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Cloud Infrastructure

Oracle Cloud Infrastructure Okta Configuration for Federation and Provisioning

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Overview

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

Audience

This document is intended for the following audiences:

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

Supported Features

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

- Create Users: New or existing users in Okta will be pushed to OCI and displayed in the OCI Console as federated users.
- Deactivate Users: Users deactivated in Okta will be 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

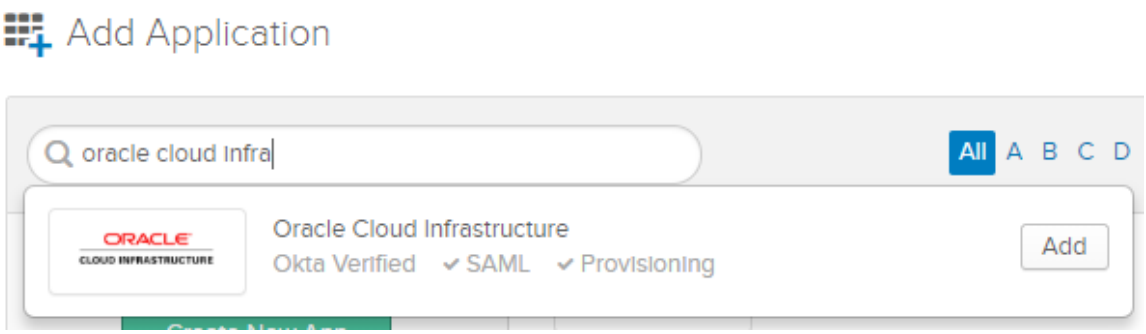
Requirements

Before you begin the process, ensure that you have met the following prerequisites:

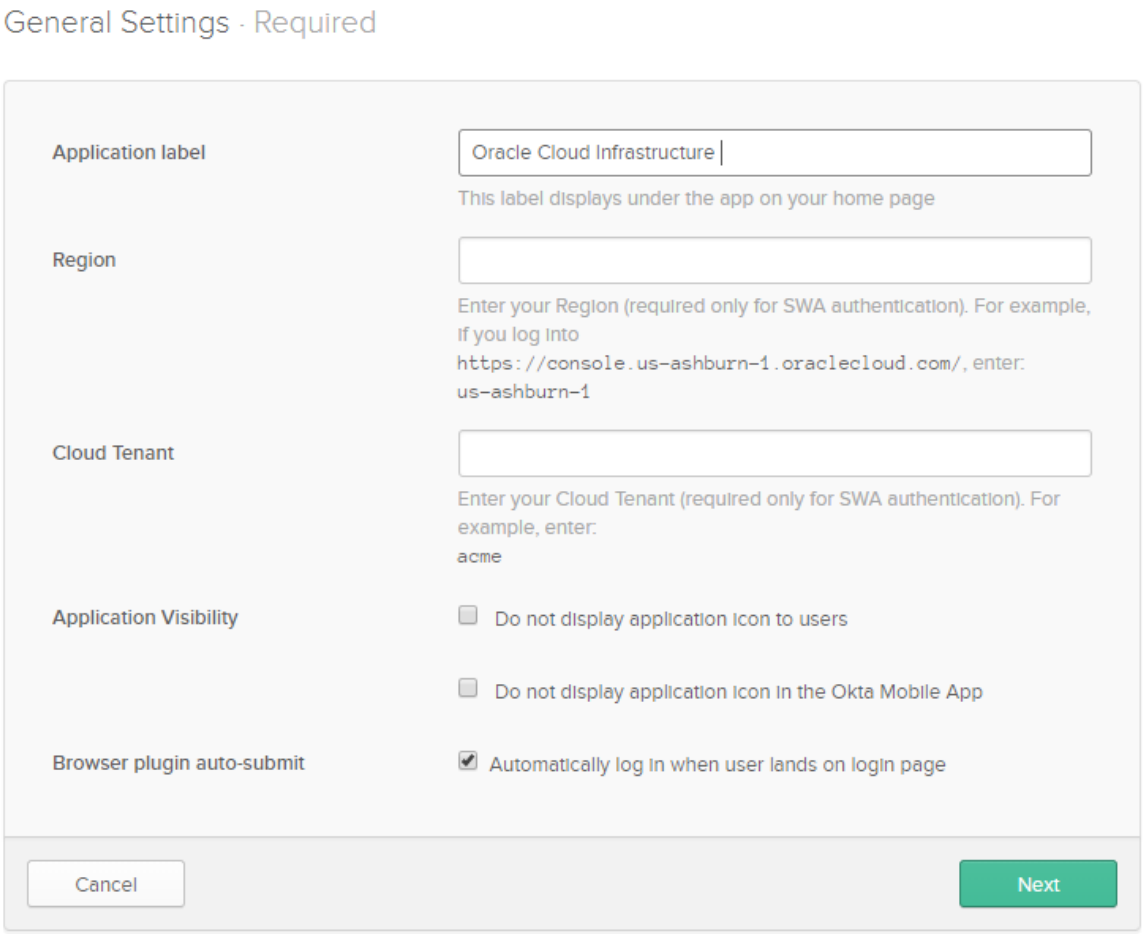
- You have an Okta account in which you can create an Okta application. Either an Enterprise account or a Developer account is acceptable.
- You have an Oracle Cloud Infrastructure tenancy with at least one administrative user and at least one group set up.
- In Okta, we recommend setting up groups for Oracle Cloud Infrastructure access with an easily recognizable prefix, such as OCIAdmins or OCIUsers. You should also have users in each of the groups that you created.
- You are familiar with the general concepts of identity federation.

