Oracle® Cloud Using the SAP S/4HANA Cloud Adapter with Oracle Integration 3





Oracle Cloud Using the SAP S/4HANA Cloud Adapter with Oracle Integration 3,

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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.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at https://www.oracle.com/corporate/accessibility/.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit https://support.oracle.com/portal/ or visit Oracle Accessibility Learning and Support if you are hearing impaired.

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 SAP S/4HANA Cloud Adapter

Review the following conceptual topics to learn about the SAP S/4HANA Cloud 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:

- SAP S/4HANA Cloud Adapter Capabilities
- What Application Version Is Supported?
- Workflow to Create and Add an SAP S/4HANA Cloud Adapter Connection to an Integration



There are overall service limits for Oracle Integration. A service limit is the quota or allowance set on a resource. See Service Limits.

SAP S/4HANA Cloud Adapter Capabilities

The SAP S/4HANA Cloud Adapter enables you to create an integration with an SAP S/4HANA Cloud application. You can configure the SAP S/4HANA Cloud Adapter as an invoke connection in an integration in Oracle Integration.

The SAP S/4HANA Cloud 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.
- Enables simplified integration with the SAP S/4HANA Cloud application.
- Discovers business objects and operations and provides easy mapping to SAP S/4 HANA business objects.
- Provides invoke (target) connection support for performing the following types of actions against the selected business object and operation:
 - Query (get records from SAP S/4HANA Cloud)
 - Create (create records in SAP S/4HANA Cloud)
 - Update (update records in SAP S/4HANA Cloud)
 - Delete (delete a record in SAP S/4HANA Cloud)
- Supports all custom objects defined by the user and custom fields created at SAP S/
 4HANA Cloud along with the standard objects and fields.
- Supports SAP S/4HANA OData APIs protected using basic authentication and client certificate-based authentication.

The SAP S/4HANA Cloud Adapter is one of many predefined adapters included with Oracle Integration. You can configure the SAP S/4HANA Cloud Adapter as an invoke connection in an integration in Oracle Integration.

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 an SAP S/4HANA Cloud 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 an SAP S/4HANA Cloud Adapter Connection
3	Create the integration. When you do this, you add trigger (source) and invoke (target) connections to the integration. Create Integrations in Using Ir in Oracle Integration 3 and Ad S/4HANA Cloud Adapter Conran 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 Using Integrations in Oracle Integration 3
6	Activate the integration.	Activate Integrations in Using Integrations in Oracle Integration 3
· · · · · · · · · · · · · · · · · · ·		Monitor Integrations During Runtime in Using Integrations in Oracle Integration 3
8	Track payload fields in messages during runtime. Assign Business Identifiers for Fields in Messages and Track Instances in Using Integrations 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 an SAP S/4HANA Cloud 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 prerequisite to create a connection with the SAP S/4HANA Cloud Adapter.

- Prerequisites to Use the Basic Authentication Security Policy
- Prerequisites to Use the Client Certificate-Based Security Policy

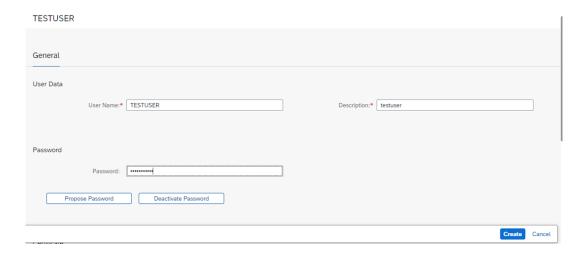
Prerequisites to Use the Basic Authentication Security Policy

You must satisfy the following prerequisites if you want to use the Basic Authentication security policy with the SAP S/4HANA Cloud Adapter.

