Oracle Hospitality OPERA Cloud Identity Management Administrator Guide for Configuring Okta Integration





Oracle Hospitality OPERA Cloud Identity Management Administrator Guide for Configuring Okta Integration, Release 25.2

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Preface

Purpose

This configuration guide explains the steps required for integrating Okta with OPERA Cloud Identity Management.

Audience

This document is intended for OPERA Cloud Services application administrators.

Customer Support

To contact Oracle Customer Support, access the Customer Support Portal at the following URL:

https://iccp.custhelp.com

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- · Screen shots of each step you take

Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at

http://docs.oracle.com/en/industries/hospitality/

Revision History

Table Revision History

Date	Description of Change
June 2025	Initial Publication



1

Okta Integration with OPERA Cloud Identity Management – Overview

OPERA Cloud Identity Management's OCI IAM Identity Domains provide the capability of integrating with Okta where Okta will be the identity provider for OPERA Cloud Identity Management. This integration ensures customers who are using Okta as their identity provider can centrally manage their users and groups in Okta, and those users, groups, and user group memberships are seamlessly synchronized into OPERA Cloud Identity Management. This integration also supports SAML 2.0 based identity federation, which provides a seamless single-sign-on experience for customers by allowing them to use their Okta user credentials during login to OPERA Cloud Services.

Prerequisites for Okta Integration with OPERA Cloud Identity Management

- An Okta account with administrator privileges.
- OPERA Cloud Identity Management's OCI IAM Identity Domains provisioned for the customer.
- User account in OCI IAM Identity Domain with Administrator role.

Configuring Identity Lifecycle Management between Okta & OCI IAM Identity Domain

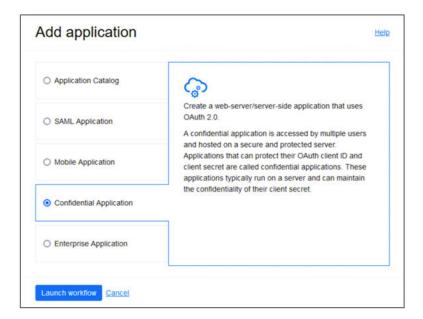
This section provides the steps to configure Okta as the authoritative identity store to manage identities in OPERA Cloud Identity Management's customer OCI IAM Identity Domain.

Below are the high-level steps involved in this configuration.

- 1. Create a confidential application in OCI IAM.
- 2. Obtain the identity domain URL and generate a secret token.
- 3. Create an app in Okta.
- Update Okta's settings.
- Test identity provisioning from Okta to OCI IAM.

1. Create a Confidential Application

- Open a supported browser and enter the following Console URL: https://cloud.oracle.com
- 2. Enter your Cloud Account Name, also referred to as your tenancy name, and click Next.
- 3. Sign in with your username and password.
- 4. Open the navigation menu and click Identity & Security. Under Identity, click Domains.
- 5. Select the identity domain in which you want to configure Okta provisioning and click **Integrated Applications**.
- Click Add Application and choose Confidential Application and then click Launch workflow.



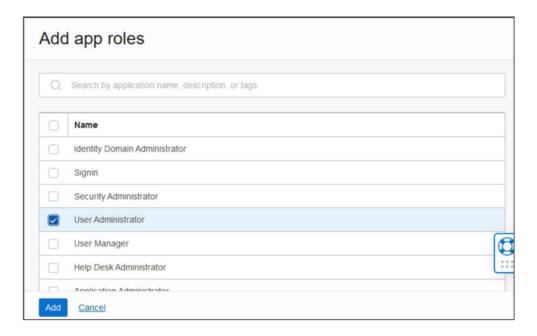
- 7. Enter a name for the confidential application, for example, "OktaOPERAClient." Click Next.
- 8. Under Client configuration, select Configure this application as a client now.



9. Under Authorization, select Client credentials.



- 10. Scroll to the bottom and click Add app roles.
- Under App roles click Add roles, and in the Add app roles page, select User Administrator and click Add.



