

Oracle® Cloud

Import Sales Orders from Oracle NetSuite to Oracle Autonomous Data Warehouse



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Preface

This document describes how to install, configure, and run this recipe in Oracle Integration Generation 2.

Topics:

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Related Resources

For more information, see these Oracle resources:

- Oracle Integration documentation in the Oracle Cloud Library 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.
<code>monospace</code>	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 import sales orders from Oracle NetSuite to Oracle Autonomous Data Warehouse (ADW).



Note:

This recipe is available as **Oracle NetSuite — Oracle ADW | Import Sales Orders** 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 imports sales orders created in Oracle NetSuite and loads them into Oracle ADW database.

To use the recipe, you must install the recipe package and configure the connections and other resources within the recipe package. Subsequently, you can activate and run the integration flow manually or specify an execution schedule for it. When triggered, the integration flow uses a schedule parameter `sinceDateTime` to query sales orders created on or after the date and time specified in the parameter. The recipe then extracts the sales orders from Oracle NetSuite and writes them into Oracle ADW database tables.

System and Access Requirements

- Oracle Integration, Version 21.2.1.0.0 or higher
- Oracle NetSuite
- Oracle Autonomous Data Warehouse (ADW), Oracle Database 19c Enterprise Edition
- An Autonomous Database instance created in Oracle Cloud Infrastructure (OCI)
- An account in Oracle NetSuite with the Administrator role
- An account in Oracle ADW with the Administrator role
- An Oracle ADW table with write access

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Before You Install the Recipe

You must perform the following configuration tasks on your Oracle NetSuite instance and Oracle ADW instance in order to successfully connect to these external systems using Oracle Integration and import sales orders from NetSuite to ADW.

1. [Configure NetSuite](#)
2. [Configure Oracle ADW](#)

Configure NetSuite

To access NetSuite using Oracle Integration and import sales orders , you must perform certain configuration tasks on your NetSuite instance.

To successfully connect to NetSuite, you must perform certain general configurations on your NetSuite instance and some configurations specific to the security policy you'll use to connect. In this recipe, you'll use the token-based authentication (TBA) security policy.

In addition, you must create a NetSuite saved search. The search criterion specified in the saved search will be used to fetch the sales orders that are to be imported to Oracle ADW.

Log in to your NetSuite instance as an **Administrator** and execute the following tasks.

1. Perform the general configurations necessary to connect to NetSuite. See [Enable Features on Oracle NetSuite and Assemble the Oracle NetSuite WSDL URL](#).
2. Perform the TBA-related configuration tasks. See [Prerequisites for the Token-Based Authentication Security Policy](#).

Grant the following permissions to the role you'll create in this step.

Tab Name	Permission	Level
Lists	Sales Order	Full
Lists	Subsidiaries	Full
Setup	User Access Tokens	Full
Setup	Log in using Access Tokens	Full
Setup	SOAP Web Services	Full

3. Create a saved search to get the sales records that satisfy the search criterion. The sales records that are the output of the search result will be imported into Oracle ADW.
 - a. Navigate to the New Saved Search window using any one of the following navigation options:
 - On the NetSuite home page, select **Reports**, then choose **Saved Searches**, then **All Saved Searches**, and then **New**.
 - On the NetSuite home page, select **Transactions**, then choose **Management**, then **Saved Searches**, and then **New**.

- b. On the New Saved Search window, select the object type to perform the search operation. For example, select **Transaction**.
- c. Add a title and ID for the saved search in the **SEARCH TITLE** and **ID** fields respectively.

The title and ID for the saved search will help you in keeping track of the saved search when you want to reuse it to re-query latest data that matches the search criteria.
- d. Set the search criteria conditions. Select the **Criteria** tab and specify the conditions. For example, you can specify a condition to filter sales orders created after a certain date.

If the **USE EXPRESSIONS** check box is selected, you can also use additional options such as AND, OR, NOT.
- e. Configure the search results that are to be displayed. Select the **Results** tab, and in the **Columns** tab of the page, select the fields that you want to be displayed in the search result.

Configure Oracle ADW

To access Oracle ADW using Oracle Integration, you must perform certain configuration tasks on your Oracle ADW instance.

The following steps give an overview of the tasks you need to perform to obtain required information for configuring the ADW connection properties and security from Oracle Integration. For detail information on the steps, see Prerequisites for Creating a Connection.

1. Download the client credentials wallet.

This is a zip file containing the client security credentials. By default the file name is `Wallet_<databasename>.zip`. You can save this file as any file name you want.

2. Get the ADW wallet password.

You'll be prompted to enter a wallet password while downloading the client credentials wallet. Note the password as you'll need it while configuring the ADW connection security from Oracle Integration.

3. Get the ADW database service name. You need the database service name when configuring the connection properties on the Connections window.

Note that the service name must be same as the one in the `tnsnames.ora` file in the client credential wallet.

4. Get the database service username and password to connect to Oracle ADW database.

The database service username is the schema username for the user to log in to the database. Note that the database service username is *not* the same as the database service name that you specify in the connection properties on the Connections window.



