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Connect to ABAP Systems

Send feedback

For applications that do not need to run on Cloud Foundry, establish a connection to an ABAP back-end system by creating one destination for multi-usage.

Prerequisites

- You must have an Administrator or Developer role to modify destinations.

- Make sure you are using OData Version 2.0 only.

- If your remote system resides behind a firewall (proxy type `OnPremise`), the following prerequisites must be met:

    - You have set up the Cloud Connector and defined a virtual host mapping for the system.

      See Cloud Connector (https://help.sap.com/viewer/cca91383641e40ffbe03bdc78f00f681/Cloud /en-US/e6c7616abb5710148cfcf3e75d96d596.html).

    - In the **Access Control** tab page of SAP Cloud Platform connector, you have granted access to the URL paths (Resources) for the required usages (for **Access Policy**, select option **Path and all sub-paths**):

        - `/sap/opu/odata`

          for the OData functionality of Gateway

        - `/sap/bc/ui5_ui5`

          for executing SAPUI5 applications from the SAPUI5 ABAP Repository

        - `/sap/bc/adt`

        - `/sap/bc/ui2/app_index/`

for extensibility/import scenarios and developing or deploying to SAPUI5 ABAP Repository

- /sap/bc/bsp

- /sap/bc/ui2

  for working with fact sheets

- /sap/hba

  for SAP HANA XS OData services

See Configuring Access Control (HTTP) (https://help.hana.ondemand.com/help/frameset.htm?e7d4927dbb571014af7ef6ebd6cc3511.html).

Context

For every system that you want to connect to, you create one multi-usage destination. You enter the required usages as a value for the property **WebIDEUsage**.

Procedure

1. Log on with a user (who is an account member) to the SAP Cloud Platform cockpit in your region. See Regions and Hosts (https://help.sap.com/viewer/65de2977205c403bbc107264b8eccf4b/Cloud/en-US/350356d1dc314d3199dca15bd2ab9b0e.html) for a list of all available regions.

   > **i Note**
   >
   > You can access the SAP Cloud Platform cockpit from SAP Web IDE by selecting **Tools** > **SAP Cloud Platform Cockpit** .

2. Open the **Destinations** editor.

3. Choose **New Destination**.

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4. Configure the destination as follows:

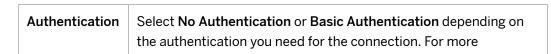| Property	Value
Name	Provide a name for the destination that includes the desired service.
Type	HTTP
Description	(Optional) Provide a description for the destination
URL	`<protocol>://<host>:<port>` `<protocol>://<virtual host>:<virtual port>` (if you are using SAP Cloud Platform connector) ⓘ Note ○ Do not add the URL path for the usage (for example, `/sap/opu/odata`). ○ When connecting an ABAP system that has several application servers, make sure the host is not configured as the message server used for load balancing of HTTP requests. This will cause issues during deployment.
Proxy Type	Select `Internet` or `OnPremise`, depending on the connection you need to provide for your application. ○ If your remote system is publicly accessible on the internet, select `Internet`. ○ If your remote system resides behind a firewall, select `OnPremise`.

| Authentication | Select **No Authentication** or **Basic Authentication** depending on the authentication you need for the connection. For more |

Property	Information, see Creating HTTP Destinations Value (https://help.hana.ondemand.com/help/frameset.htm? 1e110da0ddd8453aaf5aed2485d84f25.html).

5. In the **Additional Properties** section, choose **New Property** for each of the properties described below.

Key	Value

WebIDEUsage	Enter one or more of the following values:
	
	○ `odata_abap`:
	
	    for the OData functionality of Gateway (corresponds to URL path `/sap/opu/odata`)
	
	○ `odata_gen`:
	
	    for generic OData functionality (service URL must be provided manually in the New Project wizard)
	
	⚠ **Caution**
	
	    Enter either the `odata_abap` value or the `odata_gen` value. Do not use both values at the same time.
	
	○ `ui5_execute_abap`:
	
	    for executing SAPUI5 applications from the SAPUI5 ABAP Repository (corresponds to URL path `/sap/bc/ui5_ui5`)
	
	○ `dev_abap`:
	
	    for extensibility scenarios and developing or deploying to SAPUI5 ABAP Repository (corresponds to URL path `/sap/bc/adt`)
	
	○ `bsp_execute_abap`:

Key	Value
	for working with fact sheets (corresponds to URL path `/sap/bc/bsp`)

- `plugin_repository`:

  for exposing optional plugin repositories (corresponds to URL path `/plugins/pluginrepository`)

- `odata_xs`

  for SAP HANA XS OData services (corresponds to URL path `/sap/hba`)

- `api_mgmt_catalog`

  for the API management system

- `api_mgmt_proxy`

  for the API's endpoint

- `odata_smp`

  for accessing OData Services in an SAP Mobile Platform system

- `odata_hcp_odp`

  for accessing OData services in an OData Provisioning system on Cloud Platform

- `odata_hci`

  for accessing OData services in a HANA Cloud Integration system on Cloud Platform. To complete the setup, you also need to configure an additional destination, representing an integration flow node, with `hci_ifl_node` as the value for WebIDEUsage property.

- `hci_ifl_node`

  for setting up the integration flow node in the HANA

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Key	Value
	Cloud Integration system on Cloud Platform
	○ `smart_business_odata` for smart buisness OData services ○ `smart_business_gen` for smart buisness annotation generation services ⓘ Note ○ In order to import an application from your ABAP system and execute it, the following WebIDEUsage property values are needed: dev_abap, odata_abap, and ui5_execute_abap. ○ When you enter multiple usages for a destination, separate them by commas without spaces (for example, `odata_abap,ui5_execute_abap`).
WebIDEEnabled	true
WebIDESystem	<SAP system_ID>
sap-client	<SAP client from the ABAP system>
WebIDEAdditionalData	This property is optional. You can add one or more of the following values:

Key	Value

	○ `api_mgmt`
	
	for specifying an API key to retrieve metadata
	
	○ `full_url`
	
	for specifying the full URL of a service so that metadata is shown without having to choose the service
	
	  i Note
	
	  When specifying this value, the **URL** field of your destination should contain the full URL of your service. Otherwise, there will be no communication between SAP Web IDE and your system.

6. Repeat steps 4 and 5 for any additional destinations.

7. Choose **Save**.

Related Information

SAP Cloud Platform connector (https://help.hana.ondemand.com/help/frameset.htm?e6c7616abb5710148cfcf3e75d96d596.html)

Creating HTTP Destinations (https://help.hana.ondemand.com/help/frameset.htm?1e110da0ddd8453aaf5aed2485d84f25.html)

Securing the SAPUI5 ABAP Repository (http://help.sap.com/disclaimer?site=https://ui5.sap.com/#/topic/91f3ecc06f4d1014b6dd926db0e91070)

Configuring the ABAP Back-end for ABAP Development Tools (https://help.sap.com/doc/2e65ad9a26c84878b1413009f8ac07c3/201909.000/en-US/config_guide_system_backend_abap_development_tools.pdf)

Connect Remote Systems in SAP Web IDE Personal Edition

(https://help.sap.com/viewer/825270ffffe74d9f988a0f0066ad59f0/CF/en-US/2cf47f37e34c428c97a51057733c0394.html)

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