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July 11, 2019 | 5 minute read

# Steps to create a data connection between a SAP on-premise system and SAP Web IDE using cloud connector

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## Overview

This blog post will guide you through the steps to create a data connection between a SAP on-premise system and SAP Web IDE. I will also be discussing steps to configure cloud to on premise and steps to map virtual to internal system in a cloud connector. At the end, I will be creating a list report application using an OData service in Web IDE.

## Prerequisites

Before creating a data connection, you must ensure that you have SAP cloud connector installed on your system.

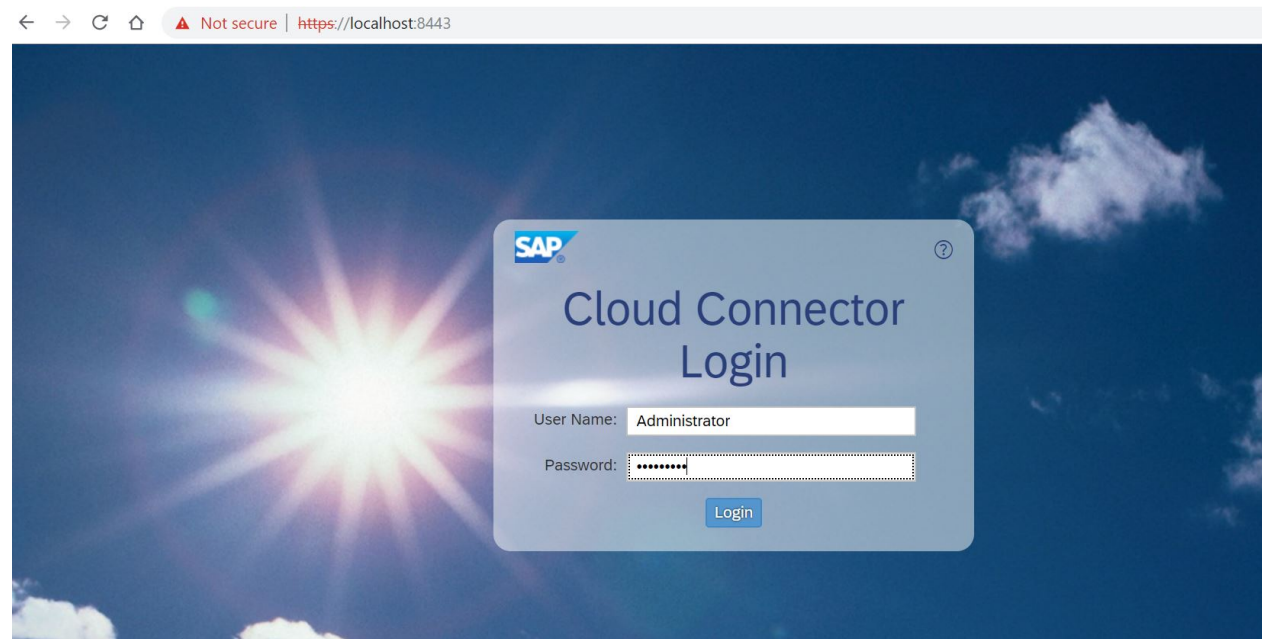
Please refer steps 1 to 4 in the below link if the SAP Cloud Connector is not installed yet.

<https://developers.sap.com/tutorials/cp-connectivity-install-cloud-connector.html>

## Steps

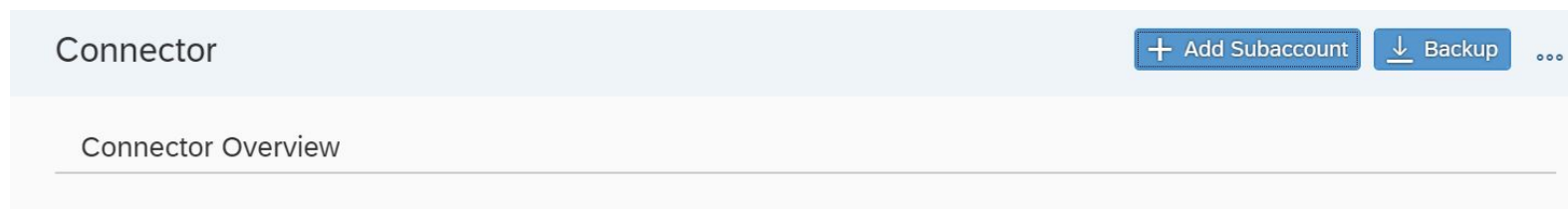
Below are the steps to create data connection between a SAP on-premise system and SAP Web IDE. At the end, I will create a list report application from an OData service in SAP Web IDE.

**Step 1:** Login to your cloud connector account using your credentials.



**Step 2:** After the login is complete, you need to add a sub account to your cloud connector.

For adding an existing sub account to your cloud connector, you need to click on add sub account button on the top right side of the page.



After clicking the add sub account button, you will see the below dialog box:

## Add Subaccount

*Region:	<input type="text" value="Australia (Sydney)"/>
*Subaccount:	<input type="text" value="0611000000"/>
Display Name:	<input type="text" value="NEO India"/>
*Subaccount User:	<input type="text" value="100100"/>
*Password:	<input type="password" value="....."/>
Location ID:	<input type="text" value="Enter location ID to overwrite default"/>
Description:	<input type="text"/>

Save Cancel

Remember, since you are adding a sub account which is already existing in SAP Cloud Platform Cockpit, you need to maintain all the above values as already configured in the SAP Cloud Platform Cockpit.

