

# Oracle® Cloud

## Using the Shopify Adapter with Oracle Integration 3



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# About This Content

This guide describes how to configure this adapter as a connection in an integration in Oracle Integration.

## Audience

This guide is intended for developers who want to use this adapter in integrations in Oracle Integration.

## Documentation Accessibility

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## Related Resources

See these Oracle resources:

- Oracle Cloud at <http://cloud.oracle.com>
- *Using Integrations in Oracle Integration 3*
- *Using the Oracle Mapper with Oracle Integration 3*
- Oracle Integration documentation on the Oracle Help Center.

## Conventions

The following text conventions are used in this document.

Convention	Meaning
<b>boldface</b>	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

## Understand the Shopify Adapter

Review the following conceptual topics to learn about the Shopify Adapter and how to use it as a connection within an integration in Oracle Integration. A typical workflow of adapter and integration tasks is also provided.

### Topics:

- [Shopify Adapter Capabilities](#)
- [Shopify Adapter Restrictions](#)
- [What Application Version Is Supported?](#)
- [Workflow to Create and Add a Shopify Adapter Connection to an Integration](#)

## Shopify Adapter Capabilities

Shopify is a cloud-based, e-commerce platform that enables sellers to start, grow, and manage a business. The Shopify Adapter enables you to design, set up, and manage stores across multiple sales channels including mobile, social media, web, online marketplaces, and so on. The Shopify Adapter enables you to create an integration with a Shopify application. You can configure the Shopify Adapter as a trigger and an invoke connection in an integration in Oracle Integration.

The Shopify Adapter provides the following benefits:

- Supports implementing secure egress (dedicated NAT gateway) to establish a connection by using a private endpoint. See *Configure a Private Endpoint for Your Instance in Provisioning and Administering Oracle Integration 3* and [Configure the Endpoint Access Type](#).
- Provides invoke (target) connection support for performing various types of operations against objects from the following modules:
  - Customers
  - Discounts
  - Inventory
  - Metafields
  - Orders
  - Plus
  - Products
  - Sales Channel
  - Shipping and Fulfillment
  - Shopify Payments
  - Store Properties
- Provides invoke (target) connection support for performing the following types of actions against the selected object and operation:

- Create Information (create records in Shopify)
- Query Information (get records from Shopify)
- Update Information (update records in Shopify)
- Delete Information (delete records from Shopify)
- Provides trigger (source) connection support for performing various types of actions against events from the following modules:
  - Customers
  - DeliveryProfiles
  - FulfillmentEvents
  - Fulfillments
  - Inventory
  - Orders
  - Products
- Supports fetching the presentment prices for the product variants and current exchange adjustment data for the order transactions. The Shopify Adapter exposes the required custom HTTP headers for the above use cases.
- Supports exposing the store name for all the business events received. This enables the integration developer to identify the event source.
- Supports Shopify APIs protected using Basic Authentication, Shopify Access Token Policy, and the Shopify security policy.
- Supports multidomains. This enables a single integration (target) to connect to any number of Shopify stores. To enable this feature for a trigger (inbound) connection, you enter comma separated, related Shopify connection IDs on the Connections page. When a subscribed event occurs on any of the related connections, the integration is triggered. For invoke (outbound) connections, a single integration can now connect to any number of Shopify stores. You can select the store with which to connect dynamically during runtime. To do this, you must pass the connection ID of the store in the request mapper. See [Configure Connection Properties](#).

The Shopify Adapter is one of many predefined adapters included with Oracle Integration. See the Adapters page in the Oracle Help Center.

## Shopify Adapter Restrictions

Note the following Shopify Adapter restriction.

All Shopify APIs are rate-limited. These types of limits help Shopify to ensure platform stability for all. The request-based limits method is used by Shopify's REST Admin API for rate-limiting. The standard limit for Shopify's REST Admin API is 2 requests/second (that is, only two requests per second are allowed).

### Note

There are overall service limits with Oracle Integration. A service limit is the quota or allowance set on a resource. See [Service Limits](#).

## What Application Version Is Supported?

For information about which application version is supported by this adapter, see the [Connectivity Certification Matrix](#).

## Workflow to Create and Add a Shopify Adapter Connection to an Integration

You follow a very simple workflow to create a connection with an adapter and include the connection in an integration in Oracle Integration.

