Technical Articles

Tarun Chhabra

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.

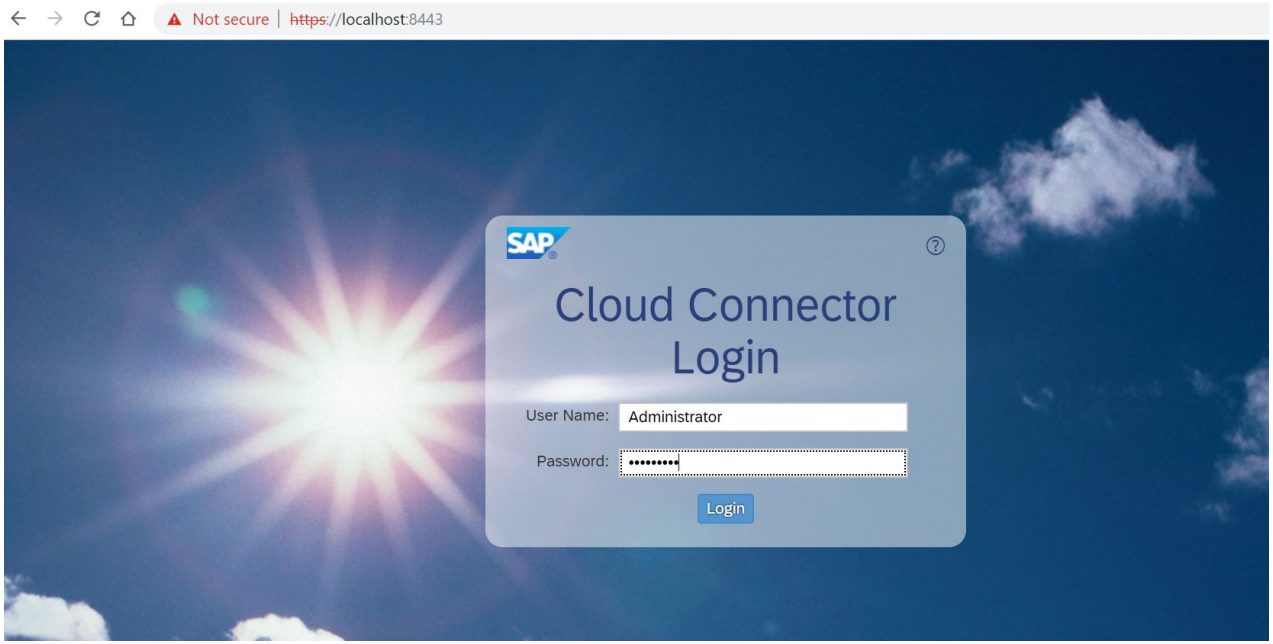
Please refer steps 1 to 4 in the below link if the SAP Cloud Connector is not installed yet.

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

Steps

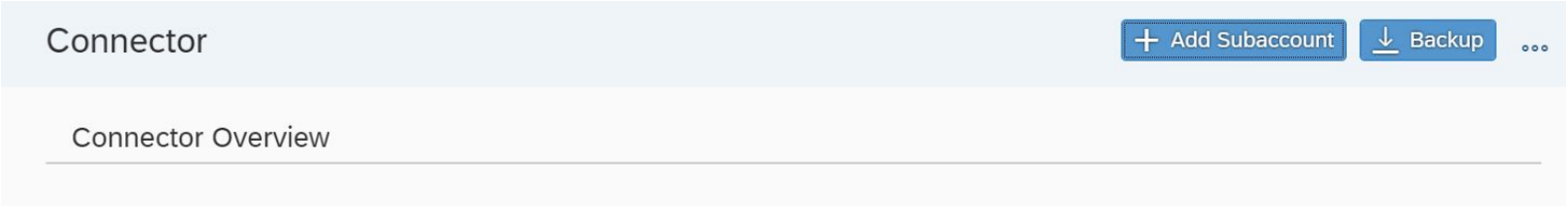
Below are the steps to create data connection between a SAP on-premise system and SAP Web IDE. At the end, I will create a list report application from an OData service in SAP Web IDE.

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

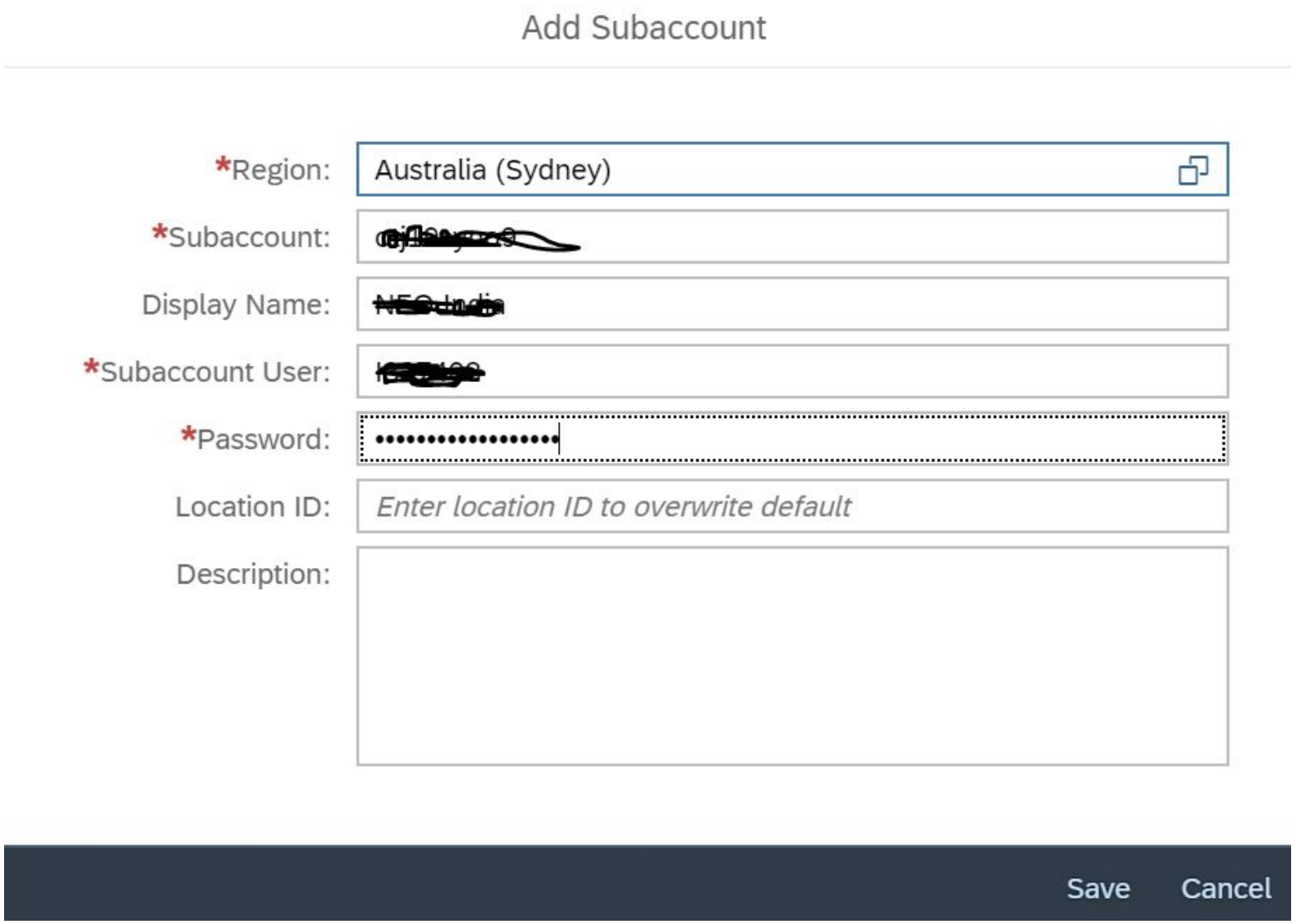


Step 2: After the login is complete, you need to add a sub account to your cloud connector.

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.

