Oracle Cloud Infrastructure
Okta Configuration for Federation and Provisioning

For Tenancies in Regions That Do Not Use Identity Domains

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Revision History

The following revisions have been made to this document since its initial publication.

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Overview
This document describes the steps required to configure Oracle Cloud Infrastructure (OCI) for federation and provisioning with Okta. Provisioning allows you to add API keys and other OCI credentials for your federated users. Okta is a fully supported identity provider (IdP) for OCI because it supports SAML 2.0.

**Note:** This document is applicable to tenancies in regions that have not been updated to use identity domains.

Audience
This document is intended for the following audiences:

- Customers who want to evaluate OCI and use Okta as the identity provider to authenticate with the Oracle Cloud Console
- Consultants and solutions architects who want to demonstrate OCI functionality in a customer environment

Supported Features
Oracle Cloud Infrastructure (OCI) supports the following provisioning features:

- Create users: New or existing users in Okta are pushed to OCI and displayed in the Oracle Cloud Console as federated users.
- Deactivate users: Users deactivated in Okta are automatically deactivated in OCI.
- Push groups: Okta groups can be mapped to groups in OCI.

The following features are not supported in OCI:

- Import users
- Import groups
- Sync password
- Update user attributes

Requirements
Before you begin the process, ensure that you meet the following prerequisites:

- You have an Okta account in which you can create an Okta application. Either an enterprise account or a developer account is acceptable.
- You have an OCI tenancy with at least one administrative user and at least one group set up.
- In Okta, we recommend setting up groups for OCI access with an easily recognizable prefix, such as OCIAdmins or OCIUsers. Also, have users in each of the groups that you created.
- You’re familiar with the general concepts of identity federation.
Configuration Steps

1. Log in to your Okta account.

2. Click **Add Application**, search for “Oracle Cloud Infrastructure,” and click **Add**.

3. On the **General** tab, enter an application label that makes sense to you, such as “Oracle Cloud Infrastructure,” as shown in the following screenshot. You can ignore the **Region** and **Cloud Tenant** fields. Click **Next**.
4. On the **Sign On** tab, click **Edit**. Then, click **View Setup Instructions** to see detailed instructions for completing the SAML setup. Follow the instructions.

5. Use the default values for the rest of the settings on the **General**, **Sign On**, and **Import** tabs.

6. Click the **Provisioning** tab, and then click **Configure API Integration**.

7. Select **Enable API Integration**.

8. To complete the API Integration settings, get the SCIM base URL and credentials (username and password).
   - The SCIM base URL follows the convention, `https://scim.<OCI-home-region-name>.oci.oraclecloud.com/v2`, where `<OCI-home-region-name>` is the same as the region name obtained in step 4 for the ACS location URL. For example, if the ACS location URL is `https://auth.us-ashburn-1.oraclecloud.com/v1/saml/ocid1.tenancy.oc1..aaaaaakdjsk...`, the region name is `us-ashburn-1`. So, the SCIM base URL is `https://scim.us-ashburn-1.oci.oraclecloud.com/v2`.
   - The username and password are the client ID and secret from the OCI setup. Get them as follows:
     - A. In the Oracle Cloud Console, open the navigation menu. Under **Governance and Administration**, go to **Identity** and then click **Federation**. Click the name that you assigned to your Okta federation to see the details page.
     - B. Click **Reset Credentials**, as shown in the following screenshot, to display the credentials. Copy the client ID and secret.
9. In the **API Integration** settings in Okta, enter the SCIM base URL, enter the client ID in the **Username** text box, and enter the secret in the **Password** text box.

![API Integration Settings](image)

10. Click **Test API Credentials** to ensure that the credentials are correct. You know that it works if you see a successful confirmation message (as shown in the preceding screenshot).

11. Click **Save**.

12. After you complete the previous step, the **To App** and **To Okta** configurations are created under **Settings**. In the **Provisioning to App** settings, enable **Create Users** and **Deactivate Users**.
13. On the **Assignments** tab, assign this app to groups or to individuals that you want to be able to log in to OCI, as shown in the following screenshot.

**Known Issues and Troubleshooting**

- You don’t see a list of Okta groups in the OCI group mapping dialog box unless you manually push that group to OCI. For more information, see the Okta help topic [Using Group Push](#).
- When the group push is done, the group doesn’t readily appear in the Oracle Cloud Console. Manually map the group to an OCI group by clicking **Edit Mappings**.
- When a user is deactivated in Okta, the user continues to exist in OCI but can’t use the Okta credentials.
- When pushing a group, OCI doesn’t support linking existing groups that were created in Oracle Cloud Infrastructure to groups created in Okta.
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