You can find these values by logging in to your SAP Cloud Platform Cockpit and then navigating to your account.




[Home \[Australia \(Sydney\)\]](#)

## Home - Global Accounts

All: 1


[Trial Home](#)[All Roles](#) [All Environments](#) [All Regions](#) [Search Global Acc](#)

### Global Accounts

Subaccounts: 2

Regions: 2



On clicking your account, you should be seeing all your sub accounts.



## Global Account: ~~XXXXXXXXXXXX-2019~~ - Subaccounts

All: 2

All Roles ▾

All Environments ▾

All Regions ▾

Search Sub

### Cloud Foundry

BETA

Environment: Cloud Foundry

Provider: Amazon Web Services (AWS)

Region:  Europe (Frankfurt)

Description: -none-



### NEO India

BETA

Environment: Neo

Provider: SAP

Region:  Australia (Sydney)

Description: -none-



Learn how [global accounts and subaccounts relate to each other](#) and find [recommendations for setting up your](#)

Now, click on your sub account. You will see the system status and your sub account information.



## Subaccount: NEO India - Overview

### System Status

#### JAVA

Overall Health

[Get started here!](#)

No applications yet

or...

[Create an application](#)

[Run sample applications](#)

#### HTML5

Overall Health

3 [Applications](#)



3 [Started](#)

OK

#### DATABASE SYSTEMS

Overall Health

0 [Databases](#)



### Subaccount Information

#### Subaccount

**Display Name**  
NEO India

**Technical Name**  


#### Members

259 [in Subaccount](#)

#### Subscriptions


3 [Subscribed](#)

#### Services

21 [available](#)

Here, the technical name is the name of your sub account to be added in the cloud connector. The display name would be NEO India and sub account user and password would be the same as your local system.

### Add Subaccount

*Region:	Australia (Sydney) 
*Subaccount:	<del>etj-123456789</del>
Display Name:	NEO India
*Subaccount User:	<del>etj-123456789</del>
*Password:	.....
Location ID:	<i>Enter location ID to overwrite default</i>
Description:	

Save Cancel

Click on Save.

You will see your sub account added successfully.



Cloud Connector Administration

Subaccount: NEO India

### Connector

+ Add Subaccount    Backup    ...

#### Connector Overview

Connector ID: FAE722B08E8F11E9A916CA110A368FB5    Security Status: ⚠ Risk  
Local Name: AGRN56583519A.apj.global.corp.sap    High Availability: ⬢ Disabled  
Local IP: 10.54.143.181    Alerts: ■ 2

#### Subaccount Dashboard

Status	Subaccount	Display Name	Location ID	Region	Actions
<span style="color: green;">✔</span>	<del>cloud-9a</del>	NEO India		Australia (Sydney)	<span>🔍</span> <span>✎</span> <span>🗑</span> <span>📄</span> <span>⋮</span>

**Step 3:** The next step is to setup cloud to on-premise.

For this, on the left navigation panel, click on Cloud To On-Premise.

Cloud Connector Administration

Subaccount: NEO India

### Cloud To On-Premise

ACCESS CONTROL   COOKIE DOMAINS   APPLICATIONS   PRINCIPAL PROPAGATION

#### Mapping Virtual To Internal System

Status	Virtual Host	Internal Host	Check Result	Protocol	Back-end Type	Actions
<input checked="" type="checkbox"/>	ldcier9.wdf.sap.corp...	ldcier9.wdf.sap.corp...	<span style="color: green;">Reachable</span>	HTTPS	ABAP System	


#### Resources Of ldcier9.wdf.sap.corp:50000

Status	URL Path	Access Policy	Actions
<input checked="" type="checkbox"/>	/plugins/pluginrepository	Path and all sub-paths	
<input checked="" type="checkbox"/>	/sap/bc/adt	Path and all sub-paths	
<input checked="" type="checkbox"/>	/sap/bc/bsp	Path and all sub-paths	
<input checked="" type="checkbox"/>	/sap/bc/ui5_ui5	Path and all sub-paths	
<input checked="" type="checkbox"/>	/sap/hba	Path and all sub-paths	
<input checked="" type="checkbox"/>	/sap/opu/odata	Path and all sub-paths	


Now, you need to map the virtual and internal system.

Click on the '+' button on the right side next to mapping virtual to internal system.

