

Oracle® Communications

Cloud Native Configuration Console REST Specifications Guide



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Preface

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Documentation Accessibility

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Conventions

The following text conventions are used in this document:

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

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
CAPIF	Common API Framework
cnDBTier	Oracle Communications Cloud Native Core, cnDBTier
CNC Console	Oracle Communications Cloud Native Configuration Console
CNE	Oracle Communications Cloud Native Core, Cloud Native Environment
CNI	Container Network Interface
CNLB	Cloud Native Load Balancer
CS	Common Service
CRUD Operations	CREATE, READ, UPDATE, DELETE
ECDSA	Elliptic Curve Digital Signature Algorithm
EIR	Equipment Identity Register
HTTPS	Hypertext Transfer Protocol Secure
GRR	Geo Replication Recovery
IAM	Identity Access Management
Instance	NF or CNE common service managed by either M-CNCC Core or A-CNCC Core.
KPI	Key Performance Indicator
LDAP	Lightweight Directory Access Protocol
LDAPS	Lightweight Directory Access Protocol (Over SSL)
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 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.

Table (Cont.) Acronyms

Acronym	Description
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 Kubernetes cluster	Kubernetes cluster hosting M-CNCC
MC	Multi Cluster. In multi cluster, a single CNCC can manage NF instances that access different Kubernetes clusters.
MO	Managed Objects
MOS	My Oracle Support
mTLS	Mutual Transport Layer Security
NEF	Oracle Communications Cloud Native Core, Network Exposure Function
NRF	Oracle Communications Cloud Native Core, Network Repository Function
OCI	Oracle Cloud Infrastructure
OCNADD	Oracle Communications Network Analytics Data Director
OCNWDAF	Oracle Communications Networks Data Analytics Function
OCNF	Oracle Communications Network Function
OSDC	Oracle Software Delivery Cloud
OSO	Oracle Communications Operations Services Overlay
PROVGW	Provisioning Gateway
REST API	Representational State Transfer Application Programming Interface
RBAC	Role Based Access Control
SAML	Security Assertion Markup Language
SBA	Service Based Architecture
SBI	Service Based Interface
SCP	Oracle Communications Cloud Native Core, Service Communication Proxy
SEPP	Oracle Communications Cloud Native Core, Security Edge Protection Proxy
Site	Kubernetes Cluster
SSO	Single Sign On
TLS	Transport Layer Security
UDR	Oracle Communications Cloud Native Core, Unified Data Repository
UE	User Equipment
URI	Subscriber Location Function

What's New in This Guide

This section introduces the documentation updates for release 25.1.2xx.

Release 25.1.201 - G32153-02, October 2025

No updates have been made in this release.

Release 25.1.200 - G32153-01, July 2025

No updates have been made in this release.

1

Introduction

This document provides information about how to configure the services and manageable objects in Oracle Communication Cloud Native Configuration Console using Representational State Transfer Application Program Interfaces (REST APIs).

1.1 Overview

The Cloud Native Configuration Console (CNC Console) is a single screen solution to configure and manage Network Functions (NFs).

The CNC Console has the following modules:

- **CNC Console Core (CNCC Core):** CNCC Core acts as Graphical User Interface (GUI) or Application Programming Interface (API) portal for NFs and Oracle Communications Cloud Native Environment (OCCNE) common services. CNCC Core module is the part of CNC Console that integrates with other cloud native core network functions.
- **CNC Console Identity and Access Management (CNCC IAM):** CNCC IAM acts as local identity provider and as a broker for external identity provider. CNCC IAM module includes the required authentication and authorization procedures such as creating and assigning roles to users.

Oracle Cloud Infrastructure (OCI)

Oracle Cloud Infrastructure (OCI) is a set of complementary cloud services that enable you to build and run a range of applications and services in a highly available hosted environment. OCI provides high-performance compute capabilities (as physical hardware instances) and storage capacity in a flexible overlay virtual network that is securely accessible from your on-premises network.

OCI provides a single point platform for all Oracle products. Thus, deploying the CNC NFs on the OCI allows operational efficiency. In addition to this, the OCI also provides reduced Total Cost of Ownership (TCO), better performance, resource utilization, and persistence.

For more information, see [Oracle Cloud Infrastructure Documentation](#) and *Oracle Communications Cloud Native Core OCI Adaptor, NF Deployment on OCI Guide*.

Note

CNC Console IAM is not applicable for OCI deployment

1.2 Reference

Refer to the following documents for more information:

- *Oracle Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*
- *Oracle Communications Cloud Native Configuration Console User Guide*

- *Oracle Communications Cloud Native Configuration Console Network Impact Report*
- *Oracle Communications Cloud Native Configuration Console Troubleshooting Guide*

2

REST Specifications for Non OCI Deployment

This chapter provides information about REST specifications used in Oracle Communications Cloud Native Configuration Console.

For HELM configurations, see *Oracle Communications Cloud Native Configuration Console Installation, Upgrade, and Fault Recovery Guide*.

For the configurations using CNC Console, see *Oracle Communications Cloud Native Configuration Console User Guide*.

2.1 Generate access token

CNC Console uses Generate access token REST API to generate the access token.

Type: POST

URI:

POST `/api/v1/{realm}/protocol/openid-connect/token`

Table 2-1 Request Body Parameters

Field Name	Data Type	Mandatory(M) Optional(O) Conditional(C)	Description
client_id	string	M	Id that has been given to the client
username	string	M	Login Username
password	string	M	Login Password
grant_type	string	M	Type of Authorization used

Sample URI:

`http://{{cncc-iam-ingress-extrenal-ip}}:{{cncc-iam-ingress-service-port}}/cncc/auth/realms/master/protocol/openid-connect/token`

Example curl command:

```
curl --location --request POST 'http://{{cncc-iam-ingress-extrenal-ip}}:{{cncc-iam-ingress-service-port}}/cncc/auth/realms/master/protocol/openid-connect/token' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--data-urlencode 'client_id=admin-cli' \
--data-urlencode 'username=admin' \
--data-urlencode 'password=xxxxxx' \
--data-urlencode 'grant_type=password'
```

Example of the Request Body

The following is the example of the request body:

```
{
  "client_id": "admin-cli",
  "username": "admin",
  "password": "xxxxxx",
  "grant_type": "password",
}
```

Example of the Response Body

The following is the example of the response body:

```
{  
    "access_token": "eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkfag",  
    "expires_in": 60,  
    "refresh_expires_in": 1800,  
    "refresh_token": "eyJhbGciOiJIUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIClIxM",  
    "not-before-policy": 0,  
    "session_state": "52dd8d7c-f8d9-4009-9c34-0262bb7d3722",  
    "scope": "email profile"  
}
```

Table 2-2 Supported Response Codes

Code	Description
200 OK	Get users. Returns a list of users.
401 Unauthorised	Missing Authentication
404 Not Found	Realm not found

2.2 Create a new user

CNC Console uses Create a new user REST API to create a new user. The user name must be unique.

Type: POST

URI:

POST /{realm}/users

Table 2-3 Request Body Parameters

Field Name	Data Type	Mandatory(M) Optional(O) Conditional(C)	Description
enabled	boolean	M	Set to true to enable the user , an disabled user can not login

Table 2-3 (Cont.) Request Body Parameters

Field Name	Data Type	Mandatory(M) / Optional(O) Conditional(C)	Description
username	string	M	Name of the new user

Sample URI:

```
http://${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/  
admin/auth/admin/realms/cncc/users
```

Example curl command:

```
{curl --location --request POST 'http://${cncc-iam-ingress-extrenal-ip}:$  
{cncc-iam-ingress-service-port}/cncc/admin/auth/admin/realms/cncc/users' \  
--header 'Authorization: Bearer <token>' \  
--header 'Content-Type: application/json' \  
--data-raw '{  "enabled": true,  
  "username": "user6"}'
```

Example of the Request Body

The following is the example of the request body:

```
{  "enabled": true,  
  "username": "user6"}
```

Example of the Response Code

The following is the example of the response code:

201 Created

Table 2-4 Supported Response Codes

Code	Description
201 Created	Create a new user.Username must beunique. {Requirespayload}
401 Unauthorised	MissingAuthentication
404 Not Found	Realm not found
409 Conflict	User exists withsame username

2.3 Get users

CNC Console uses Get users REST API to return a list of users.

Type: GET

URI:

GET /{realm}/users

Sample URI:

http://{cncc-iam-ingress-extrenal-ip}:{cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/users

Example curl command:

```
curl --location --request GET 'http://{cncc-iam-ingress-extrenal-ip}:{cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/users' \
--header 'Authorization: Bearer <token>'
```

Example of the Response Body

The following is the example of the response body:

```
[
  {
    "id": "48cf183c-d3e4-4917-b3e5-5e01109f534c",
    "createdTimestamp": 1659952887114,
    "username": "user",
    "enabled": true,
    "emailVerified": false,
    "access": {
      "manageGroupMembership": true,
      "view": true,
      "mapRoles": true,
      "impersonate": true,
      "manage": true
    }
  },
  .....
]
```

Table 2-5 Supported Response Codes

Code	Description
200 OK	Get users. Returns alist of users, filtered according to query parameters.
401 Unauthorised	Missing Authentication
404 Not Found	Realm not found

2.4 Get single user

CNC Console uses Get single user REST API to get individual user details.