- 12. Click Next and then click Finish.
- **13.** On the application details page, click **Activate** and confirm that you want to activate the new application.

2. Find the Domain URL and Generate a Secret Token

You need the following pieces of information for the connection settings of the enterprise app you create:

- The domain URL
- A secret token generated from the client ID and client secret.
- Return to the identity domain overview by clicking the identity domain name in the breadcrumbs. Click Copy next to the Domain URL in Domain information and save the URL to an app where you can edit it. The OCI IAM GUID is part of the domain URL: https://<IdentityDomainID>.identity.oraclecloud.com:443/fed/v1/idp/sso



- 2. In the confidential app in OCI IAM, click the **OAuth** configuration under Resources.
- Scroll down and find the Client ID and Client secret under General Information.
- 4. Copy the client ID and store it.
- Click Show secret and copy the secret and store it.



The secret token is the base64 encoding of <clientID>:<clientsecret> or base64(<clientID>:<clientsecret>).

The following examples show how to generate the secret token on Microsoft Windows and Apple MacOS.

In a Microsoft Windows environment:

- a. Open CMD and use this powershell command to generate base64:
- [Convert]::ToBase64String([System.Text.Encoding]::Unicode.GetBytes('client_id:secret'))

In an Apple MacOS, use the following:

- a. echo -n <clientID>:<clientsecret> | base64
- b. Make a note of the secret token value.

3. Create the OCI Application in Okta

Configure Okta to enable Okta to be the authoritative identity store to manage identities in your OCI IAM Identity Domain.

- In the browser, sign into Okta using the following URL where <okta-org> is the prefix for your organization with Okta: https://<Okta-org>-admin.okta.com
- 2. In the menu on the left, click **Applications**. If you already have an application that you created when you went through SSO with OCI and Okta, you can use it. Just click to open it and edit it, and then go to 4. Change Okta Settings. If not, then follow the below steps.
- Click Browse App Catalog and search for Oracle Cloud. Select Oracle Cloud Infrastructure IAM from the available options.
- Click Add Integration.
- Under General settings, enter a name for the application, for example OCI IAM, and click Done.

4. Change Okta Settings

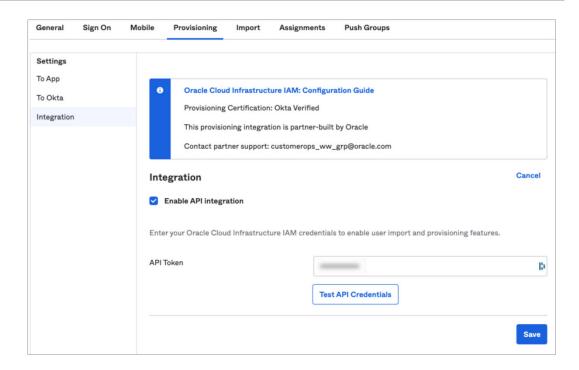
Connect the Okta app to the OCI IAM confidential app using the domain URL and secret token from an earlier step.

- 1. In the newly created application page, click the **Sign On** tab.
- 2. In Settings, click Edit.
- 3. Scroll down to Advanced Sign-on Settings.

Enter the domain URL in Oracle Cloud Infrastructure IAM GUID.

- 4. Click Save.
- 5. Near the top of the page, click the **Provisioning** tab.
- Click Configure API Integration.
- Select Enable API Integration.





- 8. Enter the secret token value you copied earlier in API Token.
- Click Test API Credentials.

If you get an error message, check the values that you have entered and try again.

Okta has successfully connected to the OCI IAM SCIM endpoint when you get the 'Oracle Cloud Infrastructure IAM was verified successfully!' message.

10. Click Save.

The Provisioning to App page opens, where you can create users, update user attributes, and map attributes between OCI IAM and Okta.

