  "display.on.consent.screen": "false",
  "saml.onetimeuse.condition": "false",
  "standard.token.exchange.enabled": false,
  "pkce.code.challenge.method": "-",
  "dpop.bound.access.tokens": "false",
  "login_theme": "-",
  "consent.screen.text": "-",
  "backchannel.logout.url": "-"
},
"authenticationFlowBindingOverrides": {},
"fullScopeAllowed": true,
"nodeReRegistrationTimeout": -1,
"defaultClientScopes": ["web-origins", "roles", "profile", "basic", "email"],
"optionalClientScopes":

```

```
[ "address", "phone", "offline_access", "microprofile-jwt" ],
  "access": { "view": true, "configure": true, "manage": true },
  "name": "-",
  "description": "-",
  "rootUrl": "-",
  "baseUrl": "-",
  "adminUrl": "-",
  "authorizationServicesEnabled": false
},
"authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 128,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T16:12:29.942+0000",
"processId": "1",
"ingressTxId": "ingress-tx-1873501864",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764259949940_92_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}
}
```

SECURITY- Response log:

```
{
  "instant": {
    "epochSecond": 1764259950,
    "nanoOfSecond": 33824423
  },
  "thread": "igw-app-thread11",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "PUT",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/clients/f07clee9-d40d-4814-89de-77c09cda068d",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "transfer-encoding": "chunked",
      "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:30085",
      "Access-Control-Allow-Credentials": "true",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "PUT",
      "NettyLatency": "1764259949940"
    }
  },
}
```

```

    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "204 NO_CONTENT"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 127,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:12:30.033+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1437990706",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

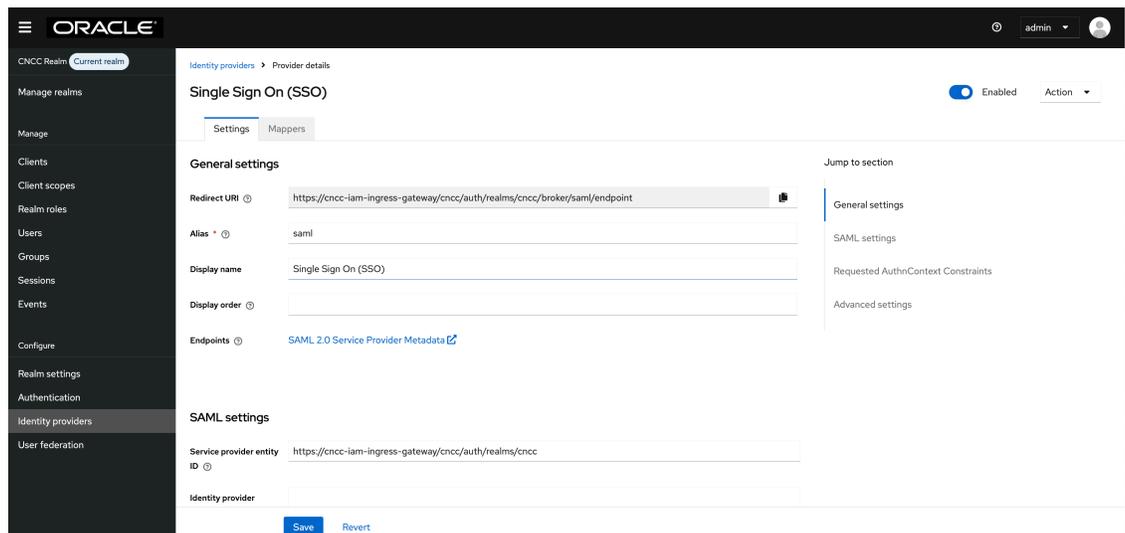
Note

Similar logs will also be observed for the default realm.

A.1.13 SAML_IDENTITY_PROVIDER_CREATE

M-CNCC IAM UI- cncc Realm- SAML IDENTITY_PROVIDER_CREATE Event

Figure 19 Single Sign On (SSO)



M-CNCC IAM Kc Logs:

```

{"timestamp":"2025-11-27T16:13:43.689064346Z","sequence":2650,"loggerClassName":
"org.jboss.logging.Logger","loggerName":"org.keycloak.events","level":"DEBUG",
"message":"operationType=\\"CREATE\\" , realmId=\\"master\\" ,
realmName=\\"master\\" , clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\" ,

```

```

userId="\acc21615-964a-4055-8c20-fb2705bd641b\", ipAddress="\10.75.213.184\",
resourceType=\"IDENTITY_PROVIDER\", resourcePath=\"identity-provider/
instances/saml\", \"threadName\": \"executor-thread-114\", \"threadId\": 217, \"mdc\":
{}\", \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/
java\", \"processId\": 571}

```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```

{
  "instant": {
    "epochSecond": 1764260023,
    "nanoOfSecond": 646278590
  },
  "thread": "igw-app-thread18",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "POST",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:xxxx",
    "localAddress": "xx.xx.xx.xx:xxxx",
    "resourcePath": "/cncc/auth/admin/realms/cncc/identity-provider/
instances",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xx.xx.xx.xx:30085",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "96bcb26b-e823-4641-9f03-6bbc020fd414",
      "Host": "xx.xx.xx.xx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764260023644_92_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "949",
      "sbi-timer-feature": "false"
    },
  },
  "payload": {
    "alias": "saml",
    "config": {
      "allowCreate": "true",
      "guiOrder": "-",
      "entityId": "http://xx.xx.xx.xx:30085/cncc/auth/realms/cncc",
      "idpEntityId": "-",
    },
  },
}

```

```

        "singleSignOnServiceUrl": "http://xx.xx.xx.xx:32740/auth/realms/
master/protocol/saml",
        "artifactResolutionServiceUrl": "-",
        "singleLogoutServiceUrl": "-",
        "backchannelSupported": "false",
        "sendIdTokenOnLogout": "true",
        "sendClientIdOnLogout": "false",
        "nameIDPolicyFormat": "urn:oasis:names:tc:SAML:2.0:nameid-
format:persistent",
        "principalType": "SUBJECT",
        "postBindingResponse": "false",
        "artifactBindingResponse": "false",
        "postBindingAuthnRequest": "false",
        "postBindingLogout": "false",
        "wantAuthnRequestsSigned": "false",
        "wantAssertionsSigned": "false",
        "wantAssertionsEncrypted": "false",
        "forceAuthn": "false",
        "validateSignature": "false",
        "signSpMetadata": "false",
        "loginHint": "false",
        "allowedClockSkew": 0,
        "attributeConsumingServiceIndex": 0,
        "attributeConsumingServiceName": "-"
    },
    "displayName": "Single Sign On (SSO)",
    "providerId": "saml"
},
"authenticationType": "UNKNOWN"
},
"endOfBatch": false,
"loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId": 134,
"threadPriority": 5,
"messageTimestamp": "2025-11-27T16:13:43.646+0000",
"processId": "1",
"ingressTxId": "ingress-tx-24003959",
"pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"ocLogId": "1764260023644_92_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
"instanceType": "prod",
"xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764260023,
    "nanoOfSecond": 693906907
  },
  "thread": "igw-app-thread5",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",

```

```

    "type": "RESPONSE",
    "operationType": "POST",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/identity-provider/
instances",
    "scheme": "http",
    "headers": {
      "content-length": "0",
      "transfer-encoding": "chunked",
      "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:30085",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "POST",
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "Access-Control-Allow-Credentials": "true",
      "NettyLatency": "1764260023644",
      "Location": "http://xx.xx.xx.xx:30085/cncc/auth/admin/realms/cncc/
identity-provider/instances/saml"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "201 CREATED"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 110,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:13:43.693+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-262275294",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

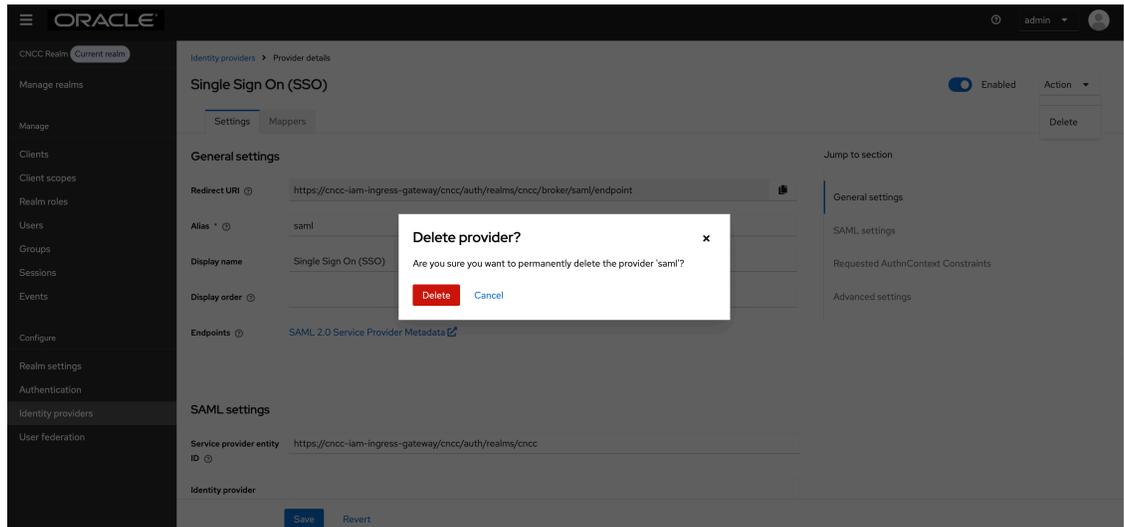
Note

Similar logs will also be observed for the default realm.

A.1.14 SAML_IDENTITY_PROVIDER_DELETE

M-CNCC IAM UI- cncc Realm- SAML_IDENTITY_PROVIDER_DELETE Event

Figure 20 Delete provider



M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-11-27T16:20:22.706033845Z", "sequence": 2666, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"DELETE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afb1a\\", userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\", ipAddress=\\"10.75.213.184\\", resourceType=\\"IDENTITY_PROVIDER\\", resourcePath=\\"identity-provider/instances/saml\\", "threadName": "executor-thread-120", "threadId": 224, "mdc": {}, "ndc": "", "hostName": "cncc-iam", "processName": "/opt/java/jre/bin/java", "processId": 571 }
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764260422,
    "nanoOfSecond": 667639508
  },
  "thread": "igw-app-thread16",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "DELETE",
  }
}
```

```

    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:56644",
    "localAddress": "xx.xx.xx.xx:8081",
    "resourcePath": "/cncc/auth/admin/realms/cncc/identity-provider/instances/
saml",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xx.xx.xx.xx:30085",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "3b98b8fa-814e-40ae-8f91-48d4c8e8da72",
      "Host": "xx.xx.xx.xx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764260422665_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "2",
      "sbi-timer-feature": "false"
    },
    "payload": {},
    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 132,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:20:22.667+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1921372108",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "1764260422665_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764260422,
    "nanoOfSecond": 712725326
  },
  "thread": "igw-app-thread11",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",

```

```

    "type": "RESPONSE",
    "operationType": "DELETE",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/identity-provider/instances/
saml",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "transfer-encoding": "chunked",
      "Cache-Control": "no-cache",
      "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:30085",
      "Access-Control-Allow-Credentials": "true",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "DELETE",
      "NettyLatency": "1764260422665"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "204 NO_CONTENT"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 127,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:20:22.712+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1886058263",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

Note

Similar logs will also be observed for the default realm.

A.1.15 SAML_IDENTITY_PROVIDER_MAPPER_CREATE

M-CNCC IAM UI- cncc Realm- SAML_IDENTITY_PROVIDER_MAPPER_CREATE Event

Figure 21 Single Sign On (SSO)

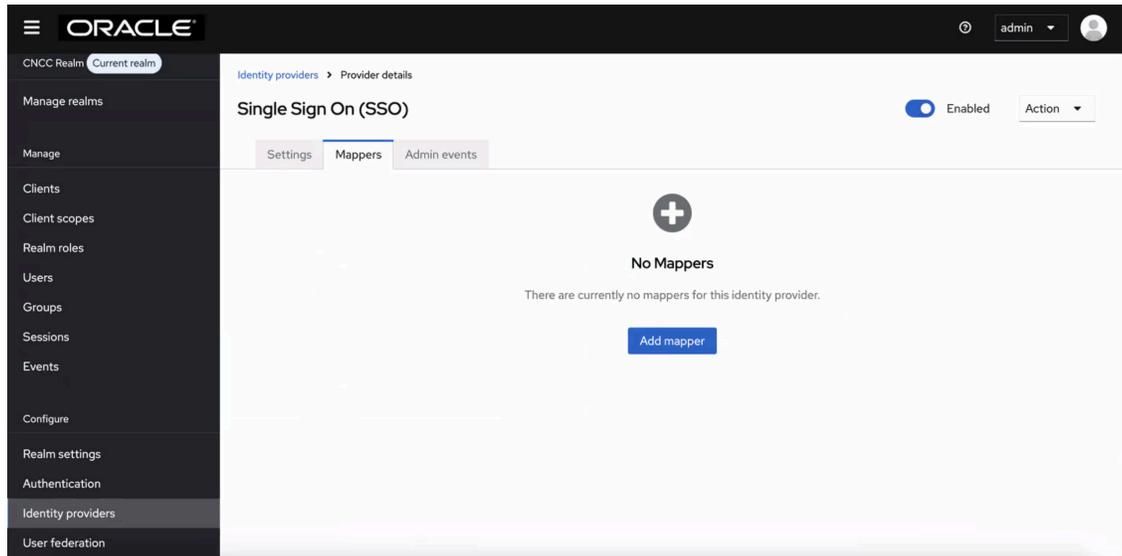
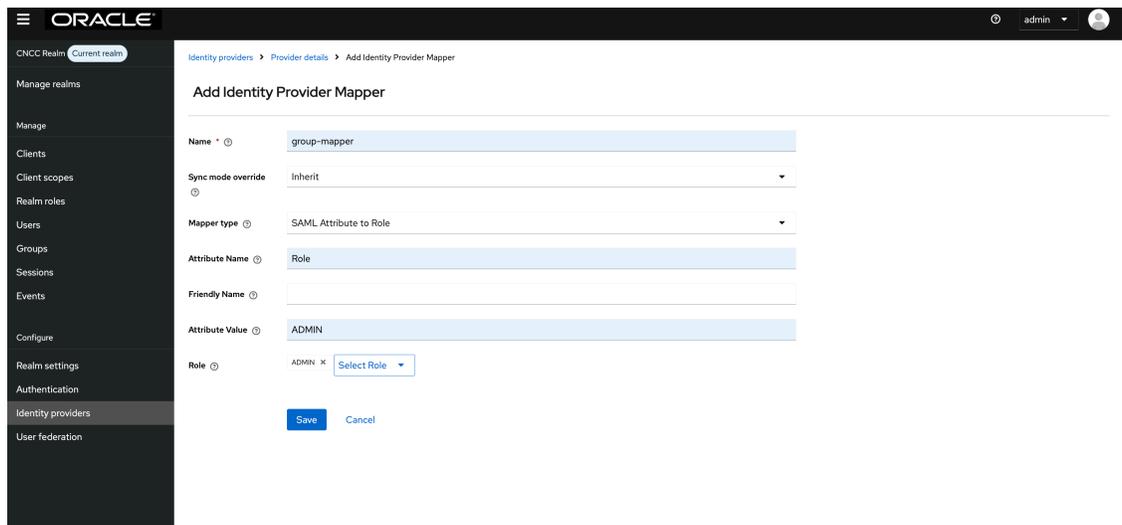


Figure 22 Add Identity Provider Mapper



M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-11-27T16:16:57.671689167Z", "sequence": 2660, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"CREATE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\", ipAddress=\\"10.75.213.184\\",
```

```
resourceType=\" IDENTITY_PROVIDER_MAPPER\", resourcePath=\"identity-provider/
instances/saml/mappers/554a1663-ee0c-4a16-
ac41-28543f8e56a9\", \"threadName\": \"executor-thread-114\", \"threadId\": 217, \"mdc\":
{ }, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/
java\", \"processId\": 571}
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764260217,
    "nanoOfSecond": 641572610
  },
  "thread": "igw-app-thread3",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "POST",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:56644",
    "localAddress": "xx.xx.xx.xx:8081",
    "resourcePath": "/cncc/auth/admin/realms/cncc/identity-provider/instances/
saml/mappers",
    "scheme": "http",
    "queryParams": { },
    "headers": {
      "Origin": "http://xx.xx.xx.xx:30085",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "fclf9d72-62c4-4d61-98b5-1695c09a7d08",
      "Host": "xx.xx.xx.xx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764260217640_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "228",
      "sbi-timer-feature": "false"
    },
  },
  "payload": {
    "name": "group-mapper",
    "config": {
      "syncMode": "INHERIT",
      "attribute.name": "Role",
      "attribute.friendly.name": "",
      "attribute.value": "ADMIN",
    }
  }
}
```

```

        "role": "ADMIN"
      },
      "identityProviderMapper": "saml-role-idp-mapper",
      "identityProviderAlias": "saml"
    },
    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 100,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:16:57.641+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1299632173",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "1764260217640_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764260217,
    "nanoOfSecond": 677340674
  },
  "thread": "igw-app-thread19",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "POST",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/identity-provider/instances/saml/mappers",
    "scheme": "http",
    "headers": {
      "content-length": "0",
      "transfer-encoding": "chunked",
      "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:30085",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "POST",
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "Access-Control-Allow-Credentials": "true",
      "NettyLatency": "1764260217640",
      "Location": "http://xx.xx.xx.xx:30085/cncc/auth/admin/realms/cncc/identity-provider/instances/saml/mappers/554a1663-ee0c-4a16-ac41-28543f8e56a9"
    },
    "payload": {}
  }
}

```

```

    "authenticationType": "UNKNOWN",
    "status": "201 CREATED"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 135,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:16:57.677+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1628348099",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

Note

Similar logs will also be observed for the default realm.

