

Oracle® Cloud

Using the Databricks 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.

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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
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

Understand the Databricks Adapter

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

Topics:

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

Databricks Adapter Capabilities

The Databricks Adapter enables you to integrate the Databricks database residing behind the firewall of your on-premises environment with Oracle Integration through use of the on-premises connectivity agent. You can configure the Databricks Adapter as an invoke connection in an integration in Oracle Integration.

The Databricks Adapter provides the following capabilities:

- Allows data manipulation on Databricks' tables using the following operations:
 - Run a SQL query statement: Executes SQL queries to create, update, or retrieve individual records within one or more in tables.
 - Perform an operation on a table
 - * Supports the following operations on single or multiple records across one or more tables:
 - * Insert
 - * Update
 - * Insert or Update (Merge)
 - * Select
 - * Additional capabilities are also provided:
 - * Review and manage parent database tables relationships.
 - * Review and filter columns from selected database tables.
 - * Review and edit a SQL query.
- Supports the Databricks Personal Access Token security policy.

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

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 Databricks 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 adapter tasks and 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"> Work in a project (see why working with projects is preferred in <i>Using Integrations in Oracle Integration 3</i>). Work outside a project.
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.	Create a Databricks Adapter Connection
3	Create the integration. When you do this, you add trigger (source) and invoke (target) connections to the integration.	Understand Integration Creation and Best Practices in <i>Using Integrations in Oracle Integration 3</i> and Add the Databricks Adapter Connection to an Integration
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 an Integration 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 Databricks 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

You must satisfy the following prerequisites to create a connection with the Databricks Adapter.

Obtain the Host Name, HTTP Path, Port, and Catalog

1. Sign in to Databricks.
The Databricks homepage appears.
2. In the SQL menu that appears on the left-hand side of the home page, select **SQL Warehouses**.
3. Select your SQL warehouse.
4. Go to the **Connection details** section.
5. Copy the values for the server host name, HTTP path, and JDBC URL.
6. Copy the port number (443) from the JDBC URL.
7. Click **Create Personal Access Token**.
The Access Token page appears.
8. Click **Generate New Token**.
9. Enter the name and lifetime (in days).
10. Click **Generate**.
A new access token is created.

Note

This token is displayed only once for security purposes. Copy the value and save it for reference.

11. Go to **SQL Menu** and select **SQL Editor**.
12. From the **Catalog** list that appears, select the catalog with which you want the adapter to connect.

Note

You can create a new catalog. One catalog is created by default. You need these values when creating a connection in Oracle Integration.


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

Element	Description
Role	<p>Select the role (direction) in which to use this connection.</p> <p>Note: <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 invoke. Dragging the adapter to a trigger section in the integration produces an error.</p>
Keywords	Enter optional keywords (tags). You can search on the connection keywords on the Connections page.
Description	Enter an optional description of the connection.
Share with other projects	<p>Note: 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 Use a shared connection 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 Add and Share a Connection Across a Project.</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. In the **Host**, **HTTP Path**, and **Port** fields, enter the server host name, HTTP path, and port number that you obtained when satisfying the prerequisites in [Prerequisites for Creating a Connection](#).
3. In the **Optional properties** section, enter the catalog name with which you want to establish a connection.

Note

If you do not enter the catalog name, Oracle Integration establishes the connection with the default catalog present in the Databricks application.

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

Configure Connection Security

Configure security for your Databricks Adapter connection.

1. Go to the **Security** section.

The Databricks Adapter supports the Databricks Personal Access Token security policy for an invoke connection.

2. Enter the personal access token. See [Prerequisites for Creating a Connection](#).

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

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

Option	This Option Appears If Your Adapter Supports ...
Connectivity agent	<p>Connections to on-premises endpoints through the connectivity agent.</p> <ol style="list-style-type: none"> a. Click Associate agent group. The Associate agent group panel appears. b. Select the agent group, and click Use. <p>To configure an agent group, you must download and install the on-premises connectivity agent. See <i>Download and Run the Connectivity Agent Installer and About Creating Hybrid Integrations Using Oracle Integration in Using Integrations in Oracle Integration 3</i>.</p>

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">• Validate and Test: 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.• Test: Connects to the WSDL URL and performs a syntax check on the WSDL. No requests are sent to the operations exposed in the WSDL.