- 11. Under Setting list, Provisioning to App screen, Click Edit.
- 12. Enable Create Users, Update User Attributes & Deactivate Users. Click Save.
- 13. Scroll down to the Attribute Mappings section.
- 14. Click **Go to Profile Editor**; the Attribute section lists OCI IAM Attributes. Refer to the **User Mapping** table below to map user attributes between OCI IAM and Okta, adding any required attributes including the mandatory attributes.

Table 2-1 User Mapping

Okta Attribu te	IAM Domain (IDCS) User Attribute	External Namespa ce	Mapping Type	Attribute Value	Description	Mandatory Attribute
login	userName		Direct	Map from Okta profile	User name	Yes
lastNa me	name.fam ilyName		Direct	Map from Okta profile	Last name	Yes

Table 2-1 (Cont.) User Mapping

Okta Attribu te	IAM Domain (IDCS) User Attribute	External Namespa ce	Mapping Type	Attribute Value	Description	Mandatory Attribute
email	emails[typ e eq "work"].v alue		Direct	Map from Okta profile	Email address	Yes
(user.e mail!= null && user.e mail!= ")? 'work':"	emailType		Expression	(user.email != null && user.email != ") ? 'work' : "	Email Type	Yes
extens ionAtt ribute Primar yWork Locati on	OC_Prima ryWorkLo cation	urn:ietf:p arams:sci m:schem as:idcs:ex tension:c ustom:Us er	Expression	Same value for all Users. Refer description	Mandatory Single Valued User Attribute. Indicates the User primary work location. Primary Work Location can have values <chainco de="">:C for multi chain customers derived from the User profile. For customers having only a single chain, the source value can be set to constant <chainco de="">:C for all users.</chainco></chainco>	Yes

Table 2-1 (Cont.) User Mapping

Okta Attribu te	IAM Domain (IDCS) User Attribute	External Namespa ce	Mapping Type	Attribute Value	Description	Mandatory Attribute
isFede ratedU ser	isFederate dUser	urn:ietf:p arams:sci m:schem as:oracle: idcs:exten sion:user: User	Expression	true	Enable Federated User flag in Identity Domain.	Yes
bypass Notific ation	bypassNot ification	urn:ietf:p arams:sci m:schem as:oracle: idcs:exten sion:user: User	Expression	true	The bypass notification flag controls whether an email notification is sent after creating or updating a user account in Identity Domain. The bypassNotification must be set to "true" for Federated users. This disables use r account activation notification in IAM Identity Domain for the user.	Yes
firstNa me	name.give nName		Direct	Map from Okta profile	First name	No
prefer redLa nguag e	preferred Language		Direct	Map from Okta profile	The User's preferred written or spoken language for localized user interfaces.	No
displa yName	displayNa me		Direct	Map from Okta profile	Display name	No
title	title		Direct	Map from Okta profile	Title	No

Table 2-1 (Cont.) User Mapping

Okta Attribu te	IAM Domain (IDCS) User Attribute	External Namespa ce	Mapping Type	Attribute Value	Description	Mandatory Attribute
mobile Phone	phoneNu mbers[typ e eq "mobile"]. value		Direct	Map from Okta profile	The User's mobile phone number.	No
emplo yeeNu mber	OC_UserE mployeeN o	urn:ietf:p arams:sci m:schem as:idcs:ex tension:c ustom:Us er	Direct	Map from Okta profile	Numeric or alphanume ric identifier assigned to a person, typically based on order of hire or association with an organizatio n.	No
userTy pe	OC_UserT ype	urn:ietf:p arams:sci m:schem as:idcs:ex tension:c ustom:Us er	Direct	Map from Okta profile Possible Values: FULL-TIME EMPLOYEE PART-TIME EMPLOYEE TRAINEE CONTRACTOR CONSULTANT	Used to identify the organizatio n-to-user relationship	No
depart ment	OC_Depar tment	urn:ietf:p arams:sci m:schem as:idcs:ex tension:c ustom:Us er	Direct	Map from Okta profile	Specifies the User's department	No
primar yPhon e	phoneNu mbers[typ e eq "work"].v alue		Direct	Map from Okta profile	The User's work phone number.	No