A.1.16 SAML_IDENTITY_PROVIDER_MAPPER_UPDATE

M-CNCC IAM UI- cncc Realm- SAML_IDENTITY_PROVIDER_MAPPER_UPDATE Event

Figure 23 Add Identity Provider Mapper

The screenshot shows the Oracle Cloud Native Configuration Console interface for adding an identity provider mapper. The breadcrumb navigation is 'Identity providers > Provider details > Add Identity Provider Mapper'. The form fields are as follows:

- Name:** group-mapper
- Sync mode override:** Inherit
- Mapper type:** SAML Attribute to Role
- Attribute Name:** Role
- Friendly Name:** (empty)
- Attribute Value:** ADMIN
- Role:** BSF_READ (with a 'Select Role' dropdown menu)

Buttons for 'Save' and 'Cancel' are located at the bottom of the form.

M-CNCC IAM Kc Logs:

```

{ "timestamp": "2025-11-27T16:18:04.752744141Z", "sequence": 2662, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "operationType=\\"UPDATE\\", realmId=\\"master\\", realmName=\\"master\\", clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\", userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\", ipAddress=\\"10.75.213.184\\",

```

```
resourceType=\" IDENTITY_PROVIDER_MAPPER\", resourcePath=\"identity-provider/
instances/saml/mappers/554a1663-ee0c-4a16-
ac41-28543f8e56a9\", \"threadName\": \"executor-thread-114\", \"threadId\": 217, \"mdc\":
{ }, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/
java\", \"processId\": 571}
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764260284,
    "nanoOfSecond": 727769592
  },
  "thread": "igw-app-thread16",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "PUT",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xx.xx.xx.xx:56644",
    "localAddress": "xx.xx.xx.xx:8081",
    "resourcePath": "/cncc/auth/admin/realms/cncc/identity-provider/instances/
saml/mappers/554a1663-ee0c-4a16-ac41-28543f8e56a9",
    "scheme": "http",
    "queryParams": { },
    "headers": {
      "Origin": "http://xx.xx.xx.xx:30085",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "97112c88-a85d-44fa-8529-1ab26b89ca3b",
      "Host": "xx.xx.xx.xx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764260284726_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "275",
      "sbi-timer-feature": "false"
    },
  },
  "payload": {
    "name": "group-mapper",
    "config": {
      "syncMode": "INHERIT",
      "attribute.name": "Role",
      "attribute.friendly.name": "",
      "attribute.value": "ADMIN",
    },
  },
}
```

```

        "role": "BSF_READ"
      },
      "identityProviderMapper": "saml-role-idp-mapper",
      "id": "554a1663-ee0c-4a16-ac41-28543f8e56a9",
      "identityProviderAlias": "saml"
    },
    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 132,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:18:04.727+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-950670697",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "1764260284726_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764260284,
    "nanoOfSecond": 758626367
  },
  "thread": "igw-app-thread11",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "PUT",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/identity-provider/instances/saml/mappers/554a1663-ee0c-4a16-ac41-28543f8e56a9",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "transfer-encoding": "chunked",
      "Cache-Control": "no-cache",
      "Access-Control-Allow-Origin": "http://xx.xx.xx.xx:30085",
      "Access-Control-Allow-Credentials": "true",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "PUT",
      "NettyLatency": "1764260284726"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
  }
}

```

```

    "status": "204 NO_CONTENT"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 127,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:18:04.758+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1886058263",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

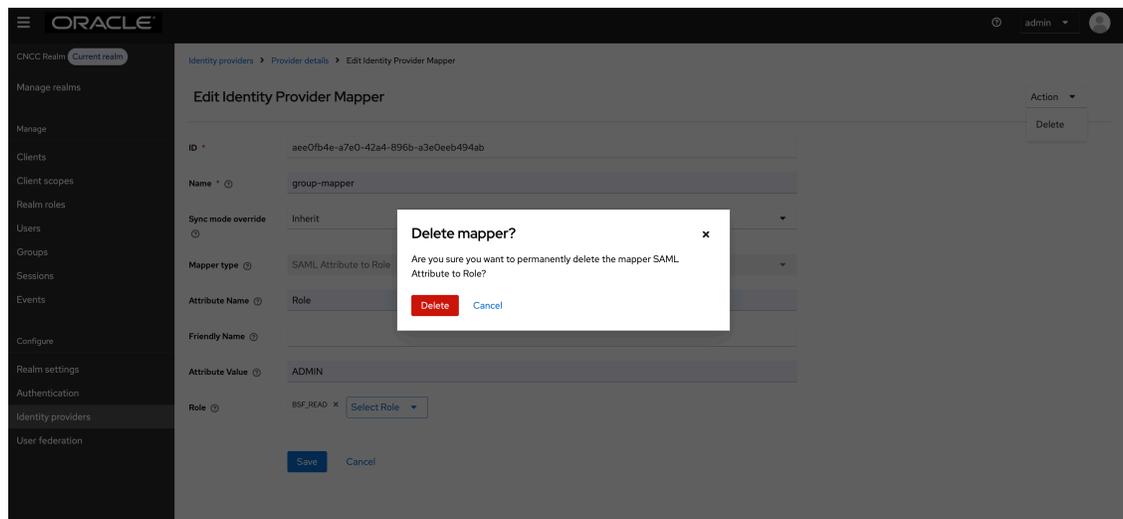
Note

Similar logs will also be observed for the default realm.

A.1.17 SAML_IDENTITY_PROVIDER_MAPPER_DELETE

M-CNCC IAM UI- cncc Realm - SAML_IDENTITY_PROVIDER_MAPPER_DELETE Event

Figure 24 Delete Mapper



M-CNCC IAM Kc Logs:

```

{"timestamp":"2025-11-27T16:18:58.462660665Z","sequence":2664,"loggerClassName":
"org.jboss.logging.Logger","loggerName":"org.keycloak.events","level":"DEBUG",
"message":"operationType=\\"DELETE\\" , realmId=\\"master\\" ,
realmName=\\"master\\" , clientId=\\"6d475927-19a8-4082-a9f4-8d6b68afbb1a\\" ,
userId=\\"acc21615-964a-4055-8c20-fb2705bd641b\\" , ipAddress=\\"10.75.213.184\\" ,
resourceType=\\"IDENTITY_PROVIDER_MAPPER\\" , resourcePath=\\"identity-provider/

```

```
instances/saml/mappers/554a1663-ee0c-4a16-
ac41-28543f8e56a9\", \"threadName\": \"executor-thread-114\", \"threadId\": 217, \"mdc\":
{}}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/
java\", \"processId\": 571}
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764260338,
    "nanoOfSecond": 439469929
  },
  "thread": "igw-app-thread4",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "DELETE",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "remoteAddress": "xxx.xxx.xxx.xxx:56644",
    "localAddress": "xxx.xxx.xxx.xxx:8081",
    "resourcePath": "/cncc/auth/admin/realms/cncc/identity-provider/instances/
saml/mappers/554a1663-ee0c-4a16-ac41-28543f8e56a9",
    "scheme": "http",
    "queryParams": {},
    "headers": {
      "Origin": "http://xxx.xxx.xxx.xxx:30085",
      "Cookie": "{masked}",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "7c854c26-2418-46b2-8e64-94c21fc7ac96",
      "Host": "xxx.xxx.xxx.xxx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "1764260338437_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
      "accept": "application/json, text/plain, */*",
      "sbi-timer-publish-headers": "false",
      "authorization": "{masked}",
      "content-type": "application/json",
      "Accept-Language": "en-US,en;q=0.9",
      "Content-Length": "2",
      "sbi-timer-feature": "false"
    },
    "payload": {},
    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 109,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:18:58.439+0000",
```

```

    "processId": "1",
    "ingressTxId": "ingress-tx-608400487",
    "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
    "ocLogId": "1764260338437_96_cncc-iam-ingress-gateway-85d6d57584-wt9zk",
    "instanceType": "prod",
    "xRequestId": "-"
  }
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764260338,
    "nanoOfSecond": 469246737
  },
  "thread": "igw-app-thread20",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "DELETE",
    "userId": "acc21615-964a-4055-8c20-fb2705bd641b",
    "username": "admin",
    "resourcePath": "/cncc/auth/admin/realms/cncc/identity-provider/instances/saml/mappers/554a1663-ee0c-4a16-ac41-28543f8e56a9",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "X-Frame-Options": "SAMEORIGIN",
      "Access-Control-Expose-Headers": "Location",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "transfer-encoding": "chunked",
      "Cache-Control": "no-cache",
      "Access-Control-Allow-Origin": "http://xxx.xxx.xxx.xxx:30085",
      "Access-Control-Allow-Credentials": "true",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "DELETE",
      "NettyLatency": "1764260338437"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "204 NO_CONTENT"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 136,
  "threadPriority": 5,
  "messageTimestamp": "2025-11-27T16:18:58.469+0000",
  "processId": "1",
  "ingressTxId": "ingress-tx-1597004987",
  "pod": "cncc-iam-ingress-gateway-85d6d57584-wt9zk",
  "ocLogId": "-",
  "instanceType": "prod",

```

```
"xRequestId": "-"  
}
```

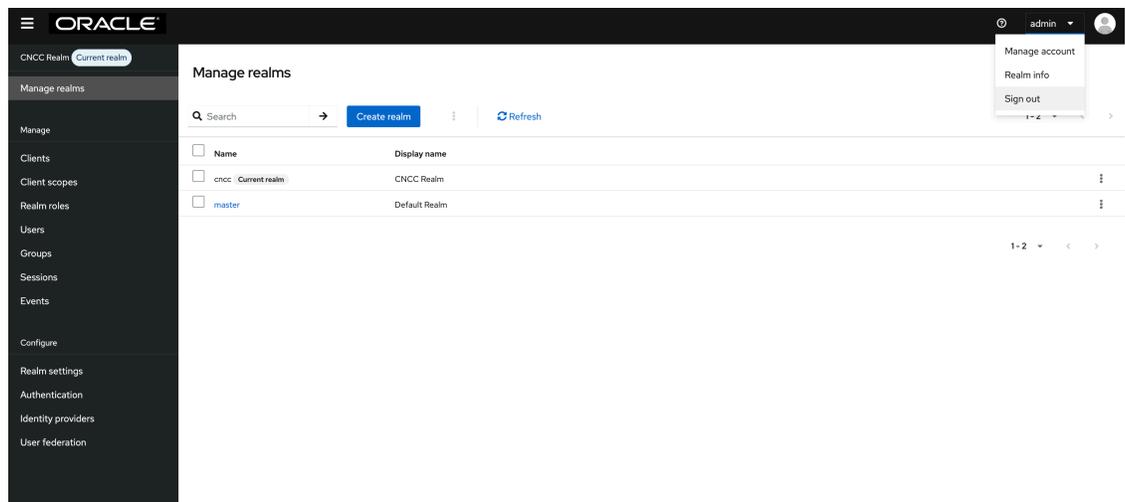
Note

Similar logs will also be observed for the default realm.

A.1.18 LOGOUT

M-CNCC IAM UI- User logout

Figure 25 Sign out



M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-12-03T11:14:38.59666781Z", "sequence": 2360, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "type=\"LOGOUT\", realmId=\"master\", realmName=\"master\", clientId=\"security-admin-console\", userId=\"acc21615-964a-4055-8c20-fb2705bd641b\", sessionId=\"a5248089-1b7-60b5-3ec2-afda614c3a3e\", ipAddress=\"10.75.213.184\", redirect_uri=\"http://10.75.213.184:30085/cncc/auth/admin/master/console/#/cncc/users/59f0ab2b-7187-4bc7-b13c-bcd09800c7ba/sessions\", authSessionParentId=\"91c78dbe-163c-47b9-a3fa-7118358acebc\", authSessionTabId=\"ua4Xc90Gtzw\", \"threadName\": \"executor-thread-11\", \"threadId\": 67, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 539}
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{  
  "instant": {
```

```

    "epochSecond": 1764758724,
    "nanoOfSecond": 42944766
  },
  "thread": "igw-app-thread3",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "GET",
    "userId": "1",
    "username": "admin",
    "remoteAddress": "xxx.xxx.xxx.xxx:23302",
    "localAddress": "xxx.xxx.xxx.xxx:8081",
    "resourcePath": "/cncc/auth/realms/master/protocol/openid-connect/logout",
    "scheme": "http",
    "queryParams": {
      "client_id": "security-admin-console",
      "post_logout_redirect_uri": "http://xxx.xxx.xxx.xxx:30085/cncc/auth/admin/master/console/#/cncc/users/59f0ab2b-7187-4bc7-b13c-bcd09800c7ba/sessions",
      "id_token_hint": "{masked}"
    },
    "headers": {
      "Cookie": "{masked}",
      "Accept": "text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8",
      "Priority": "u=0, i",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/26.0.1 Safari/605.1.15",
      "Connection": "keep-alive",
      "uuidToken": "ca4fa695-5606-476b-a8f3-25b4e39302e9",
      "Host": "xxx.xxx.xxx.xxx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "-",
      "sbi-timer-publish-headers": "false",
      "Upgrade-Insecure-Requests": "1",
      "Accept-Language": "en-IN,en-GB;q=0.9,en;q=0.8",
      "sbi-timer-feature": "false"
    },
    "payload": "Either the payload is empty or too large",
    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 112,
  "threadPriority": 5,
  "messageTimestamp": "2025-12-03T10:45:24.042+0000",
  "processId": "1",
  "ingressTxId": "-",
  "pod": "cncc-iam-ingress-gateway-cfb45b754-6qr8n",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764758724,
    "nanoOfSecond": 87390750
  },
  "thread": "igw-app-thread4",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "GET",
    "userId": "1",
    "username": "admin",
    "resourcePath": "/cncc/auth/realms/master/protocol/openid-connect/logout",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "content-length": "0",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "transfer-encoding": "chunked",
      "Cache-Control": "no-cache",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "GET",
      "NettyLatency": "1764758724040",
      "Set-Cookie": "{masked}",
      "Location": "http://xxx.xxx.xxx.xxx:30085/cncc/auth/admin/master/console/#/cncc/users/59f0ab2b-7187-4bc7-b13c-bcd09800c7ba/sessions"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "302 FOUND"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 127,
  "threadPriority": 5,
  "processId": "1",
  "ingressTxId": "-",
  "pod": "cncc-iam-ingress-gateway-cfb45b754-6qr8n",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

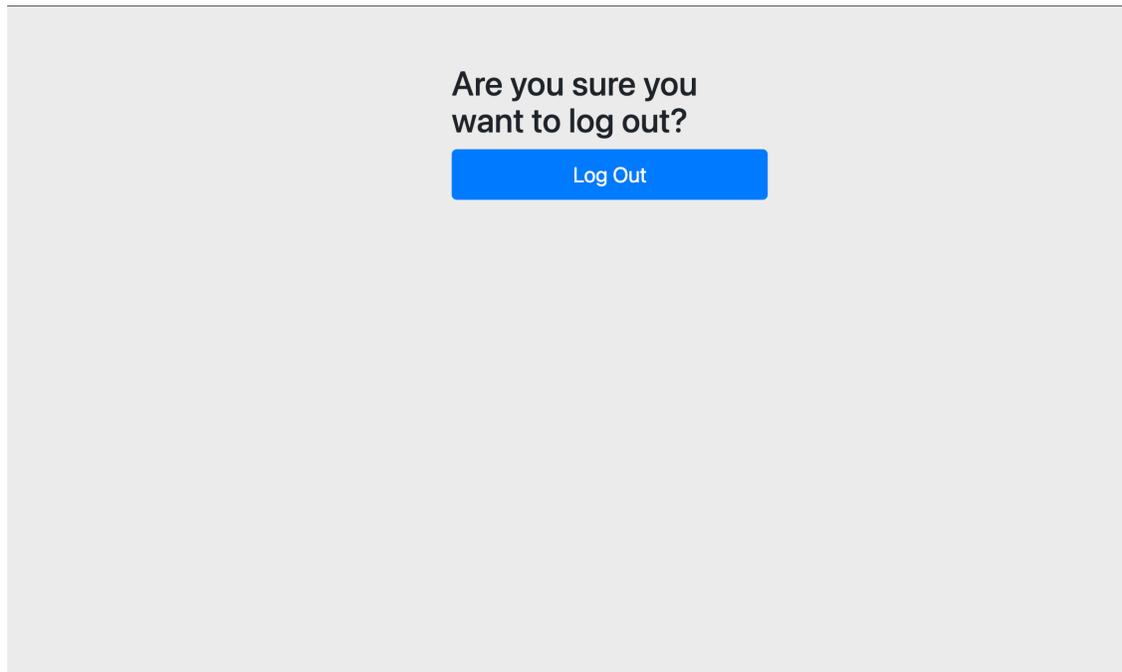
```