This table lists the workflow steps for both the adapter tasks and the overall integration tasks, and provides links to instructions for each step.

Step	Description	More Information
1	Decide where to work	<ul style="list-style-type: none"> <li>Work in a project (see why working with projects is preferred in <i>Using Integrations in Oracle Integration 3</i>).</li> <li>Work outside a project.</li> </ul>
2	Create the adapter connections for the applications you want to integrate. The connections can be reused in multiple integrations and are typically created by the administrator.	<a href="#">Create a Shopify Adapter Connection</a>
3	Create the integration. When you do this, you add trigger (source) and invoke (target) connections to the integration.	Create Integrations in <i>Using Integrations in Oracle Integration 3</i> and <a href="#">Add the Shopify Adapter Connection to an Integration</a>
4	Map data between the trigger connection data structure and the invoke connection data structure.	Map Data in <i>Using Integrations in Oracle Integration 3</i>
5	(Optional) Create lookups that map the different values used by those applications to identify the same type of object (such as gender codes or country codes).	Manage Lookups in <i>Using Integrations in Oracle Integration 3</i>
6	Activate the integration.	Activate Integrations in <i>Using Integrations in Oracle Integration 3</i>
7	Monitor the integration on the dashboard.	Monitor Integrations During Runtime in <i>Using Integrations in Oracle Integration 3</i>
8	Track payload fields in messages during runtime.	Assign Business Identifiers for Tracking Fields in Messages and Track Integration Instances in <i>Using Integrations in Oracle Integration 3</i>
9	Manage errors at the integration level, connection level, or specific integration instance level.	Manage Errors in <i>Using Integrations in Oracle Integration 3</i>

# 2

## Create a Shopify Adapter Connection

A connection is based on an adapter. You define connections to the specific cloud applications that you want to integrate.

### Topics:

- [Prerequisites for Creating a Connection](#)
- [Create a Connection](#)

## Prerequisites for Creating a Connection

Before you can create a connection with the Shopify Adapter, you must satisfy the following prerequisites:

### ① Note

Private applications are deprecated in the Shopify application and a new private application cannot be created in Shopify as of January 2022. However, existing private applications are not yet retired and work.

- [Create a Custom Application](#)
- [Obtain the Admin API Access Token and API Secret Key](#)
- [Create a Private Application](#)
- [Obtain the Shopify API Credentials and Shared Secret](#)

## Create a Custom Application

To create a custom application in Shopify, you use the Shopify administration console. Follow the instructions mentioned under these topics:

- Create the app
- Select API scopes
- Install the app and get the API access tokens

See [Create and install a custom app](#).

## Obtain the Admin API Access Token and API Secret Key

You must obtain the values for your Admin API access token and API secret key.

See [Get the API credentials for a custom app](#).

## Create a Private Application

To create a private application in Shopify, you use the Shopify administration console. When you save your private application, Shopify automatically generates API credentials. You'll use these credentials when you configure security for your Shopify Adapter connection.

To create a private application in Shopify:

1. Sign in to the Shopify administration console using the following URL:

```
https://hostname.domain_name.com/admin
```

2. In the navigation pane, click **Apps**.
3. Click the **Manage private apps** link.
4. In the **App details** section, enter a name for your private application and a valid email address.
5. In the **Admin API** section, click **Review disabled Admin API permissions** and then select the **Read and write** permission from the dropdown for the data this application can access. See the following table for the required permissions.

Data	Permission
Customer details and customer groups	Read and write
Orders, transactions and fulfillments	Read and write
Products, variants and collections	Read and write
Product information	Read and write
Order editing	Read and write
Locations	Read and write
Inventory	Read and write
Draft orders	Read and write
Fulfillment services	Read and write
Assigned fulfillment orders	Read and write
Merchant managed fulfillment orders	Read and write
Third party fulfillment orders	Read and write
Shipping rates, countries, and provinces	Read and write
Discounts - PriceRule REST and GraphQL AP	Read and write
Resource feedback	Read and write

6. Click **Save**, and then click **I understand, create the app**.

## Obtain the Shopify API Credentials and Shared Secret

When you save your private application, Shopify automatically generates an API key, a password, and a shared secret.

