Set up connection between on premise SAP (ABAP) system with SAP BTP using cloud connector

In this blog, the following point is going to be discussed: -

- We will learn how to set up connection between on premise SAP system with SAP BTP using cloud connector.

Environment pre-requisite: -

1. SAP ABAP system
2. SAP BTP
3. SAP Cloud connector

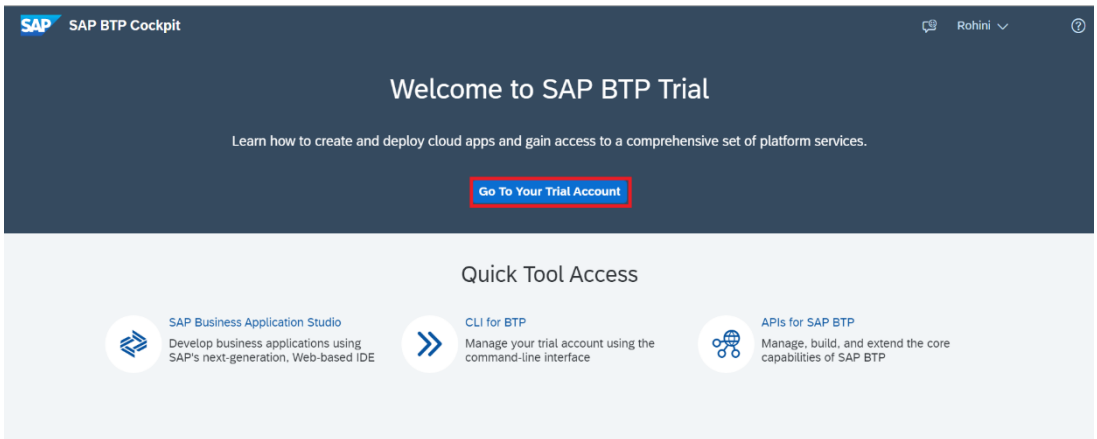
System readiness: -

1. Creation of **SAP BTP** Account
2. Installation of cloud connector
3. Configuration of **SAP BTP** account on cloud connector
4. Configuration of on premise SAP System
5. Creation of Destination for on premise SAP system on **SAP BTP**

Let's see this points step-by-step:-

- **Creation of SAP BTP Account:**

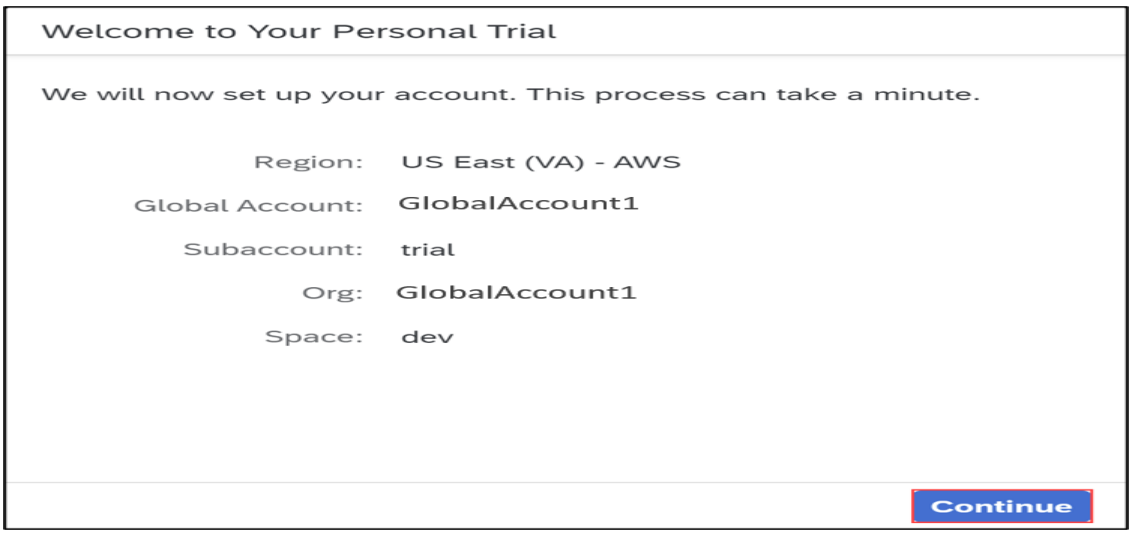
1. In your browser, open SAP Business Technology Platform | Trial. Register yourself on BTP.
2. Navigate to the trial global account by clicking **Enter Your Trial Account**.



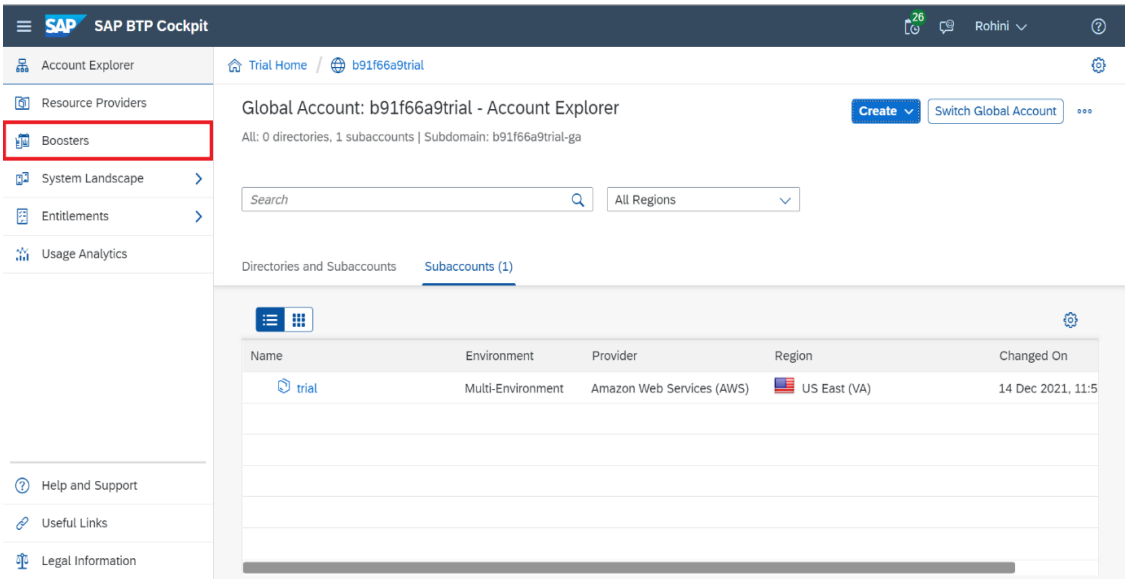
3. If this is your first time accessing your trial account, then you need to configure your account by choosing a region. Please select US East(VA) as a region. Your profile will

be set up automatically. Wait till your account is set up and ready to go. Your global account, subaccount, organization, and your space are launched. This may take a couple of minutes.

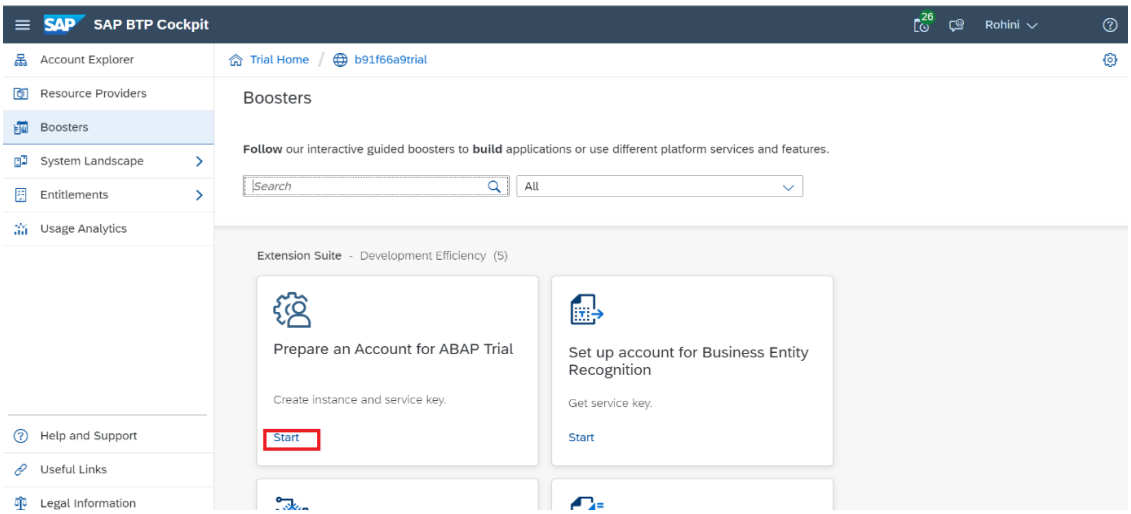
Choose continue.



