# Oracle Hospitality OPERA Cloud Identity Management Administrator Guide for Configuring Microsoft Azure AD Synchronization with OPERA Cloud Identity Management



Release 23.1.1 F83071-01 March 2024

ORACLE

Oracle Hospitality OPERA Cloud Identity Management Administrator Guide for Configuring Microsoft Azure AD Synchronization with OPERA Cloud Identity Management, Release 23.1.1

F83071-01

Copyright  $^{\odot}$  2023, Oracle and/or its affiliates.

## Contents

### 1 Microsoft Azure AD Synchronization Overview

Prerequisites for Microsoft Azure AD Synchronization

1-1

### 2 Configuring Microsoft Azure AD Synchronization in OCI IAM Identity Domain

1. Create a Confidential Application	2-1
2. Find the Domain URL and Generate a Secret Token	2-3
3. Create the OCI Application on Azure AD	2-4
4. Additional Configurations for Federated Users	2-6
5. Assign Users and Groups to the Microsoft Azure AD Application	2-14
Note	2-17



### Notices

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates



will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.



### Preface

#### **Purpose**

This guide explains the Microsoft Azure Active Directory (AD) Synchronization feature of Oracle Hospitality OPERA Cloud. Customers who are using Microsoft Azure AD as their identity provider can utilize the Microsoft Azure AD Synchronization feature.

#### 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
March 2024	Initial Publication



# 1 Microsoft Azure AD Synchronization Overview

OPERA Cloud Identity Management's OCI IAM Identity Domains provide the capability of synchronizing users and groups from Microsoft Azure Active Directory (Azure AD). This feature ensures customers who are using Microsoft Azure AD as their identity provider can centrally manage their users and groups in Microsoft Azure AD, and those users, groups, and user group memberships are seamlessly synchronized into OPERA Cloud Identity Management.

### Prerequisites for Microsoft Azure AD Synchronization

- An operational Microsoft Azure AD tenant
- A user account in Microsoft Azure AD with permission to configure provisioning (for example, Application Administrator, Cloud Application Administrator, Application Owner, or Global Administrator).
- OPERA Cloud Identity Management's OCI IAM Identity Domains provisioned for the customer.
- User account in OCI IAM Identity Domain with Administrator permissions.



## 2 Configuring Microsoft Azure AD Synchronization in OCI IAM Identity Domain

This section provides the steps to configure Microsoft Azure AD as the authoritative identity store to manage identities in OPERA Cloud Identity Management. Microsoft Azure AD is configured using an application template from Microsoft Azure AD Gallery.

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

- 1. Configure OCI IAM so that Microsoft Azure AD is the identity store to manage identities in OCI IAM. In OCI IAM, create a confidential application.
- 2. Generate a secret token from the OCI IAM identity domain's client ID and client secret. Use this along with the domain URL in Azure AD.
- Create an app in Microsoft Azure AD and use the secret token and identity domain URL to specify the OCI IAM identity domain and prove that it works by pushing users from Microsoft Azure AD to OCI IAM.
- 4. Assign the users and groups you want to provision to OCI IAM in the Microsoft Azure AD application.

### 1. Create a Confidential Application

- 1. In the OCI Identity Domain, open the navigation menu and click Identity & Security.
- 2. Under Identity, click Domains.
- 3. Click Integrated Applications in the identity domain in which you are working
- 4. Click Add Application and choose Confidential Application and click Launch workflow.





- 5. Enter a name for the application, for example Azure AD, and click Next.
- 6. Under Client configuration, select **Configure this application as a client now**.



7. Under Authorization, select Client credentials.

Authorization	
Allowed grant types (i)	
Resource owner	Authorization code
Client credentials	Implicit
JWT assertion	SAML2 assertion
Refresh token	TLS client authentication
Device code	

- 8. Under Client type, select **Confidential**.
- 9. Scroll down and in the Token issuance policy section, set Authorized resources to **Specific**.