To get the values for your API credentials and shared secret:

1. Open the private application that you created and saved.
2. Scroll to the **Admin API** section.

3. Copy the values for your API key, password, and shared secret.

You'll need to enter those values in the Credentials dialog when you configure security for your Shopify Adapter connection in Oracle Integration. See [Configure Connection Security](#).


## Create a Connection

Before you can build an integration, you must create the connections to the applications with which you want to share data.

### Note

You can also create a connection in the integration canvas. See [Define Inbound Triggers, Outbound Invokes, and Actions](#).

To create a connection in Oracle Integration:

1. Decide where to start:
  - Work in a project (see why working with projects is preferred).
    - a. In the navigation pane, click **Projects**.
    - b. Select the project name.
    - c. Click **Integrations** .
    - d. In the **Connections** section, click **Add** if no connections currently exist or **+** if connections already exist. The Create connection panel opens.
  - Work outside a project.
    - a. In the navigation pane, click **Design**, then **Connections**.
    - b. Click **Create**. The Create connection panel opens.
2. Select the adapter to use for this connection. To find the adapter, scroll through the list, or enter a partial or full name in the **Search** field.
3. Enter the information that describes this connection.

Element	Description
<b>Name</b>	Enter a meaningful name to help others find your connection when they begin to create their own integrations.
<b>Identifier</b>	Automatically displays the name in capital letters that you entered in the <b>Name</b> field. If you modify the identifier name, don't include blank spaces (for example, SALES OPPORTUNITY).

Element	Description
<b>Role</b>	<p>Select the role (direction) in which to use this connection.</p> <p><b>Note:</b> <i>Only</i> the roles supported by the adapter you selected are displayed for selection. Some adapters support all role combinations (trigger, invoke, or trigger and invoke). Other adapters support fewer role combinations.</p> <p>When you select a role, only the connection properties and security policies appropriate to that role are displayed on the Connections page. If you select an adapter that supports both invoke and trigger, but select only one of those roles, you'll get an error when you try to drag the adapter into the section you didn't select.</p> <p>For example, assume you configure a connection for the Oracle Service Cloud (RightNow) Adapter as only an <b>invoke</b>. Dragging the adapter to a <b>trigger</b> section in the integration produces an error.</p>
<b>Keywords</b>	Enter optional keywords (tags). You can search on the connection keywords on the Connections page.
<b>Description</b>	Enter an optional description of the connection.
<b>Share with other projects</b>	<p><b>Note:</b> This field only appears if you are creating a connection in a project.</p> <p>Select to make this connection publicly available in other projects. Connection sharing eliminates the need to create and maintain separate connections in different projects.</p> <p>When you configure an adapter connection in a different project, the <b>Use a shared connection</b> field is displayed at the top of the Connections page. If the connection you are configuring matches the same type and role as the publicly available connection, you can select that connection to reference (inherit) its resources.</p> <p>See <a href="#">Add and Share a Connection Across a Project</a>.</p>

4. Click **Create**.

Your connection is created. You're now ready to configure the connection properties, security policies, and (for some connections) access type.

5. Follow the steps to configure a connection.

The connection property and connection security values are specific to each adapter. Your connection may also require configuration with an access type such as a private endpoint or an agent group.

6. Test the connection.

## Configure Connection Properties

Enter connection information so your application can process requests.

1. Go to the **Properties** section.

2. Enter your login credentials:
  - a. In the **Hostname** field, enter the Shopify host name. The Shopify host name appears in the Shopify home URL. For example, `https://hostname.myshopify.com`.
  - b. In the **Shopify REST API Version** field, enter the REST API version.
  - c. In the **Related Shopify Connection Ids** field, optionally enter comma separated, related Shopify connection IDs. If the Shopify Adapter is configured as a trigger connection in an integration and you need to use the multidomain feature, you must ensure that comma-separated, related Shopify Connection IDs are provided in this field. This enables a single integration (target) to connect to any number of Shopify stores. For example:

Connection1,Connection2

#### Note

- You must ensure that the Shopify host name (provided in the **Hostname** field) and Shopify connection IDs are strictly linked to either a Shopify store account or Shopify Plus stores, without any intermixing.
- The connection ID is the identifier that you set while creating a connection. The connection ID is case sensitive.
- Ensure that the connection IDs that you provided in the **Related Shopify Connection Ids** field are 100% configured and saved.
- This field is only required for trigger connections to use the multidomain feature.
- During the integration export process from one environment to another in Oracle Integration, the related connections that you configured for multidomain support cannot be exported.