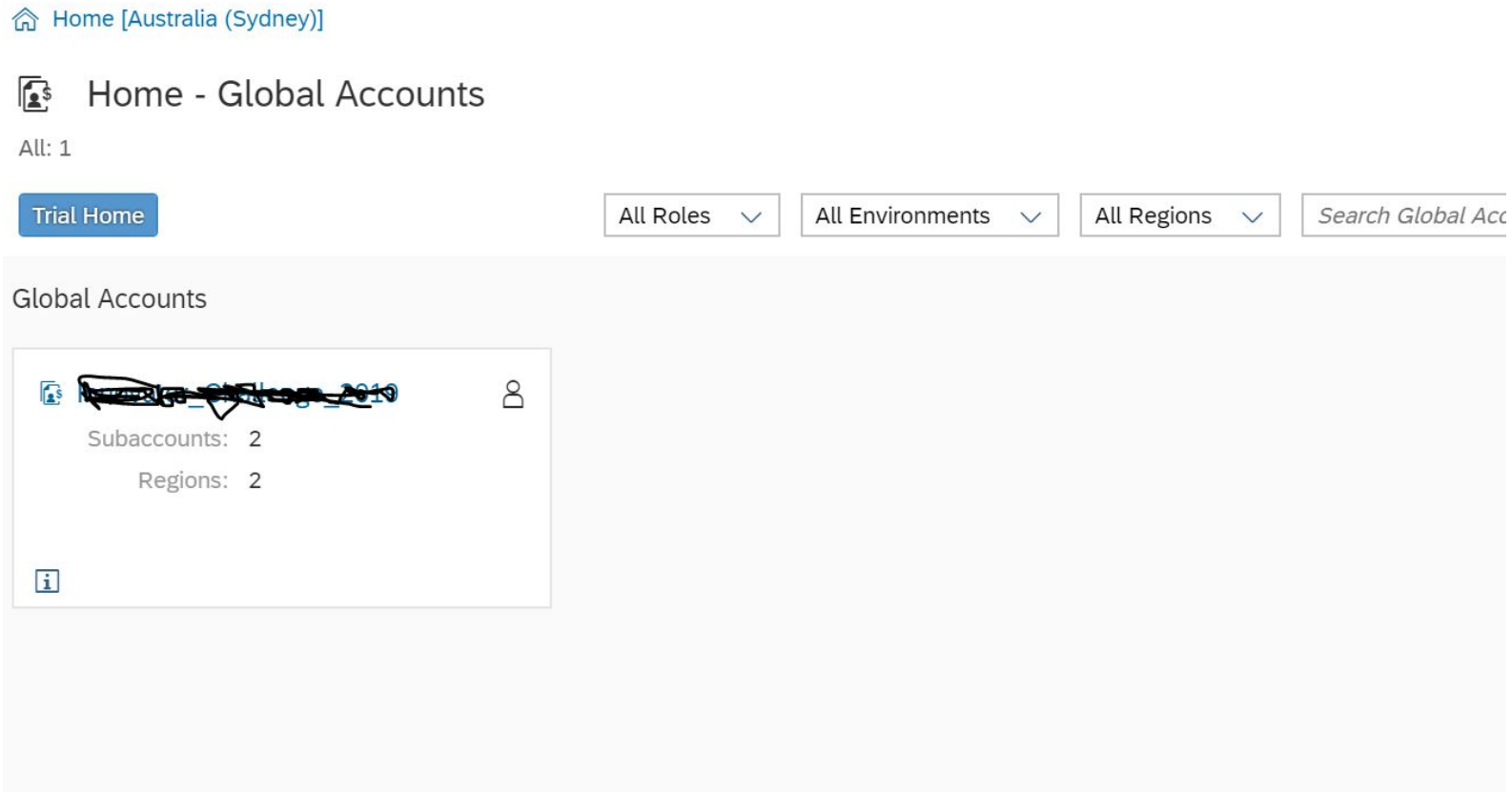


After clicking the add sub account button, you will see the below dialog box:

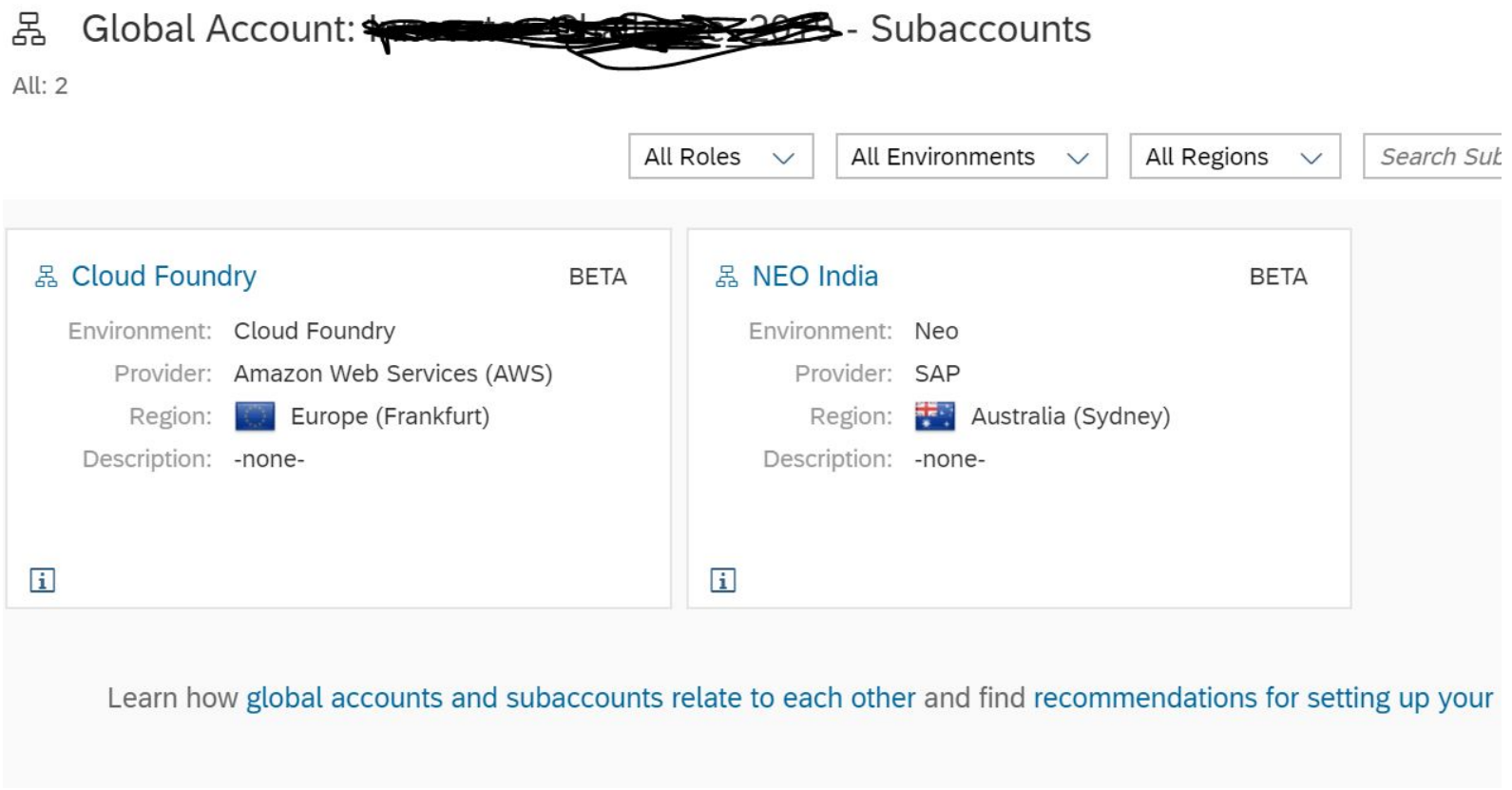


Remember, since you are adding a sub account which is already existing in SAP Cloud Platform Cockpit, you need to maintain all the above values as already configured in the SAP Cloud Platform Cockpit.

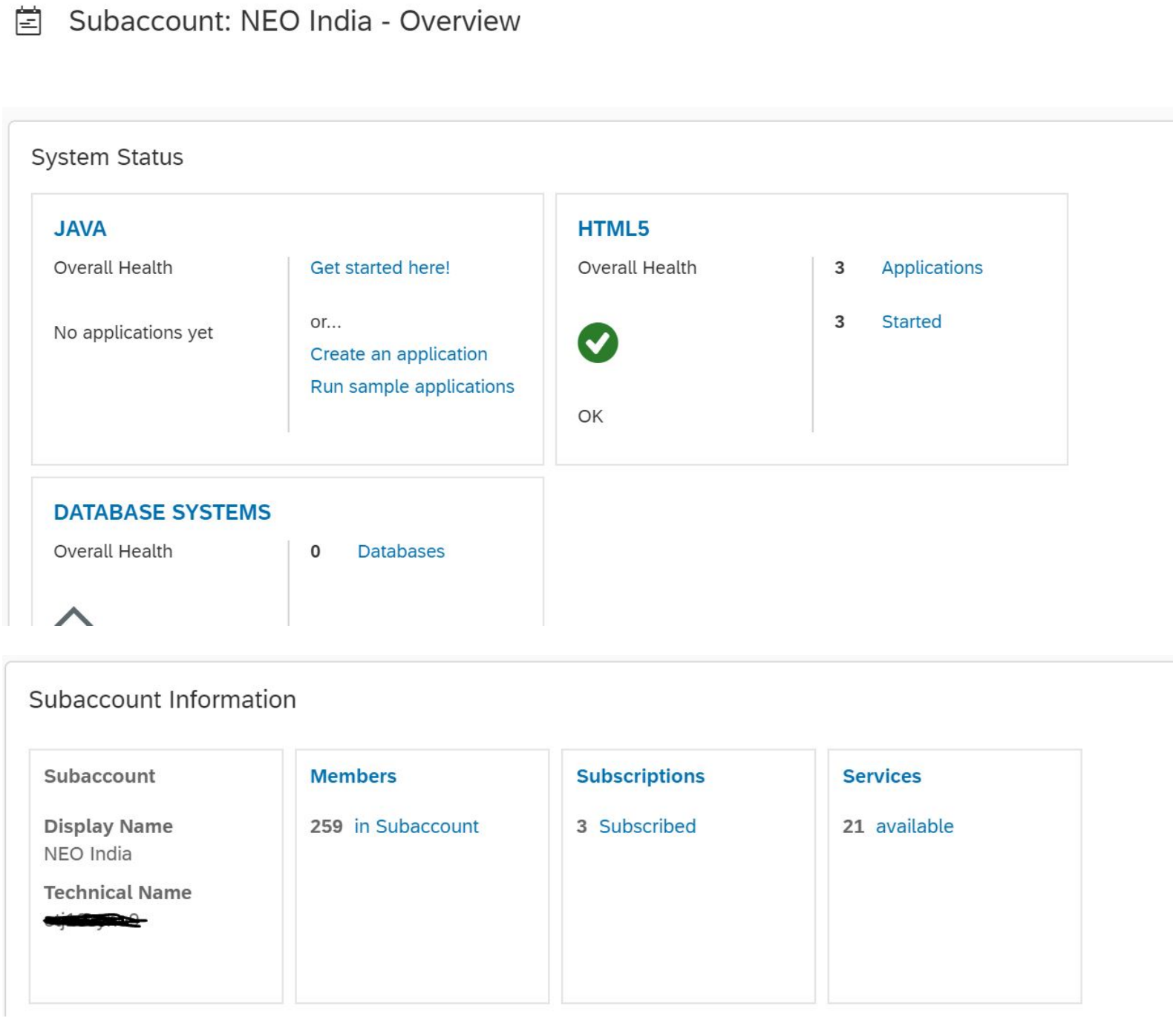
You can find these values by logging in to your SAP Cloud Platform Cockpit and then navigating to your account.