M-CNCC Core UI- User logout

Figure 26 Sign Out



Figure 27 Confirm Sign Out



M-CNCC IAM Kc Logs:

```
{ "timestamp": "2025-12-03T11:18:12.243977387Z", "sequence": 2379, "loggerClassName": "org.jboss.logging.Logger", "loggerName": "org.keycloak.events", "level": "DEBUG", "message": "type=\\\"LOGOUT\\\", realmId=\\\"cncc\\\", realmName=\\\"cncc\\\", clientId=\\\"cncc\\\", userId=\\\"59f0ab2b-7187-4bc7-b13c-bcd09800c7ba\\\", sessionId=\\\"edadd61c-e355-f0fa-5835-5f120e82814c\\\",
```

```
ipAddress="\10.75.213.184\", redirect_uri=\"http://10.75.213.184:30030/\",
authSessionParentId=\"5ec8ad14-81c1-4099-aacc-17935619108c\",
authSessionTabId=\"-G2VzQXPCzI\", \"threadName\": \"executor-
thread-16\", \"threadId\": 74, \"mdc\": {}, \"ndc\": \"\", \"hostName\": \"cncc-
iam\", \"processName\": \"/opt/java/jre/bin/java\", \"processId\": 539}
```

M-CNCC IAM Ingress Gateway logs

SECURITY- Request log:

```
{
  "instant": {
    "epochSecond": 1764762269,
    "nanoOfSecond": 743520669
  },
  "thread": "igw-app-thread14",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "REQUEST",
    "operationType": "GET",
    "userId": "1",
    "username": "admin",
    "remoteAddress": "xxx.xxx.xxx.xxx:5383",
    "localAddress": "xxx.xxx.xxx.xxx:8081",
    "resourcePath": "/cncc/auth/realms/cncc/protocol/openid-connect/logout",
    "scheme": "http",
    "queryParams": {
      "id_token_hint": "{masked}",
      "post_logout_redirect_uri": "http://xxx.xxx.xxx.xxx:30030/"
    },
    "headers": {
      "Cookie": "{masked}",
      "Accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/
avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7",
      "Connection": "keep-alive",
      "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/142.0.0.0 Safari/537.36",
      "uuidToken": "{masked}",
      "Host": "xxx.xxx.xxx.xxx:30085",
      "Accept-Encoding": "gzip, deflate",
      "svcName": "cncc-iam-kc-http.cncc.svc.cluster.local",
      "ocLogId": "-",
      "sbi-timer-publish-headers": "false",
      "Cache-Control": "max-age=0",
      "Upgrade-Insecure-Requests": "1",
      "Accept-Language": "en-GB,en-US;q=0.9,en;q=0.8",
      "sbi-timer-feature": "false"
    },
    "payload": "Either the payload is empty or too large",
    "authenticationType": "UNKNOWN"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 132,
```

```

    "threadPriority": 5,
    "processId": "1",
    "ingressTxId": "-",
    "pod": "cncc-iam-ingress-gateway-64df8866f7-c7g66",
    "ocLogId": "-",
    "instanceType": "prod",
    "xRequestId": "-"
  }

```

SECURITY- Response log:

```

{
  "instant": {
    "epochSecond": 1764762273,
    "nanoOfSecond": 846088868
  },
  "thread": "igw-app-thread16",
  "level": "INFO",
  "loggerName": "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message": {
    "logType": "SECURITY",
    "type": "RESPONSE",
    "operationType": "GET",
    "userId": "1",
    "username": "admin",
    "resourcePath": "/cncc/auth/realms/cncc/protocol/openid-connect/logout",
    "scheme": "http",
    "headers": {
      "Referrer-Policy": "no-referrer",
      "content-length": "0",
      "Strict-Transport-Security": "max-age=31536000; includeSubDomains",
      "transfer-encoding": "chunked",
      "Cache-Control": "no-cache",
      "X-Content-Type-Options": "nosniff",
      "RequestMethod": "GET",
      "NettyLatency": "1764762269738",
      "Set-Cookie": "{masked}",
      "Location": "http://xxx.xxx.xxx.xxx:30030/"
    },
    "payload": {},
    "authenticationType": "UNKNOWN",
    "status": "302 FOUND"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId": 134,
  "threadPriority": 5,
  "processId": "1",
  "ingressTxId": "-",
  "pod": "cncc-iam-ingress-gateway-64df8866f7-c7g66",
  "ocLogId": "-",
  "instanceType": "prod",
  "xRequestId": "-"
}

```

M-CNCC Core Ingress Gateway Logs

AUDIT Log:

```
{
  "instant": {
    "epochSecond": 1764827399,
    "nanoOfSecond": 803217797
  },
  "thread": "ingress-h2c-nio-3",
  "level": "INFO",
  "loggerName":
"ocpm.cne.gateway.cncc.config.CustomServerLogoutSuccessHandler",
  "message": {
    "logType": "AUDIT",
    "type": "LOGOUT",
    "resourceType": "CNCC",
    "userId": "59f0ab2b-7187-4bc7-b13c-bcd09800c7ba",
    "username": "mansimrs",
    "operationType": "POST",
    "remoteAddress": "/xxx.xxx.xxx.xxx:47209",
    "localAddress": "/xxx.xxx.xxx.xxx:8081",
    "resourcePath": "/logout",
    "authenticationType": "OAUTH"
  },
  "endOfBatch": false,
  "loggerFqcn": "org.apache.logging.log4j.spi.AbstractLogger",
  "threadId": 146,
  "threadPriority": 5,
  "processId": "1",
  "ingressTxId": "-",
  "pod": "-",
  "ocLogId": "1764827399799_146_cncc-mcore-ingress-gateway-5f576d7f69-q4wj7",
  "instanceType": "prod",
  "xRequestId": "-"
}
```

B.1 M-CNCC Core and A-CNCC Core Audit and Security logs for NF

This section describes the M-CNCC Core and A-CNCC Core Audit and Security logs for the following NFs:

- [BSF](#)
- [Policy](#)
- [SCP](#)
- [UDR](#)

B.1.1 BSF

This section provides the audit and security logs for BSF.

BSF → General Configurations → General Settings

Operation Type: GET

M-CNCC Core Ingress Gateway Logs

AUDIT Log:

```
{
  "instant" : {
    "epochSecond" : 1766049615,
    "nanoOfSecond" : 184487441
  },
  "thread" : "ingress-h2c-epoll-4",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "GET",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:50328",
    "localAddress" : "xx.xx.xxx.xx:8081",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "authenticationType" : "OAUTH"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 234,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-18T09:20:15.184+0000",
  "processId" : "1",
  "ocLogId" : "1766049615182_234_cncc1-mcore-ingress-gateway-5979db7748-
```

```
ct9zb",
  "instanceType" : "prod",
  "xRequestId" : "-"
}
```

SECURITY- Request Log:

```
{
  "instant" : {
    "epochSecond" : 1766049615,
    "nanoOfSecond" : 187247029
  },
  "thread" : "igw-app-thread15",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "GET",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:50328",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "*/*",
      "oc-cncc-id" : "Cluster1",
      "Connection" : "keep-alive",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "uuidToken" : "24e599b7-0157-4ca0-9553-40ec3163e262",
      "Host" : "xx.xxx.xx.xx:30175",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "svcName" : "cncc1-acore-ingress-gateway",
      "ocLogId" : "1766049615182_234_cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
      "sbi-timer-publish-headers" : "false",
      "Accept-Language" : "en-GB,en;q=0.9",
      "oc-cncc-instance-id" : "Cluster1-bsf-instance1",
      "sbi-timer-feature" : "false",
      "Content-Type" : "application/json; charset=utf-8"
    },
    "payload" : "Either the payload is empty or too large",
    "authenticationType" : "OAUTH"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
```

```

"threadId" : 256,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T09:20:15.187+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1569836634",
"pod" : "cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
"ocLogId" : "1766049615182_234_cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log:

```

{
  "instant" : {
    "epochSecond" : 1766049615,
    "nanoOfSecond" : 702646002
  },
  "thread" : "igw-app-thread6",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "GET",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "scheme" : "http",
    "headers" : {
      "date" : "Thu, 18 Dec 2025 09:20:15 GMT",
      "content-length" : "142",
      "Access-Control-Allow-Origin" : "*",
      "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
      "X-Content-Type-Options" : "nosniff",
      "RequestMethod" : "GET",
      "Pragma" : "no-cache",
      "Access-Control-Allow-Headers" : "Content-Type",
      "X-Frame-Options" : "SAMEORIGIN",
      "Referrer-Policy" : "no-referrer",
      "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
      "NettyLatency" : "1766049615182",
      "content-type" : "application/json",
      "Expires" : "0",
      "X-XSS-Protection" : "0"
    },
    "payload" : {
      "enableMetrics" : true,
      "enableTracing" : true,
      "bindingDiscoveryRequestTimeout" : 2000,
      "enableCollisionDetection" : true,
    }
  }
}

```

```

        "enableSBICorrelation" : false
    },
    "authenticationType" : "OAUTH",
    "status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 247,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T09:20:15.702+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-416469878",
"pod" : "cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

A-CNCC Core Ingress Gateway Logs

AUDIT Log:

```

{
  "instant" : {
    "epochSecond" : 1766049615,
    "nanoOfSecond" : 192830861
  },
  "thread" : "ingress-h2c-epoll-2",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "GET",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:50328",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 244,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-18T09:20:15.192+0000",
  "processId" : "1",
  "ocLogId" : "1766049615190_244_cncc1-acore-ingress-gateway-84d5dcd889-gd9dx",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1766049615,
    "nanoOfSecond" : 196598591
  },
  "thread" : "igw-app-thread10",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "GET",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:50328",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "*/*",
      "oc-cncc-id" : "Cluster1",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "X-Forwarded-Proto" : "http",
      "X-Forwarded-Host" : "10.121.27.39:30175",
      "uuidToken" : "7f6821cc-0ca9-4509-b8ad-4d80faa4d7f3",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "svcName" : "xxx.xx.xx.xx",
      "ocLogId" : "1766049615182_234_cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
      "X-Forwarded-Port" : "30175",
      "sbi-timer-publish-headers" : "false",
      "Authorization" : "{masked}",
      "host" : "cncc1-acore-ingress-gateway:30165",
      "Forwarded" :
      "proto=http;host=\"xx.xx.xx.xx:30175\";for=\"10.233.118.0:50328\"",
      "X-Forwarded-For" : "10.233.118.0",
      "connection" : "close",
      "Accept-Language" : "en-GB,en;q=0.9",
      "oc-cncc-instance-id" : "Cluster1-bsf-instance1",
      "sbi-timer-feature" : "false",
      "Content-Type" : "application/json; charset=utf-8"
    },
    "payload" : "Either the payload is empty or too large",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
}

```

```

"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 430,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T09:20:15.196+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1942658293",
"pod" : "cncc1-acore-ingress-gateway-84d5dcd889-gd9dx",
"ocLogId" : "1766049615182_234_cncc1-mcore-ingress-gateway-5979db7748-
ct9zb",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1766049615,
    "nanoOfSecond" : 697874247
  },
  "thread" : "igw-app-thread11",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "GET",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "scheme" : "http",
    "headers" : {
      "date" : "Thu, 18 Dec 2025 09:20:15 GMT",
      "content-length" : "142",
      "Access-Control-Allow-Origin" : "*",
      "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
      "X-Content-Type-Options" : "nosniff",
      "Pragma" : "no-cache",
      "Access-Control-Allow-Headers" : "Content-Type",
      "X-Frame-Options" : "SAMEORIGIN",
      "Referrer-Policy" : "no-referrer",
      "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
      "content-type" : "application/json",
      "connection" : "close",
      "Expires" : "0",
      "X-XSS-Protection" : "0"
    },
    "payload" : {
      "enableMetrics" : true,
      "enableTracing" : true,
      "bindingDiscoveryRequestTimeout" : 2000,
      "enableCollisionDetection" : true,
    }
  }
}

```

```

    "enableSBICorrelation" : false
  },
  "authenticationType" : "JWT",
  "status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 431,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T09:20:15.697+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-961316118",
"pod" : "cncc1-acore-ingress-gateway-84d5dcd889-gd9dx",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

Operation Type: UPDATE

M-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1766049664,
    "nanoOfSecond" : 339320394
  },
  "thread" : "ingress-h2c-epoll-2",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "PUT",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:22490",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "authenticationType" : "OAUTH"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 232,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-18T09:21:04.339+0000",
  "processId" : "1",
  "ocLogId" : "1766049664337_232_cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
  "instanceType" : "prod",

```

```
"xRequestId" : "-"
}
```

SECURITY- Request Log

```
{
  "instant" : {
    "epochSecond" : 1766049664,
    "nanoOfSecond" : 342288779
  },
  "thread" : "igw-app-thread5",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "PUT",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:22490",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "*/*",
      "oc-cncc-id" : "Cluster1",
      "Connection" : "keep-alive",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "uuidToken" : "068f61cf-8a3f-4c9e-a971-f97b937221bf",
      "Host" : "xx.xx.xx.xx:30175",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "svcName" : "cncc1-acore-ingress-gateway",
      "ocLogId" : "1766049664337_232_cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
      "sbi-timer-publish-headers" : "false",
      "Accept-Language" : "en-GB,en;q=0.9",
      "Content-Length" : "334",
      "oc-cncc-instance-id" : "Cluster1-bsf-instance1",
      "sbi-timer-feature" : "false",
      "Content-Type" : "application/json; charset=UTF-8"
    },
    "payload" : {
      "enableTracing" : true,
      "enableMetrics" : true,
      "enableCollisionDetection" : true,
      "bindingDiscoveryRequestTimeout" : 2000,
    }
  }
}
```

```

    "enableSubscriberLog" : false,
    "enableSBICorrelation" : false,
    "enhancedLogging" : {
      "enableEnhancedLogging" : false,
      "staleSessionDeletionLogLevel" : "TRACE",
      "enableLogUEIdentifierInfo" : false,
      "enableLogUeInfoInSessionDeletion" : false
    }
  },
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 246,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T09:21:04.342+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-299499701",
"pod" : "cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
"ocLogId" : "1766049664337_232_cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1766049664,
    "nanoOfSecond" : 906177734
  },
  "thread" : "igw-app-thread19",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "PUT",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "scheme" : "http",
    "headers" : {
      "date" : "Thu, 18 Dec 2025 09:21:04 GMT",
      "content-length" : "305",
      "Access-Control-Allow-Origin" : "*",
      "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
      "X-Content-Type-Options" : "nosniff",
      "RequestMethod" : "PUT",
      "Pragma" : "no-cache",
      "Access-Control-Allow-Headers" : "Content-Type",