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 Databricks Adapter Connection to an Integration

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

The following sections describe the wizard pages that guide you through configuration of the Databricks Adapter as an invoke in an integration.

Topics:

- [Basic Info Page](#)
- [Run a SQL Statement Page](#)
- [Operation on Table Page](#)
- [Summary Page](#)

Basic Info Page

Specify a name, description, operation, and table operation to perform on the Basic Info page of each invoke connection in your integration.

Element	Description
What do you want to call your endpoint?	Provide a meaningful name so that others can understand the connection. For example, if you are creating a database connection for adding new employee data, you may want to name it <code>CreateEmployeeInDB</code> . You can include English alphabetic characters, numbers, underscores, and dashes in the name. You cannot include the following: <ul style="list-style-type: none">• Blank spaces (for example, <code>My DB Connection</code>)• Special characters (for example, <code>#;83&</code> or <code>righ(t)now4</code>)• Multibyte characters
What does this endpoint do?	Enter an optional description of the connection's responsibilities.
What operation do you want to perform?	Select the operation you want to perform. <ul style="list-style-type: none">• Run a SQL Statement• Perform an Operation On a Table
What operation do you want to perform on a Table? (Appears if you select Perform an Operation On a Table .)	Displays the list of operations that you can perform on a table. Select the table operation to perform. <ul style="list-style-type: none">• Insert• Update• Insert or Update (Merge)• Select

Run a SQL Statement Page

Enter the SQL query statement to run.

Element	Description
SQL Query	Enter the SQL query statement for the data mutation operation you want to perform.
Validate SQL Query	Click to validate your SQL query for any syntax errors.
Status (Appears if you click Validate SQL Query .)	Displays the result of SQL query validation. A Success! message is displayed if no errors are found while validating the SQL query. Otherwise, an error message is displayed.

Operation on Table Page

Select the database tables in which you want to perform the operation.

- [Operation on Table Page](#)
- [Table 1 - Review and manage parent database table relationships](#)
- [Table 2 - Review and filter columns from selected database tables](#)
- [Table 3 - Review and edit SQL query](#)

Operation on Table Page

Element	Description
Schema	Select the database schema that includes the tables to process.
Table Name	Enter a filter with which to search the schema (for example, "Cust%" to search for tables starting with "Cust" in the name).
Table Type	Specify the table type filter to get a subset of the appropriate database objects, then click Search . <ul style="list-style-type: none"> • TABLE • VIEW • ALL
Search	Select the file that you want to download or delete.
Filter By	Enter the initial letters to filter the display of table names.
Table Names	Select the tables to import. Note: It is recommended that you to import the tables together for the adapter to automatically recognize the relationship. If you import the tables separately, you must explicitly create the table relationship.
Import Tables	Click to import the tables. The page is refreshed for you to select the parent database table.

Element	Description
Select the parent database table	Select the parent (root) table from the list. If using multiple related tables, this is the top-level parent table in the relationship. After making your selection, the page is refreshed for you to view and edit the table relationships.
Add Remove Tables	Click to add more tables or remove tables no longer in use.
Review and manage parent database table relationships	Click Edit to view and edit the table relationships. The relationships automatically identified by the adapter are displayed. See Table 1 - Review and manage parent database table relationships .
Review and filter columns from selected database tables	Click Edit to view and edit the table attributes. You can deselect any attributes to exclude from the database queries. Primary key attributes cannot be excluded. See Table 2 - Review and filter columns from selected database tables .
Review and edit SQL query	Click Edit to view and edit the default SQL query. See Table 3 - Review and edit SQL query . Note: This field is available for a <code>Select</code> operation on the table.

Table 1 - Review and manage parent database table relationships

Element	Description
Create New Relations	Click to create a new relationship.
Relations	View the existing parent and child table relations automatically created by the adapter.

Table 2 - Review and filter columns from selected database tables

Element	Description
Attributes Tree	View and deselect attributes automatically created by the adapter.

Table 3 - Review and edit SQL query

Element	Description
SQL Edit	Click to manually edit the query in the SQL Query field. Use this field to add any necessary arguments or parameters.
Maximum Number of Records to be fetched	Select the number of records to fetch with this SQL query.

Note

This is only applicable for a `Select` operation on a table.

Summary Page

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

Element	Description
Summary	<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 Go back.</p> <p>To cancel your configuration details, click Cancel.</p>