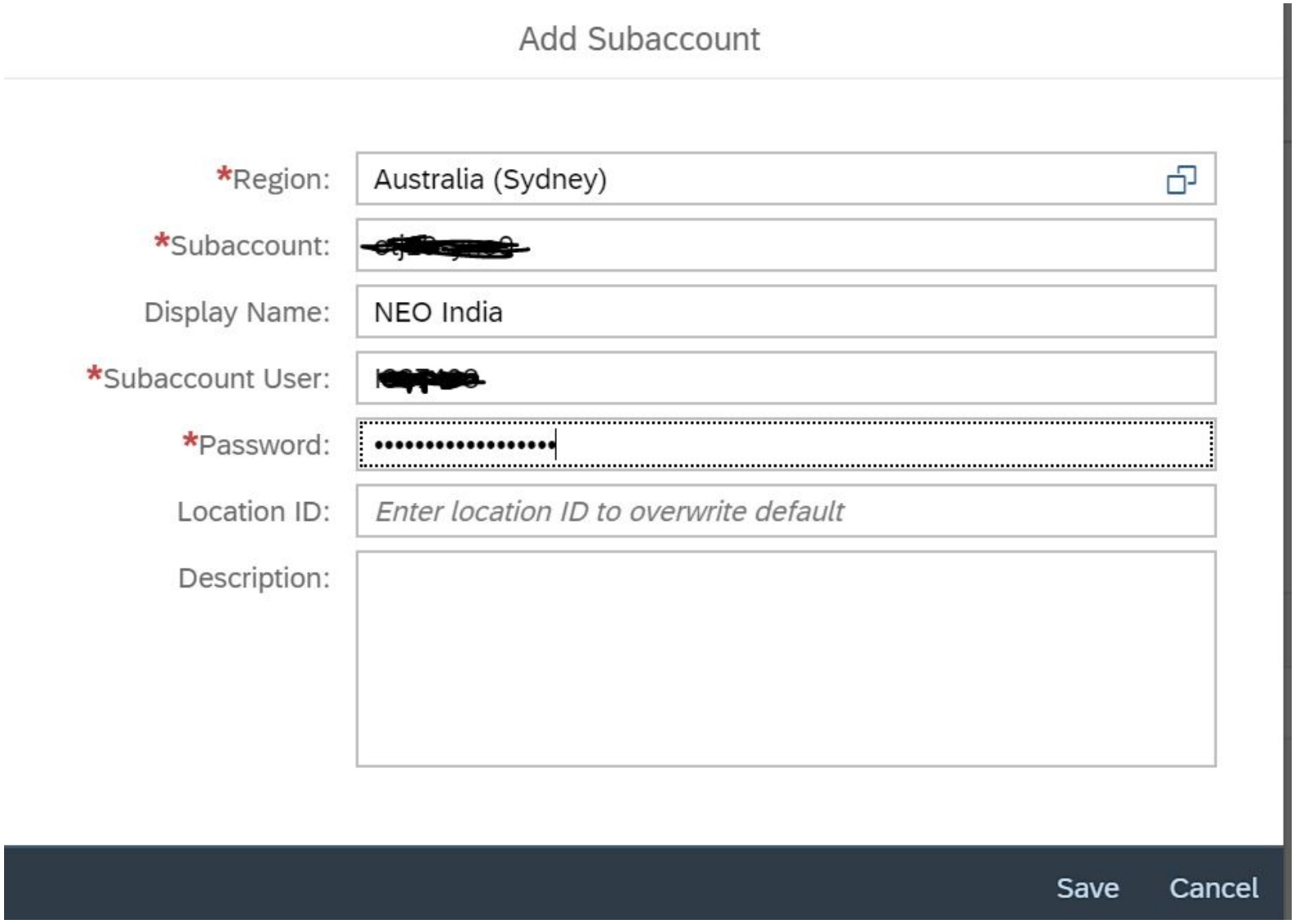
On clicking your account, you should be seeing all your sub accounts.



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

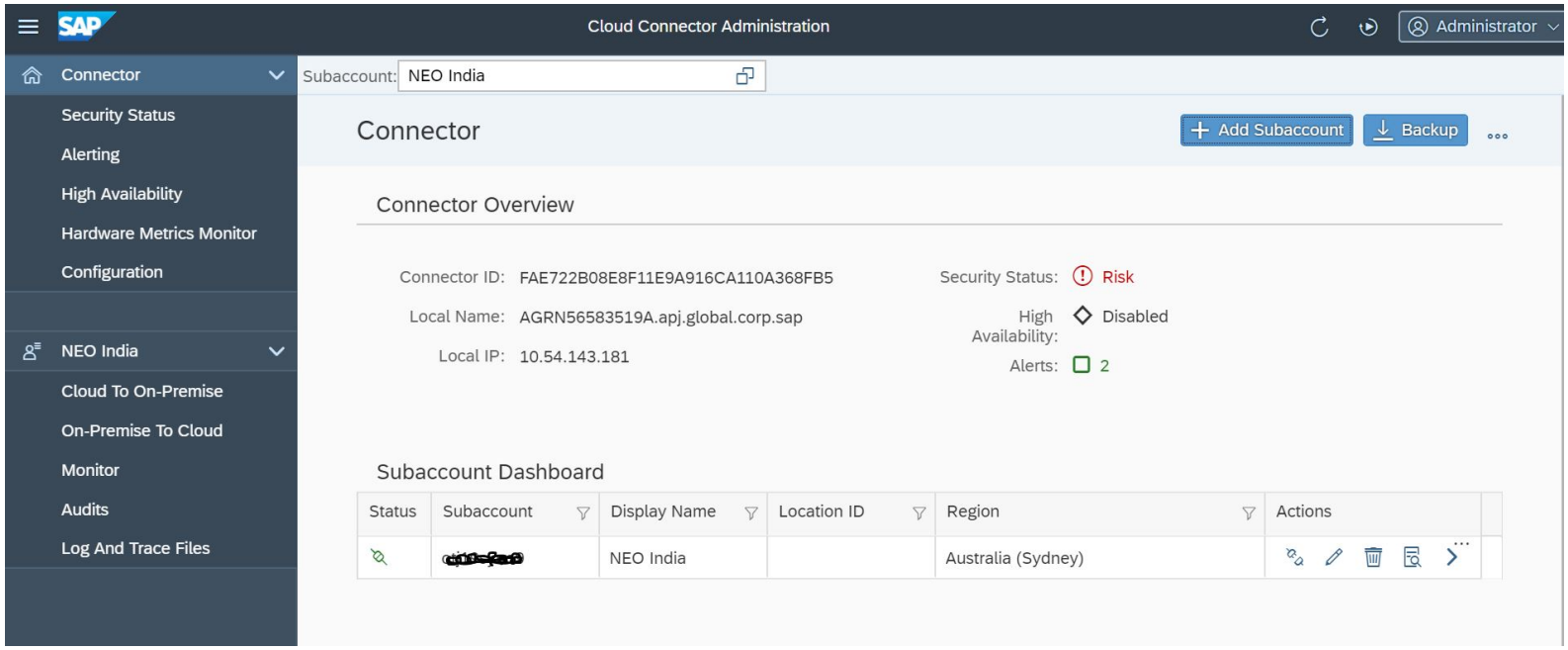

Subaccount: NEO India - Overview
System Status
JAVA
Overall Health
No applications yet
Get started here!
or...
Create an application
Run sample applications
HTML5
Overall Health
OK
3 Applications
3 Started
DATABASE SYSTEMS
Overall Health
0 Databases
Subaccount Information
Subaccount
Display Name
NEO 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.



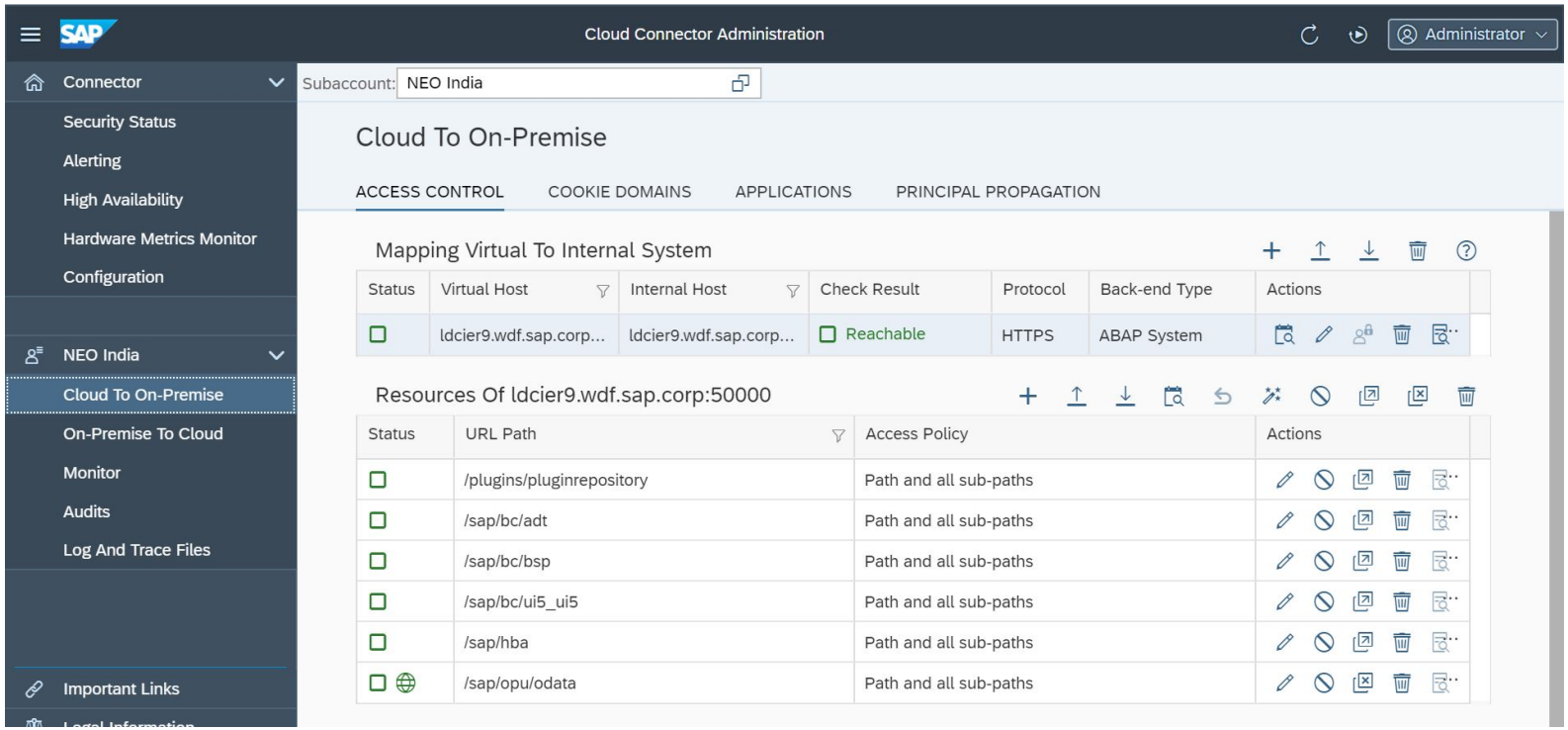
Click on Save.