Type: GET

URI:

GET `/api/realms/{realm}/users/{id}`

Table 2-6 Request Path Parameter

Field Name	Data Type	Mandatory(M) Optional(O) Conditional(C)	Description
id	string	M	Id of the user

Sample URI:

```
http://10.75.241.198:30085/cncc/auth/admin/realms/cncc/users/2a3113c0-48de-46d9-a563-6ce95eabbae4
```

Example curl command:

```
curl --location --request GET 'http://10.75.241.198:30085/cncc/auth/admin/realms/cncc/users/754d6f6b-4ccb-44f1-abf1-00d717885dbe' \
--header 'Authorization: Bearer <token>'
```

Example of the Response Body

The following is the example of the response body:

```
{
  "id": "754d6f6b-4ccb-44f1-abf1-00d717885dbe",
  "createdTimestamp": 1661232491550,
  "username": "u1",
  "enabled": true,
  "totp": false,
  "emailVerified": false,
  "disableableCredentialTypes": [],
  "requiredActions": [],
  "notBefore": 0,
  "access": {
    "manageGroupMembership": true,
    "view": true,
    "mapRoles": true,
    "impersonate": true,
    "manage": true
  }
}
```

Table 2-7 Supported Response Codes

Code	Description
200 OK	Get users. Returns a list of users, filtered according to queryparameters.
401 Unauthorised	Missing Authentication
404 Not Found	Realm not found
404 Not Found	User not found

2.5 Delete the User

CNC Console uses Delete the User REST API to delete the user.

Type: DELETE

URI:

DELETE /{realm}/users/{id}

Table 2-8 Request Path Parameters

Field Name	Data Type	Mandatory(M) / Optional(O) Conditional(C)	Description
id	string	M	Id of the user

Sample URI:

```
http://${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/users/2a3113c0-48de-46d9-a563-6ce95eabbae4
```

Example curl command:

```
curl --location --request DELETE 'http://${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/users/7a2d3608-95b2-4a88-8efb-dad48e7778e2' \--header 'Authorization: Bearer <token>'
```

Example of the Response Code

The following is the example of the response code:

204 No Content

Table 2-9 Supported Response Codes

Code	Description
204 No Content	Delete the user.
401 Unauthorised	Missing Authentication
404 Not Found	Realm not found
404 Not Found	User not found

2.6 Set up a New Password for the User

CNC Console uses Setup a New Password for the User REST API to set up a new password for the user.

Type: PUT

URI:

PUT `/{{realm}}/users/{{id}}/reset-password`

Table 2-10 Request Body Parameters

Field Name	Data Type	Mandatory(M) / Optional(O) Conditional(C)	Description
type	string	M	Type
value	Integer	M	Value of new password
temporary	Boolean	O	To validate temporary or not

Table 2-11 Request Path Parameter

Field Name	Data Type	Mandatory(M) / Optional(O) Conditional(C)	Description
id	string	M	Id of the user

Sample URI:

```
http://{{cncc-iam-ingress-extrenal-ip}}:{{cncc-iam-ingress-service-port}}/cncc/auth/admin/realms/cncc/users/2a3113c0-48de-46d9-a563-6ce95eabbae4/reset-password
```

Example curl command:

```
curl --location --request PUT 'http://{{cncc-iam-ingress-extrenal-ip}}:{{cncc-iam-ingress-service-port}}/cncc/auth/admin/realms/cncc/users/
```

```
754d6f6b-4ccb-44f1-abf1-00d717885dbe/reset-password' \
--header 'Authorization: Bearer <token>' \
--header 'Content-Type: application/json' \
--data-raw '{ "type":"password", "value":"<Password
Values>", "temporary":false}'
```

Example of the Request Body

The following is the example of the request body:

```
{
  "type":"password",
  "value":"<Password Value>",
  "temporary":false
}
```

Example of the Response Code

The following is the example of the response code:

204 No Content

Table 2-12 Supported Response Codes

Code	Description
204 No Content	Set up a new password for the CNCC user {Requires payload}.
401 Unauthorised	Missing Authentication
404 Not Found	Realm not found
404 Not Found	User not found
400 Bad Request	Invalid password

2.7 Reset the Temporary Password for a User

CNC Console uses Reset the Temporary Password for a User REST API to reset the temporary password for a user.

Type: PUT

URI:

PUT /{realm}/users/{id}/reset-password

Table 2-13 Request Body Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
Type	String	M	Type
Value	String	M	Value of new password
Temporary	String	O	permanency

Table 2-14 Request Path Parameters

Field Name	Data Type	Mandatory(M)/ Optional(O)/ Conditional(C)	Description
ID	String	M	ID of the user

Sample URI:

```
http://${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/  
auth/admin/realms/cncc/users/2a3113c0-48de-46d9-a563-6ce95eabbae4/reset-  
password
```

Example curl command:

```
curl --location --request PUT 'http://${cncc-iam-ingress-extrenal-ip}:${cncc-  
iam-ingress-service-port}/cncc/auth/admin/realms/cncc/users/  
754d6f6b-4ccb-44f1-abf1-00d717885dbe/reset-password' \  
--header 'Authorization: Bearer <token>' \  
--header 'Content-Type: application/json' \  
--data-raw '{ "type": "password", "value": "<Password  
Values>", "temporary": false}'
```

Example of the Request Body

The following is the example of the request body:

```
{"value": "User123456!", "temporary": "false"}
```

Example of the Response Code

204 No Content

Table 2-15 Supported Response Codes

Code	Description
204 No Content	Reset the temporary password for the CNCC user (Requires payload).
401 Unauthorised	Missing Authentication
404 Not Found	Realm not found

Table 2-15 (Cont.) Supported Response Codes

Code	Description
404 Not Found	User not found
400 Bad Request	Invalid password

2.8 Get Realm Level Roles

CNC Console uses Get Realm-level Roles REST API to get realm-level roles.

Type: GET

URI:

GET `/{{realm}}/roles`

Sample URI:

`http://{{cncc-iam-ingress-extrenal-ip}}:{{cncc-iam-ingress-service-port}}/cncc/auth/admin/realms/cncc/roles`

Example curl command:

```
curl --location --request GET 'http://{{cncc-iam-ingress-extrenal-ip}}:{{cncc-iam-ingress-service-port}}/cncc/auth/admin/realms/cncc/roles' \
--header 'Authorization: Bearer <token>'
```

Example of the Response Body

The following is the example of the response body:

```
[
  {
    "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"
  },
  {
    "id": "1acd6c4a-115a-44ae-bf5f-139577f9df0a",
    "name": "POLICY_WRITE",
    "description": "Has access to only POLICY resources and can perform
CRUD operation on Managed Objects of POLICY.",
    "composite": true,
    "clientRole": false,
    "containerId": "cncc"
  },
]
```

...]

Table 2-16 Supported Response Codes

Code	Description
200 OK	Generate Get Realm Level Roles

2.9 Get Realm-level Role Mappings

CNC Console uses Get Realm-level Role Mappings REST API to get realm-level role mappings for a specific user id .

Type: GET

URI:

GET `/ {realm}/users/{id}/role-mappings/realm`

Table 2-17 Request Path Parameters

Field Name	Data Type	Mandatory(M) / Optional(O) Conditional(C)	Description
id	string	M	ID assigned to the user

Sample URI:

`http:// ${cncc-iam-ingress-extrenal-ip}: ${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/users`

Example curl command:

```
curl --location --request GET 'http:// ${cncc-iam-ingress-extrenal-ip}: ${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/roles' \
--header 'Authorization: Bearer <token>'
```

Example of the Response Body

The following example shows the contents of the response body in JSON format:

```
[
  {
    "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"
```

```

    },
    {
      "id": "1acd6c4a-115a-44ae-bf5f-139577f9df0a",
      "name": "POLICY_WRITE",
      "description": "Has access to only POLICY resources and can perform
      CRUD operation on Managed Objects of POLICY.",
      "composite": true,
      "clientRole": false,
      "containerId": "cncc"
    },
    ...]

```

Table 2-18 Supported Response Codes

Code	Description
200 OK	Get realm-level role mappings for a specific user id.
401 Unauthorised	Missing Authentication
404 Not Found	Realm not found
404 Not Found	User not found

2.10 Add Realm-level Role Mappings to the User

CNC Console uses Add Realm-level Role Mappings to the User REST API to add realm-level role mappings to the user.

