Oracle® Cloud

Create Users in OCI Identity and Access Management for Persons in PeopleSoft

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Preface

This document describes how to install, configure, and run this recipe in Oracle Integration 3.

Topics:

Documentation Accessibility

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Resources

For more information, see these Oracle resources:

- Oracle Integration documentation on the Oracle Help Center.
- Oracle Cloud at http://cloud.oracle.com.

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.

Convention	Meaning
italic	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.

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About This Recipe

Use this recipe to create a user in Oracle Cloud Infrastructure (OCI) Identity and Access Management when a person is added in PeopleSoft.

> **Note:**
>
> Oracle provides this recipe as a sample only. The recipe is meant only for guidance, and is not warranted to be error-free. No support is provided for this recipe.

Overview

This recipe creates corresponding users in OCI Identity and Access Management for persons added in PeopleSoft.

To use the recipe, you must install the recipe and configure the connections and other resources within it. When a new person is added in PeopleSoft, the integration flow of the recipe gets triggered and it subsequently creates a corresponding user in OCI Identity and Access Management. Thus user account data is synchronized between PeopleSoft and OCI Identity and Access Management.

System and Access Requirements

- Oracle Integration 3
- PeopleSoft
- An account on PeopleSoft with the Administrator role
- OCI Identity and Access Management
- An account on OCI Identity and Access Management with the Administrator role

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Before You Install the Recipe

To successfully connect to PeopleSoft using Oracle Integration and synchronize user accounts between PeopleSoft and OCI Identity and Access Management, you must perform certain configuration tasks on your PeopleSoft instance.

1. Define integration gateways and load connectors.
    a. Configure gateway URL and activate domain.
        i. Go to **PeopleTools > Integration Broker > Configuration > Integration Gateways**.
        ii. Leave the default gatway URL as is or enter the one you want to use.
        iii. Click **Ping Gateway**.
        Ensure that a message displays that the gateway is active.
        iv. To process asynchronous messages, one application server domain must be active. In the Integration Broker Domains pane, activate the appropriate domain you want to use.
        v. Click **Save**.
    b. Load gateway connectors.
        i. Go to **PeopleTools > Integration Broker > Configuration > Integration Gateways**.
        ii. Search the existing gateways. If no gateway satisfies your search criteria, click the **Add A New Value** link.
        iii. In the **Integration Gateway ID** field, enter the integration gateway ID, for example: `IAM_LOCAL`, and click **Add**.
        iv. Select the **Local Gateway** check box, and in the **URL** field enter the gateway URL that you configured in the previous step.
        v. Click **Load Gateway Connectors**. All loaded gateway connectors are displayed in the **Connectors** area.
        vi. Click **Save** to save the gateway information.
2. Configure integration gateway properties.
    a. Go to **PeopleTools > Integration Broker > Configuration > Integration Gateways**.
    b. Search the gateway you defined in step 1b.
    c. Open the gateway and click the **Gateways Setup Properties** link next to the integration gateway URL field.
    d. In the displayed Gateway Properties Sign-in page, enter **User ID** and **Password**, and click **OK**.
    e. In the displayed PeopleSoft Node Configuration page, click the **Advanced Properties Page** link.
    f. Configure gateway properties in the displayed editor.

        The following integration gateway properties have to be configured:

Delivered Connector Configuration

- `ig.isc.serverURL=PeopleSoft_server_name:port ig.isc.userid=username ig.isc.password=password ig.isc.toolsRel=PeopleTools_version`
- Use the supplied Password Encryption Utility to generate an encrypted password for `ig.isc.password`.

g. Click **OK** to save the properties.

h. Click **Save** to save the integration gateway configuration.

3. Set up integration.

a. Define nodes.

Nodes represent any organization, application or system that will play a part in integrations. For example, nodes can represent customers, business units, suppliers, other trading partners, external or third-party software systems, and so on.

i. Go to **PeopleTools > Integration Broker > Integration Setup > Node Definitions**.

ii. Search the existing nodes. If no node satisfies your search criteria, click the **Add A New Value** link. Enter **Node Name** and click **Add**.

iii. Click the **Node Definitions** tab to define the node:

- In the **Description** field, enter a description.
- From the **Node Type** drop-down field, select **PIA**.
- Enter **Default User ID**.
- Select the **Active Node** checkbox.

iv. Click the **Connectors** tab and define the connectors.

- Specify **Gateway ID** or click the button to look up the Gateway ID you defined in step 1b.
- Specify **Connector ID** or click the button to look up the Connector ID you defined in step 1b.
  The connector properties are loaded as shown in the following table.

Field	Action/Description
HEADER	**Property Name**: sendUncompressed **Required**: Enable this option. **Value**: Y **Data Type**: STRING **Description**: A descriptive text entry is optional.
HEADER	**Property Name**: Content-Type **Value**: text/xml **Data Type**: STRING **Description**: A descriptive text entry is optional.
HTTPPROPERTY	**Property Name**: Method **Required**: Enable this option. **Value**: POST **Data Type**: STRING **Description**: A descriptive text entry is optional.