You will see your sub account added successfully.



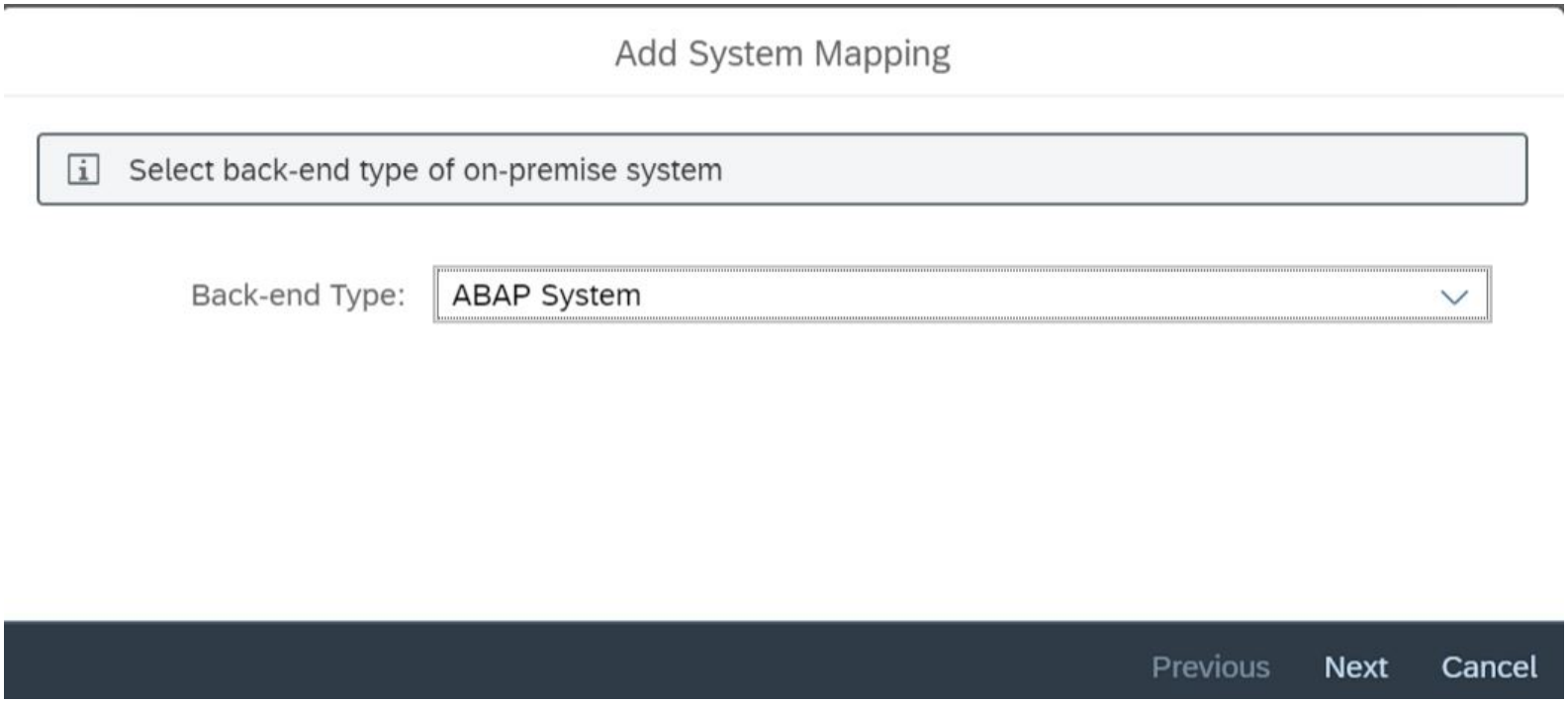
Step 3: The next step is to setup cloud to on-premise.

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



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.

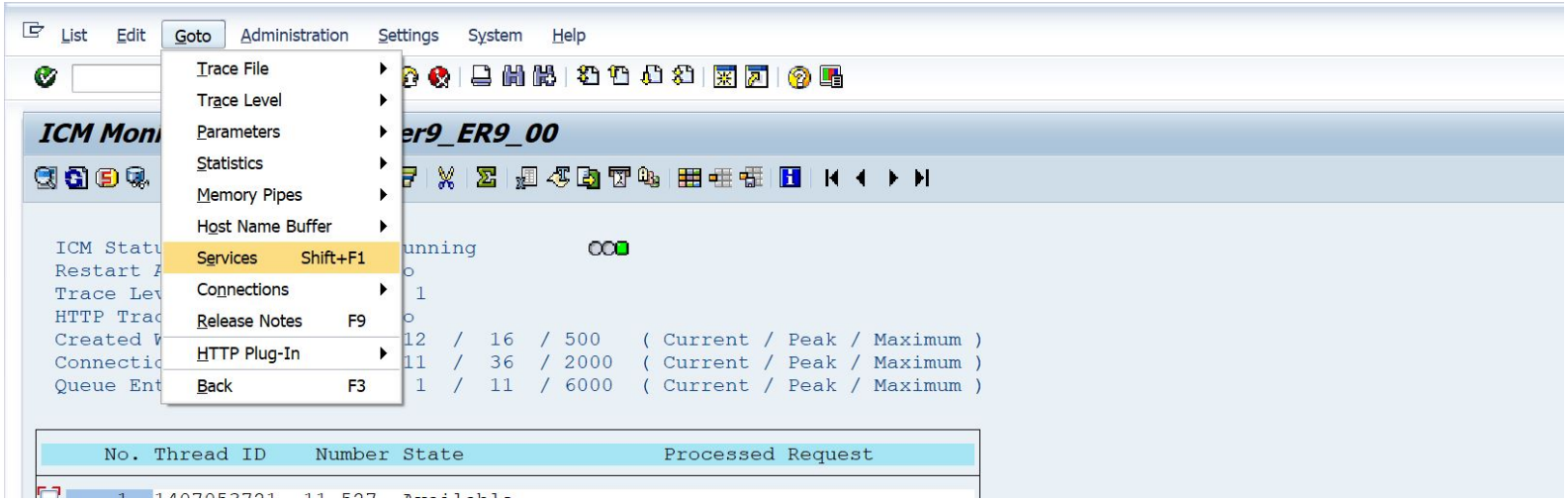


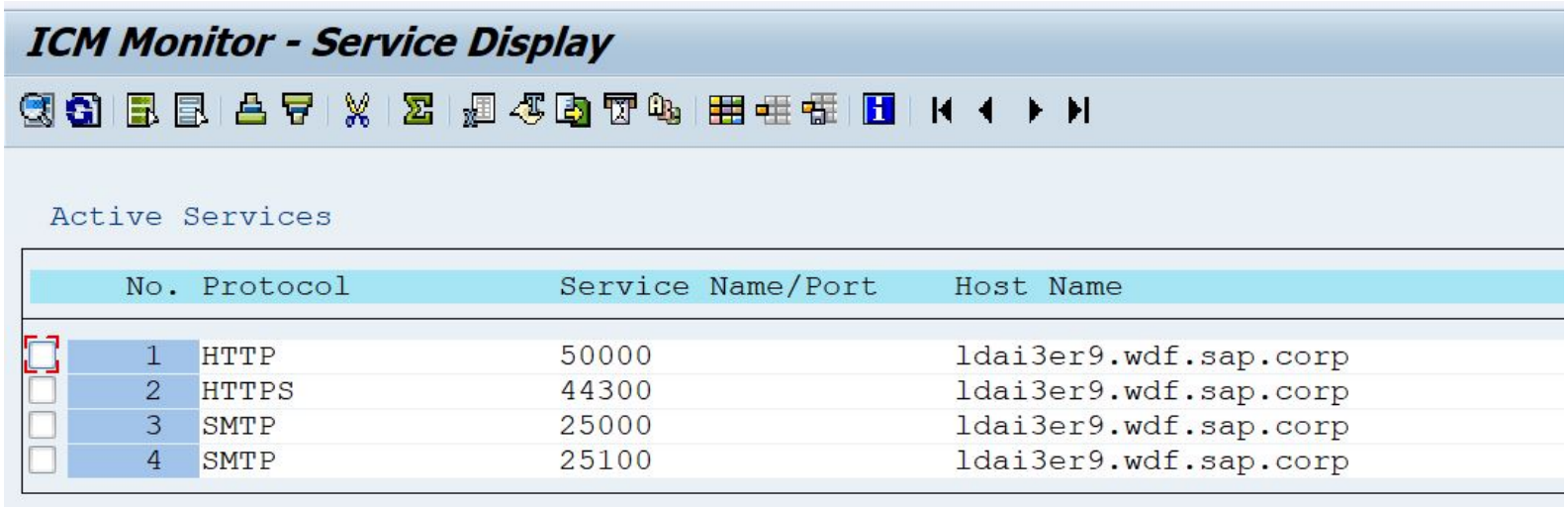
Select ABAP System from the drop down. Click Next.