Type:POST

URI:

POST/{realm}/users/{id}/rolemappings/realm

Table 2-19 Request Body Parameters

Field Name	Data Type	Mandatory(M) / Optional(O) Conditional(C)	Description
description	string	M	Description of the role
name	string	M	Name of the role
composite	boolean	M	To check if the role has another realm role mapped to it
clientRole	boolean	M	To check if the role has another client role mapped to it
containerId	string	M	ID of the container where the role is present
id	string	M	ID assigned to the role

Table 2-20 Request Path Parameter

Field Name	Data Type	Mandatory(M) / Optional(O) Conditional(C)	Description
id	string	M	Id of the user

Sample URI:

```
http://${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/users/754d6f6b-4ccb-44f1-abf1-00d717885dbe/role-mappings/realm
```

Example curl command:

```
curl --location --request POST 'http://${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/users/754d6f6b-4ccb-44f1-abf1-00d717885dbe/role-mappings/realm' \
--header 'Authorization: Bearer <token>' \
--header 'Content-Type: application/json' \
--data-raw '[
{
  "id": "c47ba6c5-4cc8-4b59-96bd-2ef7e57121bd",
  "name": "BSF_READ",
  "description": "Has access to only BSF resources and can only perform READ Managed Objects of BSF.",
  "composite": true,
  "clientRole": false,
  "containerId": "cncc"
}]'
```

Example of the Request Body

The following is the example of the request body:

```
[
{
  "id": "c47ba6c5-4cc8-4b59-96bd-2ef7e57121bd",
  "name": "BSF_READ",
  "description": "Has access to only BSF resources and can only perform READ Managed Objects of BSF.",
  "composite": true,
  "clientRole": false,
  "containerId": "cncc"
}]
```

Example of the Response Code

The following is the example of the response code:

204 No Content

Table 2-21 Supported Response Codes

Code	Description
204 No Content	Set up a newpassword for the CNCC user {Requires payload}.
401 Unauthorised	Missing Authentication
404 Not Found	Realm not found
404 Not Found	User not found
404 Not Found	Role not found

2.11 Remove All User Sessions Associated with the User

CNC Console uses Remove All User Sessions Associated with the User REST API to remove all user sessions associated with the user.

Type:POST

URI:

POST /{realm}/users/{id}/logout

Table 2-22 Request Path Parameter

Field Name	Data Type	Mandatory(M) Optional(O) Conditional(C)	Description
id	string	M	Id of the user

Sample URI:

http://{cncc-iam-ingress-extrenal-ip}:{cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/users/48cf183c-d3e4-4917-b3e5-5e01109f534c/logout

Example curl command:

```
curl --location --request POST '${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/users/48cf183c-d3e4-4917-b3e5-5e01109f534c/logout' \
--header 'Authorization: Bearer <token>'
```

Example of the Response Code

The following is the example of the response code:

204 No Content

Table 2-23 Supported Response Codes

Code	Description
204 No Content	Remove all user sessions associated with the user
401 Unauthorised	Missing Authentication
404 Not Found	Realm not found
404 Not Found	User not found

2.12 Get the Client details

CNC Console uses Get the Client details REST API to get clients belonging to the realm.

Type: GET

URI:

GET/{realm}/clients

Sample URI:

```
http://${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/clients
```

Example curl command:

```
curl --location --request GET '${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/clients' \--header 'Authorization: Bearer <token>'
```

Example of the Response Body

The following example shows the contents of the response body in JSON format:

```
[
  {
    "id": "b7fa17bd-135f-441b-a5f2-1ea4897e04fc",
    "clientId": "account",
    "name": "${client_account}",
    "rootUrl": "${authBaseUrl}",
    "baseUrl": "/realms/cncc/account/",
    "surrogateAuthRequired": false,
    "enabled": true,
    "alwaysDisplayInConsole": false,
    "clientAuthenticatorType": "client-secret",
    "redirectUris": [
      "/realms/cncc/account/"
    ],
    "webOrigins": [],
    "notBefore": 0,
    "bearerOnly": false,
    "consentRequired": false,
    "standardFlowEnabled": true,
```

```

    "implicitFlowEnabled": false,
    "directAccessGrantsEnabled": false,
    "serviceAccountsEnabled": false,
    "publicClient": false,
    "frontchannelLogout": false,
    "protocol": "openid-connect",
    "attributes": {},
    "authenticationFlowBindingOverrides": {},
    "fullScopeAllowed": false,
    "nodeReRegistrationTimeout": 0,
    "defaultClientScopes": [
        "web-origins",
        "roles",
        "profile",
        "email"
    ],
    "optionalClientScopes": [
        "address",
        "phone",
        "offline_access",
        "microprofile-jwt"
    ],
    "access": {
        "view": true,
        "configure": true,
        "manage": true
    }
},

```

2.13 Update the Client

CNC Console uses Update the Client REST API to update the client. This API can be used to update the redirect URI.

Type: PUT

URI:

PUT/{realm}/clients/{id}

Table 2-24 Request Body Parameters

Field Name	Data Type	Mandatory(M) / Optional(O) Conditional(C)	Description
clientId	string	M	ID given to the client which is referenced in URIs and tokens
rootUri	string	M	Url for redirection

Table 2-25 Request Path Parameter

Field Name	Data Type	Mandatory(M) Optional(O) Conditional(C)	Description
id	string	M	ID of the client

Sample URI:

```
http://${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/clients/9faaa454-bbaf-4af0-91dd-2d01aa82776d
```

Example curl command:

```
curl --location --request PUT 'http://${cncc-iam-ingress-extrenal-ip}:${cncc-iam-ingress-service-port}/cncc/auth/admin/realms/cncc/clients/9faaa454-bbaf-4af0-91dd-2d01aa82776d' \
--header 'Authorization: Bearer <token>' \
--header 'Content-Type: application/json' \
--data-raw '{
  "clientId": "cncc", "rootUrl": "http://10.75.241.74:8080/"
}'
```

Example of the Request Body

The following is the example of the request body:

```
{
  "clientId": "cncc",
  "rootUrl": "http://10.75.241.74:8080/"
}
```

Example of the Response Code

The following is the example of the response code:

204 No Content

Table 2-26 Supported Response Codes

Code	Description
204 No Content	Update the client.This API can beused to update Redirect URI {Requires payload}.
401 Unauthorised	Missing Authentication
404 Not Found	Realm not found
404 Not Found	Could not find the client

3

REST Specification for OCI Deployment

This section provides information about REST specifications used in Oracle Communications Cloud Native Configuration Console while deployed in Oracle Cloud Infrastructure (OCI).

3.1 Generate Access Token

CNC Console uses Generate access token REST API to generate the access token.

Type: POST

URI:

/oauth2/v1/token

Sample URI:

https://<oci-iam-domain-url>/v1/token

Example curl command:

```
curl --location 'https://<oci-iam-domain-url>/oauth2/v1/token' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--header 'Authorization: Basic <Base64 encoding of client credentials in the
format "clientId:clientSceret">' \
--data-urlencode 'grant_type=password' \
--data-urlencode 'username=testuser' \
--data-urlencode 'password=*****' \
--data-urlencode 'scope=urn:opc:idm:__myscopes__ offline_access' -s
```

Example of the Response Body

The following is the example of the response body:

```
200 OK
{
  "access_token":
  "eyJhbGciOiJSUzI1NiIsI....._LcCZYwDQJTTloj2PJ8y1Wj09l2Q",
  "token_type": "Bearer",
  "expires_in": 3600
}
```

3.2 Create a New User

CNC Console uses Create a new user REST API to create a new user.

Type: POST

URI:

/admin/v1/Users

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Users

Example curl command:

```
curl --location 'https://<oci-iam-domain-url>/admin/v1/Users' \
--header 'Authorization: Bearer eyJhbGciOiJSUzI1NiIsI....._LcCZYwDQJJTloj2PJ8y1Wj09l2Q' \
--header 'Content-Type: application/json' \
--data-raw '{
  "schemas": [
    "urn:ietf:params:scim:schemas:core:2.0:User"
  ],
  "name": {
    "givenName": "user",
    "familyName": "test"
  },
  "userName": "user@oracle.com",
  "emails": [
    {
      "value": "user@oracle.com",
      "type": "work",
      "primary": true
    }
  ]
}'
```

