SAP Ariba

Cloud Connector configuration for Integration Suite Managed Gateway

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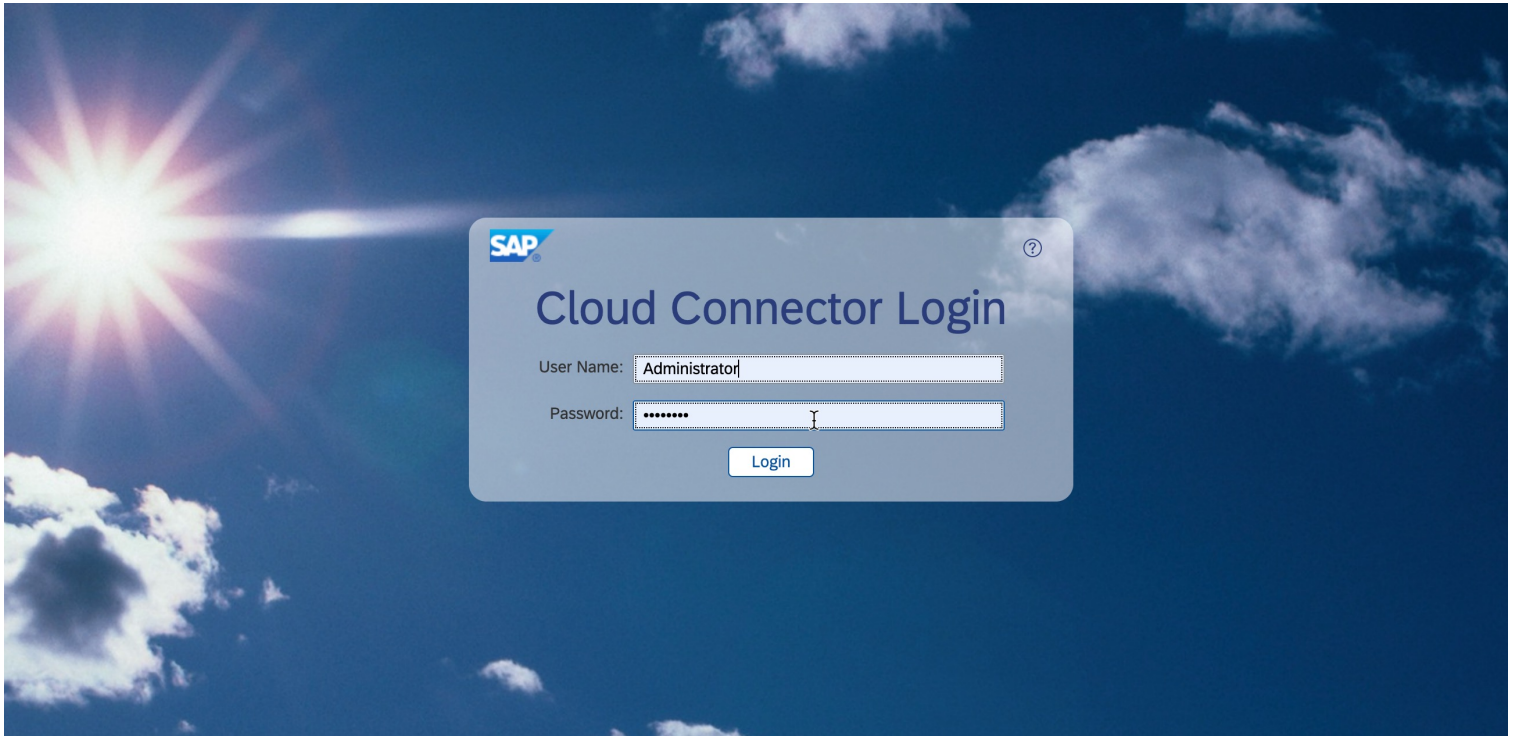
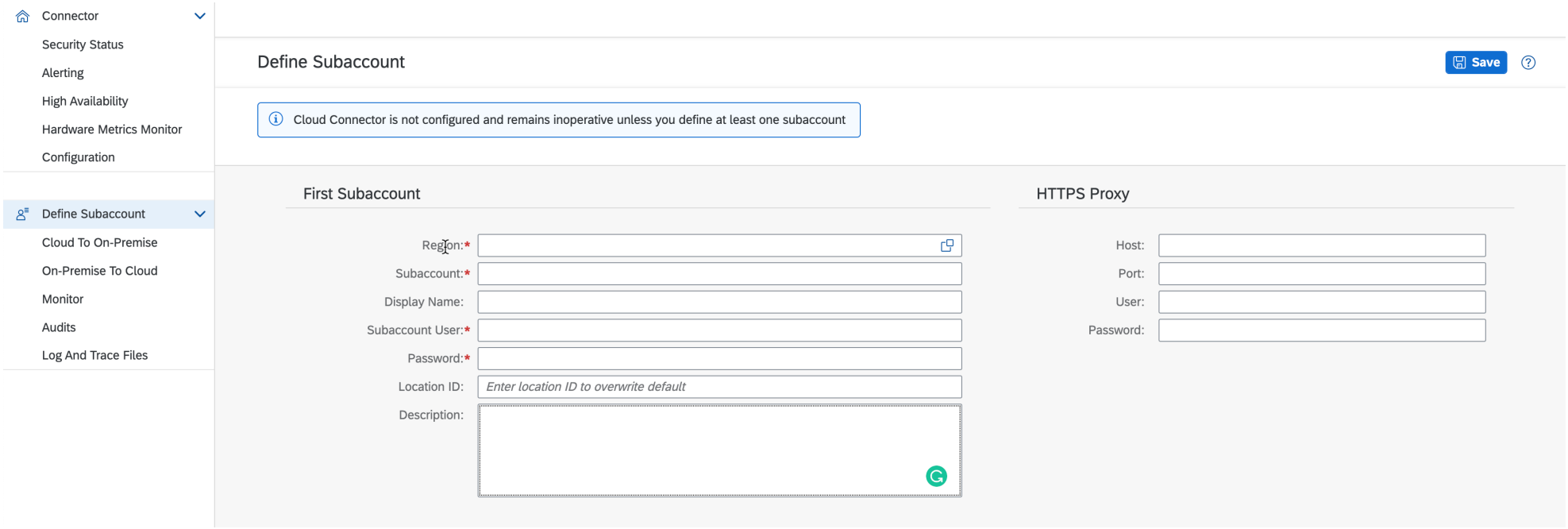
Topics