```

```

    "X-Frame-Options" : "SAMEORIGIN",
    "Referrer-Policy" : "no-referrer",
    "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
    "NettyLatency" : "1766049664337",
    "content-type" : "application/json",
    "Expires" : "0",
    "X-XSS-Protection" : "0"
  },
  "payload" : {
    "enableMetrics" : true,
    "enableTracing" : true,
    "bindingDiscoveryRequestTimeout" : 2000,
    "enableCollisionDetection" : true,
    "enableSubscriberLog" : false,
    "enhancedLogging" : {
      "enableEnhancedLogging" : false,
      "staleSessionDeletionLogLevel" : "TRACE",
      "enableLogUEIdentifierInfo" : false,
      "enableLogUeInfoInSessionDeletion" : false
    }
  },
  "authenticationType" : "OAUTH",
  "status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 261,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T09:21:04.906+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-163886076",
"pod" : "cncc1-mcore-ingress-gateway-5979db7748-ct9zb",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1766049664,
    "nanoOfSecond" : 351272628
  },
  "thread" : "ingress-h2c-epoll-1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "PUT",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",

```

```

    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:22490",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 75,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-18T09:21:04.351+0000",
  "processId" : "1",
  "ocLogId" : "1766049664348_75_cncc1-acore-ingress-gateway-84d5dcd889-gd9dx",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1766049664,
    "nanoOfSecond" : 369897495
  },
  "thread" : "igw-app-thread1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "PUT",
    "resourceType" : "BSF",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-bsf-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:22490",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "Authorization" : "{masked}",
      "host" : "cncc1-acore-ingress-gateway:30165",
      "connection" : "close",
      "Content-Length" : "334",
      "oc-cncc-instance-id" : "Cluster1-bsf-instance1",
      "Content-Type" : "application/json; charset=UTF-8",
      "Cookie" : "{masked}",

```

```

    "X-Requested-With" : "XMLHttpRequest",
    "Accept" : "*/*",
    "oc-cncc-id" : "Cluster1",
    "X-Forwarded-Proto" : "http",
    "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
    "uuidToken" : "e6542407-0139-4ae9-9581-1624084bfb41",
    "svcName" : "xxx.xx.xx.xx",
    "ocLogId" : "1766049664337_232_cncc1-mcore-ingress-gateway-5979db7748-
ct9zb",
    "X-Forwarded-Port" : "30175",
    "sbi-timer-publish-headers" : "false",
    "Forwarded" :
"proto=http;host=\"xx.xx.xx.xx:30175\";for=\"x.xxx.xx.x:22490\"",
    "X-Forwarded-For" : "xx.xxx.xx.x",
    "Accept-Language" : "en-GB,en;q=0.9",
    "sbi-timer-feature" : "false"
  },
  "payload" : {
    "enableTracing" : true,
    "enableMetrics" : true,
    "enableCollisionDetection" : true,
    "bindingDiscoveryRequestTimeout" : 2000,
    "enableSubscriberLog" : false,
    "enableSBICorrelation" : false,
    "enhancedLogging" : {
      "enableEnhancedLogging" : false,
      "staleSessionDeletionLogLevel" : "TRACE",
      "enableLogUEIdentifierInfo" : false,
      "enableLogUeInfoInSessionDeletion" : false
    }
  }
},
"authenticationType" : "JWT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 246,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T09:21:04.369+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1969161358",
"pod" : "cncc1-acore-ingress-gateway-84d5dcd889-gd9dx",
"ocLogId" : "1766049664337_232_cncc1-mcore-ingress-gateway-5979db7748-
ct9zb",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1766049664,
    "nanoOfSecond" : 894396717
  },
  "thread" : "igw-app-thread20",

```

```

"level" : "INFO",
"loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
"message" : {
  "logType" : "SECURITY",
  "type" : "RESPONSE",
  "operationType" : "PUT",
  "resourceType" : "BSF",
  "cnccId" : "Cluster1",
  "instanceId" : "Cluster1-bsf-instance1",
  "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
  "username" : "user",
  "resourcePath" : "/bsfapi/oc-bsf-configuration/v1/general",
  "scheme" : "http",
  "headers" : {
    "date" : "Thu, 18 Dec 2025 09:21:04 GMT",
    "content-length" : "305",
    "Access-Control-Allow-Origin" : "*",
    "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
    "RequestMethod" : "PUT",
    "X-Content-Type-Options" : "nosniff",
    "Pragma" : "no-cache",
    "Access-Control-Allow-Headers" : "Content-Type",
    "X-Frame-Options" : "SAMEORIGIN",
    "Referrer-Policy" : "no-referrer",
    "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
    "NettyLatency" : "1766049664348",
    "content-type" : "application/json",
    "Expires" : "0",
    "X-XSS-Protection" : "0"
  },
  "payload" : {
    "enableMetrics" : true,
    "enableTracing" : true,
    "bindingDiscoveryRequestTimeout" : 2000,
    "enableCollisionDetection" : true,
    "enableSubscriberLog" : false,
    "enhancedLogging" : {
      "enableEnhancedLogging" : false,
      "staleSessionDeletionLogLevel" : "TRACE",
      "enableLogUEIdentifierInfo" : false,
      "enableLogUeInfoInSessionDeletion" : false
    }
  }
},
"authenticationType" : "JWT",
"status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 440,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-18T09:21:04.894+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1052221768",
"pod" : "cncc1-acore-ingress-gateway-84d5dcd889-gd9dx",
"ocLogId" : "-",
"instanceType" : "prod",

```

```

    "xRequestId" : "-"
  }

```

B.1.2 Policy

This section provides the audit and security logs for Policy.

POLICY → Policy Management → Policy Projects

Operation Type: CREATE

M-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765964056,
    "nanoOfSecond" : 617485500
  },
  "thread" : "ingress-h2c-epoll-2",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "POST",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:46196",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/policyapi/config",
    "authenticationType" : "OAUTH"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 112,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:34:16.617+0000",
  "processId" : "1",
  "ocLogId" : "1765964056616_112_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765964056,
    "nanoOfSecond" : 619677055
  }
}

```

```

    },
    "thread" : "igw-app-thread2",
    "level" : "INFO",
    "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
    "message" : {
      "logType" : "SECURITY",
      "type" : "REQUEST",
      "operationType" : "POST",
      "resourceType" : "POLICY",
      "cnccId" : "Cluster1",
      "instanceId" : "Cluster1-policy-instance1",
      "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
      "username" : "user",
      "remoteAddress" : "xx.xx.xx.xx:46196",
      "localAddress" : "xx.xx.xx.xx:8081",
      "resourcePath" : "/policyapi/config",
      "scheme" : "http",
      "queryParams" : { },
      "headers" : {
        "Origin" : "http://xx.xx.xx.xx:30175",
        "Cookie" : "{masked}",
        "X-Requested-With" : "XMLHttpRequest",
        "Accept" : "application/json, text/javascript, */*; q=0.01",
        "oc-cncc-id" : "Cluster1",
        "Connection" : "keep-alive",
        "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
        "uuidToken" : "508b1fe7-c1a5-4e12-91b4-538ebc63fbac",
        "Host" : "xx.xx.xx.xx:30175",
        "DNT" : "1",
        "Accept-Encoding" : "gzip, deflate",
        "svcName" : "cncc1-acore-ingress-gateway",
        "ocLogId" : "1765964056616_112_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
        "sbi-timer-publish-headers" : "false",
        "Accept-Language" : "en-GB,en;q=0.9",
        "Content-Length" : "319",
        "oc-cncc-instance-id" : "Cluster1-policy-instance1",
        "sbi-timer-feature" : "false",
        "Content-Type" : "application/json; charset=UTF-8"
      }
    },
    "payload" : {
      "key" : "d8e39df6-250d-4e4f-a57f-bac5c0d4826c",
      "labels" : "dev",
      "value" : "{\"id\":\"d8e39df6-250d-4e4f-a57f-
bac5c0d4826c\",\"name\":\"Test-Policy\",\"serviceType\":\"pcf-
sm\",\"description\":\"Test-Policy\",\"stateHistory\":
[{\state\":\"dev\",\"timestamp\":\"2025-12-17T09:34:16.143Z\"}]}",
      "topic" : "public.policy.project"
    },
    "authenticationType" : "OAUTH"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 115,
  "threadPriority" : 5,

```

```

"messageTimestamp" : "2025-12-17T09:34:16.619+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-694354457",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "1765964056616_112_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765964056,
    "nanoOfSecond" : 670769334
  },
  "thread" : "igw-app-thread11",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "POST",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/policyapi/config",
    "scheme" : "http",
    "headers" : {
      "date" : "Wed, 17 Dec 2025 09:34:16 GMT",
      "content-length" : "0",
      "transfer-encoding" : "chunked",
      "Access-Control-Allow-Origin" : "*",
      "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
      "X-Content-Type-Options" : "nosniff",
      "RequestMethod" : "POST",
      "Pragma" : "no-cache",
      "Access-Control-Allow-Headers" : "Content-Type",
      "X-Frame-Options" : "SAMEORIGIN",
      "Referrer-Policy" : "no-referrer",
      "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
      "NettyLatency" : "1765964056616",
      "Expires" : "0",
      "X-XSS-Protection" : "0"
    },
    "payload" : { },
    "authenticationType" : "OAUTH",
    "status" : "201 CREATED"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 126,

```

```

    "threadPriority" : 5,
    "messageTimestamp" : "2025-12-17T09:34:16.670+0000",
    "processId" : "1",
    "ingressTxId" : "ingress-tx-609861156",
    "pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
    "ocLogId" : "-",
    "instanceType" : "prod",
    "xRequestId" : "-"
  }
}

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765964056,
    "nanoOfSecond" : 623921797
  },
  "thread" : "ingress-h2c-epoll-4",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "POST",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:46196",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/policyapi/config",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 135,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:34:16.623+0000",
  "processId" : "1",
  "ocLogId" : "1765964056621_135_cncc1-acore-ingress-gateway-596b995666-pfgm5",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765964056,
    "nanoOfSecond" : 626760440
  },
}

```

```

"thread" : "igw-app-thread13",
"level" : "INFO",
"loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
"message" : {
  "logType" : "SECURITY",
  "type" : "REQUEST",
  "operationType" : "POST",
  "resourceType" : "POLICY",
  "cnccId" : "Cluster1",
  "instanceId" : "Cluster1-policy-instance1",
  "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
  "username" : "user",
  "remoteAddress" : "xx.xx.xx.xx:46196",
  "localAddress" : "xx.xx.xx.xx:30175",
  "resourcePath" : "/policyapi/config",
  "scheme" : "http",
  "queryParams" : { },
  "headers" : {
    "Origin" : "http://xx.xx.xx.xx:30175",
    "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
    "DNT" : "1",
    "Accept-Encoding" : "gzip, deflate",
    "Authorization" : "{masked}",
    "host" : "cncc1-acore-ingress-gateway:30165",
    "connection" : "close",
    "Content-Length" : "319",
    "oc-cncc-instance-id" : "Cluster1-policy-instance1",
    "Content-Type" : "application/json; charset=UTF-8",
    "Cookie" : "{masked}",
    "X-Requested-With" : "XMLHttpRequest",
    "Accept" : "application/json, text/javascript, */*; q=0.01",
    "oc-cncc-id" : "Cluster1",
    "X-Forwarded-Proto" : "http",
    "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
    "uuidToken" : "e927796e-1439-4326-91f7-4126c32e6b1a",
    "svcName" : "xx.xxx.xx.xx",
    "ocLogId" : "1765964056616_112_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
    "X-Forwarded-Port" : "30175",
    "sbi-timer-publish-headers" : "false",
    "Forwarded" :
"proto=http;host=\"xx.xx.xx.xx:30175\";for=\"xx.xx.xx.xx:46196\"",
    "X-Forwarded-For" : "xx.xx.xx.xx",
    "Accept-Language" : "en-GB,en;q=0.9",
    "sbi-timer-feature" : "false"
  },
  "payload" : {
    "key" : "d8e39df6-250d-4e4f-a57f-bac5c0d4826c",
    "labels" : "dev",
    "value" : "{\"id\": \"d8e39df6-250d-4e4f-a57f-
bac5c0d4826c\", \"name\": \"Test-Policy\", \"serviceType\": \"pcf-
sm\", \"description\": \"Test-Policy\", \"stateHistory\":
[ { \"state\": \"dev\", \"timestamp\": \"2025-12-17T09:34:16.143Z\" } ] }",
    "topic" : "public.policy.project"
  },
},

```

```

    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 147,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:34:16.626+0000",
  "processId" : "1",
  "ingressTxId" : "ingress-tx-2020652767",
  "pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
  "ocLogId" : "1765964056616_112_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765964056,
    "nanoOfSecond" : 661555321
  },
  "thread" : "igw-app-thread14",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "POST",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/policyapi/config",
    "scheme" : "http",
    "headers" : {
      "date" : "Wed, 17 Dec 2025 09:34:16 GMT",
      "content-length" : "0",
      "transfer-encoding" : "chunked",
      "Access-Control-Allow-Origin" : "**",
      "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
      "RequestMethod" : "POST",
      "X-Content-Type-Options" : "nosniff",
      "Pragma" : "no-cache",
      "Access-Control-Allow-Headers" : "Content-Type",
      "X-Frame-Options" : "SAMEORIGIN",
      "Referrer-Policy" : "no-referrer",
      "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
      "NettyLatency" : "1765964056621",
      "Expires" : "0",
      "X-XSS-Protection" : "0"
    },
    "payload" : { },
  },
}

```

```

    "authenticationType" : "JWT",
    "status" : "201 CREATED"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 148,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:34:16.661+0000",
  "processId" : "1",
  "ingressTxId" : "ingress-tx-1033814472",
  "pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
  "ocLogId" : "-",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

Operation Type: CREATE

M-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765964127,
    "nanoOfSecond" : 398591688
  },
  "thread" : "ingress-h2c-epoll-1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "POST",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/policyapi/config",
    "authenticationType" : "OAUTH"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 75,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:35:27.398+0000",
  "processId" : "1",
  "ocLogId" : "1765964127397_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765964127,
    "nanoOfSecond" : 400418815
  },
  "thread" : "igw-app-thread20",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "POST",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/policyapi/config",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "application/json, text/javascript, */*; q=0.01",
      "oc-cncc-id" : "Cluster1",
      "Connection" : "keep-alive",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "uuidToken" : "953c3a33-dc4c-4004-908d-dfa22b40a7ef",
      "Host" : "xx.xx.xx.xx:30175",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "svcName" : "cncc1-acore-ingress-gateway",
      "ocLogId" : "1765964127397_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
      "sbi-timer-publish-headers" : "false",
      "Accept-Language" : "en-GB,en;q=0.9",
      "Content-Length" : "667",
      "oc-cncc-instance-id" : "Cluster1-policy-instance1",
      "sbi-timer-feature" : "false",
      "Content-Type" : "application/json; charset=UTF-8"
    },
    "payload" : {
      "key" : "91bb775b-04d3-4db7-b24a-c465fe8e1120",
      "value" : "{\n  \"name\": \"main\",\n  \"key\": \"91bb775b-04d3-4db7-b24a-c465fe8e1120\",\n  \"projectId\": \"d8e39df6-250d-4e4f-a57f-bac5c0d4826c\",\n  \"layout\": \"<xml xmlns=\\\"https://developers.google.com/blockly/xml\\\"><block type=\\\"comment_block\\\" id=\\\"2B^Ze.Qs{Y.aktK!V~H}\\\" x=\\\"774\\\" y=\\\"161\\\"><field name=\\\"comment\\\"> /field><next><block type=\\\"mandatory_action\\\" id=\\\";g/Qj)+%aU|x/mln(?a\\\"><field name=\\\"action\\\">accept message</field></block></next></block></"
    }
  }
}

```