Example of the Response Body

The following is the example of the response body:

```
201 OK
{
  "idcsCreatedBy": {
    "type": "User",
    "display": "Test User",
    "value": "5427ea861e2c479895b8375b19c6827a",
    "ocid":
      "ocid1.user.oc1..aaaaaaaaxszu5pi3iudjfa2tkkz3onobfnk3ctuqqyg3zsa7gx4sohikrboq"
  },
  "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/5427ea861e2c479895b8375b19c6827a",
  "id": "de18f42c3eeb474d98853574b1927200",
  "urn:ietf:params:scim:schemas:oracle:idcs:extension:user:User": {
    "isFederatedUser": false,
    "preferredUiLandingPage": "MyApps"
  },
}
```

```

    "meta": {
      "created": "2024-01-23T11:01:02.009Z",
      "lastModified": "2024-01-23T11:01:02.009Z",
      "version": "7842e880cafc44d49f30cda44436cfc2",
      "resourceType": "User",
      "location": "https://<oci-iam-domain-url>:443/admin/v1/Users/
de18f42c3eeb474d98853574b1927200"
    },
    "active": true,
    "displayName": "user121 dummy",
    "idcsLastModifiedBy": {
      "value": "5427ea861e2c479895b8375b19c6827a",
      "display": "Test User",
      "ocid":
"ocid1.user.oc1..aaaaaaaaxszu5pi3iudjfa2tkkz3onobfnk3ctuqqyg3zsa7gx4sohikrboq"
    },
    "type": "User",
    "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
5427ea861e2c479895b8375b19c6827a"
  },
  "name": {
    "givenName": "user121",
    "familyName": "dummy",
    "formatted": "user121 dummy"
  },
  "urn:ietf:params:scim:schemas:oracle:idcs:extension:userState:User": {
    "locked": {
      "on": false
    }
  },
  "ocid": "ocid1.user.oc1...gwvwq",
  "userName": "user121",
  "schemas": [
    "urn:ietf:params:scim:schemas:core:2.0:User",
    "urn:ietf:params:scim:schemas:oracle:idcs:extension:userState:User",
    "urn:ietf:params:scim:schemas:oracle:idcs:extension:user:User"
  ],
  "domainOcid": "ocid1.domain.oc1...j6kgka",
  "compartmentOcid": "ocid1.tenancy.oc1...pojwe4wx34a",
  "tenancyOcid": "ocid1.tenancy.oc1...wx34a",
  "urn:ietf:params:scim:schemas:oracle:idcs:extension:capabilities:User": {
    "canUseApiKeys": true,
    "canUseAuthTokens": true,
    "canUseConsolePassword": true,
    "canUseCustomerSecretKeys": true,
    "canUseOAuth2ClientCredentials": true,
    "canUseSmtptCredentials": true,
    "canUseDbCredentials": true
  }
}

```

3.3 Get All User

CNC Console uses Get all user REST API to get all users.

Type: GET

URI:

/admin/v1/Users

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Users

Example curl command:

```
curl --location 'https://<oci-iam-domain-url>/admin/v1/Users' \
--header 'Authorization: Bearer
'eyJhbGciOiJIUzI1NiIsI....._LcCZYwDQJJTloj2PJ8y1Wj09l2Q'
```

Example of the Response Body

The following is the example of the response body:

```
201 OK
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 36,
  "Resources": [
    {
      "urn:ietf:params:scim:schemas:oracle:ids:extension:user:User": {
        "isFederatedUser": false,
        "preferredUiLandingPage": "MyApps"
      },
      "idsCreatedBy": {
        "type": "App",
        "display": "idsjob",
        "value": "4ed77d9256654268aa286ec1a959dbe2",
        "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/4ed77d9256654268aa286ec1a959dbe2"
      },
      "id": "a07ebe1f5b5543608803561b97265fcd",
      "meta": {
        "created": "2024-01-18T05:39:01.978Z",
        "lastModified": "2024-01-18T05:39:01.978Z",
        "version": "186f6d8f4364492ab5c79659d2c33263",
        "resourceType": "User",
        "location": "https://<oci-iam-domain-url>:443/admin/v1/Users/a07ebe1f5b5543608803561b97265fcd"
      },
      "active": true,
      "displayName": "CSV User7",
      "idsLastModifiedBy": {
        "value": "4ed77d9256654268aa286ec1a959dbe2",
        "display": "idsjob",
        "type": "App",
        "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/"
      }
    }
  ]
}
```

```

4ed77d9256654268aa286ec1a959dbe2"
    },
    "name": {
      "givenName": "CSV",
      "familyName": "User7",
      "formatted": "CSV User7"
    },
    "urn:ietf:params:scim:schemas:oracle:ids:extension:userState:User": {
      "locked": {
        "on": false
      }
    },
    "ocid":
"ocid1.user.oc1..aaaaaaaarql7rbnj4s7ayjiykve7ozjoxf7kp7dub7gpwu6vpc13ysm4he4ha"
,
    "userName": "CSV7",
    "schemas": [
      "urn:ietf:params:scim:schemas:core:2.0:User",
      "urn:ietf:params:scim:schemas:oracle:ids:extension:userState:User",
      "urn:ietf:params:scim:schemas:oracle:ids:extension:user:User"
    ],
    "domainOcid":
"ocid1.domain.oc1..aaaaaaaatzwhla6vhqwnvj6eiaoks7wqe2sxxwzls6zljr3ttcs5mj6kgk
a",
    "compartmentOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
    "tenancyOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
    "urn:ietf:params:scim:schemas:oracle:ids:extension:capabilities:User": {
      "canUseApiKeys": true,
      "canUseAuthTokens": true,
      "canUseConsolePassword": true,
      "canUseCustomerSecretKeys": true,
      "canUseOAuth2ClientCredentials": true,
      "canUseSmtptCredentials": true,
      "canUseDbCredentials": true
    }
  },
  .
  .
  .
}

```

3.4 Get Specific User

CNC Console uses Get all user REST API to get a specific user.

Type: GET

URI:

/admin/v1/Users/{{userid}}

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Users/{{userid}}

Sample user format:

```
{
  "id": 12...x3,
  ...
  "ocid": "ocid1...op",
  "userName": "testuser"
}
```

For {{userid}} field, "id" as well as "ocid" can be used.

Example curl command:

```
curl --location 'https://<oci-iam-domain-url>/admin/v1/Users/
ocid1.user.oc1...jrdq' \
--header 'Authorization: Bearer
eyJhbGciOiJSUzI1NiIsI....._LcCZYWDQJTTloj2PJ8y1Wj09l2Q'
```

Example of the Response Body

The following is the example of the response body:

```
200 OK{
  "idcsCreatedBy": {
    "type": "User",
    "display": "User1",
    "value": "411bdad4c26044aaa8c8cab88da48e86",
    "ocid":
"ocid1.user.oc1..aaaaaaa6woa5vcnxt5mcxeffx5isaat77tqdnj62iulxxeiycwu4w7aq"
  },
  "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
411bdad4c26044aaa8c8cab88da48e86"
},
  "id": "30857d89710942e2b5bd67e37d7c0c15",
  "urn:ietf:params:scim:schemas:oracle:idcs:extension:user:User": {
    "isFederatedUser": false
  },
  "meta": {
    "created": "2023-12-15T10:09:05.487Z",
    "lastModified": "2024-01-11T07:11:23.485Z",
    "version": "75a47233965648079c0b09aadb1c4d64",
    "resourceType": "User",
    "location": "https://<oci-iam-domain-url>:443/admin/v1/Users/
ocid1.user.oc1..aaaaaaaafnvamuekbzxjzyg3fd2b203eimcw3hncypjnfudiyflfid3jrdq"
  },
}
```

```

    "active": true,
    "displayName": "Karan Gupta",
    "urn:ietf:params:scim:schemas:oracle:idcs:extension:mfa:User": {
      "preferredDevice": {
        "value": "620a0cde1f6e42f38fca609a6097fbfe",
        "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Devices/620a0cde1f6e42f38fca609a6097fbfe"
      },
      "loginAttempts": 0,
      "mfaStatus": "ENROLLED",
      "preferredAuthenticationFactor": "PUSH"
    },
    "idcsLastModifiedBy": {
      "value": "af2d1df6c13f493b9f3131baae2e8638",
      "display": "idcssso",
      "ocid": "ocid1.domainapp.oc1.iad.amaaaaaasvq5r3yarymeans3hx2mz34nkypz3pan477oeiithvx3ax34asaa",
      "type": "App",
      "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/af2d1df6c13f493b9f3131baae2e8638"
    },
    "name": {
      "givenName": "Karan",
      "familyName": "Gupta",
      "formatted": "Karan Gupta"
    },
    "urn:ietf:params:scim:schemas:oracle:idcs:extension:userState:User": {
      "locked": {
        "on": false
      }
    },
    "ocid": "ocid1.user.oc1..aaaaaaaafnvamuekbzxjzyg3fd2b2o3eimcw3hnyccypjnfudiyflfid3jrdq"
  },
  "userName": "karan",
  "urn:ietf:params:scim:schemas:oracle:idcs:extension:OCITags": {
    "definedTags": [
      {
        "value": "corp/karan.k.gupta@oracle.com",
        "key": "CreatedBy",
        "namespace": "Oracle-Tags"
      },
      {
        "value": "2023-12-15T10:09:05.454Z",
        "key": "CreatedOn",
        "namespace": "Oracle-Tags"
      }
    ]
  },
  "emails": [
    {
      "secondary": false,
      "verified": true,
      "type": "recovery",
      "primary": false,

```

```

        "value": "karan.k.gupta@oracle.com"
      },
      {
        "secondary": false,
        "verified": true,
        "type": "work",
        "primary": true,
        "value": "karan.k.gupta@oracle.com"
      }
    ],
    "schemas": [
      "urn:ietf:params:scim:schemas:core:2.0:User",
      "urn:ietf:params:scim:schemas:oracle:ids:extension:userState:User",
      "urn:ietf:params:scim:schemas:oracle:ids:extension:OCITags",
      "urn:ietf:params:scim:schemas:oracle:ids:extension:mfa:User",
      "urn:ietf:params:scim:schemas:oracle:ids:extension:user:User"
    ],
    "domainOcid":
      "ocid1.domain.oc1..aaaaaaaatzwhla6vhqwnvj6eiaoksjqwe2sxxwzls6zljr3ttcs5mj6kkgk
      a",
    "compartmentOcid":
      "ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
      4a",
    "tenancyOcid":
      "ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
      4a",
    "urn:ietf:params:scim:schemas:oracle:ids:extension:capabilities:User": {
      "canUseApiKeys": true,
      "canUseAuthTokens": true,
      "canUseConsolePassword": true,
      "canUseCustomerSecretKeys": true,
      "canUseOAuth2ClientCredentials": true,
      "canUseSmtptCredentials": true,
      "canUseDbCredentials": true
    }
  }
}

```

3.5 Delete User

CNC Console uses Delete User REST API to delete user.