Field	Action/Description
PRIMARYURL	**Property Name**: URL **Required**: Enable this option. **Value**: The URL that points to the integration server. For example: `https://IntegrationServer_Host:Port/ic/api/integration/v2/flows/rest/project/ORCL-R-PEOPLESOFT_IAM_USER_SYNC/PEOPLESOFT-IAM-USER-SYNC/1.0/persondetails` **Data Type**: STRING **Description**: A descriptive text entry is optional.
HEADER	**Property Name**: Authorization **Required**: Enable this option. **Value**: The user name and password used as authorization to start the integration server. Use the following format, along with the encoding flow service listed below, to encode the user name and password: `"Basic" (+ Base64Encode service using username + ":" + password)` To encode the username and password, use the following utility flow service: `wm.adapter.peoplesoft.outbound.utils.encoding` where the input for the encoding service is a string constructed from the username and password, as follows: `"username"+":"+"password"`. For example, if the username is `"name"` and the password is `"pwd"`, the input for the encoding service would be `"name:pwd"`. The result of encoding flow service for these values would be `"bmFtZTpwd2Q"`. Thus, the value of the **Authorization** field would be `"Basic bmFtZTpwd2Q"`. **Data Type**: Leave this field blank. **Description**: A descriptive text entry is optional.

- Click **Ping Node**. Ensure the result is success.
- Click **Return**.
- Click **Save**.

The specified node is created.

b. Define messages.

Message definitions provide the physical description of the data that is being sent, including fields, field types, and field lengths.

i. Go to **PeopleTools > Integration Broker > Integration Setup > Message Definitions**.

ii. Search the existing messages. If no message satisfies your search criteria, click the **Add A New Value** link.

iii. In the Add New Message window:

- From the **Type** drop-down list, select **Rowset**.
- In the **Message Name** field, enter a name for the message. For example: `COUNTRY_SYNC`.
- In the Message Version field, enter the version. For example: `VERSION_1`

- Click **Add**.

iv. Click the **Message Definition** tab and define the message.

- Enter the message's description in the **Description** field.
- From the **Owner ID** dop-down list, select **Enterprise Components**.
- Click the **Add Record To Root** link to add a level 0 record to the root node.
- Click the record link, you can also add more records to the level 0 record or its child records.
- Click **Save**.

The specified message is created.

c. Define message queues.

A message queue isolates different groups of service operations from each other. It needs to be created exclusively to handle messages meant for the plug-in. You can also choose an existing message queue. If a message does not exist for a record from which data is to be exported, it needs to be created. Modifications to the existing messages might be required.

d. Define services.

PeopleSoft Integration Broker enables you to take an existing component interface and create a service which can be used to invoke the component interface.

i. Go to **PeopleTools > Integration Broker > Integration Setup > Service Definitions**.

ii. Search the existing services. If no service satisfies your search criteria, click the **Add A New Value** link.

iii. Enter the service name, and then click the **Add** button.

iv. In the Services window, fill in the service information.

- Enter a description for the service in the **Description** field.
- From the **Object Owner ID** drop-down field, select **Enterprise Components**.
- In the Service Operations area, define the service operation. Enter the **Service Operation**, select the type of operation from the **Operation Type** drop-down list, and then click **Add**.
  To define service operation, follow step 3e.

v. Click **Save**.

The specified service is created.

e. Define service operations.

A service operation definition consists of general information about an operation, such as its name, description, and so on. It also specifies an operation type, which determines how the operation is to be processed, synchronously or asynchronously. In addition, it contains routings which determine the direction, inbound or outbound, of the service operation. A service operation has one or more handlers, which contain and run the programming logic for sending or receiving the message, manipulating message content, and other functions.

With Integration Broker (IB), you can define and customize service operations. The steps to define a service operation are the same for all IB activities. However, based on the IB activity to be used, you need to select the appropriate operation type from the following:

Asynchronous - One Way: for IBRequest Activity.

To define a service operation:

i. Go to **PeopleTools > Integration Broker > Integration Setup > Service Operation Definitions**.

ii. Search the existing service operations. If no service operation satisfies your search criteria, click the **Add A New Value** link.

iii. In the Add New Service Operation pane, enter the following details:

- Specify the service or click the button to look up the service you defined in step 3d.
- Specify the **Service Operation** name.
- Select the appropriate **Operation Type** from the drop-down list.
- Click **Add**.

iv. Click the **General** tab and enter the following details:

- Enter **Operation Definition**.
- From the **Object Owner ID** drop-down list, select **Enterprise Components**.
- Enter **Version**.
- Select the **Active** checkbox.
- Specify **Message.Version** or click the button to look up the message you defined in step 3b.
- Specify **Queue Name** or click the button to look up the message queue you defined in step 3c.

v. Click the **Routings** tab. Enter **Routing Name** and click **Add**.

vi. Define the routing by following step 3f.

vii. To choose the routing you defined and want to use, select the **Selected** check box.

viii. Click **Save**.