## Add System Mapping

 Select back-end type of on-premise system

Back-end Type:

ABAP System 

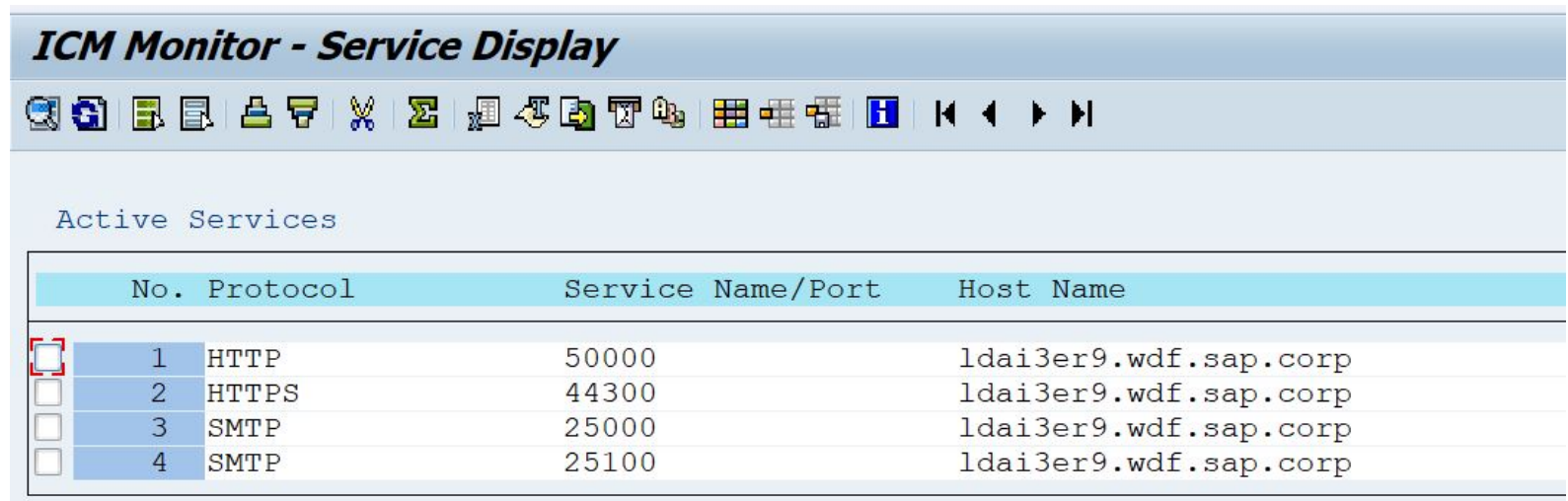
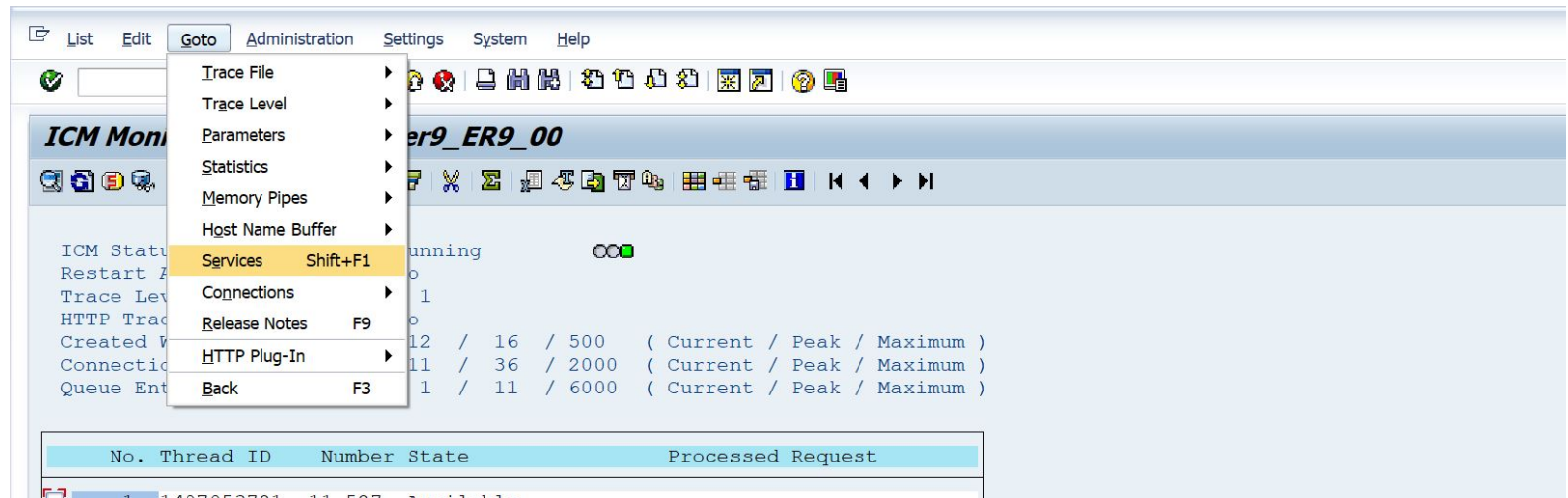
Previous Next Cancel

Select ABAP System from the drop down. Click Next.

Select HTTPS in the protocol drop down. Click Next.

The next step is to add the internal host and port.

We can get these details by logging in to the system and executing tcode smicm. Click on goto->services.


































Click Next.

Here, add the visual host and port. You can enter any value for visual host and port.

Click next and then finish.

Now, you will be configuring the resources which are needed. For this, click on the '+' button next to resources and then maintain the values as given below.