- Cloud Connector configuration for Integration Suite Managed Gateway
- Whitelist IPs for Integration Suite Managed Gateway -> ERP
- Whitelist IPs for ERP -> Integration Suite Managed Gateway
- Troubleshooting

Once you install cloud connector login with the user credentials provided during the installation. Here I am logging in as administrator



When you login for the first time you will not see any subaccounts in the connector page. You need to add separate sub accounts for test and production system. Click Add Subaccount button.



1. Region Host: Any customers integrating via Integration Suite Managed Gateway, will use one of the below data centers depending on their location or when the Integration Suite Managed Gateway was activated. If you using Integration Suite Managed Gateway EU, then its ***eu1.hana.ondemand.com or EU(Rot),*** if you are using Integration Suite Managed Gateway US, then its ***us4.hana.ondemand.com,*** if are using Integration Suite Managed Gateway CN, then its ***cn1.platform.sapcloud.cn,*** If you are using Integration Suite Managed Gateway KSA then its, ***sa1.hana.ondemand.com,*** If you are using Integration Suite Managed Gateway UAE then its, ***ae1.hana.ondemand.com,***

   How to know which Integration Suite Managed Gateway data center I am using? Once you enable Integration Suite Managed Gateway in Ariba Network/Ariba Buying/Ariba Sourcing, next to Visit SAP Ariba Cloud Integration Gateway, you will see the data center.

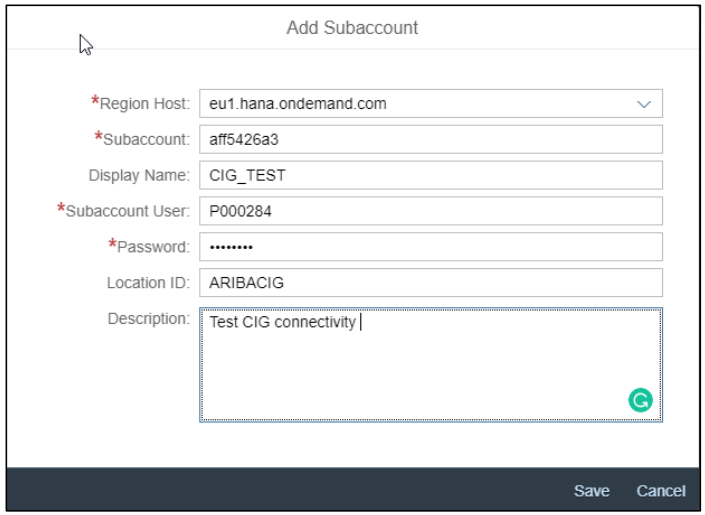
2. Subaccount: We have separate subaccounts for **TEST** and **PRODUCTION** systems for each **DATA CENTER**. Follow the below table to know