Configuration Steps (Step-by-Step)

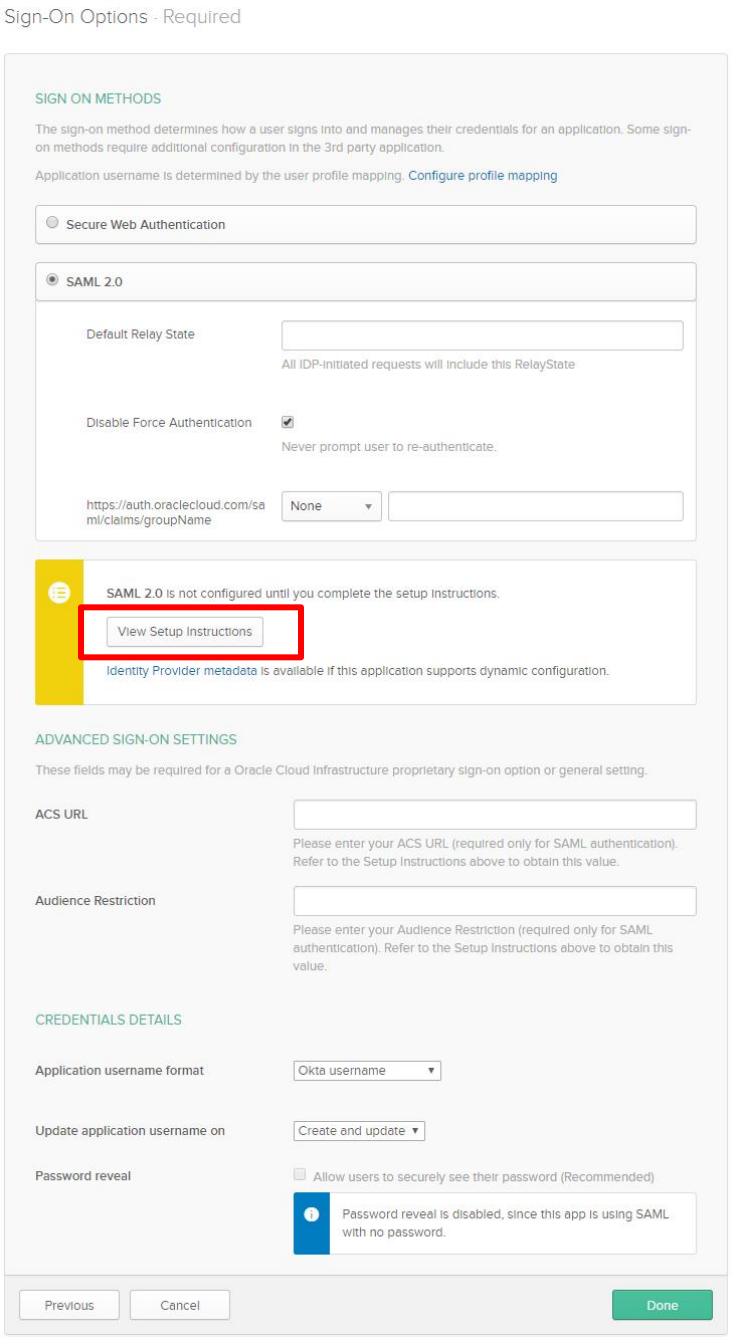
1. Log in to your Okta account.
2. Click **Add Application**. Search for “Oracle Cloud Infrastructure” and click **Add**.



