

Oracle® Cloud

Send Files from Oracle Cloud Infrastructure
(OCI) Object Storage Service to Oracle
Autonomous Transaction Processing (ATP)



F84225-01
July 2023



Oracle Cloud Send Files from Oracle Cloud Infrastructure (OCI) Object Storage Service to Oracle Autonomous Transaction Processing (ATP),

F84225-01

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Primary Author: Oracle Corporation

Contents

1 About This Recipe

Overview	1-1
System and Access Requirements	1-1

2 Before You Install the Recipe

Configure Oracle Database Cloud Service	2-1
Configure Oracle Cloud Infrastructure (OCI) Object Storage Service	2-1
Configure Oracle Cloud Infrastructure (OCI) Notification Service	2-1

3 Install and Configure the Recipe

Configure the Oracle REST Connection	3-1
Configure the Oracle DBaaS Connection	3-2
Update the Integration Properties	3-2

4 Activate and Run the Recipe

Preface

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

Topics:

- [Documentation Accessibility](#)
- [Diversity and Inclusion](#)
- [Related Resources](#)
- [Conventions](#)

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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.
<i>italic</i>	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.

1

About This Recipe

Use this recipe to send files from OCI Object Storage Service to Oracle ATP.



Note:

This recipe is available as **OCI Object Storage Service — Oracle ATP | Send Files** 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 transfers files from OCI Object Storage to Oracle ATP, whenever a file is uploaded in OCI Object Storage.

To use the recipe, you must install the recipe and configure the connections and other resources within the recipe. When a new object(file) is uploaded to a bucket in OCI Object Storage Service, the integration flow is triggered, and it downloads the file from OCI Object Storage. Further, the recipe sends the downloaded file to Oracle ATP as a Binary Large Object (BLOB) attachment.

System and Access Requirements

- Oracle Integration, Version 21.2.1.0.0 (210129.2200.39462), or higher
- Oracle Cloud Infrastructure (OCI) Object Storage Service
- An account on Oracle Cloud Infrastructure (OCI) Object Storage Service with the Administrator role
- Oracle Autonomous Transaction Processing (ATP)
- An account on Oracle Autonomous Transaction Processing (ATP) with the Administrator role

2

Before You Install the Recipe

You must perform the following configuration tasks on your OCI Object Storage Service and Oracle ATP instances in order to successfully connect to these external systems using Oracle Integration and transfer files.

Configure Oracle Database Cloud Service

To access the Oracle Database Cloud Service using Oracle Integration, you must perform certain general configurations on your Oracle Database Cloud Service instance.

See [Prerequisites for Creating a Connection](#).

Also, perform the following tasks to configure Oracle Database Cloud Service for this recipe.

1. Create a schema named `OBJECTSTORE_ATP`. See [Creating Schemas](#).
2. Run the following script to create a table named `FILE_TABLE` under the schema.

```
CREATE TABLE OBJECTSTORE_ATP.FILE_TABLE
(
  FILE_NAME      VARCHAR2 (128),
  CREATION_DATE  DATE,
  FILE_BLOB      BLOB
)
```

Configure Oracle Cloud Infrastructure (OCI) Object Storage Service

To access OCI Object Storage Service instance from Oracle Integration, you must create a bucket and create a set of API signing keys in your OCI Object Storage Service instance. See [How to use the OCI Object Storage from the Oracle Integration Cloud](#).

Also, ensure that the **Emit Object Events** is enabled for the bucket created.

Configure Oracle Cloud Infrastructure (OCI) Notification Service

To configure OCI events and notification services, see [Configuring OCI Events and Notification Services for OCI Data Integration \(OCI-DI\)](#).

Note the following while configuring notification services:

- While creating the subscription, create a HTTPS subscription. In the Create Subscription page, select HTTPS as protocol.
- In the URL field, specify your endpoint URL in the following format: `https://username:password@<host> /ic/api/integration/v2/flows/rest/project/ORCL-R-`

```
STORE_ATP_FILETRANSFER/ORACLE_OBJECTST_ATP_FILETRAN/1.0/  
sendcreateobjectevent
```

Specify the following values while configuring events.

- In the rule conditions section, specify the following values.

Field	Information to Enter
Condition	Select Event Type .
Service Name	Select Object Storage .
Event Type	Select Object – Create .

- In the Attribute(filter) section, specify the following values.

Field	Information to Enter
compartmentName	Enter a desired compartment. This filters events from a specific compartment.
bucketName	Enter a desired Object Storage Bucket. This filters events only in the Bucket from where you want to source files for your OIC flow.
Event Type	Select Object – Create .

- In the Actions section, specify the following values.

Field	Information to Enter
Action Type	Select Notifications .
Notifications Compartment	Enter a desired compartment. This filters notifications from a specific compartment.
Topic	Select the topic created previously.

3

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 **Use a recipe/accelerator** section, click **View all**.
2. Find the recipe you want to install.

3. Hover over the recipe, then click **Install** .

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

4. Hover over the recipe again, and click **Configure**  to configure the resources of the recipe.

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 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	Leave REST API Base URL selected.
Connection URL	Enter the object storage endpoint that matches your location from the <i>API Endpoints</i> list. See Object Storage Service API .

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

Field	Information to Enter
Security Policy	Leave OCI Signature Version 1 selected.
Tenancy OCID	Enter your tenancy OCID. See Finding Your Tenancy OCID (Oracle Cloud Identifier) .
User OCID	Enter your user OCID. See Resource Identifiers .
Private Key	Enter the private key. See <i>How to Generate API Signing Key</i> in Required Keys and OCIDs . Ensure that the key pair is in PEM format. Also, upload public key to the OCI console. See <i>To upload or paste API key</i> in Required Keys and OCIDs .
Finger Print	Enter your finger print. See <i>How to get the Key's Fingerprint</i> in Required Keys and OCIDs .


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 DBaaS Connection

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

Field	Information to Enter
Security Policy	Select Oracle Wallet .
Wallet	Enter the username of your Oracle Wallet. See Configure Oracle Database Cloud Service .
Wallet Password	Enter the password of your Oracle Wallet.
Database Service Username	Enter the username of your database service.
Database Service Password	Enter the password of your database service.

3. Click **Save**. If prompted, click **Save** again.
4. 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.
5. To return to the project workspace, click **Go back** .

Update the Integration Properties

Update the integration properties with appropriate values. The recipe's integration flow contains the following properties:

1. **FromAddress**: This integration property holds the email address from which error notification emails are sent. Enter an email address of your choice.
2. **ToAddress**: This integration property holds the email address to which error notification emails are sent. Enter an email address of your choice.

For the procedure to update the integration properties, see Steps 7 and 8 in *Override Design-Time Properties in an Integration*.

4

Activate and Run the Recipe

After you've configured the connections, 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 do so, upload an object(file) to a bucket in OCI Object Storage Service. See [Uploading Objects to a Bucket or Folder](#).
The Activity Stream pane appears displaying the status of the integration instance's execution.
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. Check if the file has been transferred to Oracle ATP. See [List Contents of Directory in Autonomous Database](#).

Related Documentation

- [Using the REST Adapter with Oracle Integration 3](#)
- [Using the Oracle Database Cloud Service Adapter with Oracle Integration 3](#)
- [Using the Oracle Autonomous Transaction Processing Adapter with Oracle Integration 3](#)