Oracle® Cloud

Copy Objects from OCI Object Storage to Microsoft SharePoint

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Oracle Cloud Copy Objects from OCI Object Storage to Microsoft SharePoint,

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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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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 copy objects from OCI Object Storage to Microsoft SharePoint.

> **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 demonstrates how you can move objects from OCI Object Storage to SharePoint, and then delete the original objects in OCI Object Storage.

To use the recipe, you must install the recipe and configure the connections and other resources within the recipe. When the integration flow of the recipe gets triggered, it copies objects from the specified OCI Object Storage bucket and uploads them to a SharePoint folder. The integration flow of the recipe uses a native action to connect to OCI Object Storage and the REST adapter to connect to SharePoint. SharePoint REST APIs are used to upload objects to SharePoint.

System and Access Requirements

- Oracle Integration 3
- An account on Oracle Cloud Infrastructure with access to create OCI Object Storage bucket
- An account on Microsoft SharePoint with access to upload files to a SharePoint folder

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Before You Install the Recipe

To successfully connect to OCI Object Storage and SharePoint using Oracle Integration and copy OCI Object Storage objects into SharePoint, you must perform certain configuration tasks on your OCI Object Storage and SharePoint instances.

Configure OCI Object Storage

To successfully connect to OCI Object Storage using a native action, create a dynamic group and required policy.

See **Prerequisites** in Invoke Oracle Cloud Infrastructure Object Storage from an Integration with an OCI Object Storage Action.

Additionally, create an OCI Object Storage bucket and upload objects into it. See Creating an Object Storage Bucket and Uploading an Object Storage Object to a Bucket.

Configure SharePoint

To successfully connect to SharePoint and upload OCI Object Storage objects, you must perform certain configurations on SharePoint.

1. Register the SharePoint add-in and get the client Id and secret.
   a. Go to: `https://<sharepoint domain>.sharePoint.com/sites/<sharepoint Site Name>/_layouts/15/appregnew.aspx` by using a web browser.
   b. In the AppRegNew page, enter the following details:

Field	Information to Enter
Title	Enter a title of your choice. For example: `OICAPP`
App Domain	Enter the local hostname.
Redirect URL	Enter the endpoint URL. For example, `https://localhost.com`

   c. Click **Create**.

   You get the client Id and client secret in the resulting window. Note down the client Id and secret. You'll need these while creating a connection to SharePoint from Oracle Integration.

   d. Provide permission to the add-in that you created.
      i. Go to: `https://<sharepoint_domain>.sharepoint.com/sites/<sharepointSiteName>/_layouts/15/appinv.aspx`
      ii. Enter the client Id in the **App Id** field and click the **Lookup** button. The **Title**, **App Domain**, and **Redirect URL** fields will be populated automatically.

iii. Enter the following in the **App's permission Request XML** text area.

```
<AppPermissionRequests AllowAppOnlyPolicy="true">
    <AppPermissionRequest Scope="http://sharepoint/content/
sitecollection/web" Right="FullControl" />
</AppPermissionRequests>
```

iv. Click **Create**.

v. In the resulting window, click **Trust It**.

2. Get the SharePoint tenant Id.

   a. Go to: `https://<sharepoint_domain>.sharepoint.com/_layouts/15/appprincipals.aspx`.

   b. In the **Site Settings>Site Collection App Permissions** page, copy the alphanumeric string after @ in the **App Identifier** value.

      This is the SharePoint tenant Id.

3. Get the SharePoint resource Id.

   a. Enter the following `POST` endpoint in Postman.

      `https://<sharepoint_domain>.sharePoint.com/_vti_bin/client.svc/`

   b. Add the **Bearer** type Authorization header without entering any bearer token and click **Send**.

   c. In Postman, go to the **WWW-Authenticate** response header and copy the value of the client id.

      This is the SharePoint resource 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 SharePoint REST Connection

1. In the Connections section, click the connection name.
2. In the Properties section, enter the **Connection URL**. For example: `https://<sharepoint_domain>.sharepoint.comm`.
3. In the Security section, enter the following details:

Field	Information to Enter
Security Policy	Select **OAuth Custom Two Legged Flow**.
Access Token Request	`-X POST -H "Content-Type: application/x-www-form-urlencoded" -d 'grant_type=client_credentials&client_id=<client_id>@<tenant_id>&client_secret=<client_secret>&resource=<resource_id>/<sharepoint_domain>.sharepoint.com@<tenant_id>' https://accounts.accesscontrol.windows.net/<tenant_id>/tokens/OAuth/2` Replace `client_id`, `client_secret`, `tenant_id` and `resource_id` in the above with respective values for the same that you obtained while configuring SharePoint. See Configure SharePoint.

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 lookup table **Utility_Lookup** and set up appropriate values for the lookup keys as per your requirement.

1. In the Lookups section, click the lookup name.
2. Enter appropriate values for the lookup keys.

Key	Value
SP_Site_Name	Specify the SharePoint site name.
SP_Folder_Name	Specify the SharePoint folder name under which objects are to be uploaded.
OCI_Object_Storage_Bucket_Name	Specify the OCI Object Storage bucket name from which objects are to be imported to SharePoint.

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 **Object Synch from OCI Object Storage to Sharepoint** integration flow, then select **Run**.

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

   You've now successfully submitted the integration for execution. The recipe now copies objects from OCI Object Storage and uploads them to SharePoint. It then deletes the original objects in OCI Object Storage.

   > **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 SharePoint instance and verify that the objects imported from OCI Object Storage are uploaded to the specified SharePoint folder.

Related Documentation

- *Using the REST Adapter with Oracle Integration 3*