Integration Suite Managed Gateway EU (eu1.hana.ondemand.com or EU (Rot))	Integration Suite Managed Gateway US (us4.hana.ondemand.com)	Integration Suite Managed Gateway China (cn1.platform.sapcloud.cn)	Integration Suite Managed Gateway KSA (sa1.hana.ondemand.com)	Integration Suite Managed Gateway UAE (ae1.hana.ondemand.com)
aff5426a3	xf014edd7	r0j327s1ak	vyune65dsw	gxrmsck7oq
a18a6fc8f	x60abf046	c7rrjwusz0	va2w1i23wr	t5skjep13f
riph868phi				
a8f3ed22c	b3bcoyxwro	v6h7l4po2z	q954q7a4d0	s3wsfj1qe8
ab9e90b64	x691dbc6d	gegwi7n4kq	w2fi9zn95p	qc7mrw8tvm
a278d9ec7	x1e1a8cfb	g1mgxyvy6e	q8famn5vpc	v011cy26z4
A508aae51	x8713dd41	zj358jrvnr		
fh7owkbn5n	fnpxlbn69y			
t6u5sulpil	ald178slao			
uajqgqv8l3				

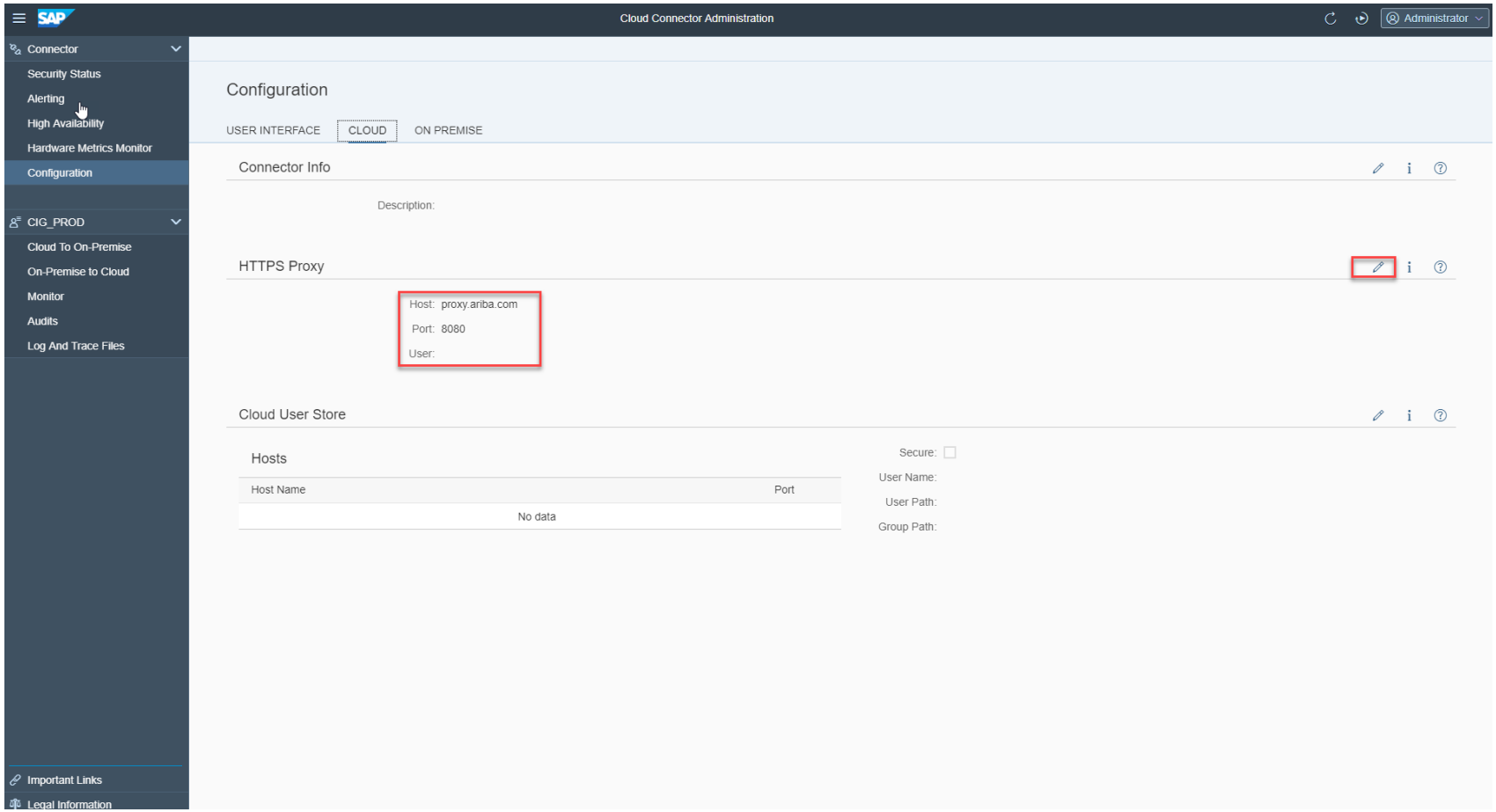
3. Display Name: You can provide any display name to any value. Here I used Integration Suite Managed Gateway_TEST

4. Subaccount User/Password: Provide the Puser value you have received in email when you enable Integration Suite Managed Gateway and the corresponding password.