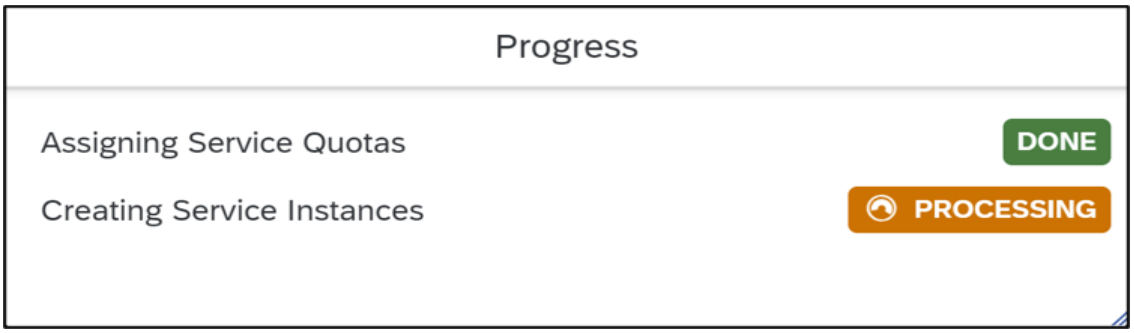
4. From your global account page, choose boosters.



5. In search tab, search for **Prepare an Account for ABAP Trial** tile and click **Start** to start your booster.



6. Now the service instance and service key will be created for the ABAP trial user. The service key can be found inside the service instance.



7. The booster is now executed successfully. Download service key for future use.

➢ **Installation of cloud connector:**

1. Download the msi installer from the link https://tools.hana.ondemand.com/#cloud
2. Click on cloud.

HOME ABAP BW **CLOUD** CLOUD INTEGRATION HANA IDM ML FOUNDATION MOBILE SAPUI5

Mac OS X (x64)	2.24.0	5.5 MB	btp-cli-darwin-amd64-2.24.0.tar.gz (sha1)
Windows (x64)	2.24.0	5.7 MB	btp-cli-windows-amd64-2.24.0.tar.gz (sha1)

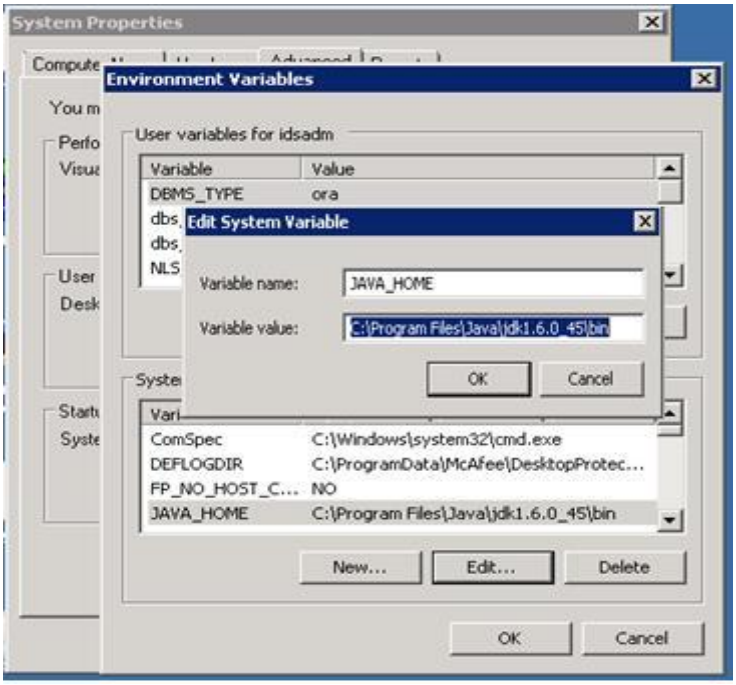
Cloud Connector

The Cloud Connector is an optional on-premise component that is needed to integrate on-demand applications with customer backend services and is the counterpart of SAP Connectivity service.
For more information, see the Cloud Connector documentation.
Note: The Portable archives for Cloud Connector are meant for non-productive scenarios only. They can be used even if you don't have administrator permissions on the machine, on which you like to use the Cloud Connector. However, those variants do not support upgrades from previous versions.

Available Cloud Connectors

Operating System*	Architecture	Version	File Size	Download
Linux	ppc64le	2.14.2	73.5 MB	sapcc-2.14.2-linux-ppc64le.zip (sha1)
Linux	x86_64	2.14.2	71.9 MB	sapcc-2.14.2-linux-x64.zip (sha1)
Linux (Portable)	ppc64le	2.14.2	76.6 MB	sapcc-2.14.2-linux-ppc64le.tar.gz (sha1)
Linux (Portable)	x86_64	2.14.2	74.3 MB	sapcc-2.14.2-linux-x64.tar.gz (sha1)
Mac OS X (Portable)	x86_64	2.14.2	74.2 MB	sapcc-2.14.2-macosx-x64.tar.gz (sha1)
Windows	x86_64	2.14.2	75.8 MB	sapcc-2.14.2-windows-x64.msi (sha1)
Windows (Portable)	x86_64	2.14.2	73.6 MB	sapcc-2.14.2-windows-x64.zip (sha1)

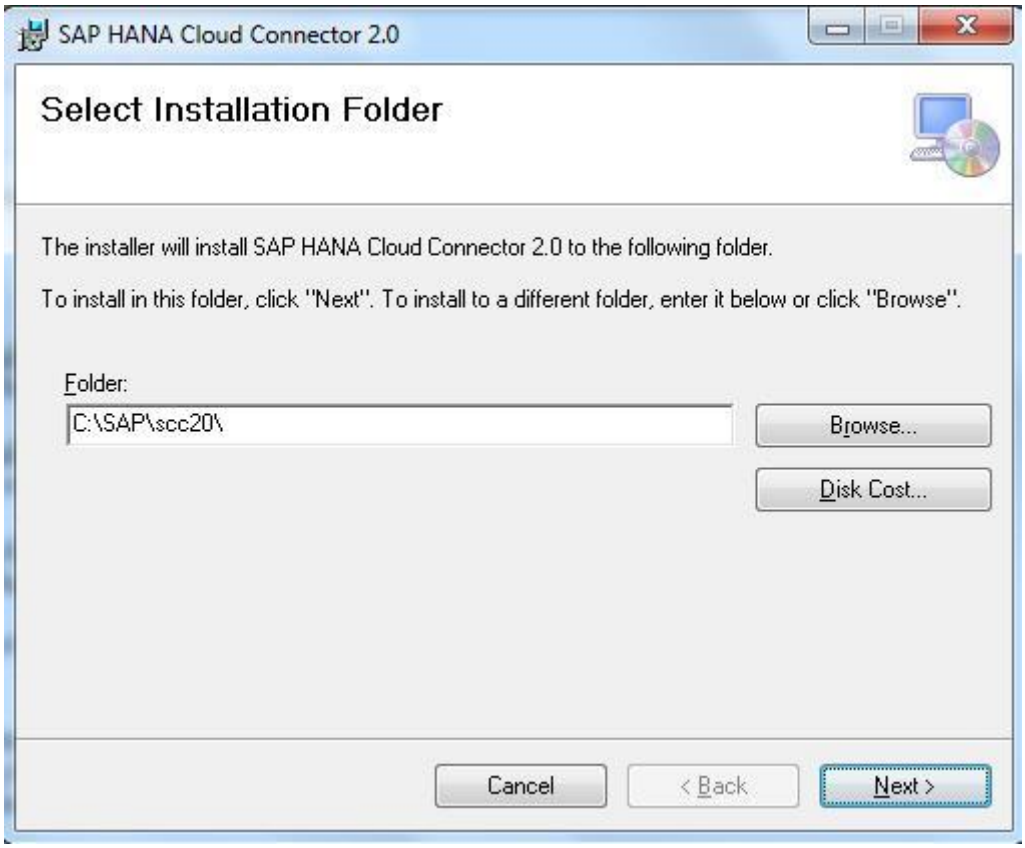
3. Create Environment Variable JAVA_HOME and update the directory path.
   Go to Control panel->environment variable and add JAVA_HOME variable.