Type: DELETE

URI:

/admin/v1/Users/{userid}

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Users/{userid}

Sample user format:

```
{
  "id": 12...x3,
  ...
  "ocid": "ocid1...op",
  "userName": "testuser"
  .
  .
  .
}
```

For {{userid}} field, "id" as well as "ocid" can be used.

Example curl command:

```
curl --location --request DELETE 'https://<oci-iam-domain-url>/admin/v1/Users/
ocid1.user.oc1...fs6tq' \
--header 'Authorization: Bearer
eyJhbGciOiJSUzI1NiIsI....._LcCZYWDQJJTloj2PJ8y1Wj09l2Q' \
--header 'Content-Type: application/json'
```

Example of the Response Body

The following is the example of the response body:

204 No Content

3.6 Set up a New Password for the User

CNC Console uses Set up a New Password for the User REST API to set up a new password for the user.

Type: GET

URI:

/admin/v1/UserPasswordChanger/{{userid}}

Sample URI:

https://<oci-iam-domain-url>/admin/v1/UserPasswordChanger/{{userid}}

Sample user format:

```
{
  "id": 12...x3,
  ...
  "ocid": "ocid1...op",
  "userName": "testuser"
  .
  .
  .
}
```

```
.
}
```

For {{userid}} field, "id" as well as "ocid" can be used.

Example curl command:

```
curl --location --request PUT 'https://<oci-iam-domain-url>/admin/v1/
UserPasswordChanger/ocid1.user.oc1...vpcta' \
--header 'Authorization: Bearer
eyJhbGciOiJSUzI1NiIsI....._LcCZYwDQJJTloj2PJ8y1Wj09l2Q' \
--header 'Content-Type: application/json' \
--data-raw '{
  "password": "Welcome@123Bro",
  "schemas": [
    "urn:ietf:params:scim:schemas:oracle:ids:UserPasswordChanger"
  ]
}'
```

Example of the Response Body

The following is the example of the response body:

```
200 OK
{
  "schemas": [
    "urn:ietf:params:scim:schemas:oracle:ids:UserPasswordChanger"
  ],
  "id": "023aa77a7ccd419db579dc6707c43e03",
  "meta": {
    "resourceType": "UserPasswordChanger",
    "location": "https://<oci-iam-domain-url>:443/admin/v1/
UserPasswordChanger/
ocid1.user.oc1..aaaaaaa7hz5lh4a64aekqndcvolrhscj25udrz7gux44k17pckdlgvpcta"
  },
  "domainOcid":
"ocid1.domain.oc1..aaaaaaaatzwh1a6vhqwnvj6eiaoksjwtqe2sxxwzls6zljr3ttcs5mj6kgk
a",
  "compartmentOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
  "tenancyOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
  "ocid":
"ocid1.user.oc1..aaaaaaa7hz5lh4a64aekqndcvolrhscj25udrz7gux44k17pckdlgvpcta"
}

400 Bad Request
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:Error",
    "urn:ietf:params:scim:api:oracle:ids:extension:messages:Error"
  ],
```

```

    "detail": "The password does not meet the criteria of the password policy
because: [The password must have at least 12 characters.]",
    "status": "400",
    "urn:ietf:params:scim:api:oracle:ids:extension:messages:Error": {
      "messageId": "error.identity.passwordmgmt.pwdpolicyViolation"
    }
  }
}

```

3.7 Get all groups of the domain

CNC Console uses Get all groups of the domain REST API to get all groups of the domain.

Type: GET

URI:

/admin/v1/Groups

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Groups

Example curl command:

```

curl --location 'https://<oci-iam-domain-url>/admin/v1/Groups' \
--header 'Authorization: Bearer
eyJhbGciOiJSUzI1NiIsI....._LcCZYWDQJJTloj2PJ8y1Wj09l2Q'

```

Example of the Response Body

The following is the example of the response body:

```

200 OK
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 58,
  "Resources": [
    {
      "displayName": "SCP_WRITE",
      "idcsLastModifiedBy": {
        "type": "User",
        "value": "fc0f9952563e4b4399f4869fc066673d",
        "display": "User1",
        "ocid":
"ocid1.user.oc1..aaaaaaa7ieth5a2q72o52uu56cx3xwigqldjpn dp63zt7jo4a7hhhcnyvpq"
      },
      "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
fc0f9952563e4b4399f4869fc066673d"
    },
    "idcsCreatedBy": {

```

```

        "type": "User",
        "ocid":
"ocid1.user.oc1..aaaaaaa7ieth5a2q72o52uu56cx3xwigqlldjpndp63zt7jo4a7hhhcnyvpq"
,
        "display": "User1",
        "value": "fc0f9952563e4b4399f4869fc066673d",
        "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
fc0f9952563e4b4399f4869fc066673d"
    },
    "urn:ietf:params:scim:schemas:oracle:ids:extension:group:Group": {
        "description": "Read and Write access to SCP Resource"
    },
    "meta": {
        "version": "418190f8f2c64e4fa380f5d2673b9f37",
        "created": "2023-11-14T09:05:39.001Z",
        "lastModified": "2023-11-21T03:53:00.352Z",
        "resourceType": "Group",
        "location": "https://<oci-iam-domain-url>:443/admin/v1/Groups/
d29818fc6a1d4be9883699766a8f026c"
    },
    "id": "d29818fc6a1d4be9883699766a8f026c",
    "ocid":
"ocid1.group.oc1..aaaaaaaahwdyfqqvz42tszory5nkz4kuha6iuwah26j4pgtuyhic3gssq2jq
",
    "urn:ietf:params:scim:schemas:oracle:ids:extension:OCITags": {
        "definedTags": [
            {
                "key": "CreatedBy",
                "namespace": "Oracle-Tags",
                "value": "corp/shreyas.b@oracle.com"
            },
            {
                "key": "CreatedOn",
                "namespace": "Oracle-Tags",
                "value": "2023-11-14T09:05:38.977Z"
            }
        ]
    },
    "schemas": [
        "urn:ietf:params:scim:schemas:core:2.0:Group",
        "urn:ietf:params:scim:schemas:oracle:ids:extension:OCITags",

        "urn:ietf:params:scim:schemas:oracle:ids:extension:group:Group"
    ],
    "domainOcid":
"ocid1.domain.oc1..aaaaaaaatzwhla6vhqwnvj6eiaoksjwqe2sxxwzls6zljr3ttcs5mj6kgk
a",
    "compartmentOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
    "tenancyOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",

    "urn:ietf:params:scim:schemas:oracle:ids:extension:dynamic:Group": {
        "membershipType": "static"
    }

```

```

    }
  },
  {
    "displayName": "SCP_WRITE",
    "idcsLastModifiedBy": {
      "type": "User",
      "value": "5427ea861e2c479895b8375b19c6827a",
      "display": "Test User",
      "ocid":
"ocid1.user.oc1..aaaaaaaaxszu5pi3iudjfa2tkkz3onobfnk3ctuqqyg3zsa7gx4sohikrboq"
    },
    "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
5427ea861e2c479895b8375b19c6827a"
  },
  "idcsCreatedBy": {
    "type": "User",
    "ocid":
"ocid1.user.oc1..aaaaaaaaxszu5pi3iudjfa2tkkz3onobfnk3ctuqqyg3zsa7gx4sohikrboq"
  },
  "display": "Test User",
  "value": "5427ea861e2c479895b8375b19c6827a",
  "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
5427ea861e2c479895b8375b19c6827a"
},
"urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group": {
  "description": "Example Description"
},
"meta": {
  "version": "1d57c48a69c1485cbfa732d0f6c6d5b5",
  "created": "2024-01-16T05:58:21.652Z",
  "lastModified": "2024-01-16T05:58:21.652Z",
  "resourceType": "Group",
  "location": "https://<oci-iam-domain-url>:443/admin/v1/Groups/
0a71625b839a41d4a70814bd336e9580"
},
"id": "0a71625b839a41d4a70814bd336e9580",
"ocid":
"ocid1.group.oc1..aaaaaaaazu4nl2jls15iavvnvjszbwrldmyqn4fo5n7hbyng6mooaamsjynfq"
",
  "externalId": "123456",
  "schemas": [
    "urn:ietf:params:scim:schemas:core:2.0:Group",

    "urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group"
  ],
  "domainOcid":
"ocid1.domain.oc1..aaaaaaaatzwhla6vhqwnvj6eiaoksjwqe2sxxwzls6zljr3ttcs5mj6kgk
a",
  "compartmentOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngieby6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
  "tenancyOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngieby6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",

  "urn:ietf:params:scim:schemas:oracle:idcs:extension:dynamic:Group": {

```

```

        "membershipType": "static"
      },
    ],
  },
}

400 Bad Request
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:Error",
    "urn:ietf:params:scim:api:oracle:ids:extension:messages:Error"
  ],
  "detail": "The password does not meet the criteria of the password policy
because: [The password must have at least 12 characters.]",
  "status": "400",
  "urn:ietf:params:scim:api:oracle:ids:extension:messages:Error": {
    "messageId": "error.identity.passwordmgmt.pwdpolicyViolation"
  }
}

```

3.8 Get all groups of a specific user

CNC Console uses Get all groups of a specific user REST API to get all groups of a specific user.