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.



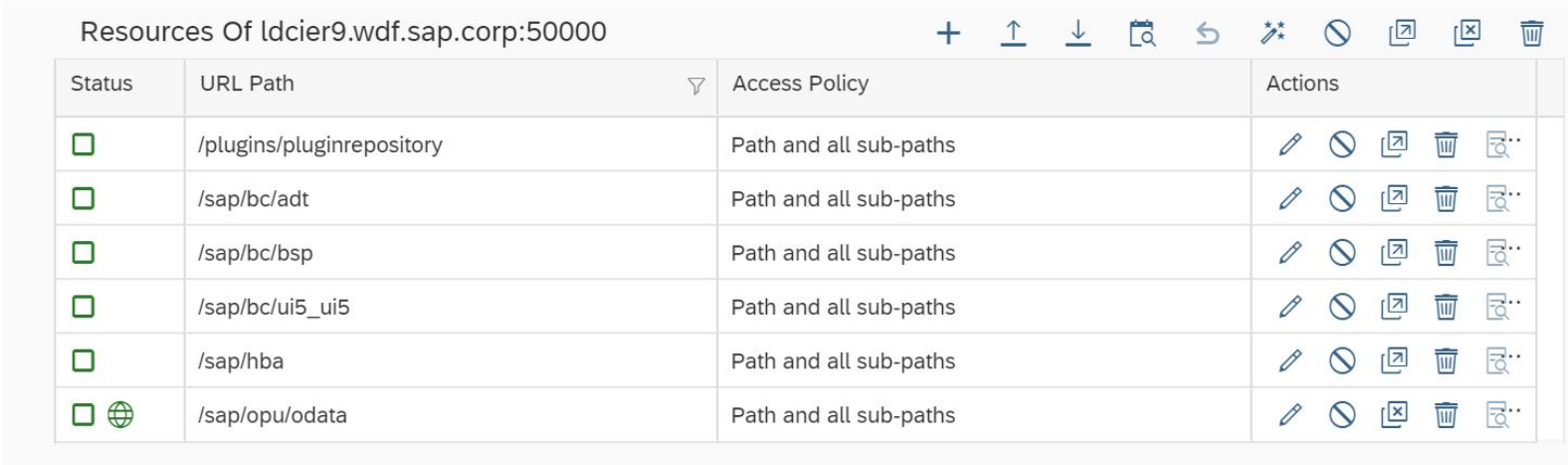


Click Next.

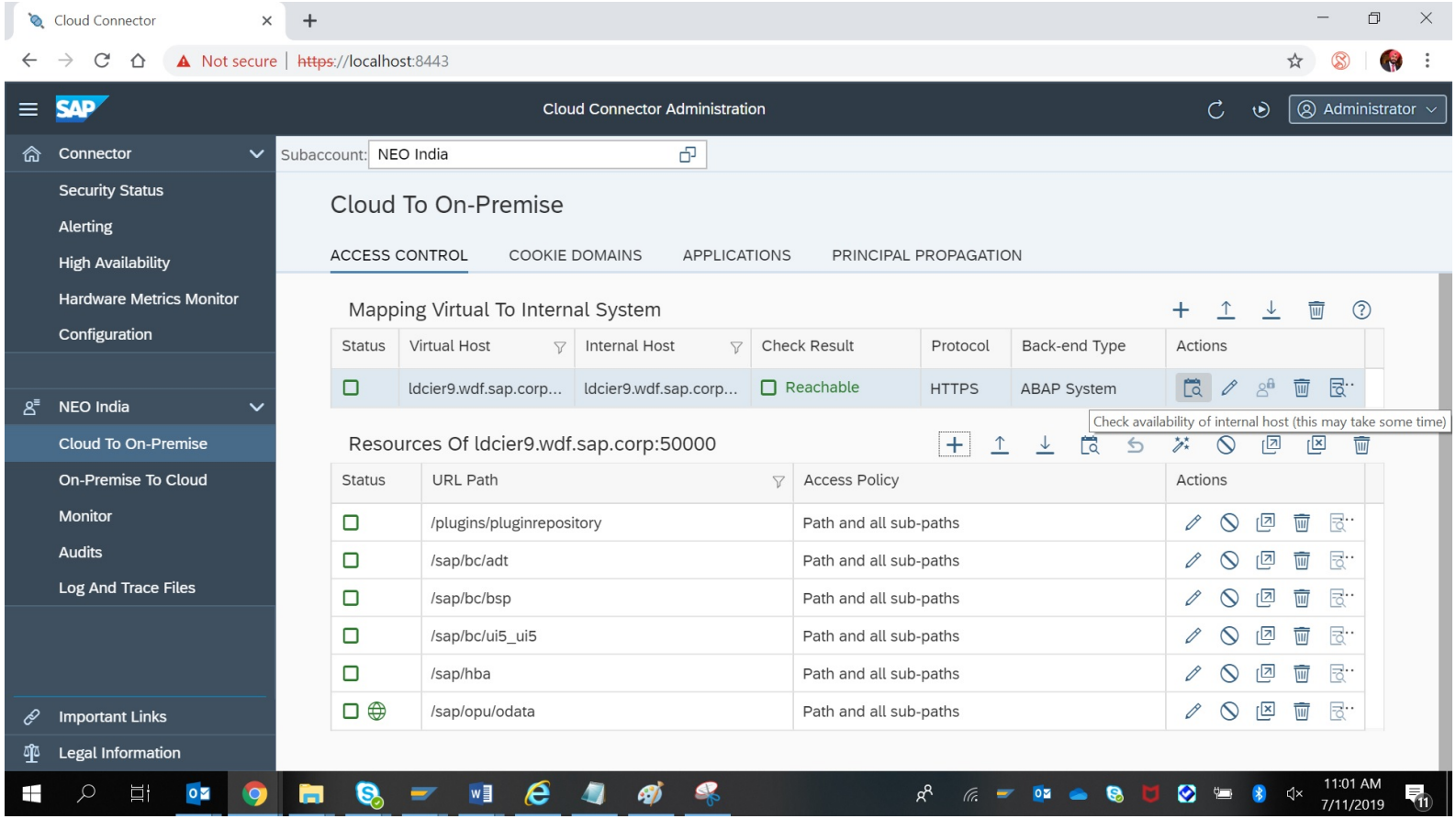
Here, add the visual host and port. You can enter any value for visual host and port.

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.

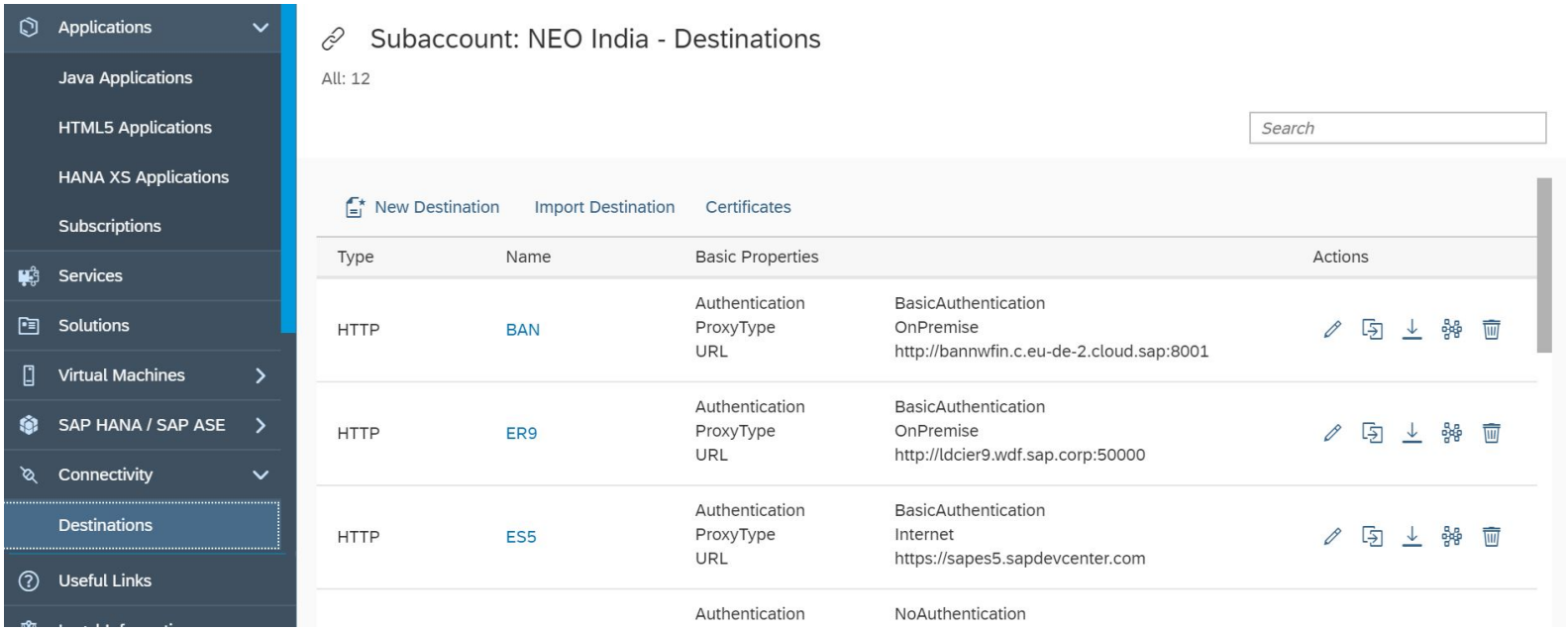


In the actions section, click on check availability of internal host button. The check result should change to reachable.