```

xml>\", \"entrance\":true, \"outputModels\":[]\",
  \"topic\" : \"public.policy.project.content\",
  \"labels\" : \"d8e39df6-250d-4e4f-a57f-bac5c0d4826c\"
},
\"authenticationType\" : \"OAUTH\"
},
\"endOfBatch\" : false,
\"loggerFqcn\" : \"org.apache.logging.log4j.internal.DefaultLogBuilder\",
\"threadId\" : 135,
\"threadPriority\" : 5,
\"messageTimestamp\" : \"2025-12-17T09:35:27.400+0000\",
\"processId\" : \"1\",
\"ingressTxId\" : \"ingress-tx-1169306543\",
\"pod\" : \"cncc1-mcore-ingress-gateway-7f76dc699d-c75fc\",
\"ocLogId\" : \"1765964127397_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc\",
\"instanceType\" : \"prod\",
\"xRequestId\" : \"-\"
}

```

SECURITY- Response Log

```

{
  \"instant\" : {
    \"epochSecond\" : 1765964127,
    \"nanoOfSecond\" : 432731549
  },
  \"thread\" : \"igw-app-thread4\",
  \"level\" : \"INFO\",
  \"loggerName\" : \"ocpm.cne.gateway.cncc.filters.CnccLoggingFilter\",
  \"message\" : {
    \"logType\" : \"SECURITY\",
    \"type\" : \"RESPONSE\",
    \"operationType\" : \"POST\",
    \"resourceType\" : \"POLICY\",
    \"cnccId\" : \"Cluster1\",
    \"instanceId\" : \"Cluster1-policy-instance1\",
    \"userId\" : \"2ff48402-bd03-4404-a3a9-f679d4d560f8\",
    \"username\" : \"user\",
    \"resourcePath\" : \"/policyapi/config\",
    \"scheme\" : \"http\",
    \"headers\" : {
      \"date\" : \"Wed, 17 Dec 2025 09:35:27 GMT\",
      \"content-length\" : \"0\",
      \"transfer-encoding\" : \"chunked\",
      \"Access-Control-Allow-Origin\" : \"*\",
      \"Access-Control-Allow-Methods\" : \"GET, POST, DELETE, PUT, PATCH\",
      \"X-Content-Type-Options\" : \"nosniff\",
      \"RequestMethod\" : \"POST\",
      \"Pragma\" : \"no-cache\",
      \"Access-Control-Allow-Headers\" : \"Content-Type\",
      \"X-Frame-Options\" : \"SAMEORIGIN\",
      \"Referrer-Policy\" : \"no-referrer\",
      \"Cache-Control\" : \"no-cache, no-store, max-age=0, must-revalidate\",
      \"NettyLatency\" : \"1765964127397\",
      \"Expires\" : \"0\",

```

```

        "X-XSS-Protection" : "0"
      },
      "payload" : { },
      "authenticationType" : "OAUTH",
      "status" : "201 CREATED"
    },
    "endOfBatch" : false,
    "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
    "threadId" : 117,
    "threadPriority" : 5,
    "messageTimestamp" : "2025-12-17T09:35:27.432+0000",
    "processId" : "1",
    "ingressTxId" : "ingress-tx-1659395270",
    "pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
    "ocLogId" : "-",
    "instanceType" : "prod",
    "xRequestId" : "-"
  }
}

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765964127,
    "nanoOfSecond" : 404487802
  },
  "thread" : "ingress-h2c-epoll-4",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "POST",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/policyapi/config",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 135,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:35:27.404+0000",
  "processId" : "1",
  "ocLogId" : "1765964127402_135_cncc1-acore-ingress-gateway-596b995666-pfgm5",
  "instanceType" : "prod",
}

```

```
"xRequestId" : "-"
}
```

SECURITY- Request Log

```
{
  "instant" : {
    "epochSecond" : 1765964127,
    "nanoOfSecond" : 406935311
  },
  "thread" : "igw-app-thread9",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "POST",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/policyapi/config",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "Authorization" : "{masked}",
      "host" : "cncc1-acore-ingress-gateway:30165",
      "connection" : "close",
      "Content-Length" : "667",
      "oc-cncc-instance-id" : "Cluster1-policy-instance1",
      "Content-Type" : "application/json; charset=UTF-8",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "application/json, text/javascript, */*; q=0.01",
      "oc-cncc-id" : "Cluster1",
      "X-Forwarded-Proto" : "http",
      "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
      "uuidToken" : "c378ed50-311f-4bf8-9786-b295e8da5d20",
      "svcName" : "xx.xx.xx.xx",
      "ocLogId" : "1765964127397_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
      "X-Forwarded-Port" : "30175",
      "sbi-timer-publish-headers" : "false",
      "Forwarded" :
      "proto=http;host=\\"10.121.27.39:30175\\";for=\\"10.233.113.0:53423\\"",
      "X-Forwarded-For" : "xx.xx.xx.xx",
      "Accept-Language" : "en-GB,en;q=0.9",
```

```

    "sbi-timer-feature" : "false"
  },
  "payload" : {
    "key" : "91bb775b-04d3-4db7-b24a-c465fe8e1120",
    "value" : "{\"name\":\"main\", \"key\":\"91bb775b-04d3-4db7-b24a-c465fe8e1120\", \"projectId\":\"d8e39df6-250d-4e4f-a57f-bac5c0d4826c\", \"layout\":\"<xml xmlns=\\\"https://developers.google.com/blockly/xml\\\"><block type=\\\"comment_block\\\" id=\\\"2B^Ze.Qs{Y.aktK!V~H}\\\" x=\\\"774\\\" y=\\\"161\\\"><field name=\\\"comment\\\"> </field><next><block type=\\\"mandatory_action\\\" id=\\\";g/Qj)+%aU]x/mln(?a\\\"><field name=\\\"action\\\">accept message</field></block></next></block></xml>\", \"entrance\":true, \"outputModels\":[]}\",
    "topic" : "public.policy.project.content",
    "labels" : "d8e39df6-250d-4e4f-a57f-bac5c0d4826c"
  },
  "authenticationType" : "JWT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 143,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:35:27.406+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1102147559",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "1765964127397_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765964127,
    "nanoOfSecond" : 425551480
  },
  "thread" : "igw-app-thread7",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "POST",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/policyapi/config",
    "scheme" : "http",
    "headers" : {
      "date" : "Wed, 17 Dec 2025 09:35:27 GMT",
      "content-length" : "0",
      "transfer-encoding" : "chunked",
    }
  }
}

```

```

    "Access-Control-Allow-Origin" : "*",
    "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
    "RequestMethod" : "POST",
    "X-Content-Type-Options" : "nosniff",
    "Pragma" : "no-cache",
    "Access-Control-Allow-Headers" : "Content-Type",
    "X-Frame-Options" : "SAMEORIGIN",
    "Referrer-Policy" : "no-referrer",
    "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
    "NettyLatency" : "1765964127402",
    "Expires" : "0",
    "X-XSS-Protection" : "0"
  },
  "payload" : { },
  "authenticationType" : "JWT",
  "status" : "201 CREATED"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 141,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:35:27.425+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1638610825",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

Operation Type: UPDATE

M-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765964140,
    "nanoOfSecond" : 768139001
  },
  "thread" : "ingress-h2c-epoll-1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "PUT",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/policyapi/config",

```

```

    "authenticationType" : "OAUTH"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 75,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:35:40.768+0000",
  "processId" : "1",
  "ocLogId" : "1765964140766_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765964140,
    "nanoOfSecond" : 770694475
  },
  "thread" : "igw-app-thread9",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "PUT",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/policyapi/config",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "application/json, text/javascript, */*; q=0.01",
      "oc-cncc-id" : "Cluster1",
      "Connection" : "keep-alive",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "uuidToken" : "21cfd3ac-lee2-449e-b5aa-967e3124125f",
      "Host" : "10.121.27.39:30175",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "svcName" : "cncc1-acore-ingress-gateway",
      "ocLogId" : "1765964140766_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
      "sbi-timer-publish-headers" : "false",
      "Accept-Language" : "en-GB,en;q=0.9",

```

```

    "Content-Length" : "384",
    "oc-cncc-instance-id" : "Cluster1-policy-instance1",
    "sbi-timer-feature" : "false",
    "Content-Type" : "application/json; charset=UTF-8"
  },
  "payload" : {
    "key" : "d8e39df6-250d-4e4f-a57f-bac5c0d4826c",
    "labels" : "prod",
    "value" : "{ \"id\": \"d8e39df6-250d-4e4f-a57f-bac5c0d4826c\", \"name\": \"Test-Policy\", \"serviceType\": \"pcf-sm\", \"description\": \"Test-Policy\", \"stateHistory\": [{ \"state\": \"dev\", \"timestamp\": \"2025-12-17T09:34:16.143Z\" }, { \"state\": \"prod\", \"timestamp\": \"2025-12-17T09:35:40.436Z\" } ] }",
    "topic" : "public.policy.project"
  },
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 124,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:35:40.770+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1931748154",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "1765964140766_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765964140,
    "nanoOfSecond" : 804834580
  },
  "thread" : "igw-app-thread12",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "PUT",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/policyapi/config",
    "scheme" : "http",
    "headers" : {
      "date" : "Wed, 17 Dec 2025 09:35:40 GMT",
      "content-length" : "0",
      "transfer-encoding" : "chunked",

```

```

    "Access-Control-Allow-Origin" : "*",
    "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
    "X-Content-Type-Options" : "nosniff",
    "RequestMethod" : "PUT",
    "Pragma" : "no-cache",
    "Access-Control-Allow-Headers" : "Content-Type",
    "X-Frame-Options" : "SAMEORIGIN",
    "Referrer-Policy" : "no-referrer",
    "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
    "NettyLatency" : "1765964140766",
    "Expires" : "0",
    "X-XSS-Protection" : "0"
  },
  "payload" : { },
  "authenticationType" : "OAUTH",
  "status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 127,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:35:40.804+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-56148356",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765964140,
    "nanoOfSecond" : 775345341
  },
  "thread" : "ingress-h2c-epoll-1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "PUT",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/policyapi/config",
    "authenticationType" : "JWT"
  },
}

```

```

"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 74,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:35:40.775+0000",
"processId" : "1",
"ocLogId" : "1765964140773_74_cncc1-acore-ingress-gateway-596b995666-pfgm5",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765964140,
    "nanoOfSecond" : 778339699
  },
  "thread" : "igw-app-thread20",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "PUT",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/policyapi/config",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "Authorization" : "{masked}",
      "host" : "cncc1-acore-ingress-gateway:30165",
      "connection" : "close",
      "Content-Length" : "384",
      "oc-cncc-instance-id" : "Cluster1-policy-instance1",
      "Content-Type" : "application/json; charset=UTF-8",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "application/json, text/javascript, */*; q=0.01",
      "oc-cncc-id" : "Cluster1",
      "X-Forwarded-Proto" : "http",
      "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
      "uuidToken" : "74f4bedb-5a76-4f43-ba7c-f8eb3ea36alb",
      "svcName" : "10.123.134.22",

```

```

    "ocLogId" : "1765964140766_75_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
    "X-Forwarded-Port" : "30175",
    "sbi-timer-publish-headers" : "false",
    "Forwarded" :
"proto=http;host=\"xx.xx.xx.xx:30175\";for=\"xx.xx.xx.xx:53423\" ",
    "X-Forwarded-For" : "xx.xx.xx.xx",
    "Accept-Language" : "en-GB,en;q=0.9",
    "sbi-timer-feature" : "false"
  },
  "payload" : {
    "key" : "d8e39df6-250d-4e4f-a57f-bac5c0d4826c",
    "labels" : "prod",
    "value" : "{\"id\":\"d8e39df6-250d-4e4f-a57f-
bac5c0d4826c\", \"name\":\"Test-Policy\", \"serviceType\":\"pcf-
sm\", \"description\":\"Test-Policy\", \"stateHistory\":
[ { \"state\":\"dev\", \"timestamp\":\"2025-12-17T09:34:16.143Z\" },
{ \"state\":\"prod\", \"timestamp\":\"2025-12-17T09:35:40.436Z\" } ] }",
    "topic" : "public.policy.project"
  },
  "authenticationType" : "JWT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 259,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:35:40.778+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-2042097145",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "1765964140766_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765964140,
    "nanoOfSecond" : 796810993
  },
  "thread" : "igw-app-thread18",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "PUT",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/policyapi/config",

```

```

"scheme" : "http",
"headers" : {
  "date" : "Wed, 17 Dec 2025 09:35:40 GMT",
  "content-length" : "0",
  "transfer-encoding" : "chunked",
  "Access-Control-Allow-Origin" : "*",
  "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
  "RequestMethod" : "PUT",
  "X-Content-Type-Options" : "nosniff",
  "Pragma" : "no-cache",
  "Access-Control-Allow-Headers" : "Content-Type",
  "X-Frame-Options" : "SAMEORIGIN",
  "Referrer-Policy" : "no-referrer",
  "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
  "NettyLatency" : "1765964140773",
  "Expires" : "0",
  "X-XSS-Protection" : "0"
},
"payload" : { },
"authenticationType" : "JWT",
"status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 255,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:35:40.796+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-278643473",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

Operation Type: DELETE

M-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765964172,
    "nanoOfSecond" : 90068190
  },
  "thread" : "ingress-h2c-epoll-1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "DELETE",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",

```

```

    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/policyapi/config/cfglist",
    "authenticationType" : "OAUTH"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 75,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:36:12.090+0000",
  "processId" : "1",
  "ocLogId" : "1765964172088_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765964172,
    "nanoOfSecond" : 92247229
  },
  "thread" : "igw-app-thread9",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "DELETE",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/policyapi/config/cfglist",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://10.121.27.39:30175",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "application/json, text/javascript, */*; q=0.01",
      "oc-cncc-id" : "Cluster1",
      "Connection" : "keep-alive",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "uuidToken" : "6d3075d3-03c8-49bc-a694-94f32581b9a8",
      "Host" : "10.121.27.39:30175",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",

```

```

    "svcName" : "cncc1-acore-ingress-gateway",
    "ocLogId" : "1765964172088_75_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
    "sbi-timer-publish-headers" : "false",
    "Accept-Language" : "en-GB,en;q=0.9",
    "Content-Length" : "186",
    "oc-cncc-instance-id" : "Cluster1-policy-instance1",
    "sbi-timer-feature" : "false",
    "Content-Type" : "application/json; charset=UTF-8"
  },
  "payload" : {
    "mo" : [ {
      "topic" : "public.policy.project",
      "cfg_key" : [ "d8e39df6-250d-4e4f-a57f-bac5c0d4826c" ]
    }, {
      "topic" : "public.policy.project.content",
      "cfg_key" : [ "91bb775b-04d3-4db7-b24a-c465fe8e1120" ]
    } ]
  },
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 124,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:36:12.092+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-959933929",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "1765964172088_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765964172,
    "nanoOfSecond" : 139256752
  },
  "thread" : "igw-app-thread12",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "DELETE",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/policyapi/config/cfglist",
    "scheme" : "http",

```

```

"headers" : {
  "date" : "Wed, 17 Dec 2025 09:36:12 GMT",
  "content-length" : "0",
  "transfer-encoding" : "chunked",
  "Access-Control-Allow-Origin" : "*",
  "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
  "X-Content-Type-Options" : "nosniff",
  "RequestMethod" : "DELETE",
  "Pragma" : "no-cache",
  "Access-Control-Allow-Headers" : "Content-Type",
  "X-Frame-Options" : "SAMEORIGIN",
  "Referrer-Policy" : "no-referrer",
  "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
  "NettyLatency" : "1765964172088",
  "Expires" : "0",
  "X-XSS-Protection" : "0"
},
"payload" : { },
"authenticationType" : "OAUTH",
"status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 127,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:36:12.139+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-56148356",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765964172,
    "nanoOfSecond" : 96548127
  },
  "thread" : "ingress-h2c-epoll-3",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "DELETE",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",

```

```

    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/policyapi/config/cfglist",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 132,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:36:12.096+0000",
  "processId" : "1",
  "ocLogId" : "1765964172094_132_cncc1-acore-ingress-gateway-596b995666-
pfgm5",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765964172,
    "nanoOfSecond" : 99218066
  },
  "thread" : "igw-app-thread20",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "DELETE",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-policy-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:53423",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/policyapi/config/cfglist",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "Authorization" : "{masked}",
      "host" : "cncc1-acore-ingress-gateway:30165",
      "connection" : "close",
      "Content-Length" : "186",
      "oc-cncc-instance-id" : "Cluster1-policy-instance1",
      "Content-Type" : "application/json; charset=UTF-8",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "application/json, text/javascript, */*; q=0.01",

```