Type: GET

URI:

/admin/v1/Groups?filter=members[type eq "User" and value eq "{{userid}}"]

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Groups?filter=members[type eq "User" and value eq "{{userid}}"]

Sample user format:

```

{
  "id": 12...x3,
  ...
  "ocid": "ocid1...op",
  "userName": "testuser"
  .
  .
  .
}

```

For {{userid}} field, "id" as well as "ocid" can be used.

Example curl command:

Replace <USER-ID> with required user's id .

```
curl --location --globoff 'https://<oci-iam-domain-url>/admin/v1/Groups?
filter=members[type%20eq%20%22User%22%20and%20value%20eq%20%22<USER-ID>%22]'
\--header 'Authorization: Bearer
eyJhbGciOiJSUzI1NiIsI....._LcCZYwDQJJTloj2PJ8y1Wj09l2Q'
```

Example of the Response Body

The following is the example of the response body:

```
200 OK{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 3,
  "Resources": [
    {
      "displayName": "Domain Administrators",
      "idcsLastModifiedBy": {
        "type": "App",
        "value": "6923eddd11d1457084f550273b51027a",
        "display": "idcssm",
        "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/
6923eddd11d1457084f550273b51027a"
      },
      "idcsCreatedBy": {
        "type": "App",
        "display": "idcssm",
        "value": "6923eddd11d1457084f550273b51027a",
        "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/
6923eddd11d1457084f550273b51027a"
      },
      "urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group":
    {
      "description": "Domain Administrators"
    },
    "meta": {
      "version": "a9d7f9a9e7114c2994fe729f0506739a",
      "created": "2023-10-06T05:23:58.569Z",
      "lastModified": "2023-10-06T05:23:58.569Z",
      "resourceType": "Group",
      "location": "https://<oci-iam-domain-url>:443/admin/v1/Groups/
2c715a2f00b44e3fab0dced1c5798d84"
    },
    "id": "2c715a2f00b44e3fab0dced1c5798d84",
    "ocid":
"ocid1.group.oc1..aaaaaaaenl5su2ejqkzonymjdcrtt52nvgfk53zgggjp2vfja5lya742dqnq
",
    "schemas": [
      "urn:ietf:params:scim:schemas:core:2.0:Group",
      "urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group"
```

```

        ],
        "domainOcid":
"ocid1.domain.oc1..aaaaaaaatzwhla6vhqwnvj6eiaoksjwtq2sxxwzls6zljr3ttcs5mj6kgk
a",
        "compartmentOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
        "tenancyOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
        "urn:ietf:params:scim:schemas:oracle:ids:extension:dynamic:Group": {
            "membershipType": "static"
        }
    },
    {
        "displayName": "SCP_READ",
        "idsLastModifiedBy": {
            "type": "App",
            "value": "4ed77d9256654268aa286ec1a959dbe2",
            "display": "idsjob",
            "ocid":
"ocid1.user.oc1..aaaaaaa7ieth5a2q72o52uu56cx3xwigqljdpndp63zt7jo4a7hhhcnyvpq"
        },
        "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/
4ed77d9256654268aa286ec1a959dbe2"
    },
    {
        "idsCreatedBy": {
            "type": "User",
            "ocid":
"ocid1.user.oc1..aaaaaaa7ieth5a2q72o52uu56cx3xwigqljdpndp63zt7jo4a7hhhcnyvpq"
        },
        "display": "Shreyas Rao B",
        "value": "fc0f9952563e4b4399f4869fc066673d",
        "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
fc0f9952563e4b4399f4869fc066673d"
    },
    {
        "urn:ietf:params:scim:schemas:oracle:ids:extension:group:Group":
    {
        "description": "Has access to only SCP resources and can only
perform READ Managed Objects of SCP."
    },
    {
        "meta": {
            "version": "8a1f0617369a444da296ef6ce2b73a9e",
            "created": "2023-11-14T09:05:28.413Z",
            "lastModified": "2024-01-25T03:56:30.173Z",
            "resourceType": "Group",
            "location": "https://<oci-iam-domain-url>:443/admin/v1/Groups/
5d315d352e8c4af38e590b71ed6d2699"
        },
        "id": "5d315d352e8c4af38e590b71ed6d2699",
        "ocid":
"ocid1.group.oc1..aaaaaaaava7e65qhum3tatqzzk43tqyb5f7txwb56ukbhtlxf5neb54yy4oq
",
        "urn:ietf:params:scim:schemas:oracle:ids:extension:OCITags": {
            "definedTags": [

```

```

        {
            "key": "CreatedBy",
            "namespace": "Oracle-Tags",
            "value": "corp/shreyas.b@oracle.com"
        },
        {
            "key": "CreatedOn",
            "namespace": "Oracle-Tags",
            "value": "2023-11-14T09:05:28.391Z"
        }
    ],
    },
    "schemas": [
        "urn:ietf:params:scim:schemas:core:2.0:Group",
        "urn:ietf:params:scim:schemas:oracle:ids:extension:OCITags",
        "urn:ietf:params:scim:schemas:oracle:ids:extension:group:Group"
    ],
    "domainOcid":
    "ocid1.domain.oc1..aaaaaaaatzwhla6vhqwnvj6eiaoksjqwe2sxxwzls6zljr3ttcs5mj6kgk
a",
    "compartmentOcid":
    "ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
    "tenancyOcid":
    "ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
    "urn:ietf:params:scim:schemas:oracle:ids:extension:dynamic:Group": {
        "membershipType": "static"
    }
    },
    {
        "displayName": "SCP_WRITE",
        "idsLastModifiedBy": {
            "type": "App",
            "value": "4ed77d9256654268aa286ec1a959dbe2",
            "display": "idcsjob",
            "ocid":
            "ocid1.user.oc1..aaaaaaa7ieth5a2q72o52uu56cx3xwigqljdpndp63zt7jo4a7hhhcnyvpq"
            ,
            "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/
4ed77d9256654268aa286ec1a959dbe2"
        },
        "idsCreatedBy": {
            "type": "User",
            "ocid":
            "ocid1.user.oc1..aaaaaaa7ieth5a2q72o52uu56cx3xwigqljdpndp63zt7jo4a7hhhcnyvpq"
            ,
            "display": "Shreyas Rao B",
            "value": "fc0f9952563e4b4399f4869fc066673d",
            "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
fc0f9952563e4b4399f4869fc066673d"
        },
        "urn:ietf:params:scim:schemas:oracle:ids:extension:group:Group":
    {

```

```

        "description": "Has access to only SCP resources and can
perform CRUD operations on Managed Objects."
    },
    "meta": {
        "version": "f4fcceb2a4014355a0a099ea22f0f2da",
        "created": "2023-11-14T09:05:39.001Z",
        "lastModified": "2024-01-25T03:56:30.043Z",
        "resourceType": "Group",
        "location": "https://<oci-iam-domain-url>:443/admin/v1/Groups/
d29818fc6a1d4be9883699766a8f026c"
    },
    "id": "d29818fc6a1d4be9883699766a8f026c",
    "ocid":
"ocid1.group.oc1..aaaaaaaahwdyfqkvz42tszory5nkz4kuha6iuwah26j4pgtuyhic3gssq2jq
",
    "urn:ietf:params:scim:schemas:oracle:ids:extension:OCITags": {
        "definedTags": [
            {
                "key": "CreatedBy",
                "namespace": "Oracle-Tags",
                "value": "corp/shreyas.b@oracle.com"
            },
            {
                "key": "CreatedOn",
                "namespace": "Oracle-Tags",
                "value": "2023-11-14T09:05:38.977Z"
            }
        ]
    },
    "schemas": [
        "urn:ietf:params:scim:schemas:core:2.0:Group",
        "urn:ietf:params:scim:schemas:oracle:ids:extension:OCITags",

        "urn:ietf:params:scim:schemas:oracle:ids:extension:group:Group"
    ],
    "domainOcid":
"ocid1.domain.oc1..aaaaaaaatzwhla6vhqwnvj6eiaoksjwqe2sxxwzls6zljr3ttcs5mj6kgk
a",
    "compartmentOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
    "tenancyOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
    "urn:ietf:params:scim:schemas:oracle:ids:extension:dynamic:Group": {
        "membershipType": "static"
    }
},
"startIndex": 1,
"itemsPerPage": 50
}

```

3.9 Create a group

CNC Console uses Create a group REST API to create a group.