Token issue		
All Sp	ecific	
Add resour	es	
Add resources	if you want your application to access the APIs of other applicatio	ns.
Add app ro	es	
Add the application tasks available	tion roles to assign to this application. For example, add the Identity to the identity domain administrator will be available to the applicati	y Domain Administrator role so that all RESTAP on.
App roles		
Add roles	Remove	

- 10. Select Add app roles.
- **11.** In the App roles section, click the **Add roles** button.
- 12. On the Add app roles page, select User Administrator and then click Add.
- **13.** Click **Next** and then click **Finish**.
- **14.** On the Application Overview page, click **Activate** and confirm that you want to activate the application. The confidential application is now activated.



### 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
- 1. 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.

Overview in Default L	Domain		
Change domain type Edit domain	Add tags Reset all pas	sswords	
Domain information Tags			
OCID: Show Copy		Created: Mon, Nov 8, 2022, 20:27:02 UTC	
Domain type: Free		Show domain on login: On	
Description	Show Copy	Domain URL: Show Copy	
Domain replication:	an I had Anna	Status:  Active	
Home region: US East (Ashburn)			

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

Client secret	
	<u>Copy</u>
	Copy

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 Windows and MacOS:

- In a Windows environment, open CMD and use this powershell command to generate base64: encoding[Convert]::ToBase64String([System.Text.Encoding]::Unicode.GetByte s('client\_id:secret'))"
- In MacOS, use the following: echo -n <clientID>:<clientsecret> | base64

The secret token is returned. For example:

echo -n 392357752347523923457437:3454-9853-7843-3554 | base64

Nk0NzUyMzcyMzQ1NzMTc0NzUyMzMtNTQzNC05ODc4LTUzNQ==

Make a note of the secret token value.

### 3. Create the OCI Application on Azure AD

Configure Microsoft Azure AD to enable Azure AD to be the authoritative identity store to manage identities in IAM.

- 1. In the browser, sign into Microsoft Azure using the URL https://portal.azure.com
- 2. Click Azure Active Directory to open the Azure Active Directory overview page.
- 3. In the left menu, click Enterprise applications.

Home > Default Directory > Enter Enterprise applic Default Directory - Azure Active Di	ations rectory	itions   All applic	ations						
Overview	* +	New application	🕐 Refresh	🛓 Download (Expo	rt) 🕕 Preview info	EE Columns	😥 Preview features	R Go	feedback?
Overview     Diagnose and solve problems	View	v, filter, and search list of applications	applications in that are mainta	your organization the	it are set up to use your <i>l</i> ation are in application re	Azure AD tenant as th gistrations.	eir Identity Provider.		
Manage	P	Search by applicati	ion name or ob	ject ID App	lication type == Enterpris	se Applications $ imes$	Application ID starts	with $\times$	+ Add filters
All applications	13 -	pplications found			08 22	0.001			- 25

- 4. On the Enterprise applications page, click New application.
- 5. Select Oracle Cloud Infrastructure Console.

Browse Az	sure AD Gallery	Browse Azure A	D Gallery >				
Federated	SSO (2) Provisioning						
Dracle							
ଚ	Oracle Access Manager for Oracle E-Business Suite Oracle Corporation	6	Oracle Access Manager for Oracle Retail Merchandising Orace Corporation	Ô	Oracle Cloud Infrastructure Console Orace Corporation ③ ①	ORACLE	Oracle Fusion ERP Orace Э ⊅
ଚ	Oracle IDCS for E-Business Suite Orace Corporation	6	Oracle IDCS for JD Edwards Oracle Corporation	6	Oracle IDCS for PeopleSoft Drace Corporation		

- 6. Enter a name or accept the default of Oracle Cloud Infrastructure Console.
- 7. Click Create.