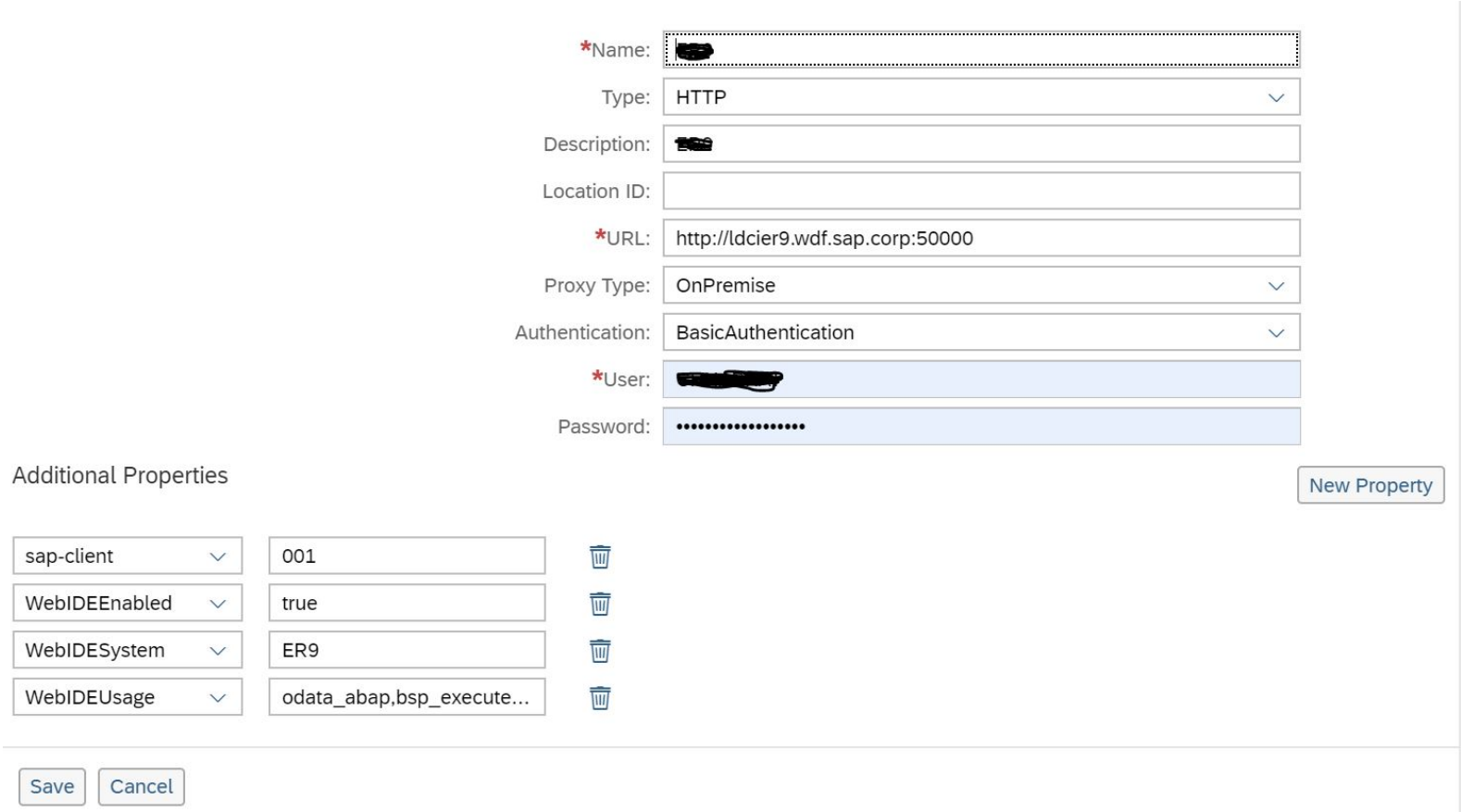


Step 4: This step will help you to add destinations to your SAP Cloud Platform Cockpit.

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



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



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.

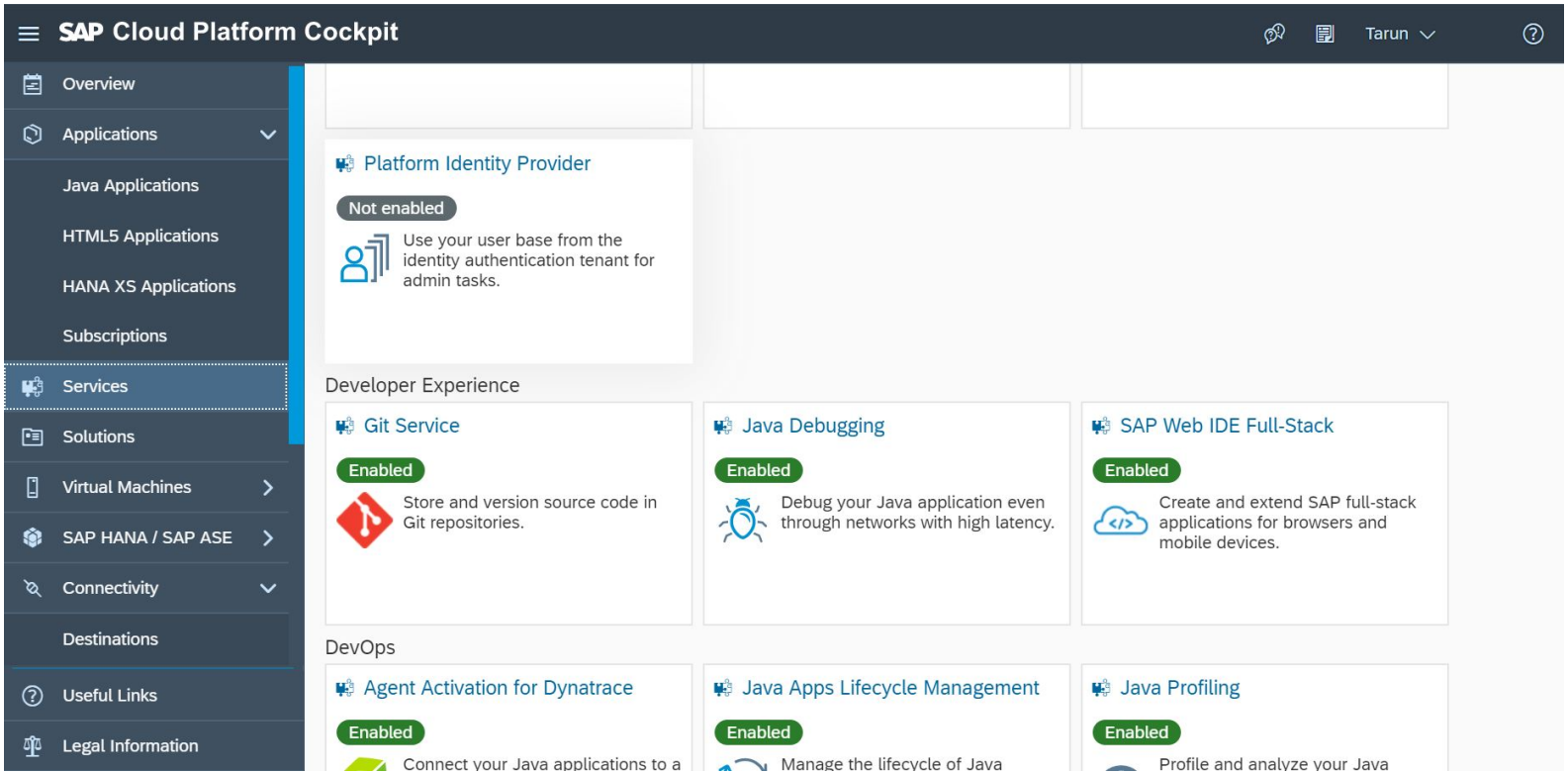
Add the below properties by clicking New Property.