Resources Of ldcier9.wdf.sap.corp:50000

Status	URL Path	Access Policy	Actions
<input type="checkbox"/>	/plugins/pluginrepository	Path and all sub-paths	    
<input type="checkbox"/>	/sap/bc/adt	Path and all sub-paths	    
<input type="checkbox"/>	/sap/bc/bsp	Path and all sub-paths	    
<input type="checkbox"/>	/sap/bc/ui5_ui5	Path and all sub-paths	    
<input type="checkbox"/>	/sap/hba	Path and all sub-paths	    
<input checked="" type="checkbox"/> 	/sap/opu/odata	Path and all sub-paths	    

In the actions section, click on check availability of internal host button. The check result should change to reachable.

The screenshot shows the SAP Cloud Connector Administration web interface. The browser address bar indicates the URL is <https://localhost:8443>. The page title is "Cloud Connector Administration". The left sidebar contains the following menu items: Connector, Security Status, Alerting, High Availability, Hardware Metrics Monitor, Configuration, NEO India (selected), Cloud To On-Premise (selected), On-Premise To Cloud, Monitor, Audits, Log And Trace Files, Important Links, and Legal Information.

The main content area is titled "Cloud To On-Premise" and shows the "ACCESS CONTROL" tab. It displays the "Mapping Virtual To Internal System" table and the "Resources Of Idcier9.wdf.sap.corp:50000" table.

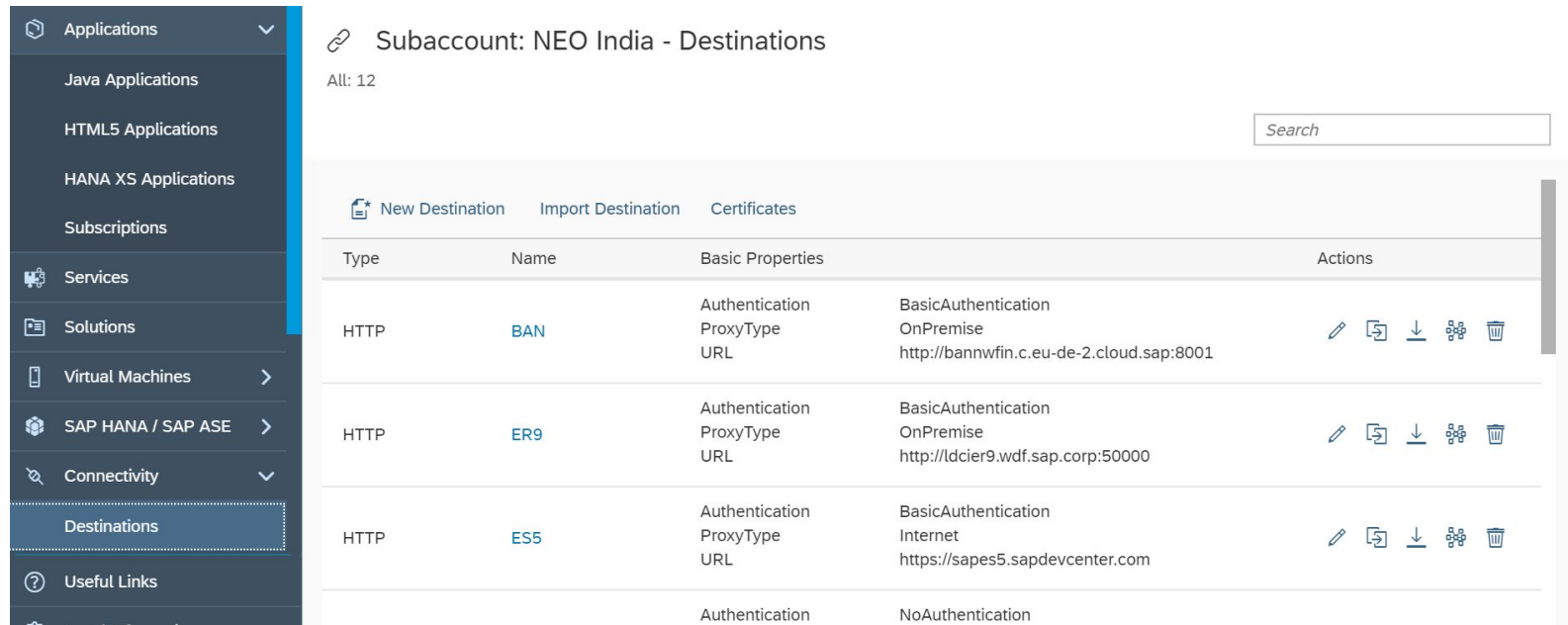
Status	Virtual Host	Internal Host	Check Result	Protocol	Back-end Type	Actions
<input checked="" type="checkbox"/>	ldcier9.wdf.sap.corp...	ldcier9.wdf.sap.corp...	<input checked="" type="checkbox"/> Reachable	HTTPS	ABAP System	[Edit] [Delete] [Refresh] [Help]

Check availability of internal host (this may take some time)

Status	URL Path	Access Policy	Actions
<input checked="" type="checkbox"/>	/plugins/pluginrepository	Path and all sub-paths	[Edit] [Delete] [Refresh] [Help]
<input checked="" type="checkbox"/>	/sap/bc/adt	Path and all sub-paths	[Edit] [Delete] [Refresh] [Help]
<input checked="" type="checkbox"/>	/sap/bc/bsp	Path and all sub-paths	[Edit] [Delete] [Refresh] [Help]
<input checked="" type="checkbox"/>	/sap/bc/ui5_ui5	Path and all sub-paths	[Edit] [Delete] [Refresh] [Help]
<input checked="" type="checkbox"/>	/sap/hba	Path and all sub-paths	[Edit] [Delete] [Refresh] [Help]
<input checked="" type="checkbox"/>	/sap/opu/odata	Path and all sub-paths	[Edit] [Delete] [Refresh] [Help]

**Step 4:** This step will help you to add destinations to your SAP Cloud Platform Cockpit.

For this, launch SAP Cloud Platform Cockpit and navigate to your sub account. Click Destinations in the left panel.



