# Oracle® Cloud Using the Zendesk Adapter with Oracle Integration 3





Oracle Cloud Using the Zendesk Adapter with Oracle Integration 3,

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# Contents

#### Preface

Audience	\
Documentation Accessibility	١
Diversity and Inclusion	\
Related Resources	V
Conventions	V
Understand the Zendesk Adapter	
Zendesk Adapter Capabilities	1-1
What Application Version Is Supported?	1-1
Workflow to Create and Add a Zendesk Adapter Connection to an Integration	1-2
Create a Zendesk Adapter Connection	
Prerequisites for Creating a Connection	2-1
Create a Connection	2-3
Configure Connection Properties	2-4
Configure Connection Security	2-4
Configure the Endpoint Access Type	2-5
Test the Connection	2-6
Upload a Certificate to Connect with External Services	2-6
Add the Zendesk Adapter Connection to an Integration	
Basic Info Page	3-1
Trigger Conditions Page	3-1
Invoke Action Page	3-2
Invoke Operations Page	3-2
Summary Page	3-3



# 4 Implement Common Patterns Using the Zendesk Adapter

Synchronize Zendesk Tickets With ServiceNow Incidents	4-1
Synchronize ServiceNow Incidents and Attachments with Zendesk	4-3



## **Preface**

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



The use of this adapter may differ depending on the features you have, or whether your instance was provisioned using Standard or Enterprise edition. These differences are noted throughout this guide.

#### **Topics:**

- Audience
- Documentation Accessibility
- Diversity and Inclusion
- Related Resources
- Conventions

#### **Audience**

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

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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**

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.
italic	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 Zendesk Adapter

Review the following conceptual topics to learn about the Zendesk 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:

- Zendesk Adapter Capabilities
- What Application Version Is Supported?
- Workflow to Create and Add a Zendesk Adapter Connection to an Integration

# Zendesk Adapter Capabilities

The Zendesk Adapter enables you to create an integration with a Zendesk application. You can configure the Zendesk Adapter as a trigger or an invoke connection in an integration in Oracle Integration.

The Zendesk Adapter provides the following benefits:

- Supports connecting to private resources that are in your virtual cloud network (VCN) with a private endpoint. See Connect to Private Resources in *Provisioning and Administering Oracle Integration 3* and Configure the Endpoint Access Type. This type of connection does not use the connectivity agent.
- Provides trigger (source) connection support and enables you to set ticket conditions for the trigger to run and receive notifications whenever a ticket is created or updated.
- Provides invoke (target) connection support for performing the following types of actions against the selected module and operation:
  - Create or Update (create or update records in Zendesk)
  - Query (get records from Zendesk)
  - Delete (delete records from Zendesk)
  - Bulk Import (import bulk records into Zendesk)
- Supports Zendesk APIs protected using OAuth 2.0 three-legged authentication.

The Zendesk 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 Zendesk 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	Access Oracle Integration.	Go to https://instance_URL/ic/home
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 Zendesk 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 Zendesk Adapter Connection to an Integration.
4	Map data between the trigger connection data structure and the invoke connection data structure.	Map Data in Using Integrations in Oracle Integration 3
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</i> Integrations in Oracle Integration 3
6	Activate the integration.	Activate Integrations in Using Integrations in Oracle Integration 3
7	Monitor the integration on the dashboard.	Monitor Integrations During Runtime in Using Integrations in Oracle Integration 3
8	Track payload fields in messages during runtime.	Assign Business Identifiers for Tracking Fields in Messages and Track Integration Instances in <i>Using</i> Integrations in Oracle Integration 3
9	Manage errors at the integration level, connection level, or specific integration instance level.	Manage Errors in Using Integrations in Oracle Integration 3