No validation is performed on the connection IDs when you click **Test**. They are assumed to exist. However, integration activation fails if one does not exist. See [Troubleshoot the Shopify Adapter](#).

## Configure Connection Security

Configure security for your Shopify Adapter connection.

1. Go to the **Security** section.
2. From the **Security Policy** list, select the security policy.
  - **Basic Authentication**
  - **Shopify Access Token Policy**
  - **Shopify Security Policy**
3. If you select **Basic Authentication**:
  - a. In the **Username** field, enter the API key that you obtained after performing the prerequisite steps. See [Prerequisites for Creating a Connection](#).
  - b. In the **Password** field, enter the password that you obtained after performing the prerequisite steps. See [Prerequisites for Creating a Connection](#).

- c. In the **Confirm Password** field, re-enter the password a second time for confirmation.

**Note**

The **Basic Authentication** security policy can only be used for invoke connections.

4. If you select **Shopify Access Token Policy**:
  - a. In the **Admin API Access token** field, enter the admin API access token that you obtained after performing the prerequisite steps. See [Prerequisites for Creating a Connection](#).
  - b. (Optional) In the **API Secret Key** field, enter the API secret key that you obtained after performing the prerequisite steps. See [Prerequisites for Creating a Connection](#).

**Note**

The Shopify Access Token Policy can be used for invoke and trigger connections.

5. If you select **Shopify Security Policy**:
  - a. In the **Username** field, enter the API key that you obtained after performing the prerequisite steps. See [Prerequisites for Creating a Connection](#).
  - b. In the **Password** field, enter the password that you obtained after performing the prerequisite steps. See [Prerequisites for Creating a Connection](#).
  - c. In the **Confirm Password** field, re-enter the password a second time for confirmation.
  - d. In the **Shared secret** field, enter the shared secret that you obtained after performing the prerequisite steps. See [Prerequisites for Creating a Connection](#).
  - e. In the **Confirm Shared secret** field, re-enter the shared secret a second time for confirmation.

**Note**

- The **Shopify Security Policy** can be used for invoke and trigger connections.
- The **Shared secret** and **Confirm Shared secret** fields are not marked with an asterisk (\*). This incorrectly implies that these fields are not mandatory. When you configure this security policy for a trigger connection, these fields are mandatory.

## Configure the Endpoint Access Type

Configure access to your endpoint. Depending on the capabilities of the adapter you are configuring, options may appear to configure access to the public internet, to a private endpoint, or to an on-premises service hosted behind a fire wall.

- [Select the Endpoint Access Type](#)
- [Ensure Private Endpoint Configuration is Successful](#)

### Select the Endpoint Access Type

1. Go to the **Access type** section.
2. Select the option for accessing your endpoint.

Option	This Option Appears If Your Adapter Supports ...
<b>Public gateway</b>	Connections to endpoints using the public internet.
<b>Private endpoint</b>	Connections to endpoints using a private virtual cloud network (VCN). <b>Note:</b> To connect to private endpoints, you must complete prerequisite tasks in the Oracle Cloud Console. Failure to do so results in errors when testing the connection. See Connect to Private Resources in <i>Provisioning and Administering Oracle Integration 3</i> and Troubleshoot Private Endpoints in <i>Using Integrations in Oracle Integration 3</i> .

### Ensure Private Endpoint Configuration is Successful

- To connect to private endpoints, you must complete prerequisite tasks in the Oracle Cloud Console. Failure to do so results in errors when testing the connection. See Connect to Private Resources in *Provisioning and Administering Oracle Integration 3*.
- When configuring an adapter on the Connections page to connect to endpoints using a private network, specify the fully-qualified domain name (FQDN) and *not* the IP address. If you enter an IP address, validation fails when you click **Test**.

## Test the Connection

Test your connection to ensure that it's configured successfully.

1. In the page title bar, click **Test**. What happens next depends on whether your adapter connection uses a Web Services Description Language (WSDL) file. Only some adapter connections use WSDLs.