The screenshot shows the SAP Web IDE interface. On the left is a navigation menu with categories: Applications (Java, HTML5, HANA XS, Subscriptions), Services, Solutions, Virtual Machines, SAP HANA / SAP ASE, Connectivity, Destinations (highlighted), and Useful Links. The main area is titled 'Subaccount: NEO India - Destinations' with a link icon and 'All: 12'. A search bar is in the top right. Below are tabs for 'New Destination', 'Import Destination', and 'Certificates'. A table lists existing destinations:

Type	Name	Basic Properties	Actions
HTTP	BAN	Authentication: BasicAuthentication ProxyType: OnPremise URL: http://bannwfin.c.eu-de-2.cloud.sap:8001	[Edit] [Copy] [Download] [Share] [Delete]
HTTP	ER9	Authentication: BasicAuthentication ProxyType: OnPremise URL: http://ldcier9.wdf.sap.corp:50000	[Edit] [Copy] [Download] [Share] [Delete]
HTTP	ES5	Authentication: Internet ProxyType: Internet URL: https://sapes5.sapdevcenter.com	[Edit] [Copy] [Download] [Share] [Delete]
		Authentication: NoAuthentication	

Click on the New Destination button and maintain the following values:

\*Name:

Type:

HTTP

Description:

Location ID:

\*URL:

http://ldcier9.wdf.sap.corp:50000

Proxy Type:

OnPremise

Authentication:

BasicAuthentication

\*User:

Password:

.....

Additional Properties

sap-client

001

WebIDEEEnabled

true

WebIDESystem

ER9

WebIDEUsage

odata\_abap,bsp\_execute...

New Property

Save

Cancel

Here the name should be the system ID for which you need a connection and the URL is same as the visual host URL provided in step 3.

Add the below properties by clicking New Property.

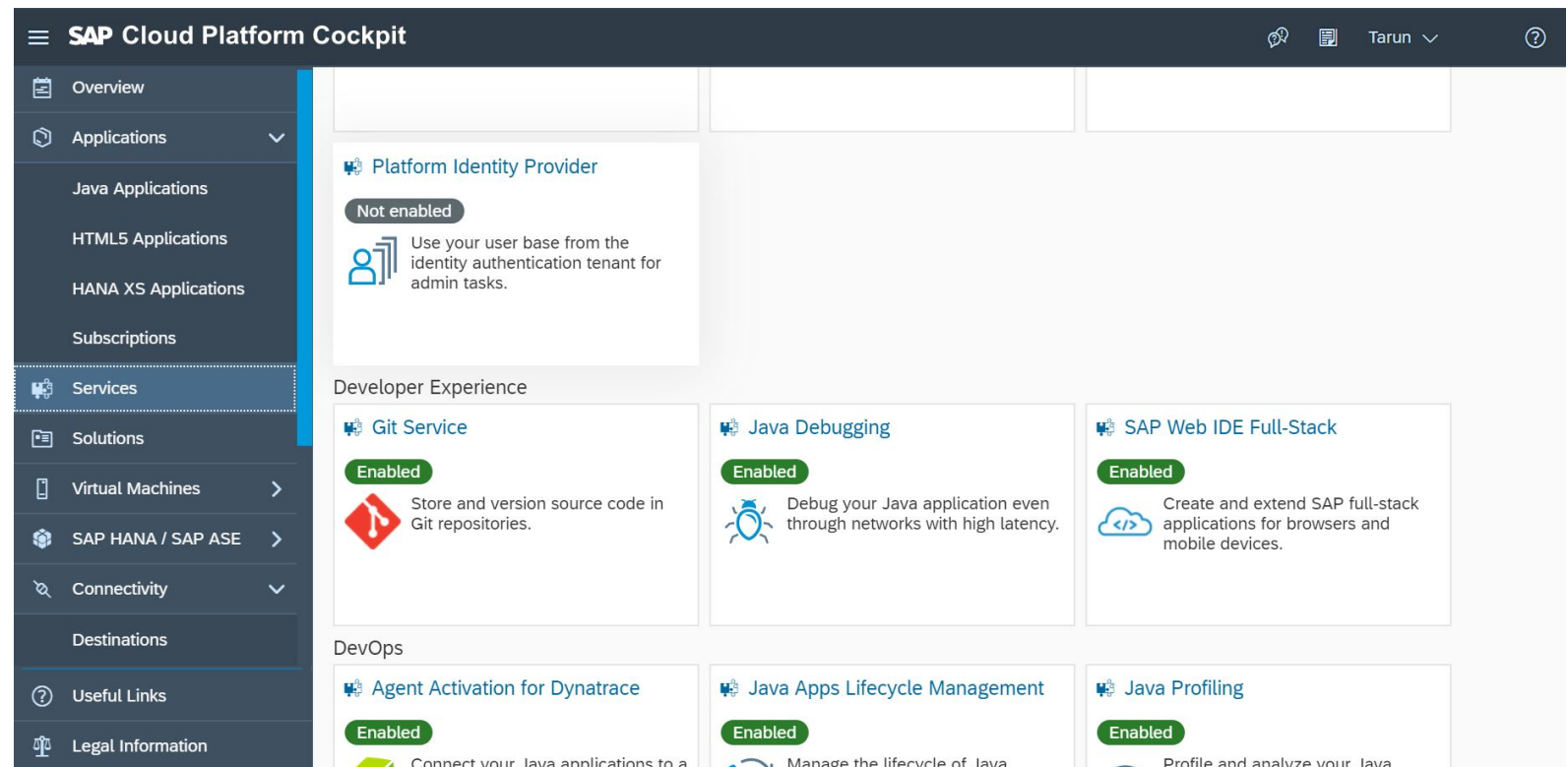
Property	Value
sap-client	<client>
WebIDEEEnabled	TRUE
WebIDESystem	<system ID>
WebIDEUsage	odata_abap,bsp_execute_abap,odata_gen,odata_abap,ui5_execute_abap,dev_abap