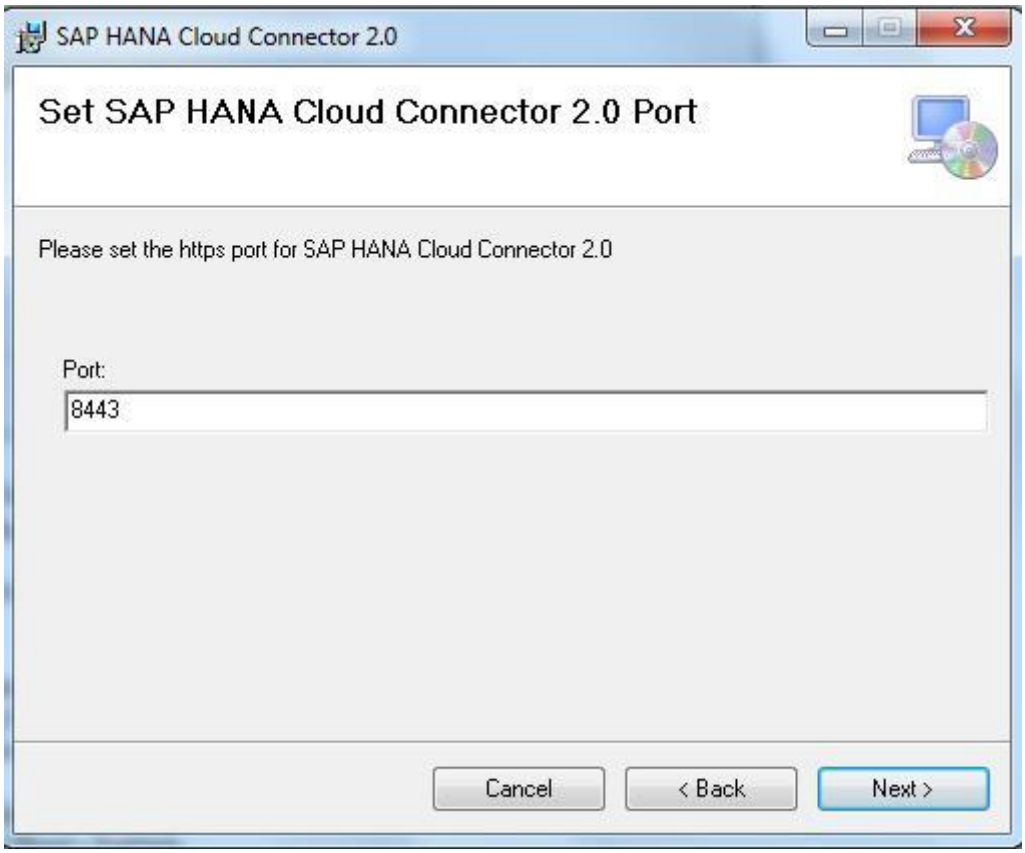
4. After downloading double click on <sapcc-<version>-windows-x64.msi> installer file and run the software.

5. Afterwards it will be welcome by the installer.

6. Navigate to the installation directory for the SAP HANA Cloud connector and Choose next.

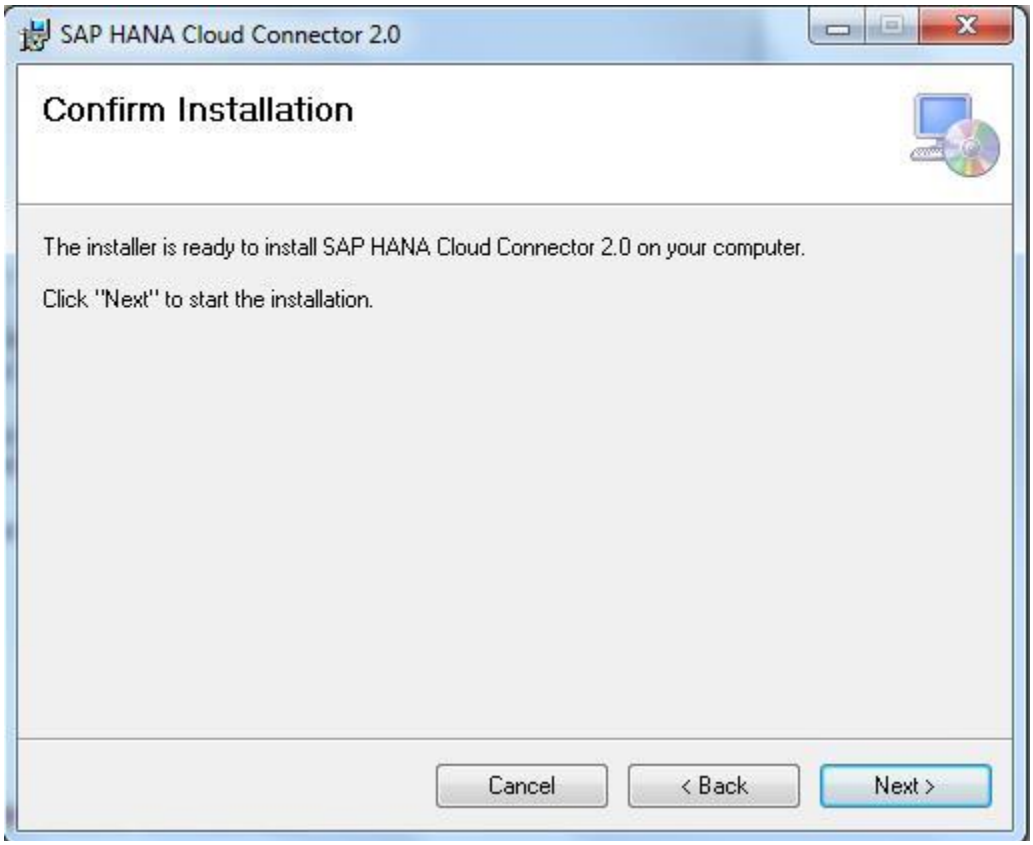


7. Port can be chosen on which the administration UI is reachable. Either leave the default 8443 or choose a different port if needed. Then choose Next.