3. Enter an application label that makes sense to you, such as “Oracle Cloud Infrastructure”, as shown in the following screenshot. You can ignore **Region** and **Cloud Tenant** fields. Click **Next**.



4. Click the **Sign On** tab and then click the **Edit** button. Click **View Setup Instructions** to see detailed instructions to complete the SAML setup. Follow the setup instructions. (These instructions can also be found here.)



5. Keep the default settings in the **General** tab, the **Sign On** tab and the **Import** tab.

6. Click **Provisioning** and then click **Configure API Integration**. Select **Enable API Integration**.

   To complete the **API Integration** settings, you'll need to enter the SCIM base URL and credentials (username and password). Get these as follows:

   The SCIM base URL follows the convention:

   https://<OCI-region-name>.scim.oci.oraclecloud.com/v2

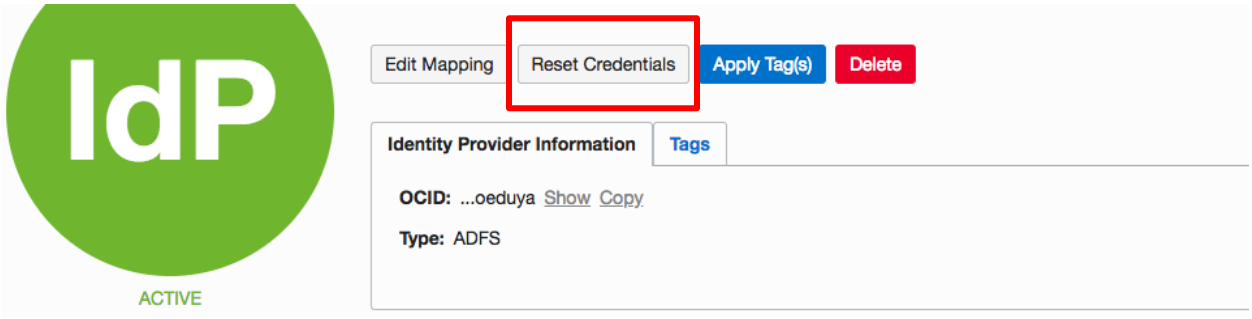
   where the <OCI-region-name> is the same as the region name obtained in Step 4 for the ACS location URL. For example, if the ACS location URL is

   https://auth.**us-ashburn-1**.oraclecloud.com/v1/saml/ocid1.tenancy.oc1..aaaaaakdjsk...