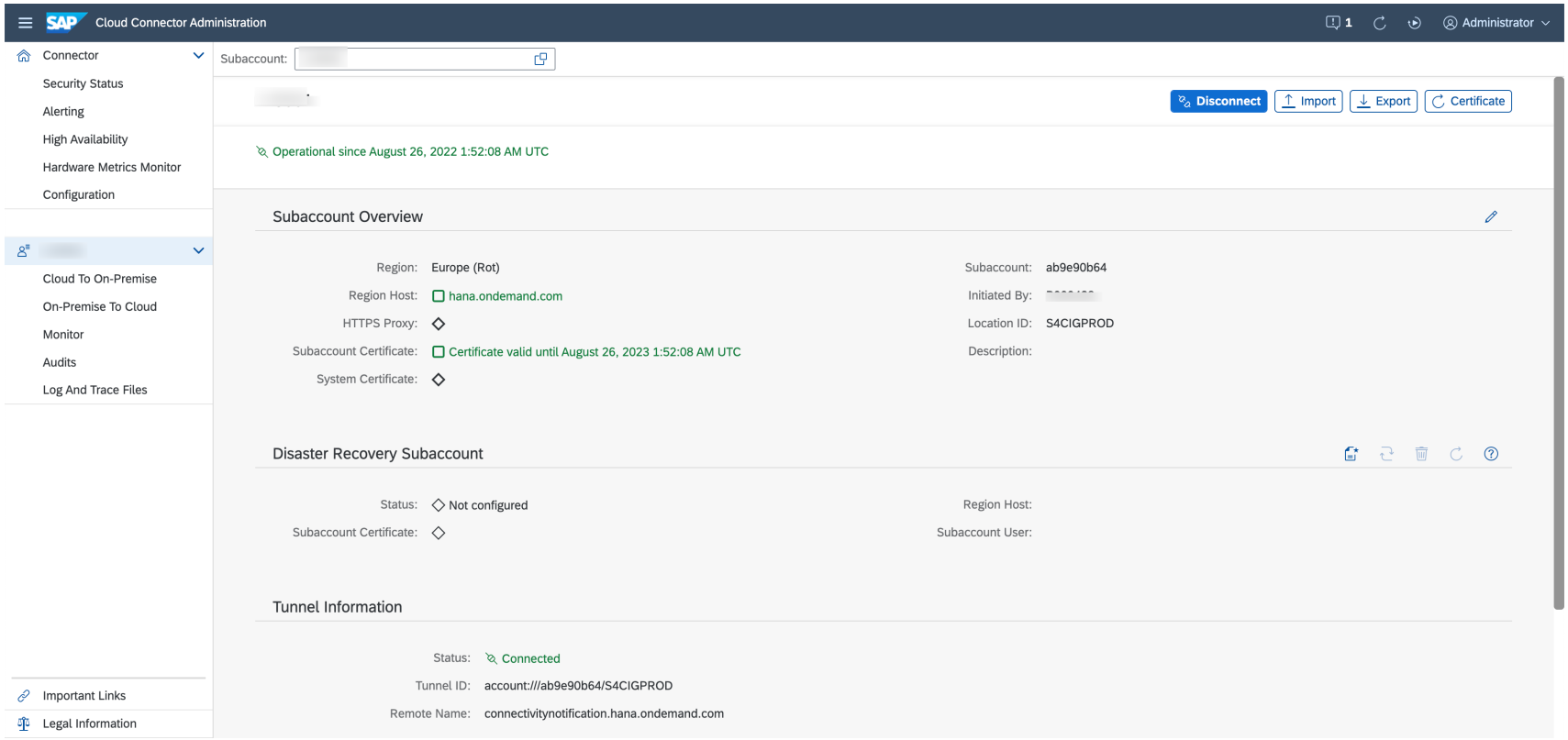
5. Location ID: Provide a location id value here. It can be anything but make sure you provide the same in the Integration Suite Managed Gateway portal connection details and for other subaccounts. Here I am using SAP Integration Suite Managed Gateway