Click on Save.

Now click check connection. You should see connection to system successful message.

**Step 5:** Now you need to check certain permissions for using Web IDE. In the SAP Cloud Platform Cockpit, click on services and then click SAP Web IDE Full-Stack (make sure the service is enabled).



Follow



Like



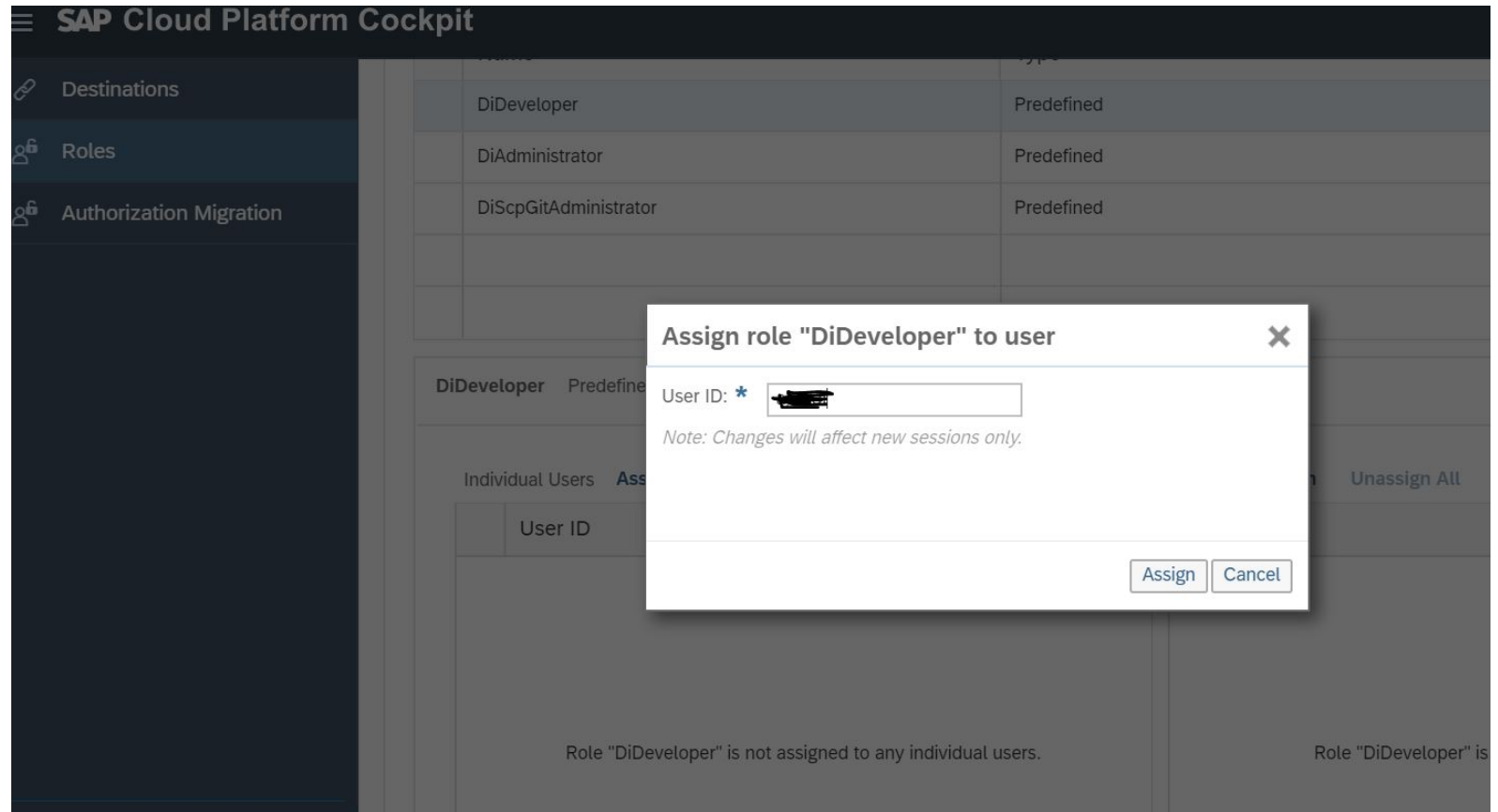
RSS Feed

In the take action section, click on configure service.