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

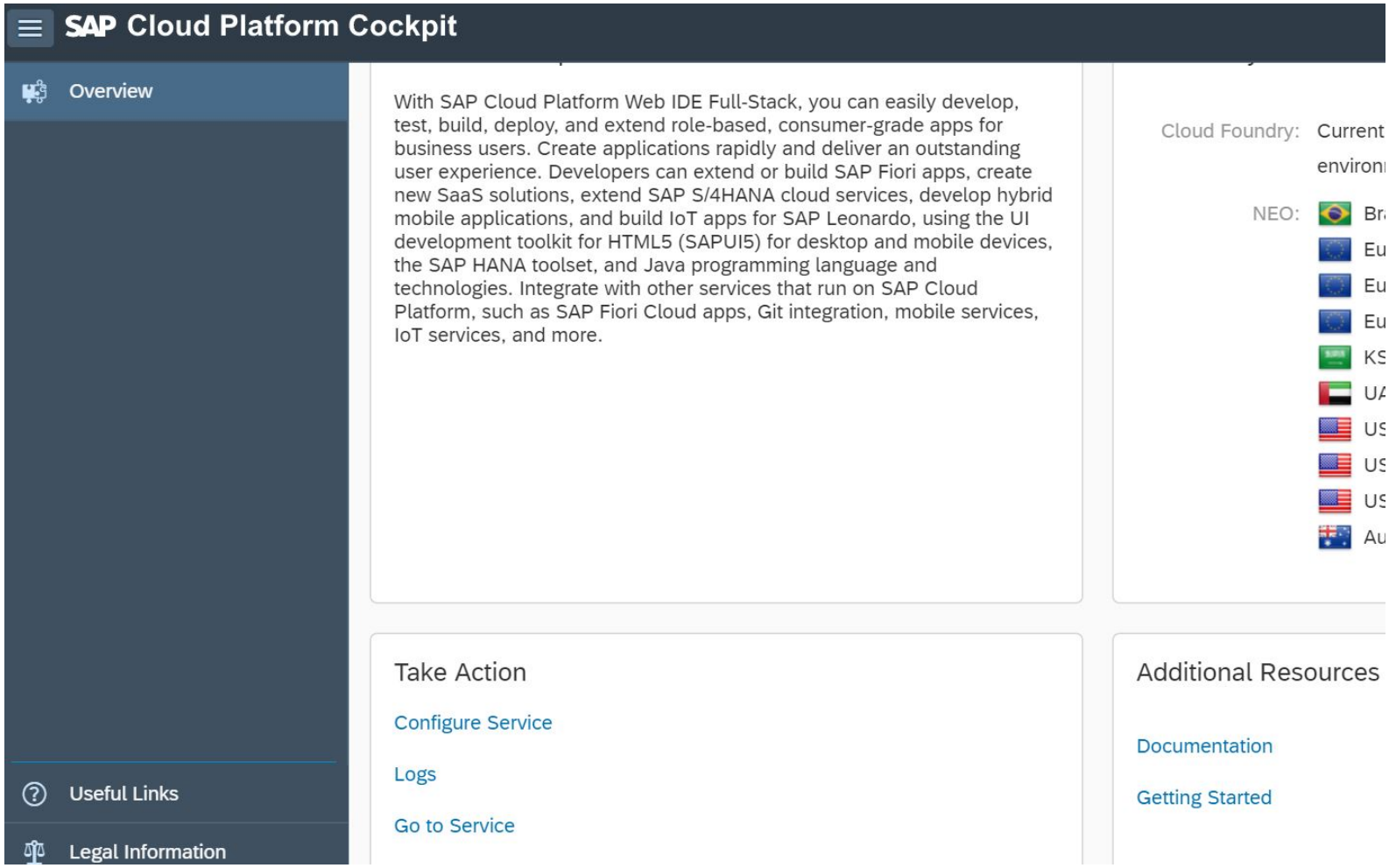
Click on Save.

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

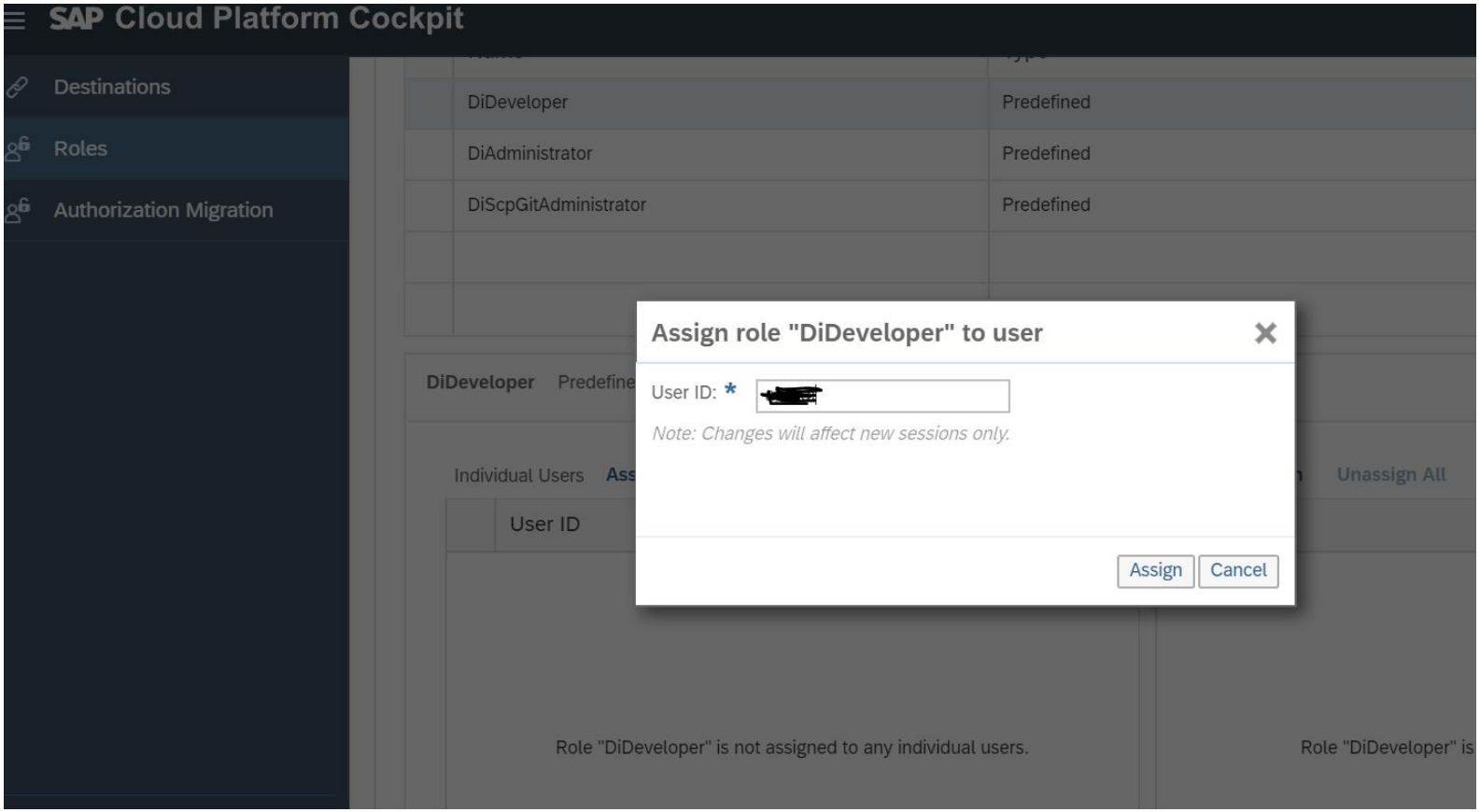
Step 5: Now you need to check certain permissions for using Web IDE. In the SAP Cloud Platform Cockpit, click on services and then click SAP Web IDE Full-Stack (make sure the service is enabled).



In the take action section, click on configure service.



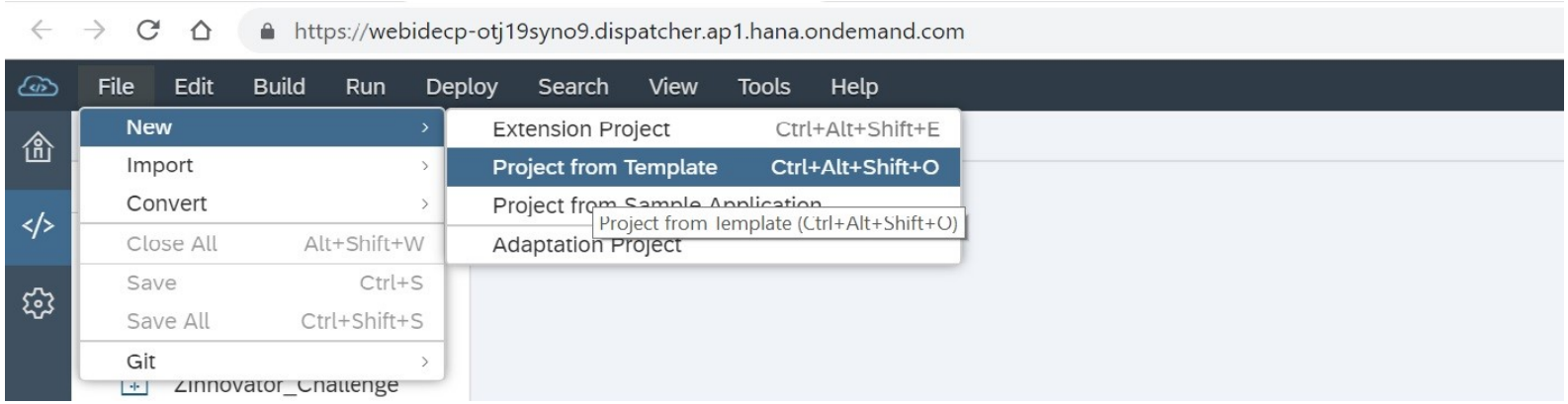
Here you need to add your user ID to the DiDeveloper role. For this, select the DiDeveloper role and click Assign and enter your user ID. Click Assign.