If Your Connection...	Then...
Doesn't use a WSDL	The test starts automatically and validates the inputs you provided for the connection.
Uses a WSDL	A dialog prompts you to select the type of connection testing to perform: <ul style="list-style-type: none"> <li>• <b>Validate and Test:</b> Performs a full validation of the WSDL, including processing of the imported schemas and WSDLs. Complete validation can take several minutes depending on the number of imported schemas and WSDLs. No requests are sent to the operations exposed in the WSDL.</li> <li>• <b>Test:</b> Connects to the WSDL URL and performs a syntax check on the WSDL. No requests are sent to the operations exposed in the WSDL.</li> </ul>

2. Wait for a message about the results of the connection test.
  - If the test was successful, then the connection is configured properly.

- If the test failed, then edit the configuration details you entered. Check for typos and verify URLs and credentials. Continue to test until the connection is successful.
3. When complete, click **Save**.

# 3

## Add the Shopify Adapter Connection to an Integration

When you drag the Shopify Adapter into the trigger or invoke area of an integration, the Adapter Endpoint Configuration Wizard is invoked. This wizard guides you through configuration of the Shopify Adapter endpoint properties.

The following topics describe the wizard pages that guide you through configuration of the Shopify Adapter as a trigger and an invoke in an integration.

### Topics:

- [Basic Info Page](#)
- [Trigger Events Page](#)
- [Invoke Actions Page](#)
- [Invoke Operations Page](#)
- [Summary Page](#)

## Basic Info Page

You can enter a name and description on the Basic Info page of each adapter in your integration.

Element	Description
<b>What do you want to call your endpoint?</b>	<p>Provide a meaningful name so that others can understand the responsibilities of this connection. You can include English alphabetic characters, numbers, underscores, and hyphens in the name. You can't include the following characters:</p> <ul style="list-style-type: none"><li>• No blank spaces (for example, My Inbound Connection)</li><li>• No special characters (for example, #;83&amp; or righ(t)now4) except underscores and hyphens</li><li>• No multibyte characters</li></ul>
<b>What does this endpoint do?</b>	<p>Enter an optional description of the connection's responsibilities. For example:</p> <p>This connection receives an inbound request to synchronize account information with the cloud application.</p>

## Trigger Events Page

On the Trigger Events page in the Adapter Endpoint Configuration Wizard, select the modules and associated events for which to receive notifications.

Element	Description
<b>Select Module</b>	Select the module: <ul style="list-style-type: none"> <li>• <b>Customers:</b> Configures customers and customer-related business events such as Customer creation/update/enable/disable/delete.</li> <li>• <b>DeliveryProfiles:</b> Configures delivery profiles and delivery profile-related business events such as DeliveryProfile create/delete/update.</li> <li>• <b>FulfillmentEvents:</b> Configures fulfillment events and fulfillment event-related business events such as FulfillmentEvents create/update.</li> <li>• <b>Fulfillments:</b> Configures fulfillments and fulfillment-related business events such as Fulfillment create/update.</li> <li>• <b>Inventory:</b> Configures inventory and inventory-related business events such as Inventory Level update.</li> <li>• <b>Orders:</b> Configures orders and order-related business events such as Order creation/edit/update/deletion/cancellation, Order payment, Order fulfillment/partial fulfillment, Transactions create, and Refund create.</li> <li>• <b>Products:</b> Configures products and product-related business events such as Product creation/update/deletion.</li> </ul>
<b>Select Event</b>	Select an event name, such as Customer creation. The events available for selection are based on the module selected.
<b>Filter by Module Name</b>	Type the initial letters of the module name to filter the display of names in the list.
<b>Filter by Event Name</b>	Type the initial letters of the event name to filter the display of names in the list.

## Invoke Actions Page

On the Actions page in the Adapter Endpoint Configuration Wizard, select the action to perform.

Element	Description
<b>Select Action</b>	<ul style="list-style-type: none"> <li>• <b>Query:</b> Retrieves information from the Shopify application corresponding to the selected object and operation.</li> <li>• <b>Create:</b> Creates records such as Product, Order, and so on in the Shopify application.</li> <li>• <b>Update:</b> Updates the existing records in the Shopify application.</li> <li>• <b>Delete:</b> Deletes the records in the Shopify application.</li> </ul>

## Invoke Operations Page

On the Invoke Operations page in the Adapter Endpoint Configuration Wizard, select the module and the operation you want to perform in the Shopify application.