- Create a Communication User
- Create a Communication System
- Create a Communication Arrangement

Create a Communication User

- 1. Log in to the SAP S/4HANA Cloud application with administrator credentials.
- 2. Search for Communication Management in the search box in the upper right pane, then click Maintain Communication Users in the search results.
- 3. Click **New** to create a new communication user.
- **4.** On the Create Communication User page, enter a user name, description, and password. You can click **Propose Password** to get a system-generated password.



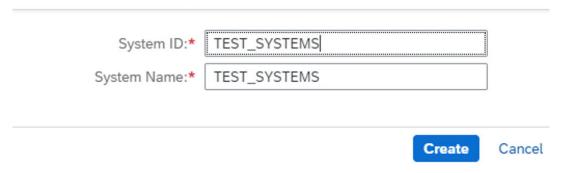
- Copy the user name and password for your communication user.
 You'll need to enter those values on the Connections page when you configure security for your SAP S/4HANA Cloud Adapter connection in Oracle Integration. See Configure Connection Security.
- Click Create.

Create a Communication System

Perform the following steps to create a communication system and assign a communication user to the communication system.

- 1. Log in to the SAP S/4HANA Cloud application with administrator credentials.
- 2. Search for Communication Management in the search box in the upper right pane, then click Communication Systems in the search results.
- 3. Click **New** to create a new communication system.
- 4. Enter a system ID and system name, then click Create.

New Communication System



- Click a communication system in the list.
- 6. Under **Technical Data**, enter the host name of your SAP S/4HANA Cloud tenant in the following format.

myxxxxxx.s4hana.ondemand.com

Click the User for Inbound Communication tab, then click the add (+) icon.



- Assign the communication user you created and select the authentication method as User Name and Password.
- Click Save.

Create a Communication Arrangement

- Log in to the SAP S/4HANA Cloud application with administrator credentials.
- Search for Communication Management in the search box in the upper right pane, then click Communication Arrangements in the search results.
- Click New to create a new communication arrangement.
- Select your communication scenario, enter an arrangement name, and click Create.
- Click a communication arrangement in the list. The inbound communication user is automatically assigned.
- 6. Under Inbound Services, the service URL to call the OData service can be found in the following format:

https://your-system-api.s4hana.ondemand.com/sap/opu/odata/sap/API-name

7. Click Save.

Prerequisites to Use the Client Certificate-Based Security Policy

You must satisfy the following prerequisites if you want to use the Client Certificate-based security policy with the SAP S/4HANA Cloud Adapter.

- Create a Communication User
- Create a Communication System
- Create a Communication Arrangement
- Upload the Client Certificate X.509 Certificate into Oracle Integration

Create a Communication User

- 1. Log in to the SAP S/4HANA Cloud application with administrator credentials.
- Search for Communication Management in the search box in the upper right pane, then click Maintain Communication Users in the search results.
- Click New to create a new communication user.
- On the Create Communication User page, enter a user name, description, and password.
 You can click Propose Password to get a system-generated password.
- Upload the certificate (.pem file) on the Certificates page. To create a trusted Certificate
 Authority (CA)-signed X.509 certificate, see S/4HANA Cloud APIs with Client Certificate
 Authentication.
- Click Create.

Create a Communication System

Perform the following steps to create a communication system and assign a communication user to the communication system.

Log in to the SAP S/4HANA Cloud application with administrator credentials.



- Search for Communication Management in the search box in the upper right pane, then click Communication Systems in the search results.
- Click New to create a new communication system.
- 4. Enter a system ID and system name, then click **Create**.
- Click a communication system in the list.
- 6. Under Technical Data, enter localhost in the Host Name field.
- 7. In the **Logical System** field, enter a system name.
- 8. Click the User for Inbound Communication tab, then click the add (+) icon.
- Assign the communication user you created and select the authentication method as SSL Client Certificate.
- 10. Click the User for Outbound Communication tab, then click the add (+) icon.
- 11. Select the authentication method as **User Name and Password**, and enter the user name and password.
- 12. Click Create.
- 13. Click Save.
- 14. Check that the status is Active.