8. Select **Provisioning** from the left menu under Manage.

Home > Default Directory > Enterpris	e applications > Orade Cloud Infrastructure Console		
Cracle Cloud Infra	structure Console   Provisioning		
Cverview	R Got feedback?		
Deployment Plan			
Manage		1 m	
Properties		1. Carlos	
A Owners		S	
Roles and administrators			
Users and groups			
Single sign-on	Aut	mate identity lifecycle management with Azure Active Direct	:tory
Provisioning	Automatically create, upda	e, and delete accounts when users join, leave, and move within you	ir organization. Learn more
G Self-service		Get started	
<ul> <li>Custom security attributes (preview)</li> </ul>			
Security	What is provisioning?	Plan an application deployment.	Configure aut

- 9. Click **Get started** and change the Provisioning Mode to **Automatic**.
- 10. In the Tenant URL, enter the OCI IAM Domain URL from 2. Find the Domain URL and Generate a Secret Token followed by /admin/v1. That is, the tenant URL is https:// <domainURL>/admin/v1
- **11.** Enter the secret token you generated in 2. Find the Domain URL and Generate a Secret Token.



ome > Default Directory > Enterprise applications > Oracle Cloud Infrastructure Console >	
rovisioning	
🗄 Save 🗙 Discard	
This provisioning connector is in preview. Please click here to provide us feedback.	
Automatic	~
<ul> <li>Admin Credentials</li> </ul>	
Admin Credentials	
Azure AD needs the following information to connect to Oracle Cloud Infrastructure Console's API and synchronize user data.	
Tenant URL * ①	
Sarrat Tokan	
Test Connection	

12. Click **Test Connection** and verify if the test is successful.

### 4. Additional Configurations for Federated Users

- 1. In the browser, log in to Microsoft Azure using the URL.
- 2. Click Azure Active Directory to open the Azure Active Directory overview page.
- 3. In the left menu, click **Enterprise applications**.
- 4. Click the application you created earlier, Oracle Cloud Infrastructure Console.
- 5. In the left menu under Manage, click **Provisioning** and then click **Edit Provisioning**.
- 6. In the Provisioning page, click Mappings.
- 7. Under Mappings, click **Provision Azure Active Directory Users**.

Provisioning Mode	
Automatic	~
Use Azure AD to manage the creation and synchronization of user group assignment.	accounts in OCI IAM - SHCorp based on user and
✓ Admin Credentials	
∧ Mappings	
Mappings	
Mappings allow you to define how data should flow between	Azure Active Directory and OracleIDCS.
Name	Enabled
Provision Azure Active Directory Groups	Yes
Provision Azure Active Directory Users	Yes
Restore default mannings	

8. Under Attribute Mappings, scroll down and click Add New Mapping.

### Table 2-1 User Mappings

Azure AD User Attribute Name	OCI IAM Domain User Attribute Name	Mapping Type	Value	Description	Mandatory Attribute
userPrincipal Name	userName	Direct	N/A	User name	Yes
surname	name.family Name	Direct	N/A	Last name	Yes
mail	emails[type eq "work"].value	Direct	N/A	Email address	Yes



Azure AD User Attribute Name	OCI IAM Domain User Attribute Name	Mapping Type	Value	Description	Mandatory Attribute
extensionAttr ibutePrimary WorkLocatio n	urn:ietf:para ms:scim:sche mas:idcs:exte nsion:custom: User:OC_Prim aryWorkLoca tion	Direct	N/A	Mandatory Single Valued User Attribute. Indicates the User's primary work location. Primary Work Location can have values <enterprise _ID &gt;:E for multi chain customers derived from the User profile. For customers having only a single chain, the source value can be set to constant <chaincode &gt;:C for all users.</chaincode </enterprise 	Yes
CBool(true)	isFederatedU ser	Expression	CBool("true")	Enable Federated User flag in Identity Domain.	Yes

Table 2-1 (Cont.) User Mappings

Azure AD User Attribute Name	OCI IAM Domain User Attribute Name	Mapping Type	Value	Description	Mandatory Attribute
CBool(true)	urn:ietf:para ms:scim:sche mas:oracle:id cs:extension: user:User:byp assNotificatio n	Expression	CBool("true")	The bypass notification flag controls whether an email notification is sent after creating or updating a user account in Identity Domain. bypa ssNotification to be set to "true" for Federated users and this disables user account activation notification in IAM Identity Domain for the user.	Yes
active	active	Expression	Not([IsSoftDel eted])	User status. The attribute IsSoftDeleted is often part of the default mappings for an application in Azure AD. It is not recommende d to remove the IsSoftDeleted attribute from your attribute mappings.	Yes
givenName	name.givenN ame	Direct	N/A	First name	No