Element	Description
<b>Select Module</b>	<ul style="list-style-type: none"> <li>• <b>Customers:</b> Configures customers and customer-related business objects/operations such as Customer Address and Customer Saved Search.</li> <li>• <b>Discounts:</b> Configures discounts and discount-related business objects/operations such as Discount Code and Price Rule.</li> <li>• <b>Inventory:</b> Configures inventory and inventory-related business objects/operations such as Inventory Level, Location, and Inventory Item.</li> <li>• <b>Metafields:</b> Configures metafields and metafield-related business objects/operations such as the Metafield.</li> <li>• <b>Orders:</b> Configures orders and order-related business objects/operations such as Draft Order, Refund, Transaction, Order Risk, and Abandoned checkouts.</li> <li>• <b>Plus:</b> Configures plus and plus-related business objects/operations such as Gift Cards.</li> <li>• <b>Products:</b> Configures products and product-related business objects/operations such as Product Image, Custom Collection, Product Variant, Product, Collect, and Smart Collection.</li> <li>• <b>Sales Channel:</b> Configures sales channel and sales channel-related business objects/operations such as Collection Listing, Resource Feedback, and Product Listing.</li> <li>• <b>Shipping and Fulfillment:</b> Configures shipping and fulfillment, and associated business objects/operations such as Carrier Service, Fulfillment, Assigned Fulfillment Order, Fulfillment Order/Service/Event, and Locations For Move.</li> <li>• <b>Shopify Payments:</b> Configures Shopify payments and Shopify payment-related business objects/operations such as Payouts.</li> <li>• <b>Store Properties:</b> Configures store properties and associated business objects/operations such as Countries and Shop.</li> </ul> <p><b>Note:</b> The following modules and objects are not supported by the Shopify Adapter.</p> <p>Modules:</p> <ul style="list-style-type: none"> <li>• Access</li> <li>• Analytics</li> <li>• Billing</li> <li>• Marketing Event</li> <li>• Online Store</li> <li>• Tender Transaction</li> </ul> <p>Objects and related modules:</p> <ul style="list-style-type: none"> <li>• Balance (Shopify Payments)</li> <li>• Checkout (Sales Channel)</li> <li>• Currency, Policy, Province, and Shipping zone (Store Properties)</li> <li>• Dispute (Shopify Payments)</li> <li>• LocationsforMove (Shipping and Fulfillment)</li> <li>• Mobile Platform Application (Sales Channel)</li> <li>• Multipass (Plus)</li> <li>• Payments (Sales Channel)</li> <li>• Product Resource Feedback (Sales Channel)</li> </ul>

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Element	Description
	<ul style="list-style-type: none"><li>• Transactions (Shopify Payments)</li><li>• User (Plus)</li></ul>
<b>Select Object</b>	Use the scrolling list to select an object within the selected action.
<b>Filter by Object Name</b>	Type the initial letters of the object name to filter the display of names in the list.
<b>Select Operation</b>	Select an operation name, such as <b>Retrieve a single customer</b> .
<b>Filter by Operation Name</b>	Type the initial letters of the operation name to filter the display of names in the list.

---

## Summary Page

You can review the specified adapter configuration values on the Summary page.

---

Element	Description
<b>Summary</b>	<p>Displays a summary of the configuration values you defined on previous pages of the wizard.</p> <p>The information that is displayed can vary by adapter. For some adapters, the selected business objects and operation name are displayed. For adapters for which a generated XSD file is provided, click the XSD link to view a read-only version of the file.</p> <p>To return to a previous page to update any values, click the appropriate tab in the left panel or click <b>Go back</b>.</p> <p>To cancel your configuration details, click <b>Cancel</b>.</p>

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# 4

## Implement Common Patterns Using the Shopify Adapter

You can use the Shopify Adapter to implement the following common patterns.

### Topic:

- [Use Pagination in an Integration](#)
- [Synchronize Shopify Products With the Salesforce Commerce Cloud Application](#)
- [Choose a Shopify Store to Connect to During Runtime](#)

### Use Pagination in an Integration

When you must fetch a large number of results in Shopify, you can use the Shopify Adapter's pagination feature. Pagination helps you segregate the total number of results. You can specify the number of results per page according to your requirement while triggering an integration and receive sorted results.

This use case describes how to use pagination to sort results while fetching product results. Similarly, you can use pagination for the Customers, Inventory, and Orders modules. To perform this operation, you create an integration for the Shopify Adapter in Oracle Integration using pagination with the orchestrator.