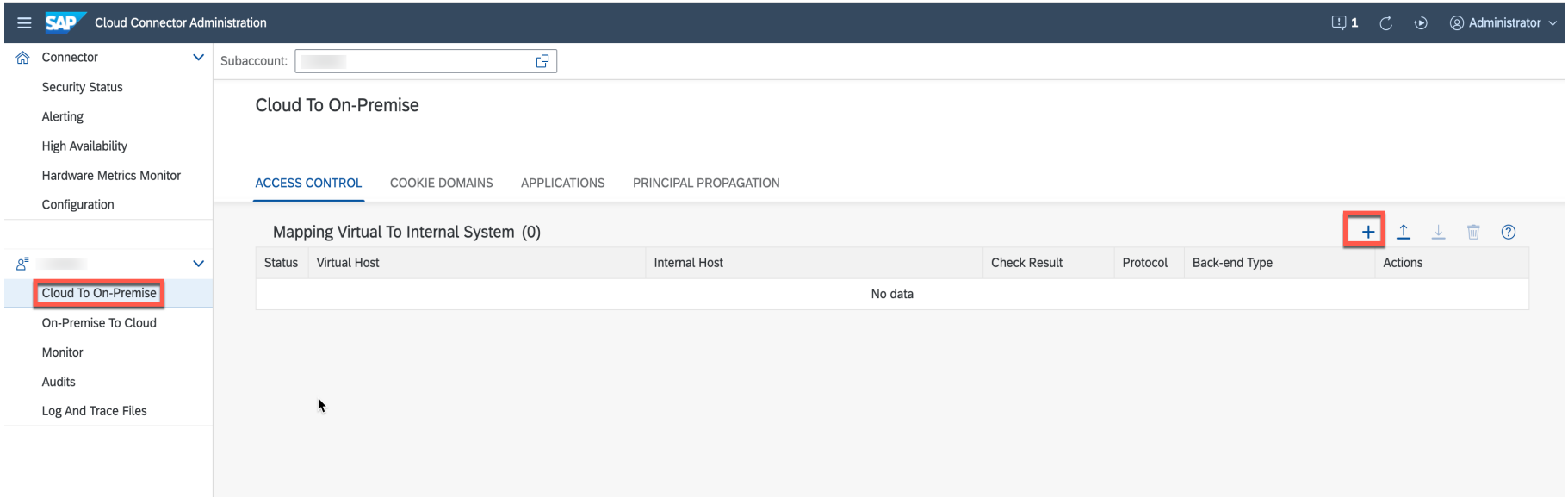
In the configuration page, If you want to use any proxy, you can mention that as well. Check with your BASIS/IT consultant if this is required. My proxy is proxy.ariba.com so I used it here. Please use your own proxy server.



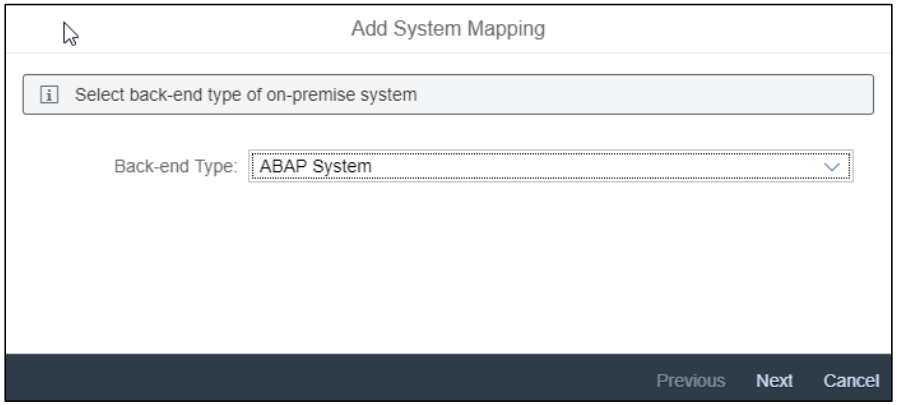
Click on the sub account you created recently and make sure the details you provided in the previous step are reflecting here. This shows a secure tunnel is established between Integration Suite Managed Gateway sub account and the cloud connector.