The specified service operation is created.

f. Define routings.

Routing definitions determine the sender and receiver of an integration. With routing definitions, you can specify inbound and outbound transformations that enable you to transform data structures into those that the sending or receiving systems can understand.

With Integration Broker, you can define and customize routings. The steps to define a routing are the same for all IB activities. However, based on the IB activity to be used, you need to select the appropriate sender node and receiver node.

To define a routing:

i. Go to **PeopleTools > Integration Broker > Integration Setup > Routing Definitions**.

ii. Search the existing routings. If no routing satisfies your search criteria, click the **Add A New Value** link.

iii. Enter **Routing Name** and click **Add**.

iv. Click the **Routing Definitions** tab and define the routing:

- Specify **Service Operation** or click the button to look up the service you defined in step 3e.
- Enter **Version**.
- Enter **Description**.
- Specify **Sender Node** or click the button to look up the node you defined in step 3a.
- Specify Receiver Node or click the button to look up the node you defined in step 3a.
- From the **Object Owner ID** drop-down list, select **PeopleTools**.

v. Click the **Connector Properties** tab and enter the following information:

- Specify **Gateway ID** or click the button to look up the gateway you defined in step 1.
- Specify **Connector ID** or click the button to look up the connector you defined in step 2.

vi. Click **Save**.

The specified routing is created.

> **Note:**
>
> You can get the schema payload from PeopleSoft Person Node. It should be similar to the XML payload in the following file: PersonBasicSync.xml. Ensure that the XML payload matches with the Oracle Integration REST Trigger request.

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Install and Configure the Recipe

On your Oracle Integration instance, install the recipe to deploy and configure the integration and associated resources.

1. On the Oracle Integration Home page, in the **Get started** section, click **Browse store**.
2. Find the recipe you want to install, then click **Get**.

   A message confirms that the recipe was successfully installed, and the recipe card shows **In use**.

3. Click **Configure**  on the recipe to configure its resources.

   The project workspace opens, displaying all the resources of the recipe. Configure the following resources before you activate and run the recipe.

Configure the IAM REST Connection

1. In the Connections section, click the connection name.
2. In the Properties section, enter the following details:

Field	Information to Enter
Connection type	Select **REST API Base URL**.
Connection URL	Specify the endpoint URL to use. For example: `https://idcs-825cxxxxxxxx.identity.oraclecloud.com:443`

3. In the Security section, enter the following details:

Field	Information to Enter
Security Policy	Select **OAuth Client Credentials**.
Access Token URI	Enter the URL from which to obtain the access token.
Client Id	The client identifier issued to the client during the registration process.
Client Secret	Enter the client secret.
Scope	Enter the scope of the access request. For example: `urn:opc:idm:__myscopes__`
Auth Request Media Type	Enter the format of the data you want to receive. For example: `application/x-www-form-urlencoded`
Client Authentication	Send client credentials as basic auth header: Pass the client ID and client secret in the header as basic authentication.

4. Click **Save**. If prompted, click **Save** again.
5. Click **Test** to ensure that your connection is successfully configured. In the resulting dialog, click **Test** again.

A message confirms if your test is successful.

6. To return to the project workspace, click **Go back**  .

Configure the REST Trigger Connection

1. In the Connections section, click the connection name.
2. Click **Test** to ensure that your connection is successfully configured. In the resulting dialog, click **Test** again.

   A message confirms if your test is successful.
3. Click **Save**. If prompted, click **Save** again.
4. To return to the project workspace, click **Go back**  .

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Activate and Run the Recipe

After you've configured the connections and other resources, you can activate and run the recipe.

1. In the project workspace, click **Activate**. In the Activate project panel, with the default project deployment selected, choose an appropriate tracing option, then click **Activate**.

   A message confirms that the integration has been activated. Refresh the page to view the updated status of the integration.

2. Run the recipe.

   To run the recipe, log in to your PeopleSoft instance and add a person. This triggers the **Oracle PeopleSoft IAM User Sync** integration flow, and the integration now creates a corresponding user in OCI Identity and Access Management.

3. Monitor the running of the integration flow in Oracle Integration.

   a. In the project workspace, click **Observe**. You'll see the integration flow being triggered and running successfully.

   b. To manage errors in your project, see Manage Errors in a Project.

4. In OCI Identity and Access Management, check if a new user corresponding to the person added in PeopleSoft has been created.

Related Documentation

- *Using the REST Adapter with Oracle Integration 3*
- *Integrating Person Data (PeopleSoft)*
- *OCI Identity and Access Management documentation*