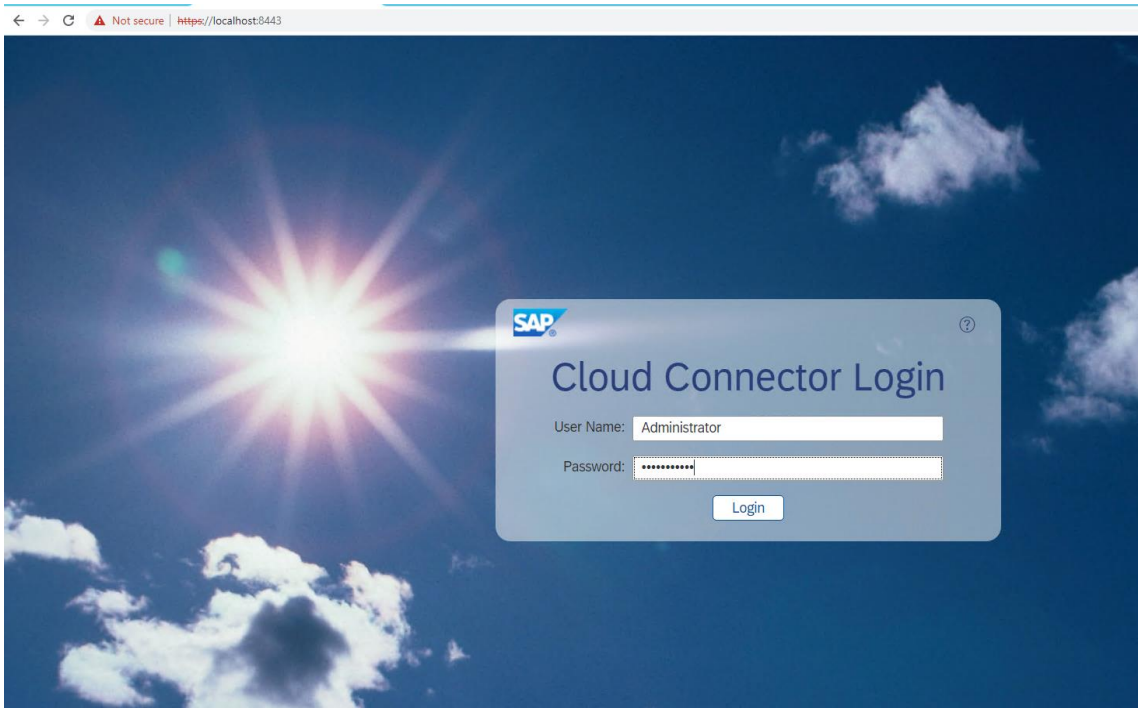


8. On this step, decide whether the Cloud connector should be started immediately after finishing the setup. If this is not required now, remove the check from the checkbox. Then choose Next.

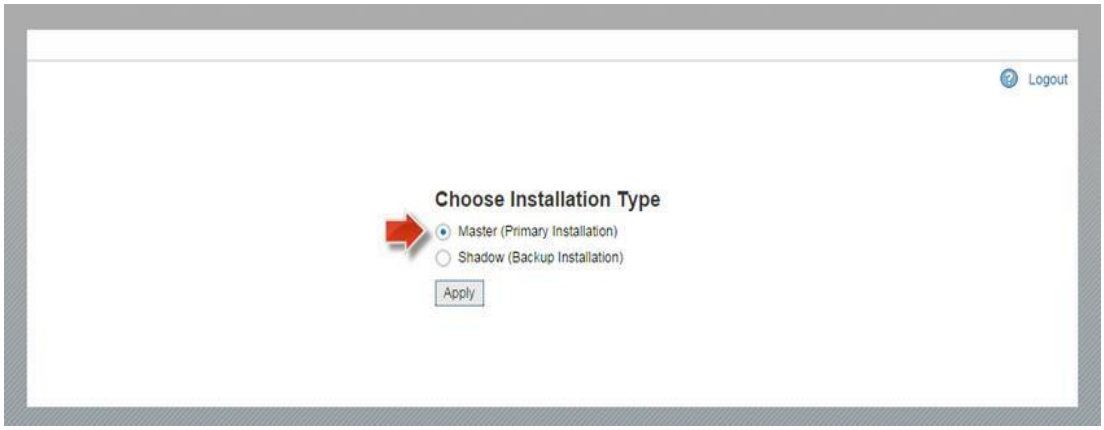
9. After all installation options have been fulfilled, to start the install, press again the Next button.



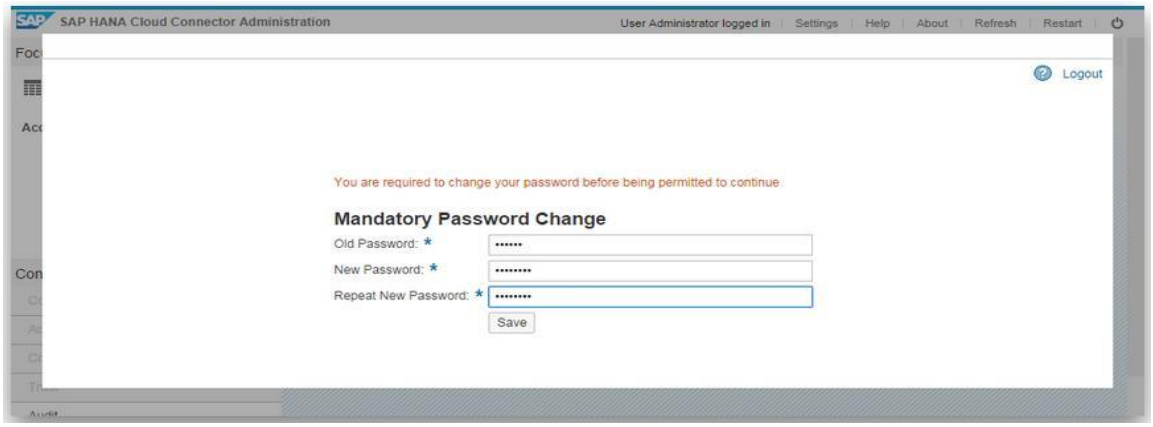
10. After installation Logon to the cloud connector administration UI by invoking the URL https://localhost:8443 in a Web browser. The cloud connector logon screen then is shown in the browser. As user and password, use the pre-defined user Administrator and password manage.



11. As first step, select Master as the installation type.



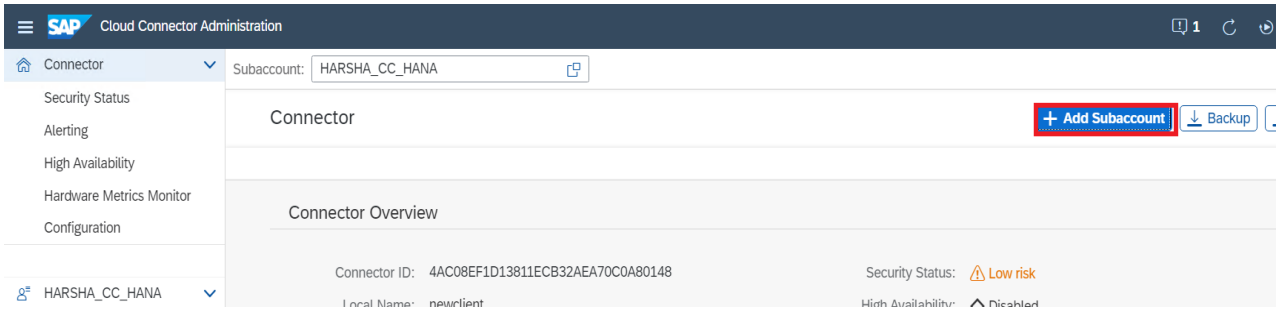
12. After the first logon, change the initial password.



