

Oracle® Cloud

Publish and Subscribe to Oracle Cloud Infrastructure Streaming Service



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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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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.
<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

About This Recipe

Use this recipe to publish and subscribe to the Oracle Cloud Infrastructure Streaming service.



Note:

This recipe is available as **Oracle Integration — Oracle Cloud Infrastructure Streaming | Send and Receive Messages** 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 sends messages from Oracle Integration to Oracle Cloud Infrastructure Streaming, and receives messages from Oracle Cloud Infrastructure Streaming.

To use the recipe, you must install the recipe and configure the connections and other resources within it. The recipe contains two integration flows - one to publish messages from Oracle Integration to Oracle Cloud Infrastructure Streaming, and the other to subscribe to messages from Oracle Cloud Infrastructure Streaming.

- When the **Oracle Cloud Infrastructure Streaming - Publish** integration flow is triggered by a schedule, the recipe sends messages from Oracle Integration and publishes them to the specified stream pool in Oracle Cloud Infrastructure Streaming.
- When the **Oracle Cloud Infrastructure Streaming - Subscribe** is triggered by a schedule, the recipe consumes messages from the specified stream pool in Oracle Cloud Infrastructure Streaming, and publishes them to Oracle Integration.

System and Access Requirements

- Oracle Integration, Version 24.04 or higher
- Oracle Cloud Infrastructure Streaming

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Before You Install the Recipe

You must perform certain configuration tasks on your Oracle Cloud Infrastructure Streaming service to successfully connect to it from Oracle Integration, and send and receive messages.

See Prerequisites for Creating a Connection in *Using the Oracle Cloud Infrastructure Streaming Service Adapter with Oracle Integration 3*.

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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 **Use a recipe/accelerator** section, click **View all**.
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 Cloud Infrastructure Streaming Connection

1. In the Connections section, click the connection name.
2. In the Properties section, specify the host and port to use to connect to Oracle Cloud Infrastructure Streaming in the **Bootstrap Servers** field. For example:
`streaming.region_location.oci.oraclecloud.com:port.`

Where the *region_location* is found in the URL when you log in to the Oracle Cloud Infrastructure Console and *port* is the port value (for example, 9092).

 **Note:**

Do not include `https://` in the **Bootstrap Servers** field.

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

Field	Information to Enter
SASL Username	Enter the user name to access Oracle Cloud Infrastructure Streaming. This is a combination of the tenancy name, stream user name, and stream pool OCID separated by forward slashes (/). For example: <code>xxtenant/abcuser/yystreampoolocid</code> See Prerequisites for Creating a Connection.
SASL Password	Enter the password.
TrustStore (Optional)	Upload the trust store you generated. This field is optional.
TrustStore Password (Optional)	Enter the trust store password. This field is optional.

4. Click **Save**. If prompted, click **Save** again.

5. Configure an agent group for accessing the service hosted on your premises behind the fire wall. See [Configure an Agent Group](#).
6. Test your connection to ensure that it is configured successfully. Click **Test** in the connection window. In the resulting window, click **Test** again.
A message confirms if your test is successful.
7. To return to the project workspace, click **Go back** .

Configure the Integration Flow

To successfully publish messages to Oracle Cloud Infrastructure Streaming, you must edit the **PublishTo** endpoint in the **Oracle Cloud Infrastructure Streaming - Publish** integration flow.

1. In the Integrations section, click the integration flow name.
2. On the integration canvas, click the **Invoke** element, and then click **Actions . . .** and select **Edit** to edit the **PublishTo** endpoint.

Specify the stream and partition to which messages are to be sent and be sure to include a sample of the message structure. The integration has the following sample message structure that you'll need to replace. For details, see [Stream & Partition Page](#) and [Message Structure Page](#).

```
{
  "Id" : "123", [ ns2:getFlowId () ]
  "Country": "US",
  "State": "MA" ,
  "County": "Worcester"
}
```

3. 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 integration flow, then select **Run**.
 - b. On the Configure and run page, click **Run**.

You've now successfully submitted the integration for execution.

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. View the Activity stream to check if messages were sent successfully to Oracle Cloud Infrastructure Streaming or if messages sent from Oracle Cloud Infrastructure Streaming were consumed successfully by Oracle Integration.

Related Documentation

- [Using the Oracle Cloud Infrastructure Streaming Service Adapter with Oracle Integration 3](#)
- [Oracle Cloud Infrastructure Streaming Service documentation](#)