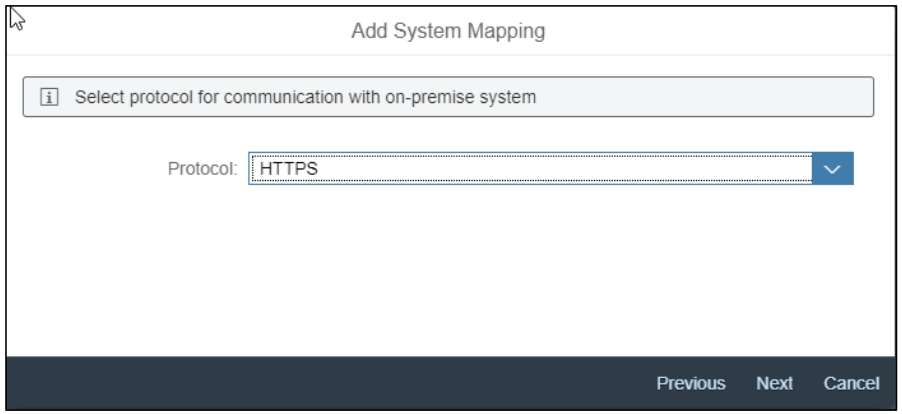
Click Cloud To On-Premise link to provide the virtual mapping to the internal system. When you configure for the first time you will not see any entries here. Click on the '+' sign to add virtual mapping.



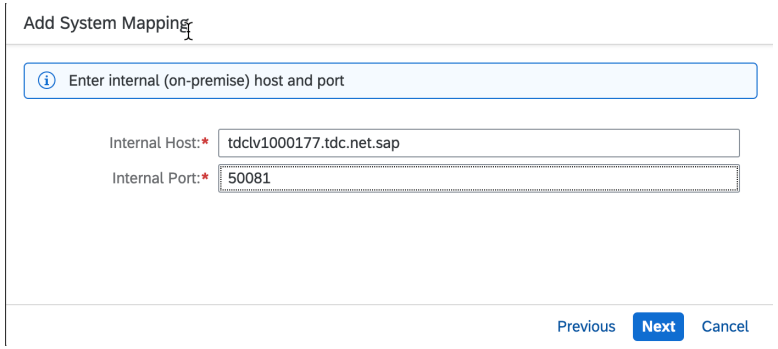
Select the Back-end Type as ABAP System if you are using SAP ECC or S/4 HANA system and click Next