```

      "oc-cncc-id" : "Cluster1",
      "X-Forwarded-Proto" : "http",
      "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
      "uuidToken" : "5939b680-92bb-4a39-a373-590fcc8e38ee",
      "svcName" : "10.123.134.22",
      "ocLogId" : "1765964172088_75_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
      "X-Forwarded-Port" : "30175",
      "sbi-timer-publish-headers" : "false",
      "Forwarded" :
"proto=http;host=\"xx.xx.xx.xx:30175\";for=\"xx.xx.xx.xx:53423\"",
      "X-Forwarded-For" : "xx.xx.xx.xx",
      "Accept-Language" : "en-GB,en;q=0.9",
      "sbi-timer-feature" : "false"
    },
    "payload" : {
      "mo" : [ {
        "topic" : "public.policy.project",
        "cfg_key" : [ "d8e39df6-250d-4e4f-a57f-bac5c0d4826c" ]
      }, {
        "topic" : "public.policy.project.content",
        "cfg_key" : [ "91bb775b-04d3-4db7-b24a-c465fe8e1120" ]
      } ]
    },
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 259,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:36:12.099+0000",
  "processId" : "1",
  "ingressTxId" : "ingress-tx-1580992022",
  "pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
  "ocLogId" : "1765964172088_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765964172,
    "nanoOfSecond" : 130484122
  },
  "thread" : "igw-app-thread18",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "DELETE",
    "resourceType" : "POLICY",
    "cnccId" : "Cluster1",

```

```

"instanceId" : "Cluster1-policy-instance1",
"userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
"username" : "user",
"resourcePath" : "/policyapi/config/cfglist",
"scheme" : "http",
"headers" : {
  "date" : "Wed, 17 Dec 2025 09:36:12 GMT",
  "content-length" : "0",
  "transfer-encoding" : "chunked",
  "Access-Control-Allow-Origin" : "*",
  "Access-Control-Allow-Methods" : "GET, POST, DELETE, PUT, PATCH",
  "RequestMethod" : "DELETE",
  "X-Content-Type-Options" : "nosniff",
  "Pragma" : "no-cache",
  "Access-Control-Allow-Headers" : "Content-Type",
  "X-Frame-Options" : "SAMEORIGIN",
  "Referrer-Policy" : "no-referrer",
  "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
  "NettyLatency" : "1765964172094",
  "Expires" : "0",
  "X-XSS-Protection" : "0"
},
"payload" : { },
"authenticationType" : "JWT",
"status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 255,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:36:12.130+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-278643473",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

B.1.3 SCP

This section provides the audit and security logs for SCP.

SCP → Canary Release

Operation Type: GET

M-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765963475,
    "nanoOfSecond" : 665922849
  },
}

```

```

"thread" : "ingress-h2c-epoll-4",
"level" : "INFO",
"loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
"message" : {
  "logType" : "AUDIT",
  "type" : "ACCESS_RESOURCE",
  "operationType" : "GET",
  "resourceType" : "SCP",
  "cnccId" : "Cluster1",
  "instanceId" : "Cluster1-scp-instance1",
  "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
  "username" : "user",
  "remoteAddress" : "xx.xx.xx.xx:23515",
  "localAddress" : "xx.xx.xx.xx:8081",
  "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release",
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 120,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:24:35.665+0000",
"processId" : "1",
"ocLogId" : "1765963475664_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765963475,
    "nanoOfSecond" : 668071816
  },
  "thread" : "igw-app-thread11",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "GET",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Cookie" : "{masked}",

```

```

    "X-Requested-With" : "XMLHttpRequest",
    "Accept" : "*/*",
    "oc-cncc-id" : "Cluster1",
    "Connection" : "keep-alive",
    "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
    "uuidToken" : "a6c20279-f068-45fd-ad13-f4a4e1879706",
    "Host" : "xx.xx.xx.xx:30175",
    "DNT" : "1",
    "Accept-Encoding" : "gzip, deflate",
    "svcName" : "cncc1-acore-ingress-gateway",
    "ocLogId" : "1765963475664_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
    "sbi-timer-publish-headers" : "false",
    "Accept-Language" : "en-GB,en;q=0.9",
    "oc-cncc-instance-id" : "Cluster1-scp-instancel",
    "sbi-timer-feature" : "false",
    "Content-Type" : "application/json; charset=utf-8"
  },
  "payload" : "Either the payload is empty or too large",
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 126,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:24:35.668+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-871753753",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "1765963475664_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765963476,
    "nanoOfSecond" : 121800468
  },
  "thread" : "igw-app-thread6",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "GET",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instancel",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",

```

```

"resourcePath" : "/ocscp/scpc-configuration/v1/canary-release",
"scheme" : "http",
"headers" : {
  "date" : "Wed, 17 Dec 2025 09:17:46 GMT",
  "content-length" : "182",
  "X-Content-Type-Options" : "nosniff",
  "RequestMethod" : "GET",
  "Pragma" : "no-cache",
  "X-Frame-Options" : "SAMEORIGIN",
  "Referrer-Policy" : "no-referrer",
  "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
  "NettyLatency" : "1765963475664",
  "content-type" : "application/json",
  "Expires" : "0",
  "X-XSS-Protection" : "0"
},
"payload" : [{"\configName\":"defaultCanaryConfigName\","\canaryData\":
{"apiFullVersion\":"2.0.0\","\canaryTraffic\":5},\createdTimestamp\":"2025
-12-15 08:12:40\","\updatedTimestamp\":"2025-12-15 08:12:40\"}],
"authenticationType" : "OAUTH",
"status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 121,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:24:36.121+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1958392965",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765963475,
    "nanoOfSecond" : 674153723
  },
  "thread" : "ingress-h2c-epoll-3",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "GET",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",

```

```

    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 132,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:24:35.674+0000",
  "processId" : "1",
  "ocLogId" : "1765963475671_132_cncc1-acore-ingress-gateway-596b995666-
pfgm5",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765963475,
    "nanoOfSecond" : 677565603
  },
  "thread" : "igw-app-thread7",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "GET",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "**/*",
      "oc-cncc-id" : "Cluster1",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "X-Forwarded-Proto" : "http",
      "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
      "uuidToken" : "85d7522e-bb38-4ecb-8e39-0bd6cb949d0f",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "svcName" : "10.75.213.209",
      "ocLogId" : "1765963475664_120_cncc1-mcore-ingress-gateway-7f76dc699d-

```

```

c75fc",
  "X-Forwarded-Port" : "30175",
  "sbi-timer-publish-headers" : "false",
  "Authorization" : "{masked}",
  "host" : "cncc1-acore-ingress-gateway:30165",
  "Forwarded" :
"proto=http;host=\"xx.xx.xx.xx:30175\";for=\"xx.xx.xx.xx:23515\"",
  "X-Forwarded-For" : "xx.xx.xx.xx",
  "connection" : "close",
  "Accept-Language" : "en-GB,en;q=0.9",
  "oc-cncc-instance-id" : "Cluster1-scp-instance1",
  "sbi-timer-feature" : "false",
  "Content-Type" : "application/json; charset=utf-8"
},
"payload" : "Either the payload is empty or too large",
"authenticationType" : "JWT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 141,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:24:35.677+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-856934590",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "1765963475664_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765963476,
    "nanoOfSecond" : 115705075
  },
  "thread" : "igw-app-thread8",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "GET",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release",
    "scheme" : "http",
    "headers" : {
      "date" : "Wed, 17 Dec 2025 09:17:46 GMT",
      "content-length" : "182",

```

```

    "RequestMethod" : "GET",
    "X-Content-Type-Options" : "nosniff",
    "Pragma" : "no-cache",
    "X-Frame-Options" : "SAMEORIGIN",
    "Referrer-Policy" : "no-referrer",
    "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
    "NettyLatency" : "1765963475671",
    "content-type" : "application/json",
    "Expires" : "0",
    "X-XSS-Protection" : "0"
  },
  "payload" : "[{\\"configName\\":\\"defaultCanaryConfigName\\",\\"canaryData\\":
{\\"apiFullVersion\\":\\"2.0.0\\",\\"canaryTraffic\\":5},\\"createdTimestamp\\":\\"2025
-12-15 08:12:40\\",\\"updatedTimestamp\\":\\"2025-12-15 08:12:40\\"}]",
  "authenticationType" : "JWT",
  "status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 142,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:24:36.115+0000",
"processId" : "1",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

Operation Type: CREATE

M-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765963496,
    "nanoOfSecond" : 195185400
  },
  "thread" : "ingress-h2c-epoll-4",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "PUT",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "authenticationType" : "OAUTH"
  }
}

```

```

    },
    "endOfBatch" : false,
    "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
    "threadId" : 120,
    "threadPriority" : 5,
    "messageTimestamp" : "2025-12-17T09:24:56.195+0000",
    "processId" : "1",
    "ocLogId" : "1765963496193_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
    "instanceType" : "prod",
    "xRequestId" : "-"
  }
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765963496,
    "nanoOfSecond" : 198512994
  },
  "thread" : "igw-app-thread10",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "PUT",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "*/*",
      "oc-cncc-id" : "Cluster1",
      "Connection" : "keep-alive",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "uuidToken" : "c3f5e010-dfac-48d2-8a59-25959f58513e",
      "Host" : "xx.xx.xx.xx:30175",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "svcName" : "cncc1-acore-ingress-gateway",
      "ocLogId" : "1765963496193_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
      "sbi-timer-publish-headers" : "false",
      "Accept-Language" : "en-GB,en;q=0.9",

```

```

    "Content-Length" : "126",
    "oc-cncc-instance-id" : "Cluster1-scp-instance1",
    "sbi-timer-feature" : "false",
    "Content-Type" : "application/json; charset=UTF-8"
  },
  "payload" : {
    "configName" : "n5g-eir",
    "canaryData" : {
      "apiFullVersion" : "2.0.0",
      "canaryTraffic" : 5
    },
    "createdTimestamp" : "",
    "updatedTimestamp" : ""
  },
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 125,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:24:56.198+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1109083327",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "1765963496193_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765963496,
    "nanoOfSecond" : 722833382
  },
  "thread" : "igw-app-thread9",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "PUT",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "scheme" : "http",
    "headers" : {
      "date" : "Wed, 17 Dec 2025 09:18:07 GMT",
      "content-length" : "164",
      "X-Content-Type-Options" : "nosniff",

```

```

    "RequestMethod" : "PUT",
    "Pragma" : "no-cache",
    "X-Frame-Options" : "SAMEORIGIN",
    "Referrer-Policy" : "no-referrer",
    "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
    "NettyLatency" : "1765963496193",
    "content-type" : "application/json",
    "Expires" : "0",
    "X-XSS-Protection" : "0"
  },
  "payload" : {
    "configName" : "n5g-eir",
    "canaryData" : {
      "apiFullVersion" : "2.0.0",
      "canaryTraffic" : 5
    },
    "createdTimestamp" : "2025-12-17 09:18:07",
    "updatedTimestamp" : "2025-12-17 09:18:07"
  },
  "authenticationType" : "OAUTH",
  "status" : "201 CREATED"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 124,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:24:56.722+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-606386065",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765963496,
    "nanoOfSecond" : 205116426
  },
  "thread" : "ingress-h2c-epoll-1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "PUT",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
  }
}

```

```

    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 74,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:24:56.205+0000",
  "processId" : "1",
  "ocLogId" : "1765963496202_74_cncc1-acore-ingress-gateway-596b995666-pfgm5",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765963496,
    "nanoOfSecond" : 209006367
  },
  "thread" : "igw-app-thread11",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "PUT",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "Authorization" : "{masked}",
      "host" : "cncc1-acore-ingress-gateway:30165",
      "connection" : "close",
      "Content-Length" : "126",
      "oc-cncc-instance-id" : "Cluster1-scp-instance1",
      "Content-Type" : "application/json; charset=UTF-8",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "*/*"
    }
  }
}

```

```

        "oc-cncc-id" : "Cluster1",
        "X-Forwarded-Proto" : "http",
        "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
        "uuidToken" : "cb5902b4-bc46-4310-8628-22b0702845e0",
        "svcName" : "10.75.213.209",
        "ocLogId" : "1765963496193_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
        "X-Forwarded-Port" : "30175",
        "sbi-timer-publish-headers" : "false",
        "Forwarded" :
"proto=http;host=\"xx.xx.xx.xx:30175\";for=\"xx.xx.xx.xx:23515\"",
        "X-Forwarded-For" : "xx.xx.xx.xx",
        "Accept-Language" : "en-GB,en;q=0.9",
        "sbi-timer-feature" : "false"
    },
    "payload" : {
        "configName" : "n5g-eir",
        "canaryData" : {
            "apiFullVersion" : "2.0.0",
            "canaryTraffic" : 5
        },
        "createdTimestamp" : "",
        "updatedTimestamp" : ""
    },
    "authenticationType" : "JWT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 145,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:24:56.209+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1900383147",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "1765963496193_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765963496,
    "nanoOfSecond" : 713830161
  },
  "thread" : "igw-app-thread12",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "PUT",
    "resourceType" : "SCP",

```

```

"cnccId" : "Cluster1",
"instanceId" : "Cluster1-scp-instance1",
"userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
"username" : "user",
"resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
"scheme" : "http",
"headers" : {
  "date" : "Wed, 17 Dec 2025 09:18:07 GMT",
  "content-length" : "164",
  "RequestMethod" : "PUT",
  "X-Content-Type-Options" : "nosniff",
  "Pragma" : "no-cache",
  "X-Frame-Options" : "SAMEORIGIN",
  "Referrer-Policy" : "no-referrer",
  "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
  "NettyLatency" : "1765963496202",
  "content-type" : "application/json",
  "Expires" : "0",
  "X-XSS-Protection" : "0"
},
"payload" : {
  "configName" : "n5g-eir",
  "canaryData" : {
    "apiFullVersion" : "2.0.0",
    "canaryTraffic" : 5
  },
  "createdTimestamp" : "2025-12-17 09:18:07",
  "updatedTimestamp" : "2025-12-17 09:18:07"
},
"authenticationType" : "JWT",
"status" : "201 CREATED"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 146,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:24:56.713+0000",
"processId" : "1",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

Operation Type: UPDATE

M-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765963514,
    "nanoOfSecond" : 672563047
  },
  "thread" : "ingress-h2c-epoll-4",

```

```

"level" : "INFO",
"loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
"message" : {
  "logType" : "AUDIT",
  "type" : "ACCESS_RESOURCE",
  "operationType" : "PUT",
  "resourceType" : "SCP",
  "cnccId" : "Cluster1",
  "instanceId" : "Cluster1-scp-instance1",
  "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
  "username" : "user",
  "remoteAddress" : "xx.xx.xx.xx:23515",
  "localAddress" : "xx.xx.xx.xx:8081",
  "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 120,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:25:14.672+0000",
"processId" : "1",
"ocLogId" : "1765963514671_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765963514,
    "nanoOfSecond" : 675292062
  },
  "thread" : "igw-app-thread4",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "PUT",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "Cookie" : "{masked}",

```

```

    "X-Requested-With" : "XMLHttpRequest",
    "Accept" : "*/*",
    "oc-cncc-id" : "Cluster1",
    "Connection" : "keep-alive",
    "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
    "uuidToken" : "f84e3f2f-539d-4b31-bleb-070115583f9d",
    "Host" : "xx.xx.xx.xx:30175",
    "DNT" : "1",
    "Accept-Encoding" : "gzip, deflate",
    "svcName" : "cncc1-acore-ingress-gateway",
    "ocLogId" : "1765963514671_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
    "sbi-timer-publish-headers" : "false",
    "Accept-Language" : "en-GB,en;q=0.9",
    "Content-Length" : "164",
    "oc-cncc-instance-id" : "Cluster1-scp-instancel",
    "sbi-timer-feature" : "false",
    "Content-Type" : "application/json; charset=UTF-8"
  },
  "payload" : {
    "configName" : "n5g-eir",
    "canaryData" : {
      "apiFullVersion" : "2.0.0",
      "canaryTraffic" : 7
    },
    "createdTimestamp" : "2025-12-17 09:18:08",
    "updatedTimestamp" : "2025-12-17 09:18:08"
  },
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 117,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:25:14.675+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-22444421",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "1765963514671_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765963515,
    "nanoOfSecond" : 245717416
  },
  "thread" : "igw-app-thread19",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",

```