The screenshot displays the SAP Cloud Platform Cockpit interface. The top navigation bar is dark blue with the SAP logo and the title "SAP Cloud Platform Cockpit". Below this, the left sidebar contains a menu with "Overview" (selected), "Useful Links", and "Legal Information". The main content area is divided into four sections:

- Overview:** A large text block describing the capabilities of SAP Cloud Platform Web IDE Full-Stack, including developing, testing, building, deploying, and extending role-based, consumer-grade apps for business users. It mentions creating applications rapidly, delivering an outstanding user experience, extending SAP Fiori apps, creating new SaaS solutions, extending SAP S/4HANA cloud services, developing hybrid mobile applications, and building IoT apps for SAP Leonardo.
- Take Action:** A section with three links: "Configure Service", "Logs", and "Go to Service".
- Cloud Foundry:** A section titled "Current environment" showing a list of environments under the "NEO:" heading. Each entry consists of a flag icon and a label: Brazil (Br), Europe (Eu), Europe (Eu), Europe (Eu), Europe (Eu), Korea (KS), UAE (UAE), US (US), US (US), US (US), and Australia (Au).
- Additional Resources:** A section with two links: "Documentation" and "Getting Started".

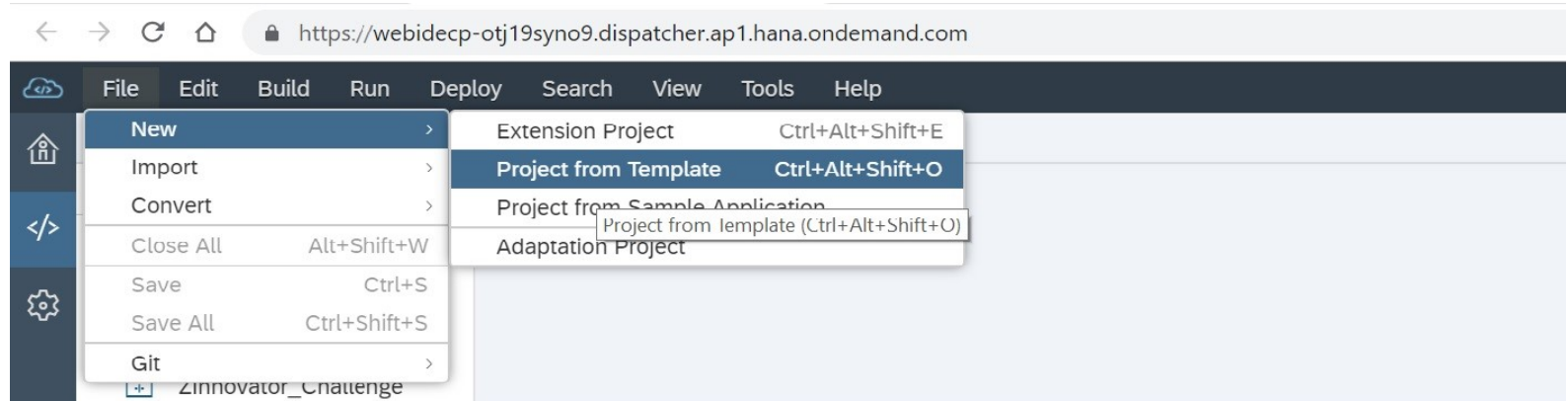
Here you need to add your user ID to the DiDeveloper role. For this, select the DiDeveloper role and click Assign and enter your user ID. Click Assign.



