

Oracle® Cloud

Create Products in Magento Commerce Cloud and QuickBooks for Oracle ERP Cloud Items



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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](#)

Documentation Accessibility

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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 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
<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.

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About This Recipe

Use this recipe to create products in Magento Commerce Cloud and QuickBooks for Oracle ERP Cloud items through GCP Pub Sub.

Note:

This recipe is available as **Oracle ERP Cloud — Magento Commerce Cloud and QuickBooks | Create Products for Items** in Oracle Integration. 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 a product in Magento Commerce Cloud and QuickBooks for an item created in Oracle ERP Cloud through GCP Pub Sub.

To use the recipe, you must install the recipe and configure the connections and other resources within it. There are three application-driven integration flows in the recipe. The first integration flow is triggered when a new item is created in Oracle ERP Cloud. It fetches the new item and publishes it to GCP Pub Sub. This triggers the second and third integration flows. Subsequently, the second and third integration flow creates a corresponding product in Magento Commerce Cloud and QuickBooks respectively for the Oracle ERP Cloud item.

System and Access Requirements

- Oracle Integration, Version 24.08 or higher
- Oracle ERP Cloud
- An account on Oracle ERP with the Administrator role
- GCP Pub Sub
- An account on GCP Pub Sub with the Administrator role
- Magento Commerce Cloud
- An Integration user on Magento with access to all resources
- QuickBooks
- An account on QuickBooks with the Administrator role

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Before You Install the Recipe

You must perform the following configuration tasks on your Oracle ERP Cloud, GCP Pub Sub, Magento Commerce Cloud and QuickBooks instances in order to successfully connect to these external systems using Oracle Integration and create products for items.

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.

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 GCP Pub Sub

To successfully connect to GCP Pub Sub using Oracle Integration and publish products, you must perform certain general configurations on your GCP Pub Sub instance. See [Prerequisites for Creating a Connection](#).

Also, you must create a topic to store the Oracle ERP Cloud items that are published. See [Create a topic](#).

Configure Magento Commerce Cloud

To access the Magento Commerce Cloud instance from Oracle Integration and create products, you will need to create a user account for Oracle Integration on Magento Commerce Cloud. See [Prerequisites for Creating a Connection](#).

Configure QuickBooks

To access the QuickBooks instance from Oracle Integration and create products, you'll need to create a user account for Oracle Integration on QuickBooks. See [Prerequisites for Creating a Connection](#).

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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 Connection

1. In the Connections section, click the connection name.
2. In the Properties section, enter the Oracle 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 username of the account created for Oracle Integration on the Oracle ERP Cloud instance. See Configure Oracle ERP Cloud .
Password	Enter the password of the account created for Oracle Integration on the Oracle ERP Cloud instance.

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 GCP Pub Sub Connection

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

Field	Information to Enter
Project Id	Enter your GCP Pub Sub project Id. See Configure GCP Pub Sub .
Service Account	Enter GCP Pub Sub service account detail.

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

Field	Information to Enter
Google Client ID	Enter the Google client ID. See Configure GCP Pub Sub .
Google Client Secret	Enter the Google client secret.

4. Click **Provide Consent** to verify the connection properties and get an access token.
5. Click **Save**. If prompted, click **Save** again.
6. 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.

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

Configure the GCP PubSub Trigger Connection

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

Field	Information to Enter
Project Id	Enter your GCP Pub Sub project Id. See Configure GCP Pub Sub .
Service Account	Enter GCP Pub Sub service account detail.

3. In the Security section, enter the **JWT Private Key Alias**. See [Configure GCP Pub Sub](#).
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 QuickBooks Connection

1. In the Connections section, click the connection name.
2. In the Properties section, for QuickBooks Invoke Configuration, select your QuickBooks environment. For example, **SandBox**.
3. In the Security section, enter the following details:

Field	Information to Enter
Client ID	Enter the QuickBooks client Id. See Configure QuickBooks .
Client Secret	Enter the QuickBooks client secret.

4. Click **Provide Consent** to verify the connection properties and get an access token.
5. Click **Save**. If prompted, click **Save** again.
6. 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.
7. To return to the project workspace, click **Go back** .