1. Create an app-driven orchestrated integration.
2. Drag a SOAP Adapter into the integration as a trigger connection.
3. Drag an assign action to the workspace next to the SOAP Adapter. Provide a unique name for this action, and click **Create**.
4. Assign the following two variables to your integration. Specify the values to variables as follows.

```
Link = ""  
Check = "false"
```

5. Click **Validate**, and then click **Close**.
6. Drag a while action below the assign action.
7. Provide a unique name for this action, and click **Create**.
8. Set the condition for the specified variables as follows.

```
Check! = "true"
```

9. Click **Validate**, then click **Close**.
10. In the mapper, map **Link** to **page\_info** in the Shopify request mapper and **SOAP** to **limit**.

**Note**

The **page\_info** element is a unique ID required to search and access the next page in the results and **limit** is the maximum number of results to show per page.

11. Drag a Shopify Adapter inside a while action.
12. Specify the following details in the Adapter Endpoint Configuration Wizard.
  - On the Basic Info page, provide a name.
  - On the Actions page, select the **Query** action.
  - On the Operations page, select the **Products** module, the **Product** object, and the **Retrieve list of all Products** operation.
  - Review your selections on the Summary page.
13. Drag an FTP Adapter and configure it with the `.csv` data file.
14. Perform the required mapping.
15. Drag a switch action and specify the following IF condition:

```
count( components.schemas.GetAllProducts) != 0.0 & string-  
length( page_info) != 0.0
```

16. Drag an assign action to update the specified variables as follows:

```
Link = Page_info  
Check = "false"
```

The while loop runs up to **page\_info** in Shopify. Each page gets triggered and fetches the required data.

17. Drag an assign action into the **Otherwise** branch of the switch action to update the specified variables as follows:

```
Check = "true"
```

18. When complete, save and activate the integration.

The completed integration looks as follows.

19. After successful activation, you can submit the integration and monitor the runtime in Oracle Integration. The integration keeps running until it completes all cycles of fetching product results, respectively, to each page in the FTP location.

## Synchronize Shopify Products With the Salesforce Commerce Cloud Application

You can synchronize Shopify records such as a product with the Salesforce Commerce Cloud application. For this pattern, you see details of the Shopify product in the Salesforce Commerce Cloud application (as a product) using the Shopify Adapter multidomain feature (that is, a single integration can connect to any number of Shopify stores).

If the Shopify Adapter is configured as a trigger connection in an integration, you can use the multidomain feature. In this case, you must ensure that comma-separated, related Shopify connection IDs are provided on the Connections page in Oracle Integration.

1. Create an app-driven orchestrated integration.
2. Drag a Shopify Adapter into the integration as a trigger connection.
3. Configure the Shopify endpoint:
  - a. On the Basic Info page, provide an endpoint name, and click **Next**.
  - b. On the Events page, select the **Product** module, and then select the **Product creation** event.
  - c. On the Summary page, review your selections, and click **Done**.
4. Drag a Salesforce Commerce Cloud Adapter into the integration canvas.
5. Configure the Salesforce Commerce Cloud endpoint:
  - a. On the Basic Info page, provide a name, and select **Data API** as the API type.
  - b. On the Action page, select the **Create or Update** action.
  - c. On the Operations page, select **Standard objects** as the object type, **products** as the object, and **Put Products By ID** as the operation.
  - d. Review your selections on the Summary page.
6. In the mapper, perform the required mapping.
7. Save and close the integration.
8. Activate the integration.
9. Create the product in any Shopify store that is configured as a related Shopify connection ID in Oracle Integration. The integration is triggered when the product creation event occurs and the same product is added to the Salesforce Commerce Cloud application.

## Choose a Shopify Store to Connect to During Runtime

When the Shopify Adapter is configured as an invoke connection in an integration, you can use the multidomain feature to select the store to which to connect. This pattern describes how you can use the multidomain feature for Shopify Adapter invoke (target) connections and select the store with which to connect dynamically during runtime.

To use this feature, ensure that the connection IDs of the stores are passed in the request mapper.