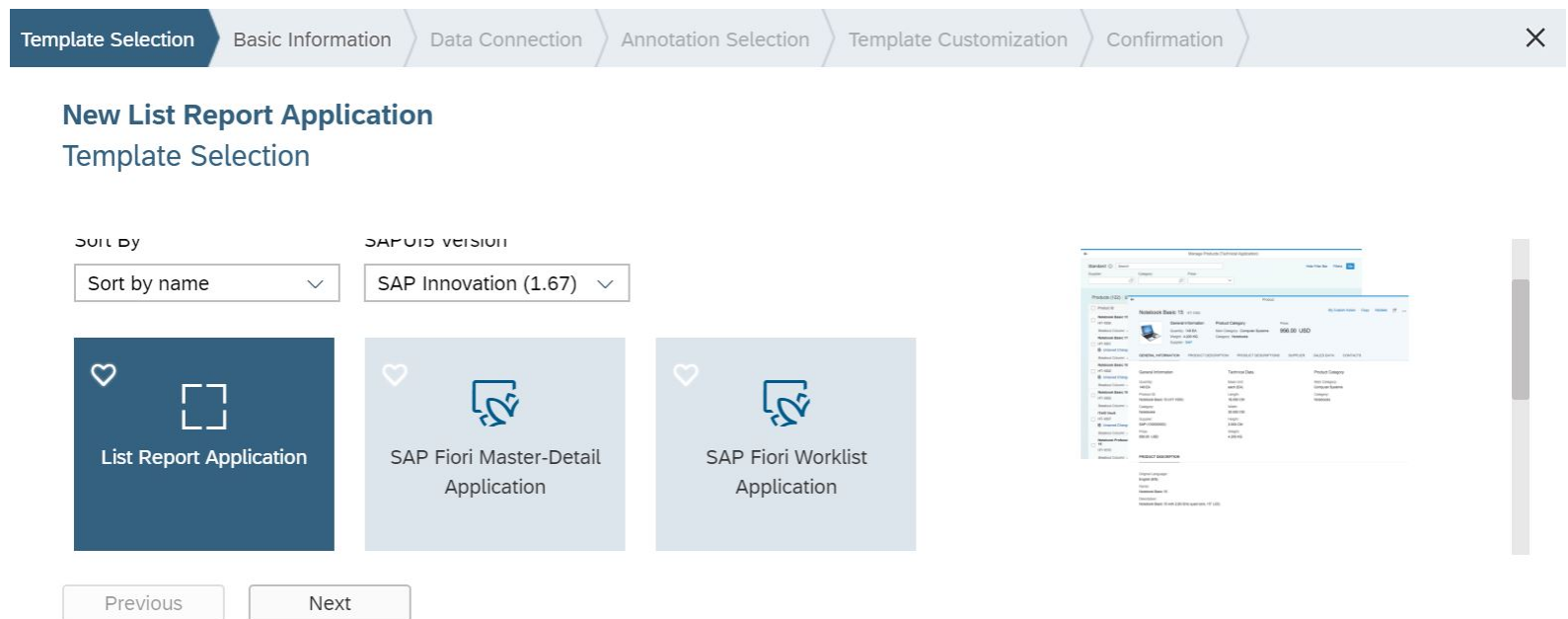
**Step 6:** In the final step, you will be creating a list report application using Web IDE by selecting your OData service from the configured system.

Launch the Web IDE service from the SAP Cloud Platform Cockpit by clicking on go to service link in the take action section.

Click File->New->Project from Template.



In the Template Selection screen, select list report application and click next.



Give the project name and the title in the next screen and click next.

Template Selection Basic Information Data Connection Annotation Selection Template Customization Confirmation X

### New List Report Application

#### Basic Information

Project Name\* ZTEST\_LIST\_REPORT

App Descriptor Data

Title\* List Report Application

Namespace

Description

Previous Next

In the data connection screen, select service catalog and select the configure system. You should see a list of all the configured services in the system.

Template Selection Basic Information Data Connection Annotation Selection Template Customization Confirmation X

### New List Report Application

#### Data Connection

Choose a service from one of the sources listed below.

Service Catalog

Workspace

File System

Service URL

SAP API Busines...

ER9 - ER9

Services Search Show Details Select

Service	Description	System
> AA_DEMO_APP_SRV	Demo App	ER9
> AA_SRV	...	ER9

Previous Next

Select your service and click next.

Select the required annotation files and then click next.

ie at ing section, select the OData collection from the list and click finish.

Alert Moderator

Assigned tags

SAP Connectivity service

NW ABAP Gateway (OData)

OData

SAP Business Technology Platform

SAP Web IDE

ABAP odata

ABAP on SAP Cloud Platform

New List Report Application

Template Customization

Data Binding

OData Collection\*

ZIC\_BUS\_MASTER

OData Navigation

OData navigation attribute to a collection

OData Sub Navigation

OData navigation attribute to a collection

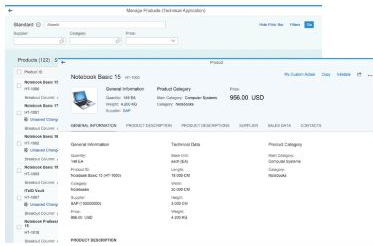
☒ Smart Variant Management for List Report

☐ Flexible Column Layout

Previous

Next

Finish



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## 11 Comments

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Geetika Arora

July 12, 2019 at 3:49 am

Very Nice Blog. All steps captured very clearly

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Tarun Chhabra | Blog Post Author

July 12, 2019 at 3:54 am

Hi Geetika,

Thanks a lot for the appreciation.

Regards

Tarun

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**Aditya Anand**

July 22, 2019 at 7:42 am

Very helpful blog, even minute details are precisely captured 😊

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Hi Aditya,

Thank you. 😊

Regards

Tarun

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**Sonam Singh**

July 22, 2019 at 9:42 am

Super, nicely structured

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July 22, 2019 at 9:47 am





Hi Sonam,

Thanks a lot . 😊

Regards

Tarun

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**Prabhav Tandon**

July 27, 2019 at 4:09 pm

Very informative blog. Thanks for sharing it Tarun.

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**Tarun Chhabra** | Blog Post Author

July 29, 2019 at 5:12 am

Hi Prabhav,

Thank you so much 😊

Regards

Tarun

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**Enric Castella Gonzalez**

August 31, 2019 at 7:21 am

Congratulations! Great Post!

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**Tarun Chhabra** | Blog Post Author

September 9, 2019 at 5:41 am

Thanks Enric! 😊

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**Silas rocha**

January 18, 2021 at 12:12 pm

It is possible to do the same thing for cloud foundry environment ?

If Yes, do someone know one documentation that helps do configure it ?

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