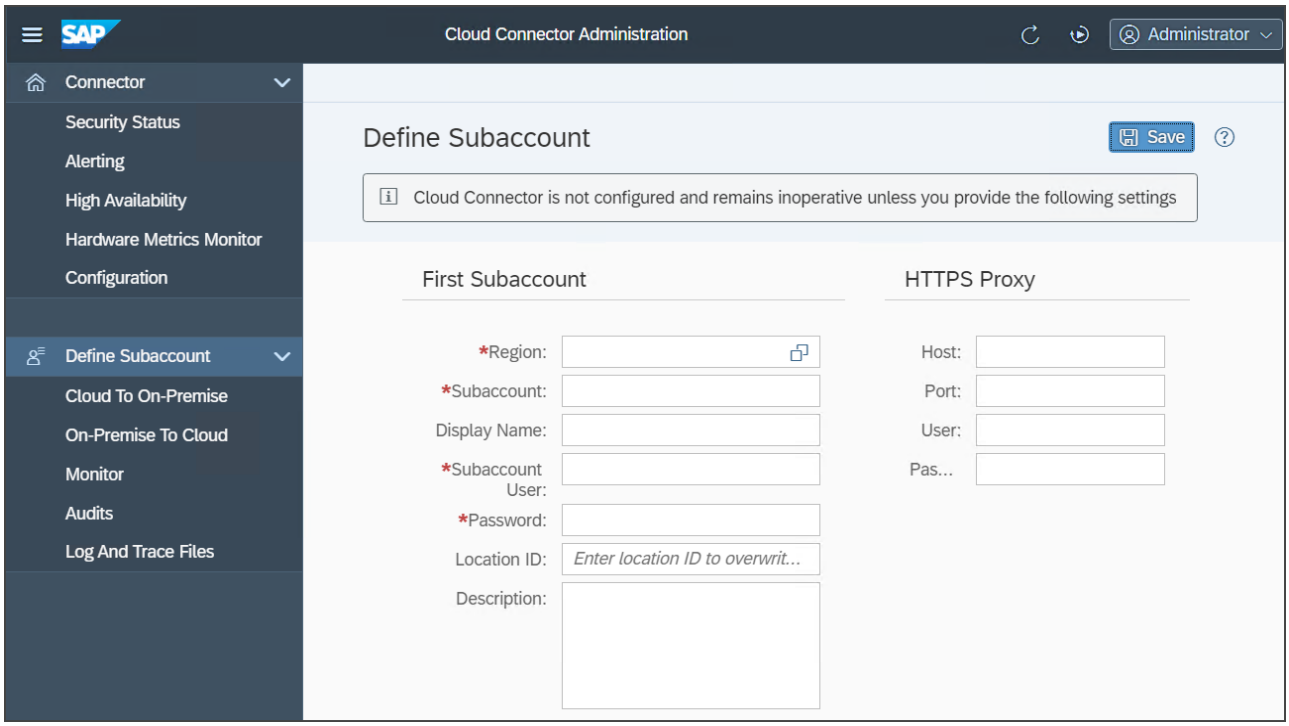
13. You have successfully logon to the cloud connector.

➢ Configuration of SAP BTP account on cloud connector:

1. On the Connector Overview Page, click Add Subaccount to add your SAP BTP trial account.

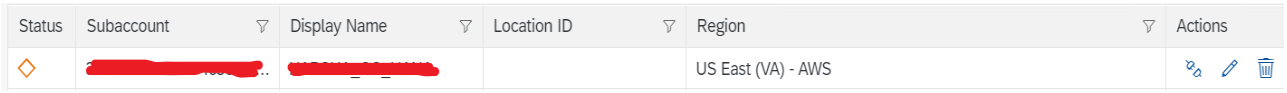


2. On the Define subaccount page, you can directly start entering the details of your SAP BTP trial account.



3. Enter the all required information and click on save.

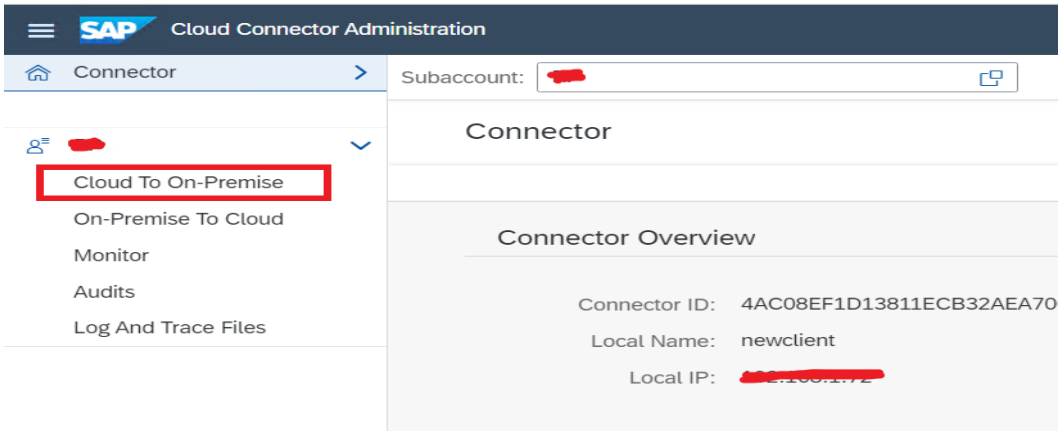
4. You have connected your trial subaccount and can now see it in the subaccount dashboard. The status is still yellow, as backend access has not been configured yet.



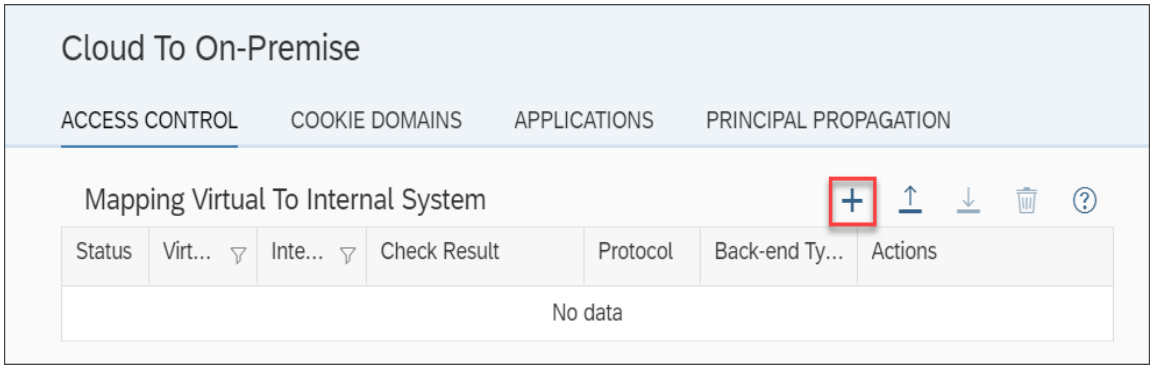
You have successfully configure your SAP BTP account to cloud connector.

➢ **Configuration of on premise SAP System to cloud connector:**

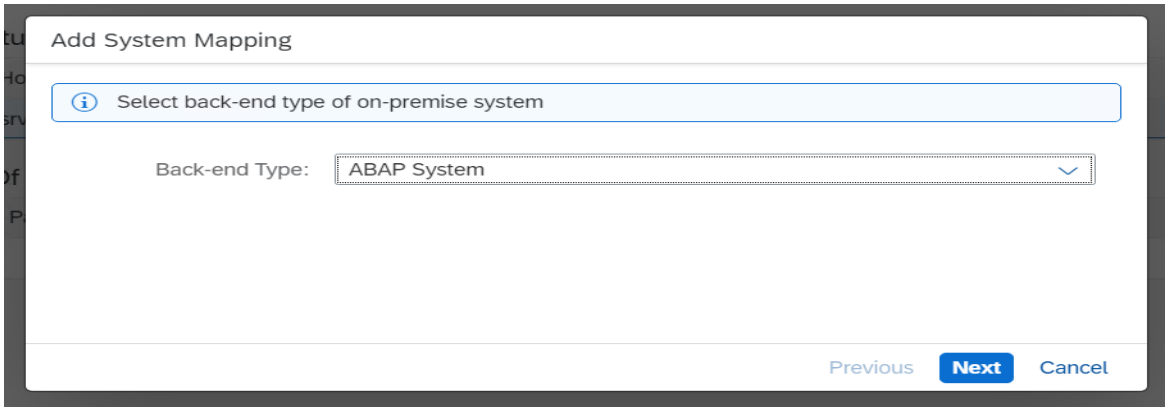
1. You can see that the newly connected subaccount is already selected. Click Cloud to On-Premise in the menu on the left side of the screen.