1. Create an app-driven orchestrated integration.
2. Drag and configure a SOAP Adapter into the integration as a trigger connection.
3. Drag a Shopify Adapter as an invoke connection into the integration canvas.
4. Configure the Shopify endpoint:
  - a. On the Basic Info page, provide an endpoint name, and click **Next**.
  - b. On the Action page, click the **Create** action.
  - c. On the Operations page, select the **Products** module, the **Product** object, and the **Create a new product** operation.
  - d. On the Summary page, review your selections, and click **Done**.
5. In the mapper, map **ConnectionId** from **ConnectivityProperties** to pass the connection identifier of the Shopify store (which is not a primary store).
6. Click **Validate**, and then click **Close**.

7. Open the response mapper and perform the required mappings.
8. Click **Validate**, and then click **Close**. The completed integration looks as follows:
9. When complete, save and activate the integration. As a result, the product object is created in the Shopify store.
10. If required, you can enter the related connection identifier value as input for the **ConnectionId** parameter to create the product in the particular Shopify store.

# 5

## Troubleshoot the Shopify Adapter

Review the following topics to learn about troubleshooting issues with the Shopify Adapter.

### Topics

- [Failed to Activate Integration Error](#)
- [Invalid Connection ID Error](#)
- [Edit the Configured Related Connection IDs](#)
- [Edit the Configured Security for your Shopify Adapter Connection](#)
- [Failed to Cancel an Order in the Shopify Application](#)

### Failed to Activate Integration Error

The following error occurs when one of the configured related Shopify connection IDs is deleted (that is, one does not exist) and activation is attempted. As you are probably aware, you can configure the Shopify Adapter endpoint as a trigger connection and provide related Shopify connection IDs on the Connections page to use the multidomain feature.

```
Failed to activate integration_name  
...
```

**Solution:** Remove the invalid connection ID that you configured for the Shopify Adapter connection in Oracle Integration and reactivate the integration.

### Invalid Connection ID Error

The following error occurs when the Shopify Adapter endpoint is configured as an invoke connection and a connection ID is passed dynamically. As you are probably aware, the connection ID of the store is passed in the request mapper for an invoke connection. This enables a single integration to connect to any number of Shopify stores.

```
Invalid Connection ID
```

**Solution:** Ensure that a connection with the respective connection ID exists.

### Edit the Configured Related Connection IDs

Assume the Shopify Adapter endpoint is configured as a trigger connection and you provided related Shopify connection IDs on the Connections page to use the multidomain feature. Assume that you now want to delete/remove one of the related Shopify connection IDs that you configured for the Shopify Adapter connection in Oracle Integration. You must perform the following steps:

1. Deactivate the dependent integrations.

2. Make the required changes to the related Shopify connection IDs.
3. Reactivate the integration.

## Edit the Configured Security for your Shopify Adapter Connection

Assume that you select the Shopify security policy and configure the Shopify Adapter endpoint as a trigger connection. Later on, you want to change the security policy to Basic Authentication. You must perform the following steps:

1. Deactivate the dependent integrations.
2. Remove the shared secret from the connection properties and then change the security policy to Basic Authentication.
3. Reactivate the integration.

## Failed to Cancel an Order in the Shopify Application

Assume you configured the Shopify Adapter as an invoke connection and performed the Cancel the Order operation. Even after successfully performing this operation in Oracle Integration, your order may not appear as canceled in the Shopify application. Oracle Integration fixed this issue, but you must perform the following steps to reflect the changes in Shopify.

1. Refresh the metadata for your connection. See Refresh Integration Metadata in *Using Integrations in Oracle Integration 3*.
2. Refresh your integration's endpoints. See Refresh Endpoints for Integrations in *Using Integrations in Oracle Integration 3*.
3. Reconfigure the integration as follows:
  - a. Select **Create** instead of **Query** in the **Select Action** section on the Invoke Action Page. See [Invoke Actions Page](#).
  - b. Select **Orders** in the **Select Module** section, **Order** in the **Select Object** section, and **Cancel an Order** in the **Select Operation** section on the Invoke Operations Page. See [Invoke Operations Page](#).
  - c. Confirm the details on the Summary page and click **Finish**. See [Summary Page](#).
  - d. Remap your **orderId** in the request mapper.
  - e. Activate and run the integration.
  - f. Refresh the order list in the Shopify application.

You now see your order has been canceled.

### Note

This issue occurs only if you are using REST API version 2024-01 or 2024-04. See the [Certification Matrix](#) to know all the API versions supported by the Shopify Adapter.