Table 2-1 (Cont.) User Mapping

Okta Attribu te	IAM Domain (IDCS) User Attribute	External Namespa ce	Mapping Type	Attribute Value	Description	Mandatory Attribute
extens ionAtt ribute UserO wnerC ode	OC_UserO wnerCode	urn:ietf:p arams:sci m:schem as:idcs:ex tension:c ustom:Us er	Direct	Map from Okta profile	Unique code (typica lly, the sales manager's initials) for the own er. For example, oc _ownercode =First_Last_ Initial.	No
extens ionAtt ribute Honorif icPrefi x	name.hon orificPrefi x		Direct	Map from Okta profile	User Initials	No
extens ionAtt ribute Middle Name	name.mid dleName		Direct	Map from Okta profile	User Middle name	No
extens ionAtt ribute Honorif icSuffi x	name.hon orificSuffi x		Direct	Map from Okta profile	Suffix	No
extens ionAtt ribute Timez one	timezone		Direct	Map from Okta profile	User's timezone	No
extens ionAtt ribute Locale	locale		Direct	Map from Okta profile	Used to indicate the User's default location for purposes of localizing items such as currency, date and time format, numerical representat ions, and so on.	No

Table 2-1 (Cont.) User Mapping

Okta Attribu te	IAM Domain (IDCS) User Attribute	External Namespa ce	Mapping Type	Attribute Value	Description	Mandatory Attribute
extens ionAtt ribute ActAs	oc_actas	urn:ietf:p arams:sci m:schem as:idcs:ex tension:c ustom:Us er:OC_Act As	Direct	Map from Okta profile Possible Values: Reservation Sales Person Conference Sales Person External System	OPERA Cloud attribute. Determines the Originat ing Application value in Blocks an d Manage Block (see Managing Blocks) referenced by the Origin li st field in Group Rooms Control (see Using Group Rooms Control) sea rch and in reports.	No
extens ionAtt ribute ActAt	oc_actat	urn:ietf:p arams:sci m:schem as:idcs:ex tension:c ustom:Us er:OC_Act At	Direct	Map from Okta profile Possible Values: Property Central	OPERA Cloud attribute. Determines the Originat ing Application value in Blocks an d Manage Block (see Managing Blocks) referenced by the Origin li st field in Group Rooms Control (see Using Group Rooms Control) sea rch and in reports.	No

Table 2-1 (Cont.) User Mapping

Okta Attribu te	IAM Domain (IDCS) User Attribute	External Namespa ce	Mapping Type	Attribute Value	Description	Mandatory Attribute
extens ionAtt ribute Hubs	String	urn:ietf:p arams:sci m:schem as:idcs:ex tension:c ustom:Us er:OC_Hu bs	Direct	N/A	Assign one or more hubs to a user to determine their property location access in multiproperty operations. oc_hubs is a String array in IAM Domain and the Identity Provider should should map a multivalued attribute to oc_hubs. Value for oc_hubs needs to be sent in all uppercase.	No
extens ionAtt ribute HubsSt ring	String	urn:ietf:p arams:sci m:schem as:idcs:ex tension:c ustom:Us er:OC_Hu bs_String	Direct	N/A	Assign one or more hubs to a users to determine their property location access in multiproperty operations. OC_Hubs_St ring needs to be sent in all uppercase as comma separated values.	No

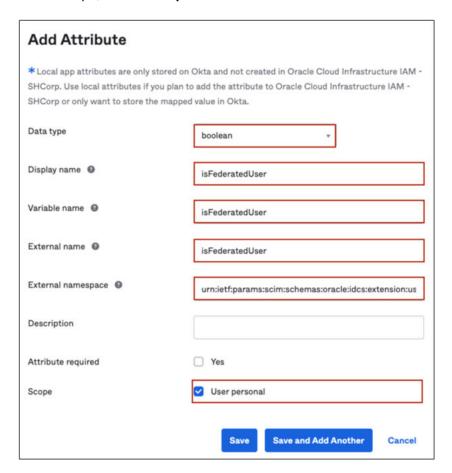
^{15.} Follow the steps below to add required attributes from those attributes listed in the above user mapping table.