# Create a Zendesk Adapter Connection

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

#### **Topics:**

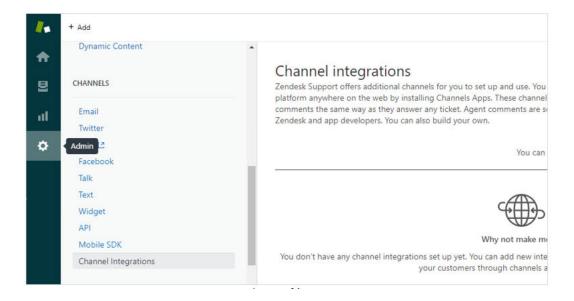
- Prerequisites for Creating a Connection
- Create a Connection
- Upload a Certificate to Connect with External Services

# Prerequisites for Creating a Connection

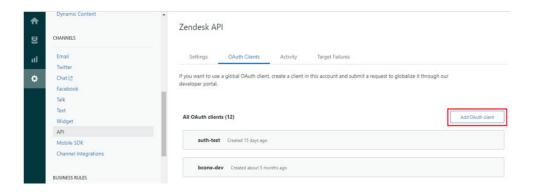
You must satisfy the following prerequisites to create a connection with the Zendesk Adapter:

#### Create an OAuth Client

Log in to your Zendesk admin account and click Admin (



- 2. Under Channels, select API.
- 3. Click the OAuth Clients tab, and then click Add OAuth Client.



- 4. Enter the relevant information to create a client:
  - Client Name: Enter a name for your app. You must enter this value in the Client Id field when you configure security for your Zendesk Adapter connection in Oracle Integration. See Configure Connection Security.
  - Redirect URLs: Enter the redirect URL or URLs in the following format:



If you don't know the following information, check with your administrator:

- If your instance is new or upgraded from Oracle Integration
   Generation 2 to Oracle Integration 3.
- The complete instance URL with the region included (required for new instances).

For Connections		Example of Redirect URL to Specify
Created on new Oracle Integration 3 instances	Yes.	https:// OIC_instance_URL.region.ocp.oracle cloud.com/icsapis/agent/oauth/ callback
Created on instances upgraded from Oracle Integration Generation 2 to Oracle Integration 3	No. This applies to both:  New connections created after the upgrade Existing connections that were part of the upgrade	https:// OIC_instance_URL.ocp.oraclecloud.c om/icsapis/agent/oauth/callback

5. Click Save.

The system generates the client secret.

- Copy the secret value. You must enter this value in the Client Secret field when you
  configure security for your Zendesk Adapter connection in Oracle Integration. See
  Configure Connection Security.
- 7. Click Save.

#### Create a Connection

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

To create a connection in Oracle Integration:

- 1. In the navigation pane, click **Design**, then **Connections**.
- 2. Click Create.



You can also create a connection in the integration canvas. See Define Inbound Triggers and Outbound Invokes.

- 3. In the Create connection panel, 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.
- 4. 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 <b>Name</b> field. If you modify the identifier name, don't include blank spaces (for example, SALES OPPORTUNITY).
Role	Select the role (direction) in which to use this connection (trigger, invoke, or both). Only the roles supported by the adapter are displayed for selection. 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.
	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.
Keywords	Enter optional keywords (tags). You can search on the connection keywords on the Connections page.



Element	Description
Description	Enter an optional description of the connection.
Share with other projects	<b>Note</b> : This field only appears if you are creating a connection in a project.
	Select to make this connection publicly available in other projects. Connection sharing eliminates the need to create and maintain separate connections in different projects.
	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.
	See Add and Share a Connection Across a Project.

#### Click Create.

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

#### **Configure Connection Properties**

Enter connection information so your application can process requests.

- 1. Go to the **Properties** section.
- 2. In the **Zendesk Host** field, enter the Zendesk instance host name. For example:

your subdomain.zendesk.com

#### **Configure Connection Security**

Configure security for your Zendesk Adapter connection.