Create a Communication Arrangement

Follow the steps to create a communication agreement. See Create Communication Agreement.

Upload the Client Certificate X.509 Certificate into Oracle Integration

Upload the X.509 client certificate. See Upload a Certificate to Connect with External Services.

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**.
- 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 Name 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 invoke . Dragging the adapter to a trigger section in the integration produces an error.
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	Note : 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 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.
	See Add and Share a Connection Across a Project.

5. 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 SAP S4HANA Host field, enter the SAP S/4HANA host name. For example:

https://host name-api.s4hana.ondemand.com

Configure Connection Security

Configure security for your SAP S/4HANA Cloud Adapter connection.

- Go to the Security section.
- 2. From the **Security Policy** list, select the security policy.
 - Basic Authentication
 - Client Certificate based Security Policy
- 3. If you select Basic Authentication:
 - a. In the Username field, enter the communication user name that you obtained after performing the steps in the prerequisites section. See Create a Communication User.
 - b. In the Password field, enter the password for the communication user that you obtained after performing the steps in the prerequisites section. See Create a Communication User.
- If you select Client Certificate based Security Policy:
 - In the Identity keystore Alias Name field, provide the identity keystore alias name of the X.509 certificate that you uploaded into Oracle Integration. See Prerequisites to Use the Client Certificate-Based Security Policy.

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.
- 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, verify URLs and credentials, and download the diagnostic logs for additional details.
 Continue to test until the connection is successful.
- 3. When complete, click Save.

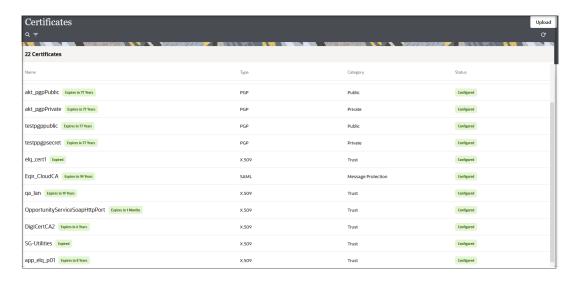
Upload a Certificate to Connect with External Services

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 RSA Signature Validation 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.
 - i. 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.
 - i. 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.

- 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 SAP S/4HANA Cloud Adapter Connection to an Integration

When you drag the SAP S/4HANA Cloud Adapter into the invoke area of an integration, the Adapter Endpoint Configuration Wizard is invoked. This wizard guides you through configuration of the SAP S/4HANA Cloud Adapter endpoint properties.

The following sections describe the wizard pages that guide you through configuration of the SAP S/4HANA Cloud Adapter as an invoke in an integration. You cannot use the SAP S/4HANA Cloud Adapter as a trigger in an integration.

Topics:

- Basic Info Page
- Invoke Operations Page
- Invoke Action 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) No special characters (for example, #;83& or righ(t)now4) except underscores and hyphens 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.	

Invoke Operations Page

Select the action type to perform on the SAP S/4HANA Cloud application.

Element	Description	
Which action do you want to perform on SAP S4HANA?	 Query: Retrieves information from the SAP S/4HANA Cloud application corresponding to the selected module and operation. Create: Creates new records in the SAP S/4HANA Cloud application. Update: Updates the existing records in the SAP S/4HANA Cloud application. Delete: Deletes a record from the SAP S/4HANA Cloud application. 	
Select Module	Select a module name, such as API_SALES_ORDER_SRV, API_PRODUCT_SRV, and so on.	
Select Entity	Select an entity name, such as A_CustomerGroupType , A_PlannedOrderCapacityType , and so on.	
Select Operation	Select an operation name, such as Get specific item from the collection A_SalesOrderType.	

Invoke Action Page

If you selected **Query** on the Operations page, the following options are displayed.