5. For bulk data import operation, you must use the JDBC With OCI Signature security policy on the Connections window. Before you can successfully configure this security policy on the Connections window, you must complete the following prerequisites.

- Create an object storage bucket in Oracle Cloud Infrastructure. Note the region where your object storage is located.
- Obtain the OCID value of the compartment in which you create the storage bucket.
- Obtain the tenancy OCID and user OCID details in the Oracle Cloud Infrastructure Console.
- Create an API signing key in the Oracle Cloud Infrastructure Console.
- Note the finger print that was generated when you created the key in the Oracle Cloud Infrastructure Console.


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Install and Configure the Recipe

On your Oracle Integration instance, install the recipe package to deploy and configure the integration and associated resources.

1. On the Oracle Integration Home page, scroll to the **Accelerators & Recipes** section.
2. Click **Search All**.
The list of available recipes is displayed.
3. Find and select the recipe package that you want to install, then click **Install** .
A message confirms that the recipe was successfully installed, and the recipe card shows **INSTALLED**.
4. After the package is installed, click **Configure**  on the recipe card.
The Configuration Editor opens, displaying all the resources of the recipe package. Configure the following resources before you activate and run the recipe.

Configure the Oracle NetSuite Connection


1. In the Configuration Editor, select the connection, then click **Edit** .
2. In the Connection Properties section, enter the NetSuite **WSDL URL**. For example, `https://webservices.netsuite.com/wsdl/<NetSuite_application_version>/netsuite.wsdl`, where `<NetSuite_application_version>` is the version of the NetSuite application. For example, `v2015_1_0`. See Step 1 in [Configure NetSuite](#).
3. In the Security section, enter the following details:

Field	Information to Enter
Security Policy	Select Token Based Authentication .
Consumer Key	Enter the consumer key of the integration record in Oracle NetSuite. See Step 2 in Configure NetSuite .
Consumer Secret	Enter the consumer secret of the integration record in Oracle NetSuite.
Token	Enter the token ID provided by Oracle NetSuite.
Token Secret	Enter the token secret provided by Oracle NetSuite.
Account ID	Enter your Oracle NetSuite account identifier.




Note:


You must enter this information in capital letters.

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 Configuration Editor, click **Back** . Click **Save** again if prompted.

Configure the Oracle ADW Connection

1. In the Configuration Editor, select the connection, then click **Edit** .
2. In the Connection Properties section, enter the service name of your Oracle ADW instance. See step 3 in [Configure Oracle ADW](#).
3. In the Security section, enter the following details:

Field	Information to Enter
Security Policy	Select JDBC with OCI Signature .
Wallet	Click Upload and upload the credential wallet file. See Configure Oracle ADW . See Prerequisites for Creating a Connection.
Wallet Password	Enter the password for the credential wallet file.
Database Service Username	Enter the username of your Oracle ADW account.
Database Service Password	Enter the password of your Oracle ADW account.
Object Storage Region	Enter the region in which your object storage is located (for example, <code>us-ashburn-1</code>).
Object Storage Tenancy OCID	Specify the value you copied from the Oracle Cloud Infrastructure Console (for example, <code>ocid1.tenancy.oc1.alphanumeric.value</code>).
Object Storage Compartment OCID	Specify the value you copied from the Oracle Cloud Infrastructure Console (for example, <code>ocid1.compartment.oc1.alphanumeric.value</code>).
Object Storage User OCID	Specify the value you copied from the Oracle Cloud Infrastructure Console (for example, <code>ocid1.user.oc1.alphanumeric.value</code>).
Private Key	Click Upload and upload the key you created in the Oracle Cloud Infrastructure Console.
Finger Print	Enter the finger print that was generated when you created the key in the Oracle Cloud Infrastructure Console.

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 Configuration Editor, click **Back** . Click **Save** again if prompted.

4

Activate and Run the Recipe

After you've configured the connections, you can activate and run the recipe.

1. In the Configuration Editor, click **Activate** in the title bar. In the Activate Package dialog, click **Activate** again.

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 Configuration Editor, select the integration flow.

- b. Click **Run** , then click **Submit Now**.

- c. In the resulting dialog, click **Confirm**.

The Schedule Parameters page is displayed, where you can specify a value for the `sinceDateTime` parameter. This parameter fetches all the sales orders created on or after the date and time specified and loads them into Oracle ADW. Enter a value, for example, `2022-09-02T00:00:00Z` in the **New Value** field to fetch all the sales records from Oracle NetSuite created on or after the date specified. The parameter's value is automatically updated after each successful run.


- d. On the Schedule Parameters page, click **Submit**.

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 Configuration Editor, select the integration flow.

- b. Click **Run** , then click **Track Instances**.

On the Track Instances page, observe that the integration has been triggered and running successfully. The recipe fetches the sales orders from Oracle NetSuite and imports them into Oracle ADW.

4. Log in to the Oracle ADW instance and check if sales orders from Oracle NetSuite have been imported into the Oracle ADW database table.

Related Documentation

- *Using the Oracle NetSuite Adapter with Oracle Integration Generation 2*
- *Using the Oracle Autonomous Data Warehouse Adapter with Oracle Integration Generation 2*