Table 2-1 (Cont.) User Mappings



Azure AD User Attribute Name	OCI IAM Domain User Attribute Name	Mapping Type	Value	Description	Mandatory Attribute
perferredLan guage	preferredLan guage	Direct	N/A	User's preferred written or spoken language used for localized user interfaces.	No
displayName	displayName	Direct	N/A	Display name	No
jobTitle	title	Direct	N/A	Title	No
mobile	phoneNumbe rs[type eq "mobile"].val ue	Direct	N/A	User's mobile phone number	No
extensionAttr ibuteUserOw nerCode	urn:ietf:para ms:scim:sche mas:idcs:exte nsion:custom: User:OC_User OwnerCode	Direct	N/A	Unique code (typicall y, the sales manager's initials) for the owner . For example, oc_ ownercode=F irst_Last_Initi al.	No
employeeId	urn:ietf:para ms:scim:sche mas:idcs:exte nsion:custom: User:OC_User EmployeeNo	Direct	N/A	Numeric or alphanumeri c identifier assigned to a person, typically based on order of hire or association with an organization.	No

Table 2-1 (Cont.) User Mappings

Azure AD User Attribute Name	OCI IAM Domain User Attribute Name	Mapping Type	Value	Description	Mandatory Attribute
employeeTyp e	urn:ietf:para ms:scim:sche mas:idcs:exte nsion:custom: User:OC_User Type	Direct	Possible Values: FULL- TIME EMPLOY EE PART- TIME EMPLOY EE TRAINEE CONTRA CTOR CONSULT ANT OTHER	Used to identify the organization- to-user relationship.	No
department	urn:ietf:para ms:scim:sche mas:idcs:exte nsion:custom: User:OC_Dep artment	Direct	N/A	Specifies the user's department	No
telephoneNu mber	phoneNumbe rs[type eq "work"].value	Direct	N/A	User's work phone number	No
extensionAttr ibuteHonorifi cPrefix	name.honorif icPrefix	Direct	N/A	User's Initials	No
extensionAttr ibuteMiddleN ame	name.middle Name	Direct	N/A	User's Middle name	No
extensionAttr ibuteHonorifi cSuffix	name.honorif icSuffix	Direct	N/A	Suffix	No
extensionAttr ibuteTimezon e	urn:ietf:para ms:scim:sche mas:core:2.0: User:timezon e	Direct	N/A	User's timezone	No

Table 2-1 (Cont.) User Mappings

Azure AD User Attribute Name	OCI IAM Domain User Attribute Name	Mapping Type	Value	Description	Mandatory Attribute
extensionAttr ibuteLocale	urn:ietf:para ms:scim:sche mas:core:2.0: User:locale	Direct	N/A	Used to indicate the user's default location for purposes of localizing items such as currency, date and time format, numerical representatio ns, and so on.	No

Table 2-1 (Cont.) User Mappings

Attribute Mappings Attribute mappings define how attributes are synchronized between Azure Active Directory and OracleIDCS			
Azure Active Directory Attribute	OracleIDCS Attribute	Matching precedence	Remove
Item(Split([userPrincipalName], "@'), 1)	userName	1	Delete
Not([IsSoftDeleted])	active		Delete
displayName	displayName		Delete
jobTitle	title		Delete
mail	emails[type eq 'work'].value		Delete
preferredLanguage	preferredLanguage		Delete
givenName	name.givenName		Delete
surname	name.familyName		Delete
CBool("true")	unletfparams: scim: schemas: or a cle: idcs: extension: user: User: by pass Notification and the science of t		Delete
CBool("true")	urn:i etf: params: scim: schemas: or a cle: idcs: extension: user: User: is Federated User in the science of		Delete
employeeld	urn.ietf:params:scim:schemasidcs:extension:custom:User:OC_UserEmployeeNo		Delete
extensionAttributeUserOwnerCode	$unsietf: params: scim: schemas: idcs: extension: custom: User: OC_OwnerCode$		Delete
extensionAttributePrimaryWorkLocation	$urnietf: params: scim: schemas: idcs: extension: custom: User: OC_Primary WorkLocation \\$		Delete
employeeType	um:ietf:params:scim:schemas:idcs:extension:custom:User:OC_UserType		Delete
Add New Mapping			

#### **Custom Attribute Mapping**

To add mapping for target attributes, such as custom attributes and attributes not defined by default in the provisioning connector schema, you can edit the JSON representation of the schema to add these attribute mappings.