   The region name is: us-ashburn-1

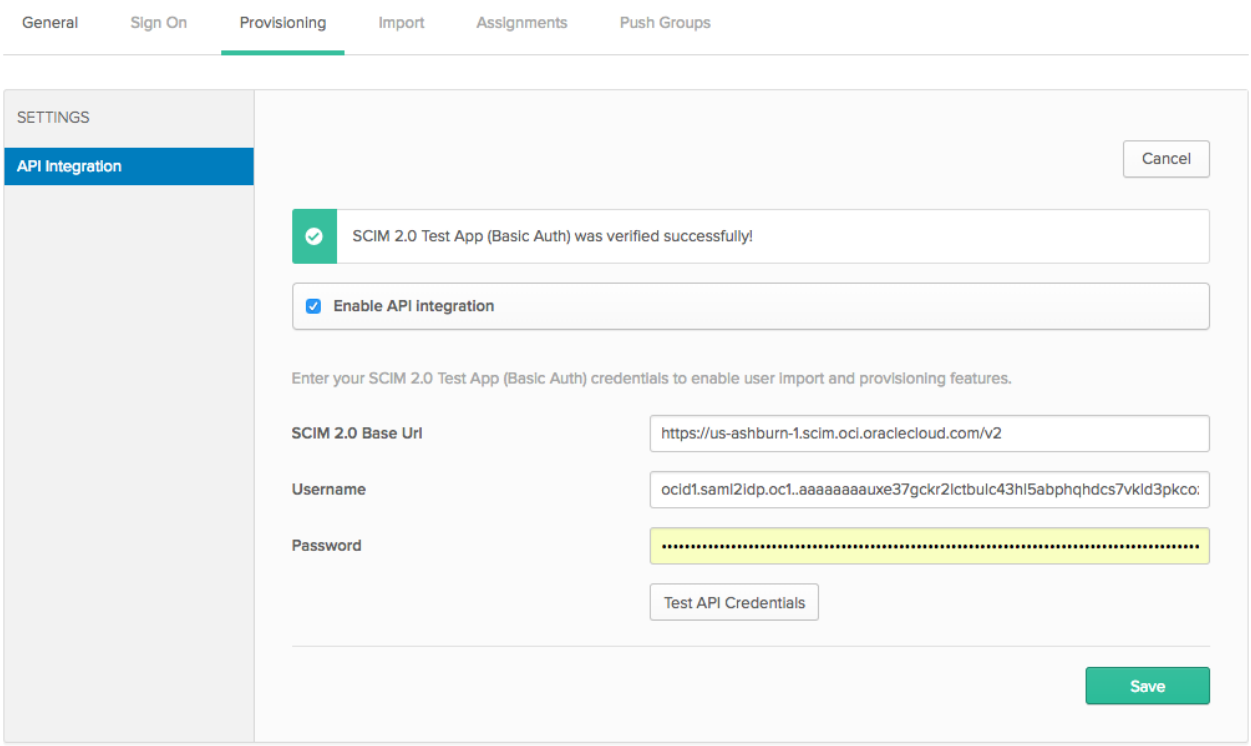
   The username and password are the Client ID and Secret from the Oracle Cloud Infrastructure setup:

   - Go to the Federation details page in the OCI Console, where you set up your Okta federation: Open the navigation menu, under **Governance and Administration**, go to **Identity** and click **Federation**. Click the name you assigned to your Okta federation to see the details page.
   - Click **Reset Credentials** as shown in the following screenshot to display the credentials. Copy the Client ID and Secret.