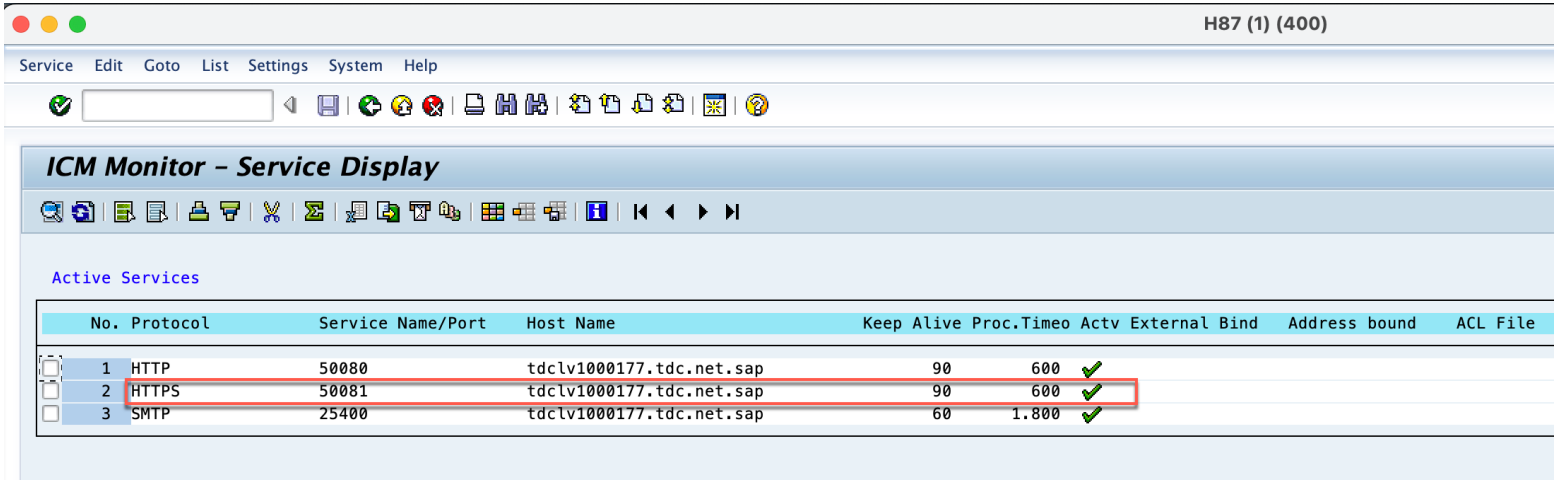


Select the Protocol as HTTP or HTTPS. We recommend to choose HTTPS



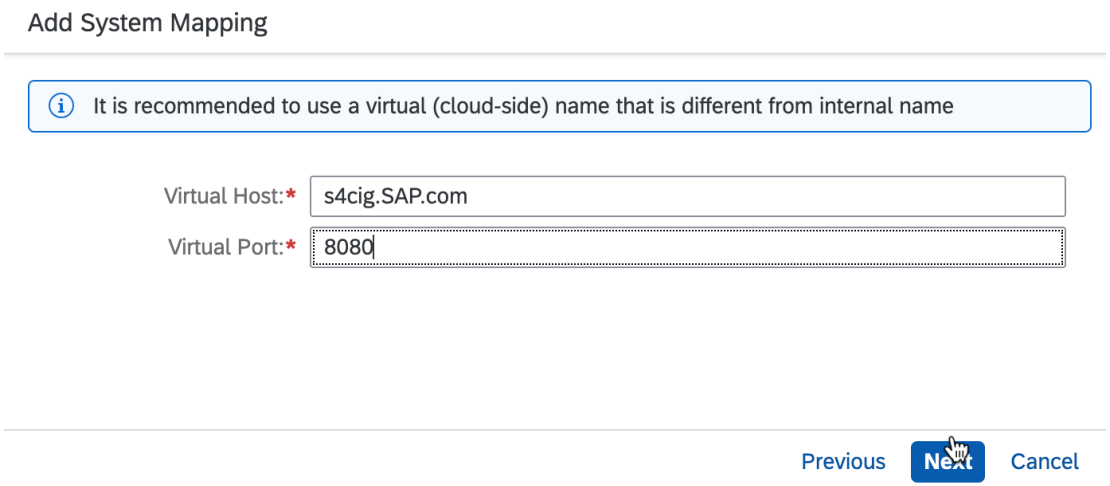
Provide the Internal Host and Port of your SAP Application server. You can get this details from tcode SMICM. SMICM->Goto->Services. Click Next



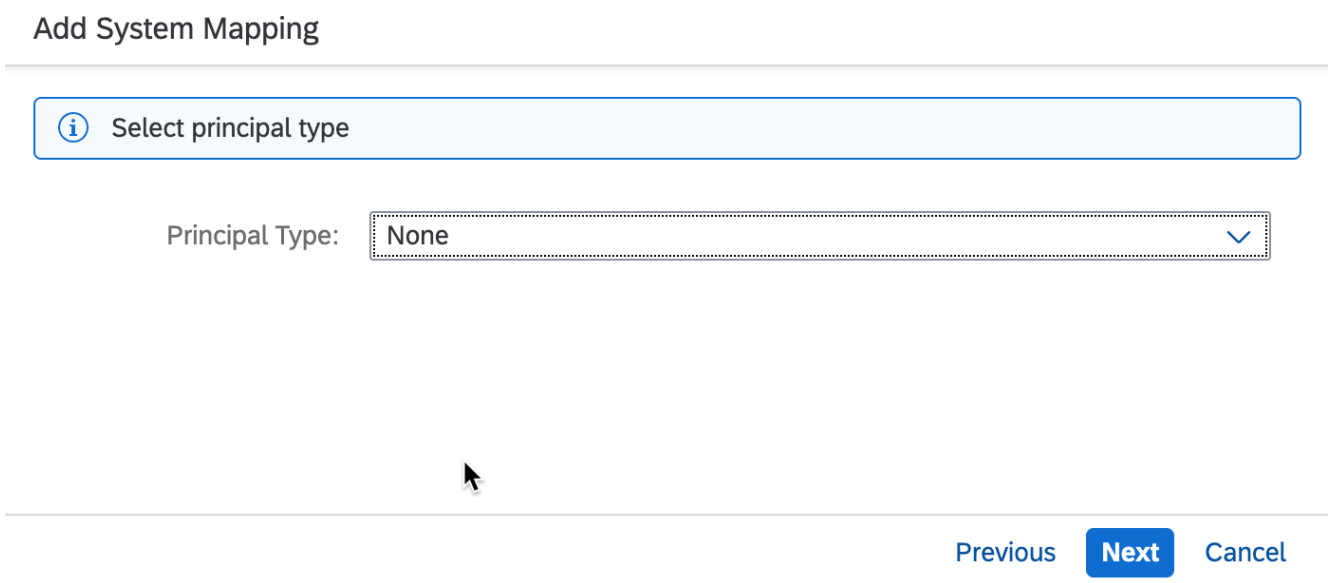


Provide the Virtual host and Virtual port details. You can provide any value for virtual host and port but make sure it is a fully qualified domain name and not the same value as the internal host / port. We will provide the virtual host value in the Integration Suite Managed Gateway Portal connection page.