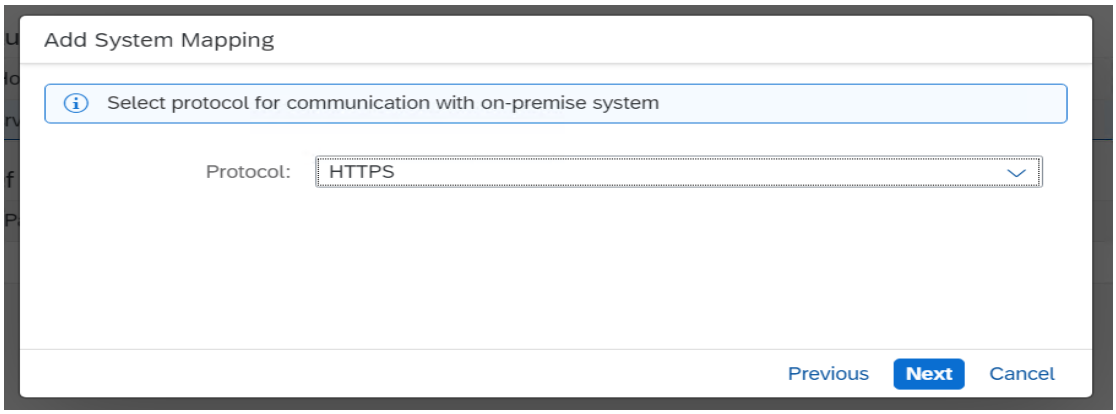
2. Click the plus icon to add your on-premise system.



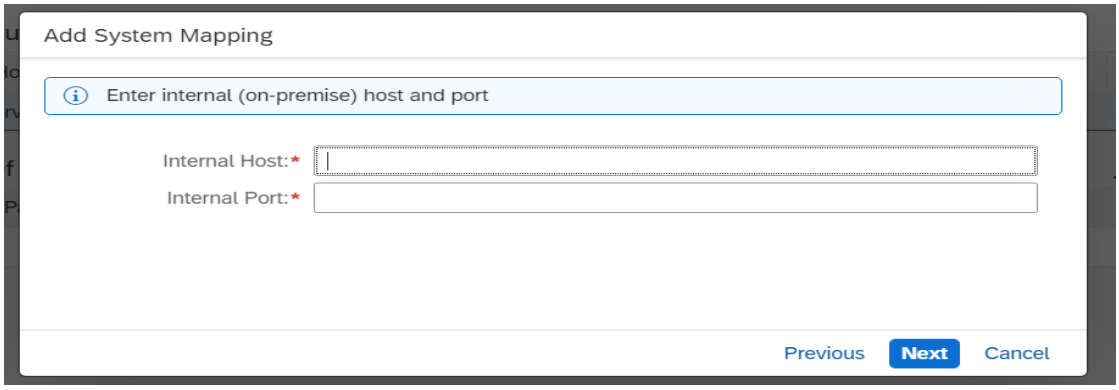
3. Keep the default ABAP System and click Next.



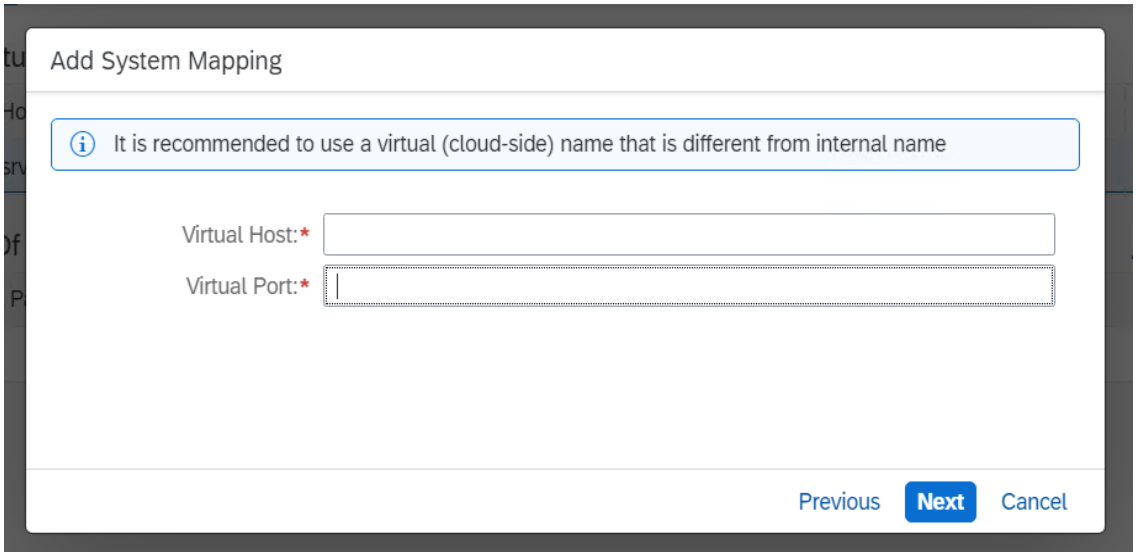
4. Select HTTPS as protocol for communication with yours on premise system and click Next.



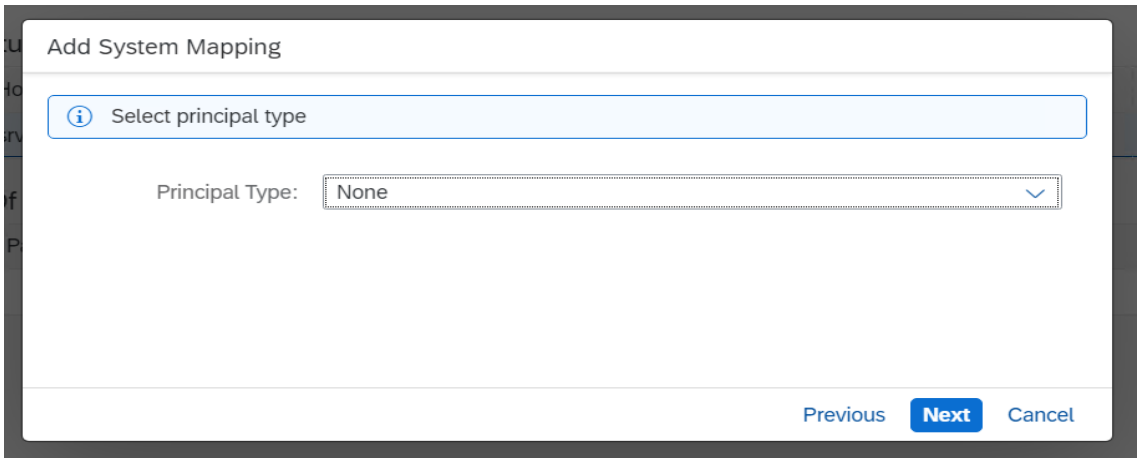
5. Enter the internal host name of your SAP S/4HANA system and the internal port. You can find out internal host and internal port of your SAP S/4HANA system in SICF tcode.