Type: POST

URI:

/admin/v1/Groups

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Groups

Sample user format:

```
{
  "id": 12...x3,
  ...
  "ocid": "ocid1...op",
  "userName": "testuser"
}
```

For {{userid}} field, "id" as well as "ocid" can be used.

Example curl command:

```
curl --location --globoff 'https://<oci-iam-domain-url>/admin/v1/Groups?
filter=members[type%20eq%20%22User%22%20and%20value%20eq%20%22ocid1.user.oc1..
.q%22]' \
--header 'Authorization: Bearer
eyJhbGciOiJSUzI1NiIsI....._LcCZYwDQJJTloj2PJ8y1Wj09l2Q'
```

Example of the Response Body

The following is the example of the response body:

```
200 OK{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 3,
  "Resources": [
    {
      "displayName": "Domain_Administrators",
      "idcsLastModifiedBy": {
        "type": "App",
        "value": "6923eddd11d1457084f550273b51027a",
        "display": "idcssm",
        "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/"
      }
    }
  ]
}
```

```

6923eddd11d1457084f550273b51027a"
    },
    "idcsCreatedBy": {
      "type": "App",
      "display": "idcssm",
      "value": "6923eddd11d1457084f550273b51027a",
      "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/
6923eddd11d1457084f550273b51027a"
    },
    "urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group":
  {
    "description": "Domain Administrators"
  },
  "meta": {
    "version": "a9d7f9a9e7114c2994fe729f0506739a",
    "created": "2023-10-06T05:23:58.569Z",
    "lastModified": "2023-10-06T05:23:58.569Z",
    "resourceType": "Group",
    "location": "https://<oci-iam-domain-url>:443/admin/v1/Groups/
2c715a2f00b44e3fab0dced1c5798d84"
  },
  "id": "2c715a2f00b44e3fab0dced1c5798d84",
  "ocid":
"ocid1.group.oc1..aaaaaaaenl5su2ejqkzonymjdcrtt52nvgfk53zgggjp2vfja5lya742dqnq
",
  "schemas": [
    "urn:ietf:params:scim:schemas:core:2.0:Group",

    "urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group"
  ],
  "domainOcid":
"ocid1.domain.oc1..aaaaaaaatzwhla6vhqwnvj6eiaoksjwtq2sxxwzls6zljr3ttcs5mj6kgk
a",
  "compartmentOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
  "tenancyOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
  "urn:ietf:params:scim:schemas:oracle:idcs:extension:dynamic:Group": {
    "membershipType": "static"
  }
},
{
  "displayName": "SCP_READ",
  "idcsLastModifiedBy": {
    "type": "App",
    "value": "4ed77d9256654268aa286ec1a959dbe2",
    "display": "idcsjob",
    "ocid":
"ocid1.user.oc1..aaaaaaa7ieth5a2q72o52uu56cx3xwigqldjpn63zt7jo4a7hhhcnyvpq"
,
    "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/
4ed77d9256654268aa286ec1a959dbe2"
  },

```

```

        "idcsCreatedBy": {
            "type": "User",
            "ocid":
"ocid1.user.oc1..aaaaaaa7ieth5a2q72o52uu56cx3xwigqldjpndp63zt7jo4a7hhhcnyvpq"
,
            "display": "Shreyas Rao B",
            "value": "fc0f9952563e4b4399f4869fc066673d",
            "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
fc0f9952563e4b4399f4869fc066673d"
        },
        "urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group":
{
    "description": "Has access to only SCP resources and can only
perform READ Managed Objects of SCP."
},
    "meta": {
        "version": "8a1f0617369a444da296ef6ce2b73a9e",
        "created": "2023-11-14T09:05:28.413Z",
        "lastModified": "2024-01-25T03:56:30.173Z",
        "resourceType": "Group",
        "location": "https://<oci-iam-domain-url>:443/admin/v1/Groups/
5d315d352e8c4af38e590b71ed6d2699"
    },
    "id": "5d315d352e8c4af38e590b71ed6d2699",
    "ocid":
"ocid1.group.oc1..aaaaaaaava7e65qhum3tatqzzk43tqyb5f7txwb56ukbhtlxf5neb54yy4oq"
,
    "urn:ietf:params:scim:schemas:oracle:idcs:extension:OCITags": {
        "definedTags": [
            {
                "key": "CreatedBy",
                "namespace": "Oracle-Tags",
                "value": "corp/shreyas.b@oracle.com"
            },
            {
                "key": "CreatedOn",
                "namespace": "Oracle-Tags",
                "value": "2023-11-14T09:05:28.391Z"
            }
        ]
    },
    "schemas": [
        "urn:ietf:params:scim:schemas:core:2.0:Group",
        "urn:ietf:params:scim:schemas:oracle:idcs:extension:OCITags",

"urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group"
    ],
    "domainOcid":
"ocid1.domain.oc1..aaaaaaaatzwhla6vhqwnvj6eiaoksjwqe2sxxwzls6zljr3ttcs5mj6kgk
a",
    "compartmentOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",
    "tenancyOcid":
"ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
4a",

```

```

"urn:ietf:params:scim:schemas:oracle:ids:extension:dynamic:Group": {
  "membershipType": "static"
},
{
  "displayName": "SCP_WRITE",
  "idsLastModifiedBy": {
    "type": "App",
    "value": "4ed77d9256654268aa286ec1a959dbe2",
    "display": "idcsjob",
    "ocid":
"ocid1.user.oc1..aaaaaaa7ieth5a2q72o52uu56cx3xwigqldjpn dp63zt7jo4a7hhhcnyvpq"
,
    "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Apps/
4ed77d9256654268aa286ec1a959dbe2"
  },
  "idsCreatedBy": {
    "type": "User",
    "ocid":
"ocid1.user.oc1..aaaaaaa7ieth5a2q72o52uu56cx3xwigqldjpn dp63zt7jo4a7hhhcnyvpq"
,
    "display": "Shreyas Rao B",
    "value": "fc0f9952563e4b4399f4869fc066673d",
    "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
fc0f9952563e4b4399f4869fc066673d"
  },
  "urn:ietf:params:scim:schemas:oracle:ids:extension:group:Group":
{
  "description": "Has access to only SCP resources and can
perform CRUD operations on Managed Objects."
},
  "meta": {
    "version": "f4fcceb2a4014355a0a099ea22f0f2da",
    "created": "2023-11-14T09:05:39.001Z",
    "lastModified": "2024-01-25T03:56:30.043Z",
    "resourceType": "Group",
    "location": "https://<oci-iam-domain-url>:443/admin/v1/Groups/
d29818fc6a1d4be9883699766a8f026c"
  },
  "id": "d29818fc6a1d4be9883699766a8f026c",
  "ocid":
"ocid1.group.oc1..aaaaaaaahwdyf qkvz42tszory5nkz4kuha6iuwah26j4pgtuyhic3gssq2jq
",
  "urn:ietf:params:scim:schemas:oracle:ids:extension:OCITags": {
    "definedTags": [
      {
        "key": "CreatedBy",
        "namespace": "Oracle-Tags",
        "value": "corp/shreyas.b@oracle.com"
      },
      {
        "key": "CreatedOn",
        "namespace": "Oracle-Tags",
        "value": "2023-11-14T09:05:38.977Z"
      }
    ]
  }
}

```

```

        ],
        "schemas": [
            "urn:ietf:params:scim:schemas:core:2.0:Group",
            "urn:ietf:params:scim:schemas:oracle:ids:extension:OCITags",

            "urn:ietf:params:scim:schemas:oracle:ids:extension:group:Group"
        ],
        "domainOcid":
            "ocid1.domain.oc1..aaaaaaaatzwhla6vhqwnvj6eiaoksjwtq2sxxwzls6zljr3ttcs5mj6kgk
            a",
        "compartmentOcid":
            "ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
            4a",
        "tenancyOcid":
            "ocid1.tenancy.oc1..aaaaaaa5oqwziy4bngiebry6letze4s2ap5x5pv4esurhc6pojwe4wx3
            4a",

        "urn:ietf:params:scim:schemas:oracle:ids:extension:dynamic:Group": {
            "membershipType": "static"
        }
    },
    "startIndex": 1,
    "itemsPerPage": 50
}

```

3.10 Delete a group

CNC Console uses Delete a group REST API to delete a group.