```

"message" : {
  "logType" : "SECURITY",
  "type" : "RESPONSE",
  "operationType" : "PUT",
  "resourceType" : "SCP",
  "cnccId" : "Cluster1",
  "instanceId" : "Cluster1-scp-instance1",
  "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
  "username" : "user",
  "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
  "scheme" : "http",
  "headers" : {
    "date" : "Wed, 17 Dec 2025 09:18:26 GMT",
    "content-length" : "164",
    "X-Content-Type-Options" : "nosniff",
    "RequestMethod" : "PUT",
    "Pragma" : "no-cache",
    "X-Frame-Options" : "SAMEORIGIN",
    "Referrer-Policy" : "no-referrer",
    "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
    "NettyLatency" : "1765963514671",
    "content-type" : "application/json",
    "Expires" : "0",
    "X-XSS-Protection" : "0"
  },
  "payload" : {
    "configName" : "n5g-eir",
    "canaryData" : {
      "apiFullVersion" : "2.0.0",
      "canaryTraffic" : 7
    },
    "createdTimestamp" : "2025-12-17 09:18:08",
    "updatedTimestamp" : "2025-12-17 09:18:26"
  },
  "authenticationType" : "OAUTH",
  "status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 134,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:25:15.245+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1818289583",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {

```

```

    "epochSecond" : 1765963514,
    "nanoOfSecond" : 681958904
  },
  "thread" : "ingress-h2c-epoll-2",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "PUT",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 127,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:25:14.681+0000",
  "processId" : "1",
  "ocLogId" : "1765963514679_127_cncc1-acore-ingress-gateway-596b995666-
pfgm5",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765963514,
    "nanoOfSecond" : 685468116
  },
  "thread" : "igw-app-thread1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "PUT",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "scheme" : "http",

```

```

"queryParams" : { },
"headers" : {
  "Origin" : "http://xx.xx.xx.xx:30175",
  "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
  "DNT" : "1",
  "Accept-Encoding" : "gzip, deflate",
  "Authorization" : "{masked}",
  "host" : "cncc1-acore-ingress-gateway:30165",
  "connection" : "close",
  "Content-Length" : "164",
  "oc-cncc-instance-id" : "Cluster1-scp-instance1",
  "Content-Type" : "application/json; charset=UTF-8",
  "Cookie" : "{masked}",
  "X-Requested-With" : "XMLHttpRequest",
  "Accept" : "*/*",
  "oc-cncc-id" : "Cluster1",
  "X-Forwarded-Proto" : "http",
  "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
  "uuidToken" : "d0373899-c133-407a-9821-0d538b873ec1",
  "svcName" : "xx.xx.xx.xx",
  "ocLogId" : "1765963514671_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
  "X-Forwarded-Port" : "30175",
  "sbi-timer-publish-headers" : "false",
  "Forwarded" :
"proto=http;host=\"xx.xx.xx.xx:30175\";for=\"xx.xx.xx.xx:23515\"",
  "X-Forwarded-For" : "xx.xx.xx.xx",
  "Accept-Language" : "en-GB,en;q=0.9",
  "sbi-timer-feature" : "false"
},
"payload" : {
  "configName" : "n5g-eir",
  "canaryData" : {
    "apiFullVersion" : "2.0.0",
    "canaryTraffic" : 7
  },
  "createdTimestamp" : "2025-12-17 09:18:08",
  "updatedTimestamp" : "2025-12-17 09:18:08"
},
"authenticationType" : "JWT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 129,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:25:14.685+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1655271529",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "1765963514671_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765963515,
    "nanoOfSecond" : 238643432
  },
  "thread" : "igw-app-thread2",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "PUT",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "scheme" : "http",
    "headers" : {
      "date" : "Wed, 17 Dec 2025 09:18:26 GMT",
      "content-length" : "164",
      "RequestMethod" : "PUT",
      "X-Content-Type-Options" : "nosniff",
      "Pragma" : "no-cache",
      "X-Frame-Options" : "SAMEORIGIN",
      "Referrer-Policy" : "no-referrer",
      "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
      "NettyLatency" : "1765963514679",
      "content-type" : "application/json",
      "Expires" : "0",
      "X-XSS-Protection" : "0"
    },
    "payload" : {
      "configName" : "n5g-eir",
      "canaryData" : {
        "apiFullVersion" : "2.0.0",
        "canaryTraffic" : 7
      },
      "createdTimestamp" : "2025-12-17 09:18:08",
      "updatedTimestamp" : "2025-12-17 09:18:26"
    },
    "authenticationType" : "JWT",
    "status" : "200 OK"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 130,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:25:15.238+0000",
  "processId" : "1",
  "pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
  "ocLogId" : "-",
  "instanceType" : "prod",

```

```
"xRequestId" : "-"
}
```

Operation Type: DELETE

M-CNCC Core Ingress Gateway Logs

Audit Log

```
{
  "instant" : {
    "epochSecond" : 1765963532,
    "nanoOfSecond" : 129931105
  },
  "thread" : "ingress-h2c-epoll-4",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "DELETE",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "authenticationType" : "OAUTH"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 120,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:25:32.129+0000",
  "processId" : "1",
  "ocLogId" : "1765963532128_120_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
  "instanceType" : "prod",
  "xRequestId" : "-"
}
```

SECURITY- Request Log

```
{
  "instant" : {
    "epochSecond" : 1765963532,
    "nanoOfSecond" : 132400465
  },
  "thread" : "igw-app-thread1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",

```

```

"type" : "REQUEST",
"operationType" : "DELETE",
"resourceType" : "SCP",
"cnccId" : "Cluster1",
"instanceId" : "Cluster1-scp-instance1",
"userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
"username" : "user",
"remoteAddress" : "xx.xx.xx.xx:23515",
"localAddress" : "xx.xx.xx.xx:8081",
"resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
"scheme" : "http",
"queryParams" : { },
"headers" : {
  "Origin" : "http://xx.xx.xx.xx:30175",
  "Cookie" : "{masked}",
  "X-Requested-With" : "XMLHttpRequest",
  "Accept" : "*/*",
  "oc-cncc-id" : "Cluster1",
  "Connection" : "keep-alive",
  "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
  "uuidToken" : "ac325f21-c11f-4ee7-b235-18242f308efe",
  "Host" : "10.121.27.39:30175",
  "DNT" : "1",
  "Accept-Encoding" : "gzip, deflate",
  "svcName" : "cncc1-acore-ingress-gateway",
  "ocLogId" : "1765963532128_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
  "sbi-timer-publish-headers" : "false",
  "Accept-Language" : "en-GB,en;q=0.9",
  "oc-cncc-instance-id" : "Cluster1-scp-instance1",
  "sbi-timer-feature" : "false"
},
"payload" : "Either the payload is empty or too large",
"authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 114,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:25:32.132+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-135976969",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "1765963532128_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765963532,

```

```

    "nanoOfSecond" : 647762398
  },
  "thread" : "igw-app-thread6",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "DELETE",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "scheme" : "http",
    "headers" : {
      "date" : "Wed, 17 Dec 2025 09:18:43 GMT",
      "X-Frame-Options" : "SAMEORIGIN",
      "Referrer-Policy" : "no-referrer",
      "transfer-encoding" : "chunked",
      "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
      "X-Content-Type-Options" : "nosniff",
      "RequestMethod" : "DELETE",
      "NettyLatency" : "1765963532128",
      "Pragma" : "no-cache",
      "Expires" : "0",
      "X-XSS-Protection" : "0"
    },
    "payload" : { },
    "authenticationType" : "OAUTH",
    "status" : "204 NO_CONTENT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 121,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:25:32.647+0000",
  "processId" : "1",
  "ingressTxId" : "ingress-tx-1958392965",
  "pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
  "ocLogId" : "-",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765963532,
    "nanoOfSecond" : 140064037
  },
  "thread" : "ingress-h2c-epoll-1",

```

```

"level" : "INFO",
"loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
"message" : {
  "logType" : "AUDIT",
  "type" : "ACCESS_RESOURCE",
  "operationType" : "DELETE",
  "resourceType" : "SCP",
  "cnccId" : "Cluster1",
  "instanceId" : "Cluster1-scp-instance1",
  "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
  "username" : "user",
  "remoteAddress" : "xx.xx.xx.xx:23515",
  "localAddress" : "xx.xx.xx.xx:30175",
  "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
  "authenticationType" : "JWT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 74,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:25:32.140+0000",
"processId" : "1",
"ocLogId" : "1765963532137_74_cncc1-acore-ingress-gateway-596b995666-pfgm5",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765963532,
    "nanoOfSecond" : 143395128
  },
  "thread" : "igw-app-thread7",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "DELETE",
    "resourceType" : "SCP",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-scp-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:23515",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",

```

```

    "Accept" : "*/*",
    "oc-cncc-id" : "Cluster1",
    "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
    "X-Forwarded-Proto" : "http",
    "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
    "uuidToken" : "5c9dad6a-5c56-44ac-a77c-8b85cf0258ef",
    "DNT" : "1",
    "Accept-Encoding" : "gzip, deflate",
    "svcName" : "xx.xx.xx.xx",
    "ocLogId" : "1765963532128_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
    "X-Forwarded-Port" : "30175",
    "sbi-timer-publish-headers" : "false",
    "Authorization" : "{masked}",
    "host" : "cncc1-acore-ingress-gateway:30165",
    "Forwarded" :
"proto=http;host=\"xx.xx.xx.xx:30175\";for=\"xx.xx.xx.xx:23515\"",
    "X-Forwarded-For" : "10.233.113.0",
    "connection" : "close",
    "Accept-Language" : "en-GB,en;q=0.9",
    "oc-cncc-instance-id" : "Cluster1-scp-instance1",
    "sbi-timer-feature" : "false"
  },
  "payload" : "Either the payload is empty or too large",
  "authenticationType" : "JWT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 141,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:25:32.143+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1710315333",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "1765963532128_120_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765963532,
    "nanoOfSecond" : 638326209
  },
  "thread" : "igw-app-thread8",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "DELETE",

```

```

"resourceType" : "SCP",
"cnccId" : "Cluster1",
"instanceId" : "Cluster1-scp-instance1",
"userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
"username" : "user",
"resourcePath" : "/ocscp/scpc-configuration/v1/canary-release/n5g-eir",
"scheme" : "http",
"headers" : {
  "date" : "Wed, 17 Dec 2025 09:18:43 GMT",
  "X-Frame-Options" : "SAMEORIGIN",
  "Referrer-Policy" : "no-referrer",
  "transfer-encoding" : "chunked",
  "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
  "RequestMethod" : "DELETE",
  "X-Content-Type-Options" : "nosniff",
  "NettyLatency" : "1765963532137",
  "Pragma" : "no-cache",
  "Expires" : "0",
  "X-XSS-Protection" : "0"
},
"payload" : { },
"authenticationType" : "JWT",
"status" : "204 NO_CONTENT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 142,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:25:32.638+0000",
"processId" : "1",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

B.1.4 UDR

This section provides the audit and security logs for UDR.

UDR → Global Configurations

Operation Type: GET

M-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765965145,
    "nanoOfSecond" : 502573345
  },
  "thread" : "ingress-h2c-epoll-1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",

```

```

"message" : {
  "logType" : "AUDIT",
  "type" : "ACCESS_RESOURCE",
  "operationType" : "GET",
  "resourceType" : "UDR",
  "cnccId" : "Cluster1",
  "instanceId" : "Cluster1-udr-instance1",
  "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
  "username" : "user",
  "remoteAddress" : "xx.xx.xx.xx:28263",
  "localAddress" : "xx.xx.xx.xx:8081",
  "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 75,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:52:25.502+0000",
"processId" : "1",
"ocLogId" : "1765965145501_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765965145,
    "nanoOfSecond" : 504270188
  },
  "thread" : "igw-app-thread9",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "GET",
    "resourceType" : "UDR",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-udr-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:28263",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "**/*",
      "oc-cncc-id" : "Cluster1",
      "Connection" : "keep-alive",

```

```

    "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
    "uuidToken" : "55c8a66a-3554-40e5-b87b-b0d6be8319b5",
    "Host" : "xx.xx.xx.xx:30175",
    "DNT" : "1",
    "Accept-Encoding" : "gzip, deflate",
    "svcName" : "cncc1-acore-ingress-gateway",
    "ocLogId" : "1765965145501_75_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
    "sbi-timer-publish-headers" : "false",
    "Accept-Language" : "en-GB,en;q=0.9",
    "oc-cncc-instance-id" : "Cluster1-udr-instance1",
    "sbi-timer-feature" : "false",
    "Content-Type" : "application/json; charset=utf-8"
  },
  "payload" : "Either the payload is empty or too large",
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 124,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:52:25.504+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-974262557",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "1765965145501_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765965145,
    "nanoOfSecond" : 530366671
  },
  "thread" : "igw-app-thread12",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "GET",
    "resourceType" : "UDR",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-udr-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
    "scheme" : "http",
    "headers" : {
      "date" : "Wed, 17 Dec 2025 09:52:25 GMT",
      "X-Frame-Options" : "SAMEORIGIN",

```

```

    "Referrer-Policy" : "no-referrer",
    "content-length" : "776",
    "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
    "X-Content-Type-Options" : "nosniff",
    "content-type" : "application/json",
    "Pragma" : "no-cache",
    "Expires" : "0",
    "X-XSS-Protection" : "0",
    "ocLogId" : "1765965145501_75_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc"
  },
  "payload" : {
    "keyRange" : "000000-000000",
    "autoCreate" : true,
    "vsaDefaultBillingDay" : 1,
    "imeisvLookupFallback" : false,
    "accessLogEnabled" : true,
    "keyType" : "msisdn",
    "addDefaultBillingDay" : true,
    "snssai" : "2-FFFFFF",
    "dnn" : "dnn1",
    "maxNumberOfSubscriptions" : 30,
    "enableControlledShutdown" : true,
    "version" : "v3",
    "defaultResponse" : "EQUIPMENT_UNKNOWN",
    "defaultResponseIMEINotFound" : "EQUIPMENT_UNKNOWN",
    "dbConflictResolutionEnabled" : false,
    "imsiLookupFallbackEnabled" : false,
    "configClientConnectTimeout" : 1000,
    "autoEnrolOnSignalling" : true,
    "sbiCorrelationInfoEnable" : false,
    "subscriberActivityEnabled" : false,
    "consumerNF" : "PCF,UDM,NEF",
    "etagEnabled" : true,
    "suppressNotificationEnabled" : true,
    "configClientReadTimeout" : 1000,
    "subscriberIdentifiers" : {
      "nai" : [ ],
      "imsi" : [ ],
      "extid" : [ ],
      "msisdn" : [ ]
    },
    "s13InterfaceEnabled" : false
  },
  "authenticationType" : "OAUTH",
  "status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 127,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:52:25.530+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-109098772",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "-",

```

```

    "instanceType" : "prod",
    "xRequestId" : "-"
  }

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765965145,
    "nanoOfSecond" : 511080949
  },
  "thread" : "ingress-h2c-epoll-1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "GET",
    "resourceType" : "UDR",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-udr-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:28263",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 74,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:52:25.511+0000",
  "processId" : "1",
  "ocLogId" : "1765965145509_74_cncc1-acore-ingress-gateway-596b995666-pfgm5",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765965145,
    "nanoOfSecond" : 513178170
  },
  "thread" : "igw-app-thread20",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "GET",

```