Element	Description
Configure \$expand query option. This enables to expand navigation properties in response.	Select this checkbox if you want to make use of the \$expand option in the query. As a result, the selected response property/properties appears/appear as expanded in the response.
	 If you select this checkbox, the following options are displayed. Filter by navigation property name: Type the initial letters of the navigation property name to filter the display of names in the list. Configure expand parameters: Select the navigation property such as to_BillingDocument, to_CustomerGroup, and so on. Your selected expand parameters: Displays the selected navigation property.
Configure \$select option. This enables to select only the required properties in response.	Select this checkbox to limit the properties to receive in the response. If you do not select this checkbox, all the fields appear in the response by default. If you select this checkbox, the following options are displayed. Filter by field name: Type the initial letters of the field name to filter the display of names in the list. Configure fields: Select a field such as CustomerGroup, SalesOrder, and so on. Your selected fields: Displays the selected fields.



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 Go back .
	To cancel your configuration details, click Cancel.



4

Implement Common Patterns Using the SAP S/4HANA Cloud Adapter

You can use the SAP S/4HANA Cloud Adapter to implement the following common pattern.

Topics:

 Use the SAP S/4HANA Cloud Business Partner Records to Create Salesforce Customer Accounts

Use the SAP S/4HANA Cloud Business Partner Records to Create Salesforce Customer Accounts

You can use the business partner (customer) records of SAP S/4HANA Cloud to create customer accounts in the Salesforce application. The business partner (customer) records updated in SAP S/4HANA Cloud are fetched and the business partner address details are used to create accounts in the Salesforce application. This implementation pattern provides an overview of the steps.

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

```
$lastrun=""
```

- 3. Drag an SAP S/4HANA Cloud Adapter into the canvas and configure it as follows to get all the business partner records available in the host URL configured in the SAP S/4HANA Cloud connection.
 - a. On the Basic info page, provide an endpoint name.
 - b. On the Operations page, select the Query action, API_BUSINESS_PARTNER module, A_BusinessPartnerType entity, and GetAll entities in the collections of A_BusinessPartnerType operation.
 - c. On the Action page, select the Configure \$expand query option. This allows to expand navigation properties in response check box.
 - d. Select the required navigation property from the Configure expand parameters list (for this example, to_BusinessPartnerAddress, to_BusinessPartnerBank, to BusinessPartnerContact, to Customer, and so on are selected).
 - e. On the Summary page, review your selections.
- 4. Drag a for-each action into the canvas and assign results as the repeating element.
- 5. Drag a switch action into the canvas to check whether or not the business partner (customer) record is null.

customer=""

When the business partner (customer) record is not null, an SAP S/4HANA Cloud Adapter is configured to get the business partner address. These business partner address details are used to create the customer accounts in Salesforce.

- 6. Drag a second SAP S/4HANA Cloud Adapter into the canvas and configure it as follows.
 - a. On the Basic info page, provide an endpoint name.
 - b. On the Operations page, select the Query action, API_BUSINESS_PARTNER module, A_BusinessPartnerAddressType entity, and Get specific item from the collection A_BusinessPartnerAddressType operation.
 - c. On the Action page, select the Configure \$expand query option. This allows to expand navigation properties in response check box.
 - d. Select the required navigation property from the Configure expand parameters list (for this example, to_AddressUsage, to_EmailAddress, to_FaxNumber, to_MobilePhoneNumer, to_PhoneNumer, and to_URLAddress are selected).
 - e. On the Summary page, review your selections.
- Perform the required mapping.
- 8. Drag a Salesforce Adapter into the canvas and configure it as follows:
 - a. On the Basic Info page, provide a name.
 - b. On the Action page, select **Create**, **Update Or Delete Information**.
 - On the Operations page, select the Create operation, Account business object, and Use Default Header check box.
 - d. On the Summary page, review your selections.
- In the mapper, map Account Number to Customer, Billing City to City Name, Billing Zip/Postal Code to Postal Code, and Account Name to Business Partner Name.
- 10. When complete, save and activate the integration.