- 1. Go to the Security section.
- 2. In the **Client Id** field, enter the client ID that you obtained after performing the steps in the prerequisites section. See Create an OAuth Client.
- 3. In the **Client Secret** field, enter the client secret that you obtained after performing the steps in the prerequisites section. See Create an OAuth Client.
- 4. (Optional) In the Scope field, enter write to perform a create or update operation. To perform a create or update operation on a particular module, enter module\_name:write (for example, users:write, tickets:write, and organizations:write). For multiple modules, you must ensure that space-separated or comma-separated scopes are provided in this field. For example, enter:
  - module\_name1:write module\_name2:write or
  - module name1:write,module name2:write



If you do not provide any value for the scope, read is added by default. The default scope is read, which is required to access metadata APIs such as the following:

- GET /api/v2/ticket fields
- GET /api/v2/user fields
- GET /api/v2/organization fields
- **5.** Click **Provide Consent** to verify the connection properties and get an access token.

The Zendesk application login page is displayed.

- 6. Enter your Zendesk login credentials.
- 7. Once you see an access allowed message, you can test your 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
- Ensure Private Endpoint Configuration is Successful

#### **Select the Endpoint Access Type**

Select the option for accessing your endpoint.

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

#### **Ensure Private Endpoint Configuration is Successful**

- To connect to private endpoints, you must complete prerequisite tasks in the Oracle Cloud Infrastructure 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**.
- IPSec tunneling and FastConnect are not supported for use with private endpoints.



#### Test the Connection

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

 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> <li>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.</li> <li>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.</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.

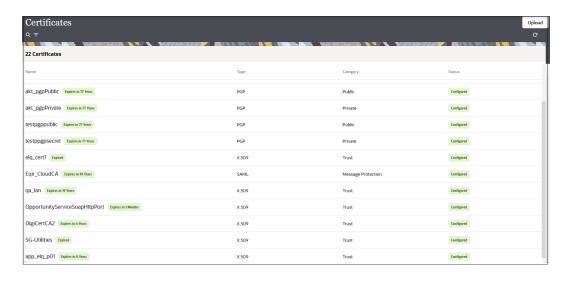
# Upload a Certificate to Connect with External Services

Certificates allow Oracle Integration to connect with external services. If the external service/endpoint needs a specific certificate, request the certificate and then import it into Oracle Integration.

If you make an SSL connection in which the root certificate does not exist in Oracle Integration, an exception error is thrown. In that case, you must upload the appropriate certificate. A certificate enables Oracle Integration to connect with external services. If the external endpoint requires a specific certificate, request the certificate and then upload it into Oracle Integration.

- 1. Sign in to Oracle Integration.
- In the navigation pane, click Settings, then Certificates.
   All certificates currently uploaded to the trust store are displayed on the Certificates page.
- 3. Click Filter to filter by name, certificate expiration date, status, type, category, and installation method (user-installed or system-installed). Certificates installed by the system cannot be deleted.





- Click **Upload** at the top of the page.The Upload certificate panel is displayed.
- 5. Enter an alias name and optional description.
- In the **Type** field, select the certificate type. Each certificate type enables Oracle Integration to connect with external services.
  - Digital Signature
  - X.509 (SSL transport)
  - SAML (Authentication & Authorization)
  - PGP (Encryption & Decryption)
  - Signing key

#### **Digital Signature**

The digital signature security type is typically used with adapters created with the Rapid Adapter Builder. See Learn About the Rapid Adapter Builder in Oracle Integration in *Using the Rapid Adapter Builder with Oracle Integration 3*.

- Click Browse to select the digital certificate. The certificate must be an X509Certificate.
   This certificate provides inbound RSA signature validation. See Implement Digital Signature Validation (RSA) in Using the Rapid Adapter Builder with Oracle Integration 3.
- 2. Click Upload.

#### X.509 (SSL transport)

- Select a certificate category.
  - a. Trust: Use this option to upload a trust certificate.
    - Click Browse, then select the trust file (for example, .cer or .crt) to upload.
  - b. Identity: Use this option to upload a certificate for two-way SSL communication.
    - i. Click **Browse**, then select the keystore file (.jks) to upload.
    - ii. Enter the comma-separated list of passwords corresponding to key aliases.



#### Note:

When an identity certificate file (.jks) contains more than one private key, all the private keys must have the same password. If the private keys are protected with different passwords, the private keys cannot be extracted from the keystore.