```

"resourceType" : "UDR",
"cnccId" : "Cluster1",
"instanceId" : "Cluster1-udr-instance1",
"userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
"username" : "user",
"remoteAddress" : "xx.xx.xx.xx:28263",
"localAddress" : "xx.xx.xx.xx:30175",
"resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
"scheme" : "http",
"queryParams" : { },
"headers" : {
  "Cookie" : "{masked}",
  "X-Requested-With" : "XMLHttpRequest",
  "Accept" : "*/*",
  "oc-cncc-id" : "Cluster1",
  "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
  "X-Forwarded-Proto" : "http",
  "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
  "uuidToken" : "0a7b22c4-0d76-4478-b769-511eb7b1b34b",
  "DNT" : "1",
  "Accept-Encoding" : "gzip, deflate",
  "svcName" : "xx.xx.xx.xx",
  "ocLogId" : "1765965145501_75_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
  "X-Forwarded-Port" : "30175",
  "sbi-timer-publish-headers" : "false",
  "Authorization" : "{masked}",
  "host" : "cncc1-acore-ingress-gateway:30165",
  "Forwarded" :
"proto=http;host=\"xx.xx.xx.xx:30175\";for=\"xx.xx.xx.xx:28263\"",
  "X-Forwarded-For" : "xx.xx.xx.xx",
  "connection" : "close",
  "Accept-Language" : "en-GB,en;q=0.9",
  "oc-cncc-instance-id" : "Cluster1-udr-instance1",
  "sbi-timer-feature" : "false",
  "Content-Type" : "application/json; charset=utf-8"
},
"payload" : "Either the payload is empty or too large",
"authenticationType" : "JWT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 259,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:52:25.513+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-801593043",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "1765965145501_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765965145,
    "nanoOfSecond" : 526829934
  },
  "thread" : "igw-app-thread18",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "RESPONSE",
    "operationType" : "GET",
    "resourceType" : "UDR",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-udr-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
    "scheme" : "http",
    "headers" : {
      "date" : "Wed, 17 Dec 2025 09:52:25 GMT",
      "content-length" : "776",
      "RequestMethod" : "GET",
      "X-Content-Type-Options" : "nosniff",
      "Pragma" : "no-cache",
      "ocLogId" : "1765965145501_75_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
      "X-Frame-Options" : "SAMEORIGIN",
      "Referrer-Policy" : "no-referrer",
      "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
      "NettyLatency" : "1765965145509",
      "content-type" : "application/json",
      "Expires" : "0",
      "X-XSS-Protection" : "0"
    },
  },
  "payload" : {
    "keyRange" : "000000-000000",
    "autoCreate" : true,
    "vsaDefaultBillingDay" : 1,
    "imeisvLookupFallback" : false,
    "accessLogEnabled" : true,
    "keyType" : "msisdn",
    "addDefaultBillingDay" : true,
    "snssai" : "2-FFFFFF",
    "dnn" : "dnn1",
    "maxNumberOfSubscriptions" : 30,
    "enableControlledShutdown" : true,
    "version" : "v3",
    "defaultResponse" : "EQUIPMENT_UNKNOWN",
    "defaultResponseIMEINotFound" : "EQUIPMENT_UNKNOWN",
    "dbConflictResolutionEnabled" : false,
    "imsiLookupFallbackEnabled" : false,
    "configClientConnectTimeout" : 1000,
  }
}

```

```

    "autoEnrolOnSignalling" : true,
    "sbiCorrelationInfoEnable" : false,
    "subscriberActivityEnabled" : false,
    "consumerNF" : "PCF,UDM,NEF",
    "etagEnabled" : true,
    "suppressNotificationEnabled" : true,
    "configClientReadTimeout" : 1000,
    "subscriberIdentifiers" : {
      "nai" : [ ],
      "imsi" : [ ],
      "extid" : [ ],
      "msisdn" : [ ]
    },
    "s13InterfaceEnabled" : false
  },
  "authenticationType" : "JWT",
  "status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 255,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:52:25.526+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-1203422991",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

Operation Type: UPDATE

M-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765965151,
    "nanoOfSecond" : 801506840
  },
  "thread" : "ingress-h2c-epoll-1",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "PUT",
    "resourceType" : "UDR",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-udr-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:28263",
    "localAddress" : "xx.xx.xx.xx:8081",
  }
}

```

```

    "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
    "authenticationType" : "OAUTH"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 75,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:52:31.801+0000",
  "processId" : "1",
  "ocLogId" : "1765965151800_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
  "instanceType" : "prod",
  "xRequestId" : "-"
}

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765965151,
    "nanoOfSecond" : 803544540
  },
  "thread" : "igw-app-thread13",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "PUT",
    "resourceType" : "UDR",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-udr-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:28263",
    "localAddress" : "xx.xx.xx.xx:8081",
    "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "*/*",
      "oc-cncc-id" : "Cluster1",
      "Connection" : "keep-alive",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "uuidToken" : "4de6felf-fc64-4e8d-85e5-aefc94dd8456",
      "Host" : "xx.xx.xx.xx:30175",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "svcName" : "cncc1-acore-ingress-gateway",
      "ocLogId" : "1765965151800_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
      "sbi-timer-publish-headers" : "false",

```

```

    "Accept-Language" : "en-GB,en;q=0.9",
    "Content-Length" : "630",
    "oc-cncc-instance-id" : "Cluster1-udr-instance1",
    "sbi-timer-feature" : "false",
    "Content-Type" : "application/json; charset=UTF-8"
  },
  "payload" : {
    "snssai" : "2-FFFFFF",
    "dnn" : "dnn1",
    "consumerNF" : "PCF,UDM,NEF",
    "autoCreate" : true,
    "sbiCorrelationInfoEnable" : false,
    "vsaDefaultBillingDay" : 2,
    "subscriberActivityEnabled" : false,
    "addDefaultBillingDay" : true,
    "autoEnrolOnSignalling" : true,
    "etagEnabled" : true,
    "enableControlledShutdown" : true,
    "keyType" : "msisdn",
    "keyRange" : "000000-000000",
    "suppressNotificationEnabled" : true,
    "subscriberIdentifiers" : {
      "nai" : [ ],
      "imsi" : [ ],
      "extid" : [ ],
      "msisdn" : [ ]
    },
    "accessLogEnabled" : true,
    "defaultResponse" : "EQUIPMENT_UNKNOWN",
    "defaultResponseIMEINotFound" : "EQUIPMENT_UNKNOWN",
    "imsiLookupFallbackEnabled" : false,
    "imeisvLookupFallback" : false,
    "s13InterfaceEnabled" : false
  },
  "authenticationType" : "OAUTH"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 128,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:52:31.803+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-971631868",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "1765965151800_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765965151,
    "nanoOfSecond" : 988288488
  }
}

```

```

},
"thread" : "igw-app-thread5",
"level" : "INFO",
"loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
"message" : {
  "logType" : "SECURITY",
  "type" : "RESPONSE",
  "operationType" : "PUT",
  "resourceType" : "UDR",
  "cnccId" : "Cluster1",
  "instanceId" : "Cluster1-udr-instance1",
  "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
  "username" : "user",
  "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
  "scheme" : "http",
  "headers" : {
    "date" : "Wed, 17 Dec 2025 09:52:31 GMT",
    "content-length" : "776",
    "X-Content-Type-Options" : "nosniff",
    "RequestMethod" : "PUT",
    "Pragma" : "no-cache",
    "ocLogId" : "1765965151800_75_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
    "X-Frame-Options" : "SAMEORIGIN",
    "Referrer-Policy" : "no-referrer",
    "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
    "NettyLatency" : "1765965151800",
    "content-type" : "application/json",
    "Expires" : "0",
    "X-XSS-Protection" : "0"
  },
},
"payload" : {
  "keyRange" : "000000-000000",
  "autoCreate" : true,
  "vsaDefaultBillingDay" : 2,
  "imeisvLookupFallback" : false,
  "accessLogEnabled" : true,
  "keyType" : "msisdn",
  "addDefaultBillingDay" : true,
  "snssai" : "2-FFFFFF",
  "dnn" : "dnn1",
  "maxNumberOfSubscriptions" : 30,
  "enableControlledShutdown" : true,
  "version" : "v3",
  "defaultResponse" : "EQUIPMENT_UNKNOWN",
  "defaultResponseIMEINotFound" : "EQUIPMENT_UNKNOWN",
  "dbConflictResolutionEnabled" : false,
  "imsiLookupFallbackEnabled" : false,
  "configClientConnectTimeout" : 1000,
  "autoEnrolOnSignalling" : true,
  "sbiCorrelationInfoEnable" : false,
  "subscriberActivityEnabled" : false,
  "consumerNF" : "PCF,UDM,NEF",
  "etagEnabled" : true,
  "suppressNotificationEnabled" : true,
  "configClientReadTimeout" : 1000,
}

```

```

    "subscriberIdentifiers" : {
      "imsi" : [ ],
      "extid" : [ ],
      "msisdn" : [ ],
      "nai" : [ ]
    },
    "s13InterfaceEnabled" : false
  },
  "authenticationType" : "OAUTH",
  "status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 118,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:52:31.988+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-365717781",
"pod" : "cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

A-CNCC Core Ingress Gateway Logs

Audit Log

```

{
  "instant" : {
    "epochSecond" : 1765965151,
    "nanoOfSecond" : 808910568
  },
  "thread" : "ingress-h2c-epoll-2",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.config.CnccAuthorizationUtil",
  "message" : {
    "logType" : "AUDIT",
    "type" : "ACCESS_RESOURCE",
    "operationType" : "PUT",
    "resourceType" : "UDR",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-udr-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:28263",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
    "authenticationType" : "JWT"
  },
  "endOfBatch" : false,
  "loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
  "threadId" : 127,
  "threadPriority" : 5,
  "messageTimestamp" : "2025-12-17T09:52:31.808+0000",
  "processId" : "1",

```

```

    "ocLogId" : "1765965151807_127_cncc1-acore-ingress-gateway-596b995666-
pfgm5",
    "instanceType" : "prod",
    "xRequestId" : "-"
  }

```

SECURITY- Request Log

```

{
  "instant" : {
    "epochSecond" : 1765965151,
    "nanoOfSecond" : 811635220
  },
  "thread" : "igw-app-thread19",
  "level" : "INFO",
  "loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
  "message" : {
    "logType" : "SECURITY",
    "type" : "REQUEST",
    "operationType" : "PUT",
    "resourceType" : "UDR",
    "cnccId" : "Cluster1",
    "instanceId" : "Cluster1-udr-instance1",
    "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
    "username" : "user",
    "remoteAddress" : "xx.xx.xx.xx:28263",
    "localAddress" : "xx.xx.xx.xx:30175",
    "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
    "scheme" : "http",
    "queryParams" : { },
    "headers" : {
      "Origin" : "http://xx.xx.xx.xx:30175",
      "User-Agent" : "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36",
      "DNT" : "1",
      "Accept-Encoding" : "gzip, deflate",
      "Authorization" : "{masked}",
      "host" : "cncc1-acore-ingress-gateway:30165",
      "connection" : "close",
      "Content-Length" : "630",
      "oc-cncc-instance-id" : "Cluster1-udr-instance1",
      "Content-Type" : "application/json; charset=UTF-8",
      "Cookie" : "{masked}",
      "X-Requested-With" : "XMLHttpRequest",
      "Accept" : "*/*",
      "oc-cncc-id" : "Cluster1",
      "X-Forwarded-Proto" : "http",
      "X-Forwarded-Host" : "xx.xx.xx.xx:30175",
      "uuidToken" : "ce18ad7a-73fb-4f9d-8f8f-5b2d32ed7c72",
      "svcName" : "xx.xx.xx.xx",
      "ocLogId" : "1765965151800_75_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
      "X-Forwarded-Port" : "30175",
      "sbi-timer-publish-headers" : "false",
      "Forwarded" :

```

```

"proto=http;host=\"xx.xx.xx.xx:30175\";for=\"xx.xx.xx.xx:28263\"",
  "X-Forwarded-For" : "10.233.126.0",
  "Accept-Language" : "en-GB,en;q=0.9",
  "sbi-timer-feature" : "false"
},
"payload" : {
  "snssai" : "2-FFFFFF",
  "dnn" : "dnnl",
  "consumerNF" : "PCF,UDM,NEF",
  "autoCreate" : true,
  "sbiCorrelationInfoEnable" : false,
  "vsaDefaultBillingDay" : 2,
  "subscriberActivityEnabled" : false,
  "addDefaultBillingDay" : true,
  "autoEnrolOnSignalling" : true,
  "etagEnabled" : true,
  "enableControlledShutdown" : true,
  "keyType" : "msisdn",
  "keyRange" : "000000-000000",
  "suppressNotificationEnabled" : true,
  "subscriberIdentifiers" : {
    "nai" : [ ],
    "imsi" : [ ],
    "extid" : [ ],
    "msisdn" : [ ]
  },
  "accessLogEnabled" : true,
  "defaultResponse" : "EQUIPMENT_UNKNOWN",
  "defaultResponseIMEINotFound" : "EQUIPMENT_UNKNOWN",
  "imsiLookupFallbackEnabled" : false,
  "imeisvLookupFallback" : false,
  "s13InterfaceEnabled" : false
},
"authenticationType" : "JWT"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 258,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:52:31.811+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-403541012",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "1765965151800_75_cncc1-mcore-ingress-gateway-7f76dc699d-c75fc",
"instanceType" : "prod",
"xRequestId" : "-"
}

```

SECURITY- Response Log

```

{
  "instant" : {
    "epochSecond" : 1765965151,
    "nanoOfSecond" : 981510328
  },
}

```

```

"thread" : "igw-app-thread3",
"level" : "INFO",
"loggerName" : "ocpm.cne.gateway.cncc.filters.CnccLoggingFilter",
"message" : {
  "logType" : "SECURITY",
  "type" : "RESPONSE",
  "operationType" : "PUT",
  "resourceType" : "UDR",
  "cnccId" : "Cluster1",
  "instanceId" : "Cluster1-udr-instance1",
  "userId" : "2ff48402-bd03-4404-a3a9-f679d4d560f8",
  "username" : "user",
  "resourcePath" : "/nudr-config/v1/udr.global.cfg/GLOBAL",
  "scheme" : "http",
  "headers" : {
    "date" : "Wed, 17 Dec 2025 09:52:31 GMT",
    "content-length" : "776",
    "RequestMethod" : "PUT",
    "X-Content-Type-Options" : "nosniff",
    "Pragma" : "no-cache",
    "ocLogId" : "1765965151800_75_cncc1-mcore-ingress-gateway-7f76dc699d-
c75fc",
    "X-Frame-Options" : "SAMEORIGIN",
    "Referrer-Policy" : "no-referrer",
    "Cache-Control" : "no-cache, no-store, max-age=0, must-revalidate",
    "NettyLatency" : "1765965151807",
    "content-type" : "application/json",
    "Expires" : "0",
    "X-XSS-Protection" : "0"
  },
  "payload" : {
    "keyRange" : "000000-000000",
    "autoCreate" : true,
    "vsaDefaultBillingDay" : 2,
    "imeisvLookupFallback" : false,
    "accessLogEnabled" : true,
    "keyType" : "msisdn",
    "addDefaultBillingDay" : true,
    "snssai" : "2-FFFFFF",
    "dnn" : "dnn1",
    "maxNumberOfSubscriptions" : 30,
    "enableControlledShutdown" : true,
    "version" : "v3",
    "defaultResponse" : "EQUIPMENT_UNKNOWN",
    "defaultResponseIMEINotFound" : "EQUIPMENT_UNKNOWN",
    "dbConflictResolutionEnabled" : false,
    "imsiLookupFallbackEnabled" : false,
    "configClientConnectTimeout" : 1000,
    "autoEnrolOnSignalling" : true,
    "sbiCorrelationInfoEnable" : false,
    "subscriberActivityEnabled" : false,
    "consumerNF" : "PCF,UDM,NEF",
    "etagEnabled" : true,
    "suppressNotificationEnabled" : true,
    "configClientReadTimeout" : 1000,
    "subscriberIdentifiers" : {

```

```
        "imsi" : [ ],
        "extid" : [ ],
        "msisdn" : [ ],
        "nai" : [ ]
    },
    "s13InterfaceEnabled" : false
},
"authenticationType" : "JWT",
"status" : "200 OK"
},
"endOfBatch" : false,
"loggerFqcn" : "org.apache.logging.log4j.internal.DefaultLogBuilder",
"threadId" : 133,
"threadPriority" : 5,
"messageTimestamp" : "2025-12-17T09:52:31.981+0000",
"processId" : "1",
"ingressTxId" : "ingress-tx-416170541",
"pod" : "cncc1-acore-ingress-gateway-596b995666-pfgm5",
"ocLogId" : "-",
"instanceType" : "prod",
"xRequestId" : "-"
}
```