Configure the Magento Connection

1. In the Connections section, click the connection name.
2. In the Properties section, enter the Magento Commerce Cloud host name.
3. In the Security section, enter the following details:

Field	Information to Enter
Consumer Key	Enter the consumer key value. See Configure Magento Commerce Cloud .
Consumer Secret	Enter the consumer secret value.
Access Token	Enter the access token value.
Access Token Secret	Enter the access token secret value.

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 tables of the recipe with appropriate values.

1. In the Lookups section, click the lookup name.
2. The recipe contains the following two lookup tables.
 - a. **MagentoLookup**: Use this lookup to configure Magento request parameters.

Property	Description	Value
Media Type	Specify the media type of the attachment.	image
Label	Specify the value of the label.	image
Disabled	Specify the value either True or False.	false
Types1	Specify the type of the attachment.	image
Types2	Specify the type of the attachment.	image_small
Types3	Specify the type of the attachment.	thumbnail

- b. **QuickBooksLookup**: Use this lookup to configure the QuickBooks request parameters.

Property	Description	Value
Income Account Ref Val	Specify the income account reference ID.	79
Income Account Ref Name	Specify the income account reference name.	Sales of Product Income
Expense Account Ref Val	Specify the expense account reference ID.	80
Expense Account Ref Name	Specify the expense account reference name.	Cost of Goods Sold
Asset Account Ref Val	Specify the asset account reference ID.	81

3. In the **Value** column of the lookup tables, enter or map the appropriate values for the properties.
4. Click **Save**. If prompted, click **Save** again.
5. 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 integrations have been activated. Refresh the page to view the updated status of the integrations.

2. Update the integration properties for each of the three integration flows of the recipe: **Oracle ERP Cloud GCP Pub/Sub Product Sync**, **GCP Pub/Sub QuickBooks Product Sync** and **GCP Pub/Sub Magento Product Sync**.
 - a. In the Integrations section, click **Actions** **...** on the integration flow, then select **Update property values**.
 - b. In the Update property values panel, update the integration properties with appropriate values.
 - **EmailTo**: This integration property holds the email address to which error notifications are to be sent. Enter an email of your choice.
 - **retryCount**: This integration property holds the number of retries when an invoke fails. The default value is 3.
 - c. Click **Submit**.
3. Run the recipe.

To run the recipe, you must create an item in Product Information Management under Product Management in Oracle ERP Cloud.

- a. Click **Create Item**, under tasks in the Product Information Management section.
- b. Enter the organization.
- c. Enter the number of items.
- d. Select the item class.
- e. Select the template from the available list.
- f. Click **OK**.
- g. Enter the item name on the new page that appears. Enter the item's description.
- h. Enter other mandatory details like Primary Unit of Measure.
- i. Click **Save**.

You've now created an item in Oracle ERP Cloud and successfully triggered the first integration flow of the recipe. Subsequently, the second and third integration flows of the recipe are triggered when the newly created item is published to GCP Pub Sub.

4. Monitor the running of the integration flows in Oracle Integration.
 - a. In the project workspace, click **Observe**. You'll see the integration flows being triggered and running successfully.
 - b. To manage errors in your project, see *Manage Errors in a Project*.

5. Log in to the Magento Commerce Cloud instance, and check for the new product created.
 - a. Navigate to **Catalogue**. Under Catalogues, select **Product** and enter the product name.
 - b. Fetch the product by order id or order number.
6. Log in to the QuickBooks instance, and check for the new product created.
 - a. Navigate to the Intuit Developer section.
 - b. In the Sandbox, search for the term `items`, and get the list of items created.

Troubleshooting Tip: If the service target is not reachable due to token expiration, retest the connection.

Related Documentation

- *Using the Oracle ERP Cloud Adapter with Oracle Integration 3*
- *Using the GCP Pub Sub Adapter with Oracle Integration 3*
- *Using the Magento Commerce Cloud Adapter with Oracle Integration 3*
- *Using the QuickBooks Adapter with Oracle Integration 3*