### Note:

Editing the list of supported attributes is only recommended for administrators who have customized the schema of their applications and systems and have first-hand knowledge of how their custom attributes are defined or if a source attribute is not automatically displayed in the Microsoft Entra admin center UI. This sometimes requires familiarity with the APIs and developer tools provided by an application or system. The ability to edit the list of supported attributes is locked down by default, but customers can enable this capability by navigating to the following URL: https:// portal.azure.com/?

Microsoft\_AAD\_Connect\_Provisioning\_forceSchemaEditorEnabled=true.

You can navigate to your application to view the attribute list. For more information, see the "Editing the list of supported attributes" section of the Microsoft article *Tutorial - Customize* user provisioning attribute-mappings for SaaS applications in Microsoft Entra ID.

- 1. Under Provisioning, select Mappings, and then select Provision Azure Active Directory Users.
- 2. Select the **Show advanced options** check box at the bottom of the Attribute Mapping screen, and then select **Edit attribute list for OracleIDCS**.

Edit Attribute List						×
Save X Discard						
addresses[type eq "work"].formatted	String					
addresses[type eq "work"].locality	String					
addresses[type eq "work"].region	String					
addresses[type eq "work"].postalCode	String					
addresses[type eq "work"].country	String					
addresses[type eq "work"].streetAddress	String					
urn/ietf:params:scim:schemas:core:2.0:User:phoneNumbers[type eq "work"].value	String					
uncletf params scim schemas: extension: enterprise 2.0. User: employee Number	String					
urnietf params scim schemas: extension: enterprise 2.0: User: costCenter	String					
umietfparams scim schemas extension enterprise 2.0. User organization	String					
urn/etf:params.scim.schemas:extension:enterprise:2.0.User:division	String					
urn/etf.params.scim.schemas:extension:enterprise:2.0.User.department	String					
um/etfparams.scim.schemas.oracle.idcs:extension.user.User.bypassNotification	Boolean					
umiett params scim schemas oracle idcs extension user User is Federated User	Boolean					
urnietf params scim schemas idcs: extension custom: User: OC_UserEmployeeNo	String					
urniett params scim schemas idcs: extension custom: User: OC_UserOwnerCode	String					
um:ietf.params.scim.schemas.idcs:extension:custom:User:OC_PrimaryWorkLocation	String	~ 🗆			0 selected	~ 🗐
unvietf.params.scim.schemas.idcs:extension:custom:User:OC_UserType	String					
	String	~ 🗆			0 selected	

3. Save the mapping.

#### **Group Attribute Mapping**

- **1.** On the Provisioning page, click **Mappings**.
- 2. Under Mappings, click **Provision Azure Active Directory Groups**. Refer to the below table to update and add the mappings for Group attributes.

Table 2-2 Group Attribute Mappings

Azure AD Attribute	IAM Domain Group Attribute Name	Mapping Type	Value	Description	Mandatory Attribute
displayName	displayName	Direct	N/A	Group display name	Yes
members	members	Direct	N/A	Members of the group	No
objectId	externalId	Direct	N/A	External Group Id	No
description	urn:ietf:param s:scim:schema s:oracle:idcs:e xtension:grou p:Group:descri ption	Direct	N/A	Group description	No



#### Group Attribute Mapping in Azure AD

Attribute Mappings			
Attribute mappings define how attributes are synchronized between Azure Active Directory and OracleIDCS			
Azure Active Directory Attribute	OracleIDCS Attribute	Matching precedence	Remove
displayName	displayName	1	Delete
members	members		Delete
objectId	externalld		Delete
description	undet f: params: scim: schemas: oracle: idcs: extension: group: Group: description and the science of the sci		Delete
Add New Manales			

Follow the below steps to add the IDCS Group Description attribute.