- 16. Under Attributes, click Add Attributes.
- 17. In the Add Attribute page, enter the following values from the User Mapping table above:
 - For Data Type, enter the corresponding value from the Data Type column.
 - For Display Name, enter the corresponding value from the OCI User Attribute column.
 - For Variable Name, enter the corresponding value from the OCI User Attribute column.



The external name is automatically populated by the value of the variable name.

- 18. For External namespace, enter urn:ietf:params:scim:schemas:oracle:idcs:extension:user:User.
- 19. Under Scope, check User personal.



- 20. Click Save and Add Another attribute.
- 21. In the Attributes list, click **Mapping** and choose the tab **Okta User to Oracle IAM User Profile**.
- 22. Add mappings referring to the User Mapping table.

string

Oracle Cloud Infrastructure IAM t... Okta User to Oracle Cloud Infra... Okta User User Profile Oracle Cloud Infrastructure okta 0 IAM User Profile appuser Username is set by Oracle Cloud Infrastructure IAM userName string givenName user.firstName familyName string user.lastName user.middleName middleName email user.email emailType email (user.email != null && user.email != '') ? 'work' title string user.title displayName user.displayName

nickName

isFederatedUser

bypassNotification

OC_PrimaryWorkLocation

Oracle Cloud Infrastructure IAM User Profile Mappings

23. Save mappings.

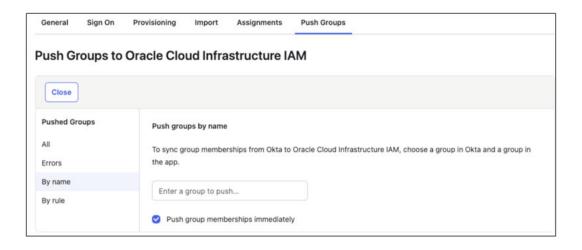
true

true

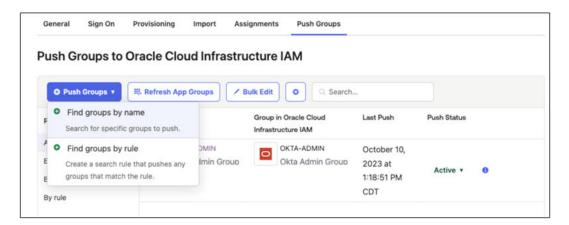
user.nickName

"ENTERPRISECODE:E"

- 24. Return to the OIC Application.
- 25. Syncing Groups from Okta to Oracle Identity Domain can be done manually or can be automated by selecting the **Push Group** tab under the OCI IAM application to define a rule.
- **26.** Select the **Push Group** tab. You can manually push the group by entering the group name and selecting the group to be pushed.



- 27. Enter the group name to push from Okta to OCI IAM Domain.
- 28. You can also define a rule to automate Group synchronization.



5. Test User and Group Provisioning for Okta

- 1. In the newly created application, click the **Assignments** tab.
- 2. Click Assign and select Assign to People.
- 3. Search for the user to provision from Okta to OCI IAM.
- Click Assign next to the user.
- Click Save and then click Go Back.
- Now provision Okta groups into OCI IAM. In the Assignments tab, click Assign and select Assign to Groups.
- Search for the groups to be provisioned to OCI IAM. Next to the group name, click Assign.
- Click Done.
- Sign in to OCI.
- **10.** Open a supported browser and enter the following OCI Console URL: https://cloud.oracle.com.
- 11. Enter your Cloud Account Name, also referred to as your tenancy name, and click Next.

- 12. Select the identity domain in which Okta has been configured.
- 13. Click Users.

The user which was assigned to the OCI IAM application in Okta is now present in OCI IAM.

14. Click Groups.

The group which was assigned to the OCI IAM application in Okta is now present in OCI IAM.