- iii. Enter the password of the keystore being imported.
- c. Click Upload.

#### **SAML (Authentication & Authorization)**

- Note that Message Protection is automatically selected as the only available certificate category and cannot be deselected. Use this option to upload a keystore certificate with SAML token support. Create, read, update, and delete (CRUD) operations are supported with this type of certificate.
- 2. Click Browse, then select the certificate file (.cer or .crt) to upload.
- Click Upload.

#### **PGP (Encryption & Decryption)**

- Select a certificate category. Pretty Good Privacy (PGP) provides cryptographic
  privacy and authentication for communication. PGP is used for signing, encrypting,
  and decrypting files. You can select the private key to use for encryption or
  decryption when configuring the stage file action.
  - a. **Private**: Uses a private key of the target location to decrypt the file.
    - i. Click **Browse**, then select the PGP file to upload.
    - ii. Enter the PGP private key password.
  - b. **Public**: Uses a public key of the target location to encrypt the file.
    - Click Browse, then select the PGP file to upload.
    - ii. In the ASCII-Armor Encryption Format field, select Yes or No.
      - Yes shows the format of the encrypted message in ASCII armor.
         ASCII armor is a binary-to-textual encoding converter. ASCII armor
         formats encrypted messaging in ASCII. This enables messages to be
         sent in a standard messaging format. This selection impacts the
         visibility of message content.
      - No causes the message to be sent in binary format.
    - iii. From the Cipher Algorithm list, select the algorithm to use. Symmetric-key algorithms for cryptography use the same cryptographic keys for both encryption of plain text and decryption of cipher text. The following supported cipher algorithms are FIPS-compliant:
      - AES128
      - AES192
      - AES256
      - TDES
  - c. Click Upload.



#### Signing key

A signing key is a secret key used to establish trust between applications. Signing keys are used to sign ID tokens, access tokens, SAML assertions, and more. Using a private signing key, the token is digitally signed and the server verifies the authenticity of the token by using a public signing key. You must upload a signing key to use the OAuth Client Credentials using JWT Client Assertion and OAuth using JWT User Assertion security policies in REST Adapter invoke connections. Only PKCS1- and PKCS8-formatted files are supported.

- 1. Select Public or Private.
- Click Browse to upload a key file.
   If you selected Private, and the private key is encrypted, a field for entering the private signing key password is displayed after key upload is complete.
- **3.** Enter the private signing key password. If the private signing key is not encrypted, you are not required to enter a password.
- 4. Click Upload.



# Add the Zendesk Adapter Connection to an Integration

When you drag the Zendesk 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 Zendesk Adapter endpoint properties.

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

#### **Topics:**

- · Basic Info Page
- Trigger Conditions Page
- Invoke Action 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	
What do you want to call your endpoint?	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:	
	No blank spaces (for example, My Inbound Connection)	
	<ul> <li>No special characters (for example, #;83&amp; or righ(t) now4)</li> <li>except underscores and hyphens</li> </ul>	
	No multibyte characters	
What does this endpoint do?	Enter an optional description of the connection's responsibilities. For example:	
	This connection receives an inbound request to synchronize account information with the cloud application.	

# **Trigger Conditions Page**

Specify the ticket conditions that must be met for the trigger to run.

 Trigger should meet ALL of the following conditions: All trigger conditions must be met for the trigger to run. • Trigger should meet ANY of the following conditions: Either condition must be met for the trigger to run.

Element	Description
Field	Select the application field names to use in the condition.
Operator	Select the operator to use for the trigger condition. Available operators depend on the field name selected.
Value	Enter or select the value. A trigger condition value is the value to which the selected field is compared.
Remove	Click to remove the selected condition.

# **Invoke Action Page**

Select the type of action to perform.