- 1. Under Provisioning, select Mappings and then select Provision Azure Active Directory Groups.
- 2. Select the **Show advanced options** check box at the bottom of the Attribute Mapping screen and then select **Edit attribute list for OracleIDCS**.
- 3. Add the attribute.
- 4. Save the mapping.
- 5. Navigate to **Provision Azure Active Directory Groups** and add the mapping for the Group description and save the changes.
- 6. Select Provisioning from the left menu and set the Provisioning Status to "On."

0 Overview	
D Provision on demand	Provisioning Mode
Hannan	Automatic
Provisioning	Use Azure AD to manage the creation and synchronization of user accounts in OCIM based on user and group assignment.
Users and groups	
Expression builder	✓ Admin Credentials
Monitor	
Provisioning logs	V Mappings
Audit logs	
Insights	✓ Settings
Troubleshoot	Provisioning Status 🕕
New support request	Ch Off

7. Save the changes.

# 5. Assign Users and Groups to the Microsoft Azure AD Application

Assign the users you want to provision to OCI IAM.

- **1.** In Azure AD, in the left menu, click **Enterprise applications**.
- 2. Click the application you created earlier, Oracle Cloud Infrastructure Console.
- 3. In the left menu under Manage, click Users and groups.



- 4. In the Users and groups page, click Add user/group.
- 5. On the Add Assignment page, under Users and groups, click **None Selected**. The Users and groups page opens.
- 6. Select one or more users or groups from the list by clicking them. The ones you select are listed under Selected items.



7. Click **Select**. The number of users and groups selected are shown on the Add Assignment page.



 On the Add Assignment page, click Assign. The Users and groups page now shows the users and groups you have chosen.



CCI IAM Users and	d groups				
~ ^	+ Add user/group   🖉 Edit as	ssignment 📋 Remove 🖉 Update credentials 🕴 🗮 Columns	🔗 Got feedback?		
Uverview Overview	-				
Deployment Plan	The application will appear for ass	igned users within My Apps. Set 'visible to users?' to no in properties to preven	t this. $\rightarrow$		
X Diagnose and solve problems	Assign users and groups to app-roles for your application here. To create new app-roles for this application, use the application registration.				
Manage					
Properties	First 200 shown, to search all user	rs & gr			
A Owners	Display Name	Object Type	Role assigned		
👃 Roles and administrators	AG	Group	User		
Users and groups		User	User		
Single sign-on		User	User		
Provisioning					

**9.** Click **Provisioning** in the left menu to provision the groups and users. The provisioning log shows the status.



**10.** When provisioning is successful, the **Current cycle status** indicates that the incremental cycle has completed, and the number of users provisioned to OCI IAM appears.

Start provisioning Stop provisioning	$\ref{eq:constraint}$ Restart provisioning $\ref{eq:constraint}$ Edit provisioning $\ref{eq:constraint}$ Provision on demand
Current cycle status	Statistics to date
Initial cycle completed. 100% complet	<ul> <li>View provisioning details</li> <li>View technical information</li> </ul>
Users Groups <b>3</b> View provisioning logs	
Manage provisioning Update credentials Edit attribute mappings Add scoping filters Provision on demand	

In OCI IAM, you can now see the users and groups provisioned from Azure AD.



		e, or email address	name, last name, or ema	Search by user name, first name, last	Q
					1000
		•	ate user More actions -	Creat	
Created -	Last access	Status Email		Username	n I
Created	Last access	Status Email		Username	
Creat	Last access	Status Email		Username	

### Note

OC\_PrimaryWorkLocation is a custom attribute in OCI IAM Domain. Due to an issue in Microsoft Azure, this does not get synced from Microsoft Azure to Oracle via the provisioning connector in Microsoft Entra. As a work around, we are having the custom attribute sync carried out by JIT attribute mapping as part of the Federation configuration. This custom attribute is updated in OCI IAM Domain at the time of the user's first login to OPERA Cloud.