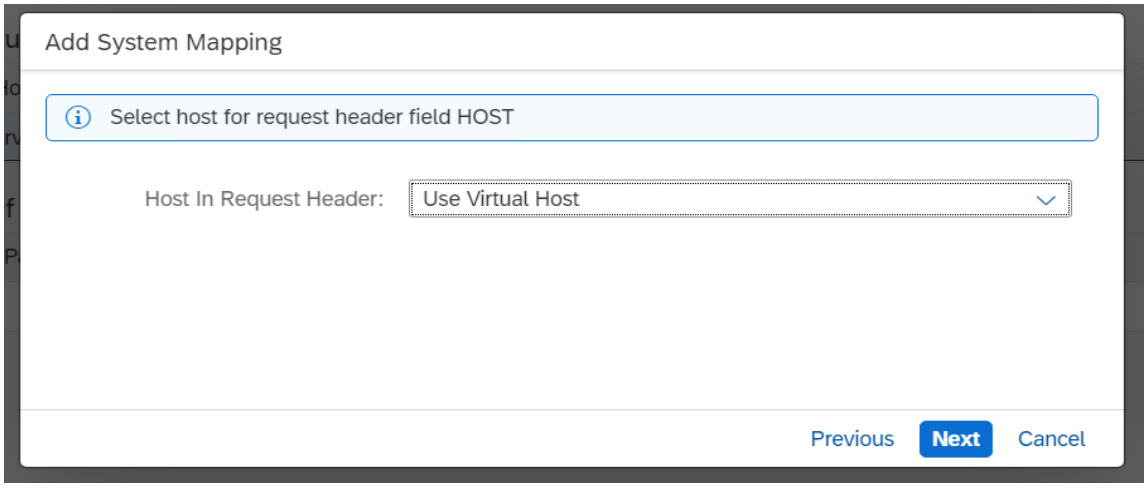
6. Enter the virtual host and virtual port (You can choose any virtual host and virtual port here or you can give virtual host and port same as the internal host and port).



7. In next screen, click next.

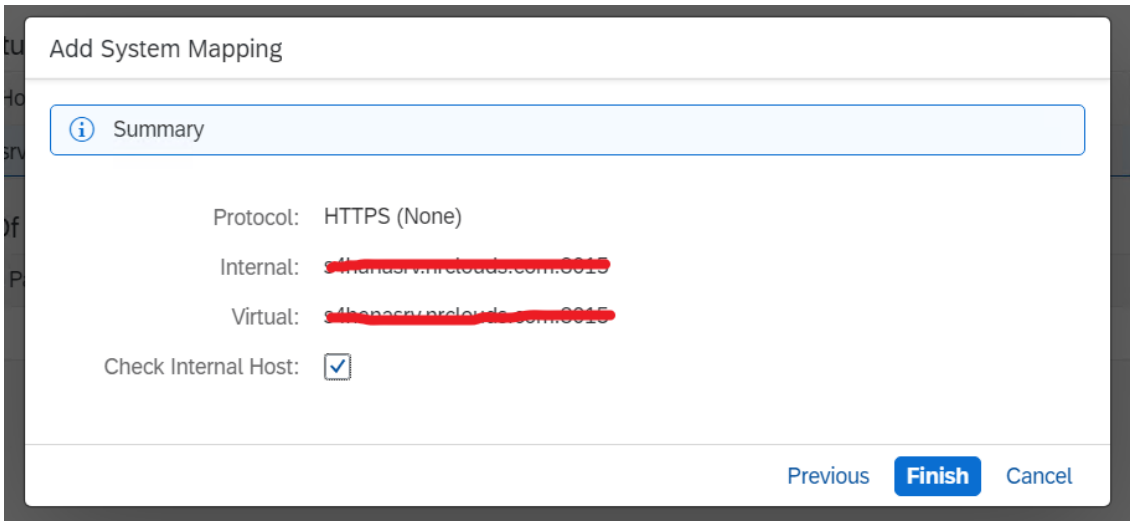


8. Click next.

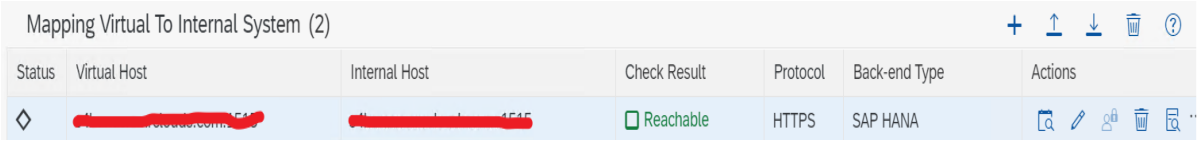


9. If you want, add description and click next.

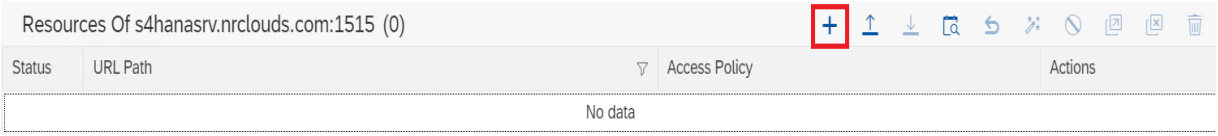
10. In next screen check the Check Internal Host checkbox and click finish.



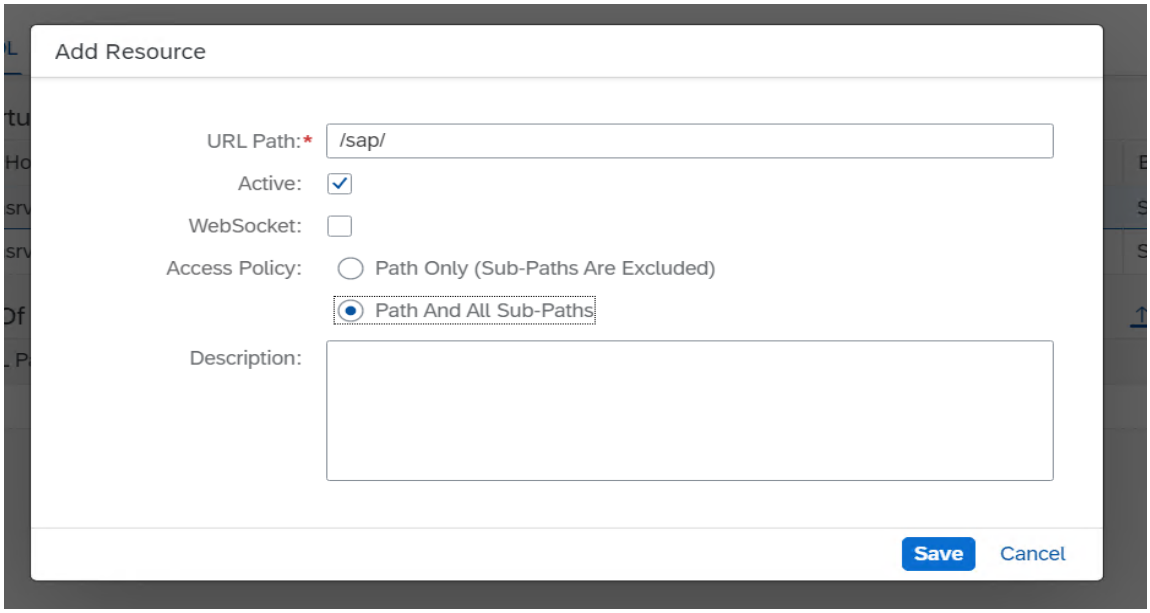
11. You now see a new entry in the mappings table. The icon in the Check Result column should be green, but the status is still grey, as no accessible resources have been defined yet.



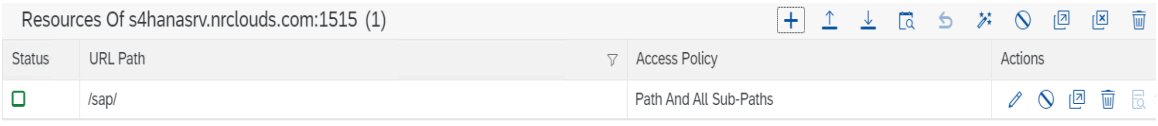
12. To add resource, click on plus icon in the resource table.