Type: DELETE

URI:

/admin/v1/Groups/{{groupid}}

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Groups/{{groupid}}

Sample group:

```

{{
    "displayName": "ExampleGroup",
    .
    .
    .
    "id": "f4fc...6ad",
    "ocid": "ocid1.group.oc1...4fq",
    .
    .
    .
}}

```

Populate {{groupid}} as "id" of sample group

Example curl command:

```
curl --location --request DELETE 'https://<oci-iam-domain-url>/admin/v1/Groups/f4fc1efec8a1478fbe858cbbe95456ad' \
--header 'Authorization: Bearer eyJhbGciOiJSUzI1NiIsI....._LcCZYWDQJJTloj2PJ8y1Wj09l2Q'
```

Example of the Response Body

The following is the example of the response body:

204 No Content

3.11 Update group details

CNC Console uses Update group details REST API to update group details.

Type: PATCH

URI:

/admin/v1/Groups/{{groupid}}

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Groups/{{groupid}}

Sample group:

```
{
  "displayName": "ExampleGroup",
  .
  .
  .
  "id": "f4fc...6ad",
  "ocid": "ocid1.group.oc1...4fq",
  .
  .
  .
}
```

Populate {{groupid}} as "id" of sample group

Example curl command:

```
curl --location --request PATCH 'https://<oci-iam-domain-url>/admin/v1/Groups/efac9f16bf5949318e36c32f6c4b4574' \
--header 'Authorization: Bearer eyJhbGciOiJSUzI1NiIsI....._LcCZYWDQJJTloj2PJ8y1Wj09l2Q' \
--header 'Content-Type: application/json' \
--data '{
```

```

"schemas": [
  "urn:ietf:params:scim:api:messages:2.0:PatchOp"
],
"Operations": [
  {
    "op": "replace",
    "path": "displayName",
    "value": "Employees from Example"
  }
]
}'

```

Example of the Response Body

The following is the example of the response body:

```

{
  "displayName": "Employees from Example",
  "idcsLastModifiedBy": {
    "type": "User",
    "value": "5427ea861e2c479895b8375b19c6827a",
    "display": "Test User",
    "ocid":
"ocid1.user.oc1..aaaaaaaaxszu5pi3iudjfa2tkkz3onobfnk3ctuqqyg3zsa7gx4sohikrboq"
  },
  "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
5427ea861e2c479895b8375b19c6827a"
},
  "idcsCreatedBy": {
    "type": "User",
    "ocid": "ocid1.user.oc1...krboq",
    "display": "Test User",
    "value": "5427ea861e2c479895b8375b19c6827a",
    "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/
5427ea861e2c479895b8375b19c6827a"
},
  "urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group": {
    "description": "Example Description"
  },
  "meta": {
    "version": "7a72fc34066347a9aafccf7258614c4d",
    "created": "2024-01-24T08:50:30.209Z",
    "lastModified": "2024-01-24T09:47:34.308Z",
    "resourceType": "Group",
    "location": "https://<oci-iam-domain-url>:443/admin/v1/Groups/
efac9f16bf5949318e36c32f6c4b4574"
  },
  "id": "efac9f16bf5949318e36c32f6c4b4574",
  "ocid": "ocid1.group.oc1...woq",
  "externalId": "123456",
  "schemas": [
    "urn:ietf:params:scim:schemas:core:2.0:Group",
    "urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group"
  ],
  "domainOcid": "ocid1.domain.oc1...j6kgka",

```

```

    "compartmentOcid": "ocid1.tenancy.oc1...xe34a",
    "tenancyOcid": "ocid1.tenancy.oc1...wxe34a"
  }

```

3.12 Assign group to a user

CNC Console uses Assign group to a user REST API to assign a group to a user.

Type: PATCH

URI:

/admin/v1/Groups/{{groupid}}

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Groups/{{groupid}}

Sample group:

```

{
  "displayName": "ExampleGroup",
  .
  .
  .
  "id": "f4fc...6ad",
  "ocid": "ocid1.group.oc1...4fq",
  .
  .
  .
}

```

Populate {{groupid}} as "id" of sample group

Example curl command:

```

curl --location --request PATCH 'https://<oci-iam-domain-url>/admin/v1/Groups/efac9f16bf5949318e36c32f6c4b4574' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer eyJhbGciOiJSUzI1NiIsI....._LcCZYWDQJJTloj2PJ8y1Wj0912Q' \
--data '{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:PatchOp"
  ],
  "Operations": [
    {
      "op": "add",
      "path": "members",
      "value": [
        {
          "value": "<userid>",
          "type": "User"
        }
      ]
    }
  ]
}'

```

```
    ]
  }
]
}'
```

Sample user format:

```
{
  "id": 12...x3,
  ...
  "ocid": "ocid1...op",
  "userName": "testuser"
  .
  .
  .
}
```

Populate <userid> as "id" of Sample User

Example of the Response Body

The following is the example of the response body:

```
{
  "displayName": "Employees from Example",
  "idcsLastModifiedBy": {
    "type": "User",
    "value": "5427ea861e2c479895b8375b19c6827a",
    "display": "Test User",
    "ocid": "ocid1.user.oc1...krboq",
    "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/5427ea861e2c479895b8375b19c6827a"
  },
  "idcsCreatedBy": {
    "type": "User",
    "ocid": "ocid1.user.oc1...krboq",
    "display": "Test User",
    "value": "5427ea861e2c479895b8375b19c6827a",
    "$ref": "https://<oci-iam-domain-url>:443/admin/v1/Users/5427ea861e2c479895b8375b19c6827a"
  },
  "urn:ietf:params:scim:schemas:oracle:idcs:extension:group:Group": {
    "description": "Example Description"
  },
  "meta": {
    "version": "7a72fc34066347a9aafccf7258614c4d",
    "created": "2024-01-24T08:50:30.209Z",
    "lastModified": "2024-01-24T09:47:34.308Z",
    "resourceType": "Group",
    "location": "https://<oci-iam-domain-url>:443/admin/v1/Groups/efac9f16bf5949318e36c32f6c4b4574"
  },
  "id": "efac9f16bf5949318e36c32f6c4b4574",
  "ocid": "ocid1.group.oc1...oewoq",
  "externalId": "123456",
```

```

    "schemas": [
      "urn:ietf:params:scim:schemas:core:2.0:Group",
      "urn:ietf:params:scim:schemas:oracle:ids:extension:group:Group"
    ],
    "domainOcid": "ocid1.domain.oc1...j6kgka",
    "compartmentOcid": "ocid1.tenancy.oc1...wxe34a",
    "tenancyOcid": "ocid1.tenancy.oc1...4wxe34a"
  }

```

3.13 Assign multiple groups to a user

CNC Console uses Assign multiple groups to a user REST API to assign multiple groups to a user.

Type: POST

URI:

/admin/v1/Bulk

/admin/v1/Groups/{{groupid}}

Sample URI:

https://<oci-iam-domain-url>/admin/v1/Bulk

Example curl command:

```

curl --location --request PATCH 'https://<oci-iam-domain-url>/admin/v1/Groups/efac9f16bf5949318e36c32f6c4b4574' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer eyJhbGciOiJSUzI1NiIsI....._LcCZYwDQJJTloj2PJ8y1Wj09l2Q' \
--data '{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:PatchOp"
  ],
  "Operations": [
    {
      "op": "add",
      "path": "members",
      "value": [
        {
          "value": "<userid>",
          "type": "User"
        }
      ]
    }
  ]
}'

```

Example of the Response Body

The following is the example of the response body:

```
curl --location 'https://<oci-iam-domain-url>/admin/v1/Bulk' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer eyJhbGciOiJSUzI1NiIsI....._LcCZYwDQJJTloj2PJ8y1Wj09l2Q' \
--data '{"schemas":["urn:ietf:params:scim:api:messages:2.0:BulkRequest"],
"Operations":
[
{
"method":"PATCH","path":"/Groups/<groupid>",
"data":{"schemas":["urn:ietf:params:scim:api:messages:2.0:PatchOp"],
"Operations":[{"op":"add","path":"members","value":
[{"value":"<userid>","type":"User"}]}]}
},
{
"method":"PATCH","path":"/Groups/<groupid>",
"data":{"schemas":["urn:ietf:params:scim:api:messages:2.0:PatchOp"],
"Operations":[{"op":"add","path":"members","value":
[{"value":"<userid>","type":"User"}]}]}
}
]
}'
```

Populate different groups with <groupid>, to assign multiple groups to user, <userid>

Sample user format:

```
{
  "id": 12...x3,
  ...
  "ocid": "ocid1...op",
  "userName": "testuser"
  .
  .
  .
}
```

Populate <userid> as "id" field of sample User

Sample group format:

```
{
  "displayName": "ExampleGroup",
  .
  .
  .
  "id": "f4fc...6ad",
  "ocid": "ocid1.group.oc1...4fq",
  .
  .
  .
}
```

Populate <groupid> as "id" of sample group