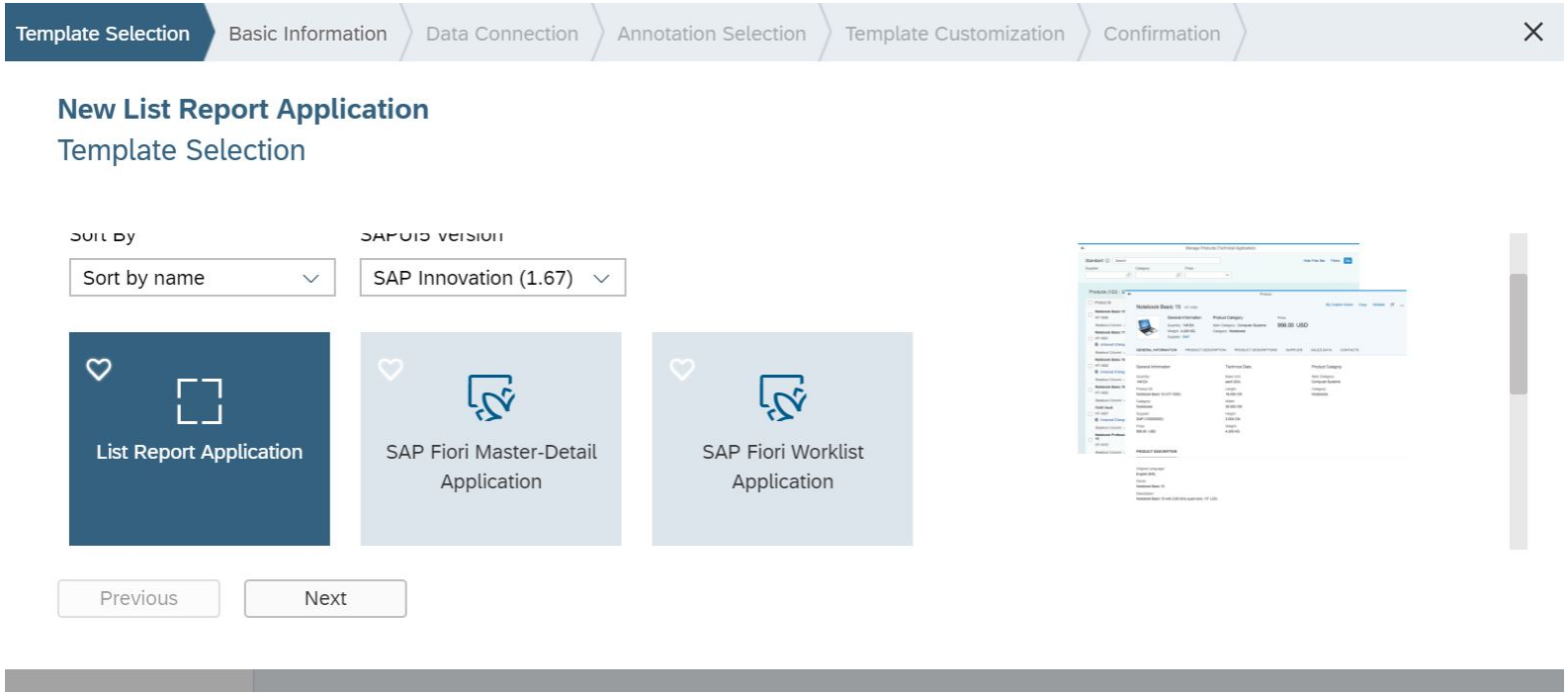
Step 6: In the final step, you will be creating a list report application using Web IDE by selecting your OData service from the configured system.

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

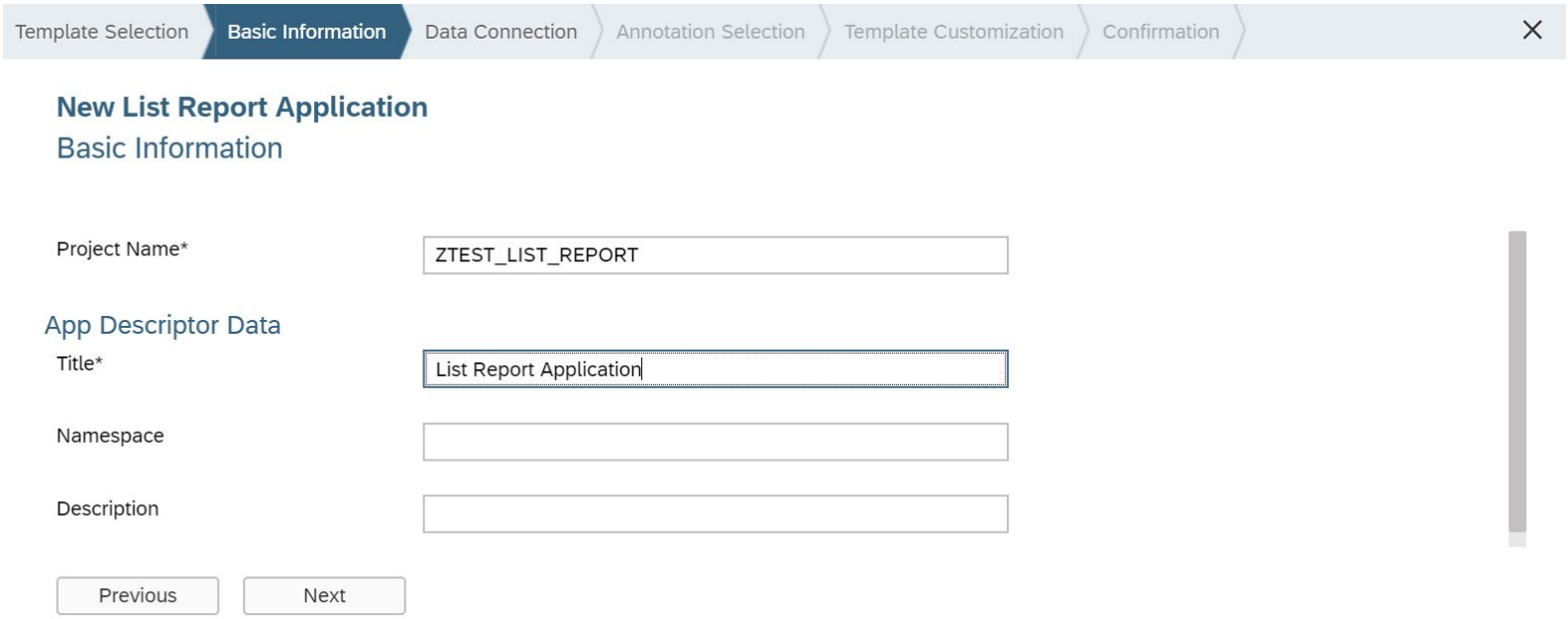
Click File->New->Project from Template.



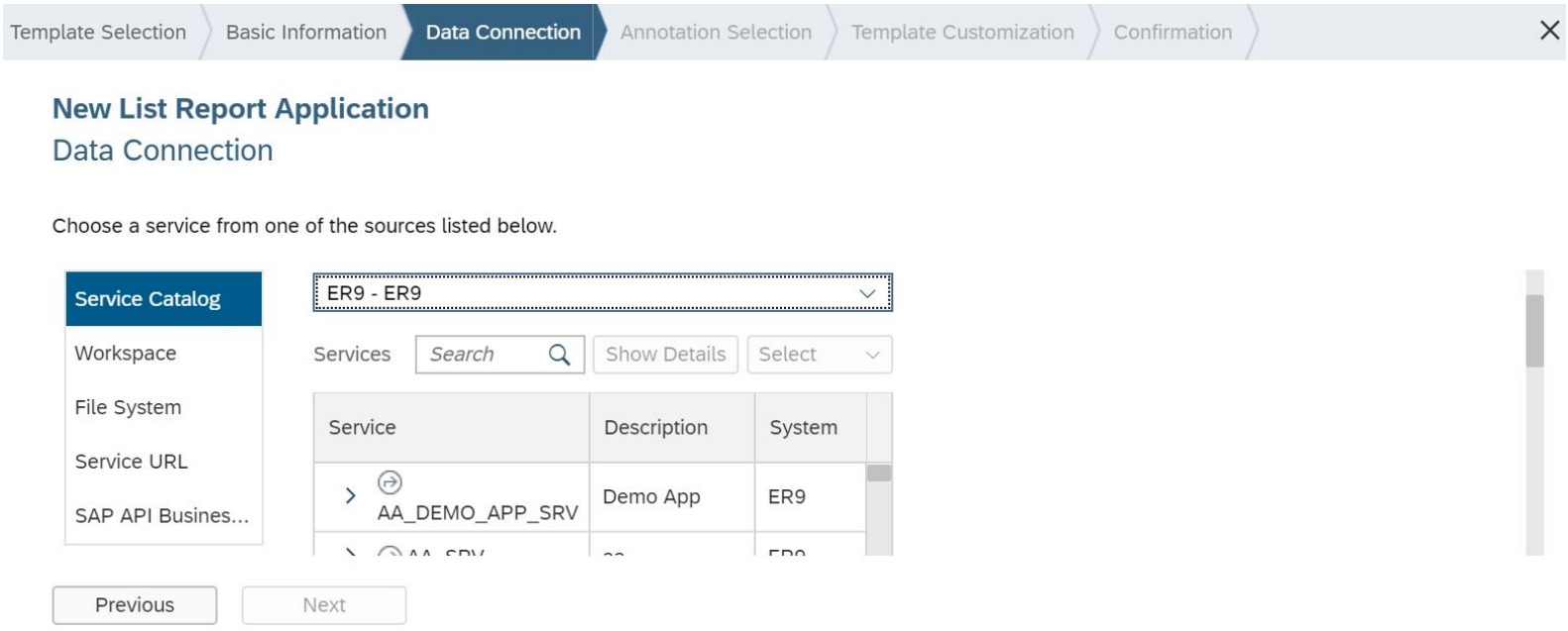
In the Template Selection screen, select list report application and click next.



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



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.



Select your service and click next.

Select the required annotation files and then click next.

ıe a ł ing section, select the OData collection from the list and click finish.

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SAP Connectivity service

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OData

SAP Business Technology Platform

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ABAP odata

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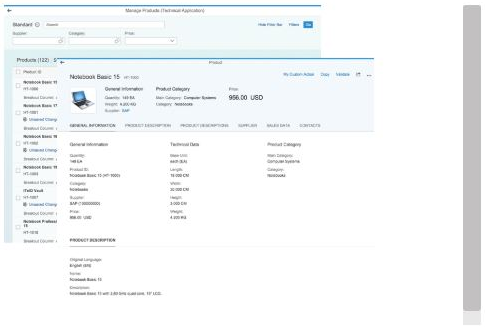
OData Collection* ZIC_BUS_MASTER

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



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July 12, 2019 at 3:49 am

Very Nice Blog. All steps captured very clearly

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Hi Geetika,

Thanks a lot for the appreciation.

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Regards

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Silas rocha
January 18, 2021 at 12:12 pm

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

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

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