Oracle® Cloud

Export Employee Images from Oracle HCM Cloud to an FTP Server

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Preface

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

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Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at `http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc`.

Access to Oracle Support

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Diversity and Inclusion

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 in the Oracle Cloud Library 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 export employee images from Oracle HCM Cloud to an FTP server.

> ✏ **Note:**
>
> This recipe is available as **Oracle HCM Cloud — FTP Server | Export Images** in the Integration Store. 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 extracts employee images from Oracle HCM Cloud and exports them to an FTP server.

To use the recipe, you must install the recipe and configure the connections and other resources within it. Subsequently, you can activate and run the integration flow of the recipe manually or specify an execution schedule for it. When an employee image is added or updated in Oracle HCM Cloud, the recipe exports it to an FTP server. Further, when an employee image is deleted from Oracle HCM Cloud, the recipe generates a CSV file with the employee number and ID.

When the integration flow of the recipe is triggered, the following happens:

- The integration flow calls an Oracle HCM custom Enterprise Scheduler (ESS) job using the export bulk data option of the Oracle ERP Cloud adapter.

- The custom ESS job extracts employee image changes incrementally from Oracle HCM Cloud. That is, it extracts all records from last successful run of the ESS job. Subsequently, the ESS job exports the employee images as XML files to an FTP server.

- Once ESS job's execution is complete, a callback is sent to Oracle Integration.

- The integration flow reads the XML files placed in the FTP server by the ESS job, processes the data, and sends back the images (JPG files) to the FTP server. In case of deleted image files, a CSV file is generated with employee number and ID.

- If an error is detected, a notification email is sent to the email Id specified in the lookup table.

System and Access Requirements

- Oracle Integration, Version 24.02 or higher
- Oracle Fusion SaaS
- An account on Oracle Fusion SaaS with the Administrator role
- A secure FTP (sFTP) server

- An FTP client to access the sFTP server

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Before You Install the Recipe

You must perform the following configuration tasks on your Oracle Fusion SaaS instance, Oracle ERP Cloud, and FTP server in order to successfully connect to these external systems using Oracle Integration and export employee images.

Access Your FTP Server

Obtain an FTP server and ensure that you can access it.

1. Log in to the server using your user name and password through an FTP client; for example, FileZilla.
2. Create a directory on the server to add the XML data files and employee images. Note down the path of the directory.

Configure Oracle ERP Cloud

To access the Oracle ERP Cloud instance from Oracle Integration, you'll require a separate user account on Oracle ERP Cloud.

Log in to your Oracle ERP Cloud instance as an **Administrator** and perform the following tasks.

1. Create a user account for Oracle Integration. Make a note of the user name and password you set for the account. You'll use the credentials of this user account to connect to Oracle ERP Cloud from Oracle Integration.
2. Assign the following roles to the user account. For more information on these roles, see Assign Required Roles to an Integration User.

    • `Integration Specialist`

    • `Oracle ERP Cloud-specific data access to the integration user`

Configure Oracle Fusion SaaS

Complete the following tasks in your Oracle Fusion SaaS instance to successfully connect to it from Oracle Integration and export employee images.

1. Add an FTP server or sFTP server as a delivery channel from the Administration page of Oracle Business Intelligence.

    See Add an FTP or SFTP Server.
2. Enable auditing on **Person Image**. See Auditing Community Development Data.
3. Deploy the custom Business Intelligence Publisher (BIP) Data Model and Business Intelligence Publisher Report. You can download the `EmployeeImageExtract.catalog` file to use in the recipe from BI Publisher catalog.
4. Update **PARAMETER4** of bursting code in BIP Data Model with the folder path that you created in your FTP server.

See Access Your FTP Server.

5. Deploy the custom ESS job. See Creating an Oracle Enterprise Scheduler (ESS) Job.

   Specify the following values for the fields while creating the custom ESS job.

Field	Information to Enter
Display Name	Oracle HCM FTP Extract Employee Images
Name	ExtractEmployeeImages
Path	/ExtractEmployeeImages/
Job Application Name	EarHcmEss
Job Type	BIP job type
Enable Bursting Report	Set this property to enable bursting report.
Report ID	/Custom/Human Capital Management/ EmployeeImageExtract/EmployeeImageExtractReport.xdo

> **Note:**
>
> If you want to customize any of the above-mentioned values, ensure that you make necessary changes in the lookup table and BIP Data Model. Deploy the BIP Report in the path specified in Report ID.

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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 Oracle ERP Cloud Connection (Trigger, Invoke)

1. In the Connections section, click the connection name.

2. In the Properties section, enter the Orcle ERP Cloud host name. For example: `https://your_domain_name.fa.DC.oraclecloud.com`.

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

Field	Information to Enter
Security Policy	Select **Username Password Token**.
Username	Enter the user name of the account created for Oracle Integration on Oracle ERP Cloud. See Configure Oracle ERP Cloud.
Password	Enter the password of the account created for Oracle Integration on Oracle ERP Cloud.

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 Oracle FTP Connection (Trigger, Invoke)

1. In the Connections section, click the connection name.

2. In the Properties section, enter the following details:

Field	Information to Enter
FTP Server Host Name	Enter the host address of your sFTP server.
FTP Server Port	22.
SFTP Connection	Select **Yes** from the list.

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

Field	Information to Enter
Security Policy	Select **FTP Server Access Policy**.
Username	Enter the username to connect to your FTP server.
Password	Enter the password to connect to your FTP server.

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 Lookup Table

Edit the **Oracle HCM FTP Extract Employee Images** lookup table and update the lookup keys with appropriate values.

1. In the Lookups section, click the lookup name.

2. In the lookup table, specify values for the following keys.

Key	Description
IntegrationID	The key to fetch all the remaining values from the lookup. For example: `ORCL-HCM_FTP_EXTRACT_EMP_IMG`
EssJobName	The name of the ESS job defined in the Oracle Fusion SaaS instance. For example: `ExtractEmployeeImages`
EssJobPath	The ESS job path defined in Oracle Fusion SaaS instance. For example: `/company_name/apps/ess/custom/ExtractEmployeeImages/`
OICSFTPIn	The FTP location where the ESS job output files must be stored. Enter the target location's path. For example: `/home/users/In`
OICSFTPOut	The FTP location where the images and CSV files must be stored. Enter the target location's path. For example: `/home/users/Out`
OICSFTPArchive	The FTP location where the processed ESS job task files must be stored. Enter the target location's path. For example: `/home/users/Archive`
OICSFTPError	The FTP location where the error files must be stored. Enter the target location's path. For example: `/home/users/Error`

Key	Description
FilePrefix	The file prefix of the ESS job outputs. For example: `IMAGE_*.*`
FromEmailAddress	Specifies the email address to which the error notifications are sent. Enter an email address of your choice.
ToEmailAddress	Specifies the email address from which the error notifications are sent. Enter an email address of your choice.
EmailSubject	Specifies the subject of the email error notification. For example: `Export Employee Images Status`

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.

   a. In the Integrations section of the project workspace, click **Actions** ••• on the integration flow, then select **Run**.

   b. On the Configure and run page, click **Run**.

   You've now successfully submitted the integration for execution.

   > ✏ **Note:**
   >
   > You can also schedule this integration to run at a date, time, and frequency of your choosing. See Define the Integration Schedule.

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. Log in to your FTP server and check if the employee image files have been exported to the output directory.

Related Documentation

- *Using the Oracle HCM Cloud Adapter with Oracle Integration 3*
- *Using the Oracle ERP Cloud Adapter with Oracle Integration 3*
- *Using the FTP Adapter with Oracle Integration 3*