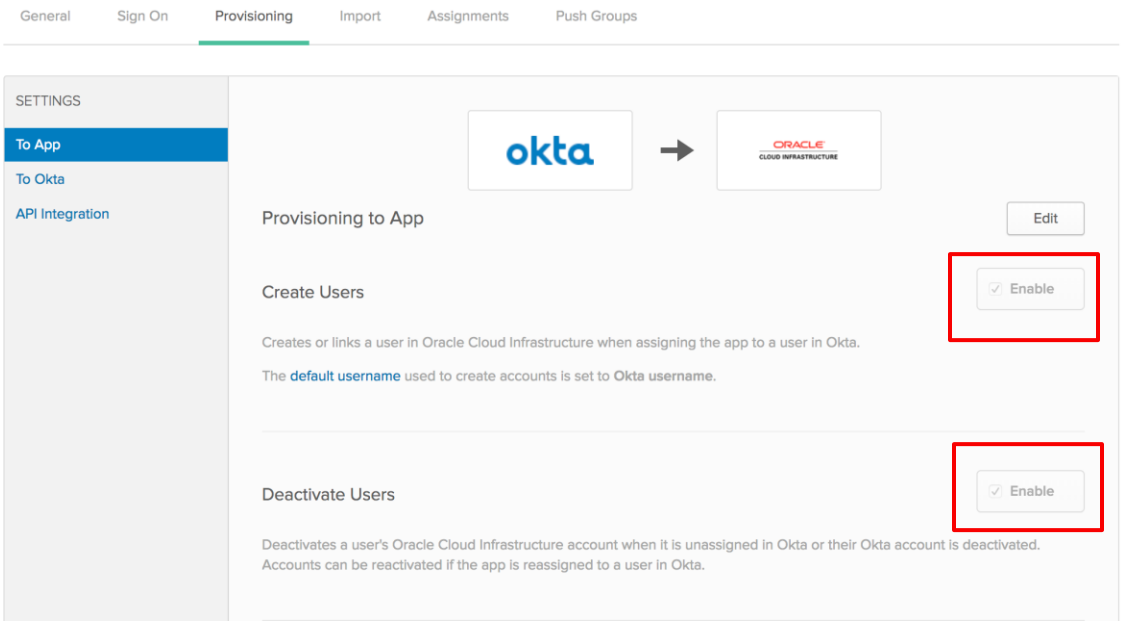


7. In the **API Integration** settings (in Okta), enter the Client ID into the **Username** text box. Enter the Secret into the **Password** text box.

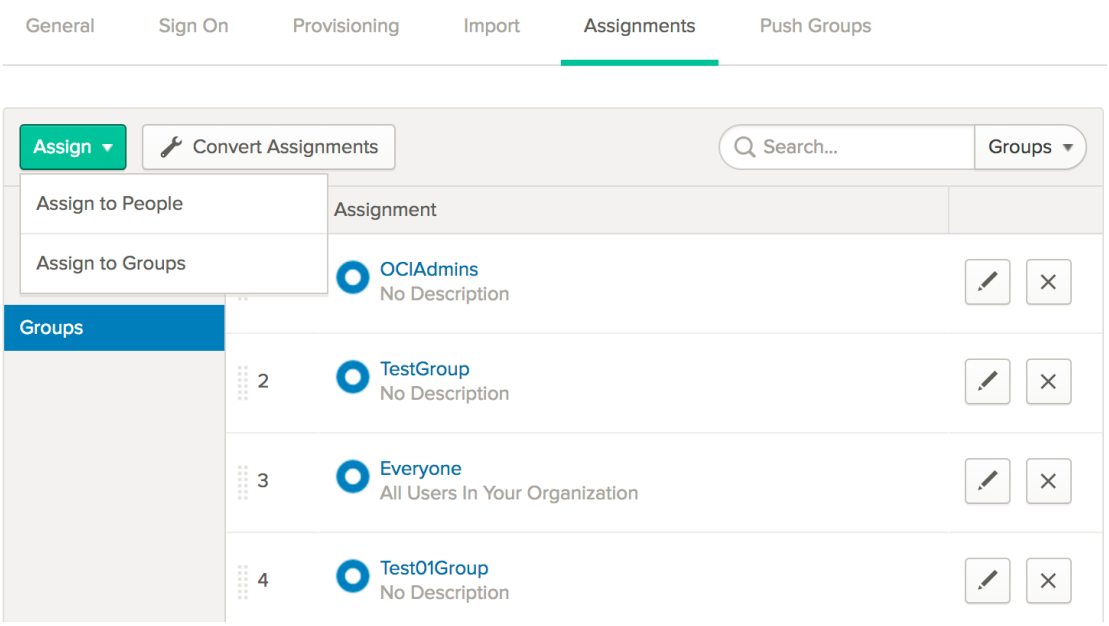
8. Click **Test API Credentials** to make sure the credentials are correct. You'll know it worked if you see a successful confirmation message. Click **Save**.



9. 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 enable **Deactivate Users**.



10. Click the **Assignments** tab. You must assign this app to Groups or to individuals (People) that you want to be able to log in to Oracle Cloud Infrastructure, as shown in the next screenshot.



Known Issues/Troubleshooting

- You won'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.
- Once the group push is done, the group does not readily appear in the Oracle Cloud Infrastructure console. You must 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, Oracle Cloud Infrastructure does not support linking existing groups that were created in Oracle Cloud Infrastructure to groups created in Okta.

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Integrated Cloud Applications & Platform Services

Federating Okta and Oracle Cloud Infrastructure
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