Element	Description
Select action type	<ul> <li>Query information: Retrieves information from the Zendesk application corresponding to the selected module and operation.</li> </ul>
	<ul> <li>Create, update, or delete information: Creates a new record, updates an existing record, or deletes a record in/ from the Zendesk application. Operations such as Create Ticket, Update User, Permanently Delete a Ticket, and so on are performed.</li> </ul>
	<ul> <li>Import bulk data: Imports a large volume of records into Zendesk (for example, Bulk Update Users and Update Tickets in Batches).</li> </ul>

# **Invoke Operations Page**

Select the module and operation to perform on the Zendesk application.



If you cannot see one or more custom fields in the mapper or API response after you configured the operations related to the Tickets module, you must regenerate the Zendesk endpoint to see the missing fields.

Element	Description
Select Create, Update or Delete	Displays the following options: Create, Update, and Delete.
(Displayed if the Create, update, or delete information option is selected on the Action page.)	



Element	Description
Select module	Select a module, such as <b>Tickets</b> , <b>Users</b> , <b>Organization</b> , and so on.
Filter by module name	Type the initial letters of the module name to filter the display of names in the list.
Select operation	Select an operation name, such as Create Ticket.
Filter by operation name	Type the initial letters of the operation name to filter the display of names in the list.
Specify the number of records per page (Default:20 and Max:100)	Enter a numerical value between 1 - 100 as the number of records to return per API call. The default value is 20.

# **Summary Page**

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

Element	Description
Summary	Displays a summary of the configuration values you defined on previous pages of the wizard.
	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.
	To return to a previous page to update any values, click the appropriate tab in the left panel or click <b>Go back</b> .
	To cancel your configuration details, click Cancel.



4

# Implement Common Patterns Using the Zendesk Adapter

You can use the Zendesk Adapter to implement the following common pattern.

#### Topics:

- Synchronize Zendesk Tickets With ServiceNow Incidents
- Synchronize ServiceNow Incidents and Attachments with Zendesk



Oracle Integration offers a number of prebuilt integrations, known as *recipes*, that provide you with a head start in building your integrations. You can start with a recipe, and then customize it to fit your needs and requirements. Depending upon the solution provided, a variety of adapters are configured in the prebuilt integrations.

See the Recipes and Accelerators page on the Oracle Help Center.

# Synchronize Zendesk Tickets With ServiceNow Incidents

This use case describes how to use the Zendesk Adapter to synchronize Zendesk tickets updated at or after a certain time with ServiceNow incidents. The tickets updated in Zendesk are fetched and the details of the ticket are added as an incident in ServiceNow. This implementation pattern provides an overview of the steps.

- 1. Create a scheduled orchestrated integration.
- 2. Create a schedule variable to store the last run time.

```
$lastrun=""
```

- 3. Drag and drop an assign action and create two variables:
  - Flag variable to check whether the loop has completed or not:

```
$flag="false"
```

• Link variable to store the next page's value:

```
$link=""
```

4. Drag a while action and specify the condition as follows:

```
$flag="false"
```

- 5. Drag a Zendesk Adapter and configure it as follows.
  - a. On the Basic info page, provide an endpoint name, and click **Next**.
  - **b.** On the Action page, select **Query information**, and click **Next**.
  - c. On the Operations page, select the Tickets module and Search Zendesk Modules operation, provide a value for the number of records per page, and click Done.
  - d. On the Summary page, review your selections, and click **Done**.
- **6.** In the mapper, enter the following expression for the **Query** request parameter.

```
concat (dvm:lookupValue ("tenant/resources/dvms/
Zendesk_Query_Parameter",
"QueryParameter", "Query", "zendesk", "" ), xp20:format-dateTime
($lastrun, "[Y001]-[M01]-[D01]" ) )
```

Lookups are used here to pass the value type:ticket updated>= to the parameter query.

- 7. Drag a for-each action and assign **results** as the repeating element.
- 8. Drag a ServiceNow Adapter and configure it as follows:
  - a. On the Basic info page, provide an endpoint name, and click **Next**.
  - b. On the Action page, select Query Information, and click Next.
  - c. On the Operations page, select the **Get one or more records from the** selected **Module/Table based on provided filter parameters** operation, **Incident** application, and **Incident** module.
  - d. On the Summary page, review your selections, and click **Done**.
- 9. Perform the required mapping.
- 10. Drag a switch action into the canvas to check whether or not sys id contains data.

```
sys id=0.0
```

When  ${\tt sys\_id}$  is null, the incident is created. Otherwise, the existing incident is updated.