13. Add the URL path as **/sap/** and choose the radio button **Path and All Sub-Paths**. Click on save.



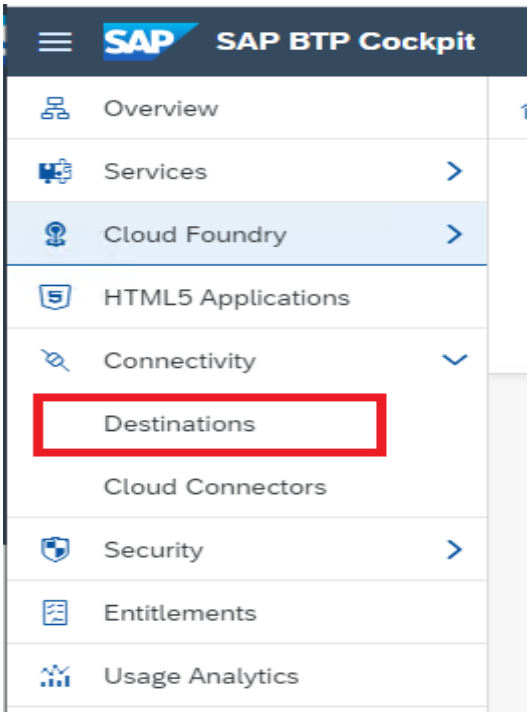
14. You have successfully add resource to resource table.



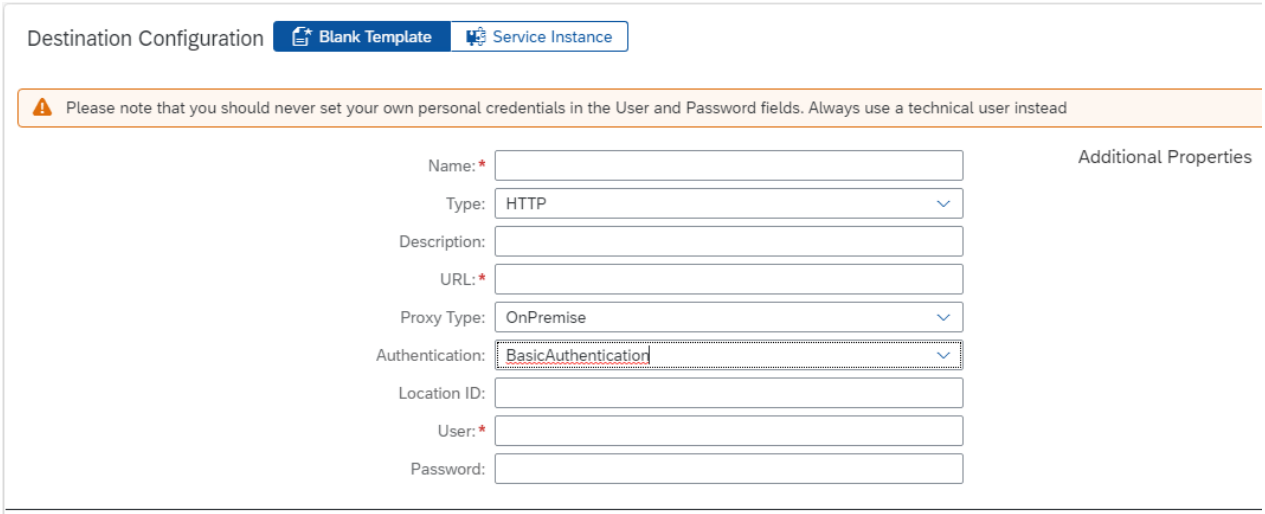
You successfully configured the SAP on premise system to cloud connector.

- **Creation of Destination for on premise SAP system on SAP BTP:**
  Create destination to fetch content from system during design time.

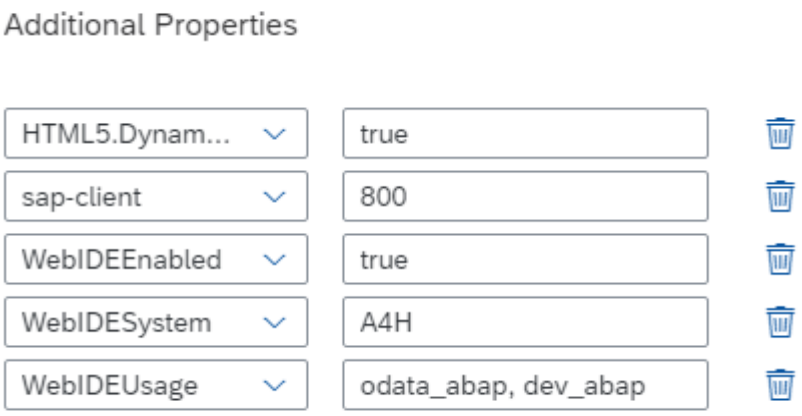
1. Logon to your SAP BTP account.
2. On SAP BTP account, please click on Destinations under connectivity:



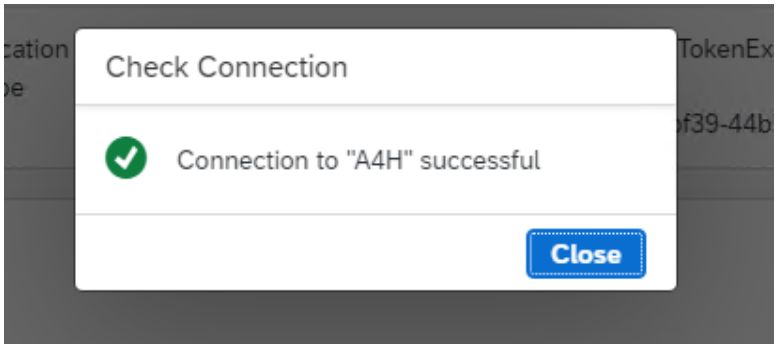
3. Add new destination for sap system which we added in cloud connector. Click on New destination, you will get the below window.



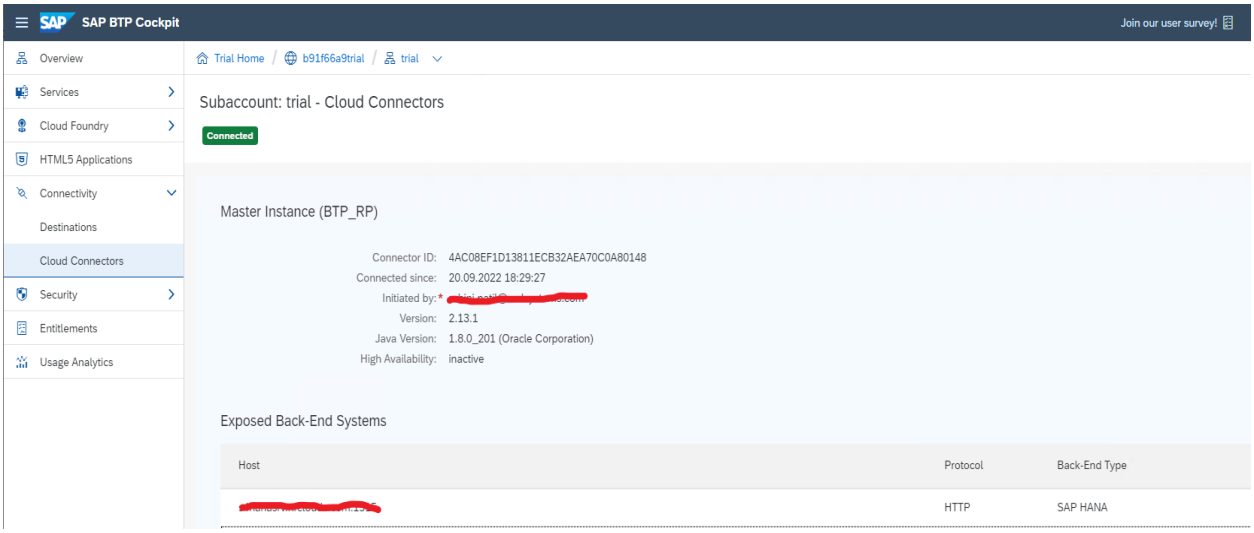
4. Provide details which we configured in cloud connector and add properties on this destination as below:



5. After providing all the details click on save and test the destination connection by clicking on check connection.



6. Also check the cloud connector status in BTP.



Conclusion: You have successfully set up the connection between on premise SAP (ABAP) system with SAP BTP using cloud connector.

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