**11.** Drag a switch action and assign a condition to check whether or not <code>next\_page</code> contains data.

```
next page != ""
```

a. If the condition statement evaluates to true, assign the link and flag variables as follows:

```
$link="next_page"
$flag="false"
```



b. If the condition statement evaluates to false, assign the flag variable as follows:

```
$flag="true"
```

12. Update the specified lastrun variable as follows:

```
$lastrun=startTime
```

**13.** When complete, save and activate the integration.

# Synchronize ServiceNow Incidents and Attachments with Zendesk

This use case describes how to use the Zendesk Adapter to synchronize a ServiceNow incident and attachments with Zendesk. The details of the incident are added as a ticket in Zendesk, along with the attachments. This implementation pattern provides an overview of the steps.

- 1. Create an app-driven orchestrated integration.
- 2. Drag a ServiceNow Adapter into the integration canvas and configure it as follows:
  - a. On the Basic info page, provide an endpoint name, and click Next.
  - On the Applications page, select the Incident application, the Incident module, and click Next.
  - c. On the Fields page, select the required fields, and click Next.
  - d. On the Conditions Page, select Created, and click Next.
  - e. On the Response page, click Next.
  - f. On the Summary page, review your selections, and click **Done**.
- Drag an assign action into the integration canvas and create three variables:
  - Flag variable to check whether the loop is completed or not:

```
$flag="false"
```

Link variable to store the next page's value:

```
$link=""
```

Token variable to store the attachment token:

```
$token=""
```

4. Drag a while action into the integration canvas and specify the following condition:

```
$flag !="true"
```

- 5. Drag a ServiceNow Adapter into the integration canvas and configure it as follows:
  - a. On the Basic Info page, provide an endpoint name, and click **Next**.



- **b.** On the Action page, select **Attachment Information**.
- c. On the Operations page, select the Retrieve attachment /s metadata of a record /s operation, the Multiple Attachments Metadata option, and click Next.
- d. Review your selections on the Summary page.
- 6. Drag a for-each action into the integration canvas and assign **result** as the repeating element.
- 7. Drag a ServiceNow Adapter into the integration canvas and configure it as follows:
  - a. On the Basic Info page, provide an endpoint name, and click **Next**.
  - **b.** On the Action page, select **Attachment Information**.
  - c. On the Operations page, select the **Download attachment of a specific record from the module/table** operation, and click **Next**.
  - Review your selections on the Summary page.
- 8. Perform the required mapping.
- Drag a Zendesk Adapter connection into the integration canvas and configure the endpoint.
  - a. On the Basic Info page, provide an endpoint name, and click Next.
  - b. On the Action page, select **Create**, **update** or **delete Information**.
  - **c.** On the Operations page, select the **Tickets** module, the **Upload Attachment** operation, and click **Next**.
  - d. Review your selections on the Summary page.
- **10.** Drag an assign action into the integration canvas and assign a value to the token parameter as follows:

```
$token=token
```

**11.** Drag a switch action into the integration canvas to check whether or not link and Pagination Object contain data.

```
link !=0.0
count( PaginationObject) !=0.0
```

a. If the condition statement evaluates to true, assign the link and flag variables as follows:

```
$link=link
$flaq="false"
```

b. If the condition statement evaluates to false, assign the flag variable as follows:

```
$flag="true"
```

**12.** Drag a Zendesk Adapter connection into the integration canvas and configure the endpoint.



- a. On the Basic Info page, provide an endpoint name, and click Next.
- b. On the Action page, select **Create**, **update** or **delete Information**.
- **c.** On the Operations page, select the **Tickets** module, the **Create Ticket** operation, and click **Next**.
- **d.** Review your selections on the Summary page.
- **13**. Perform the required mapping.
- **14.** When complete, save and activate the integration.