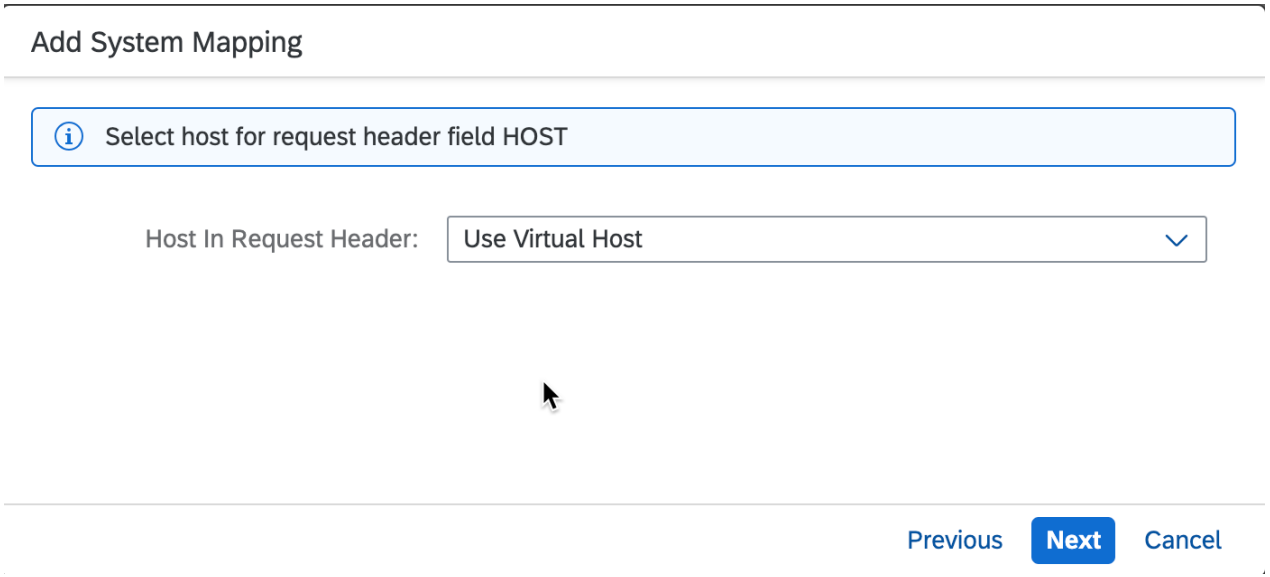
Note: Make sure your virtual host should not have any underscore character otherwise, you will see a 400 error when sending the message from Integration Suite Managed Gateway.



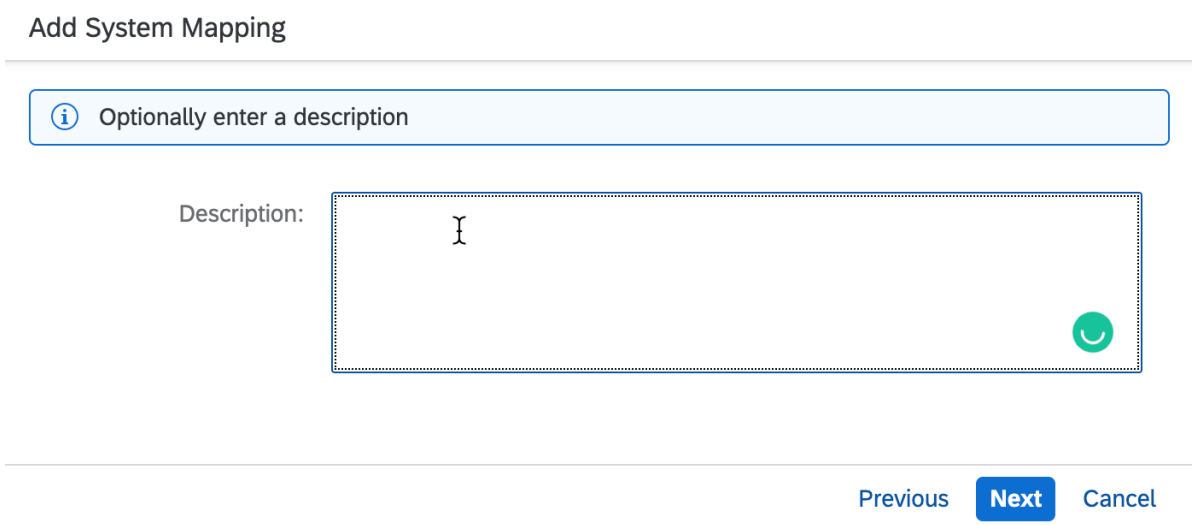
Choose the Principal Type as None

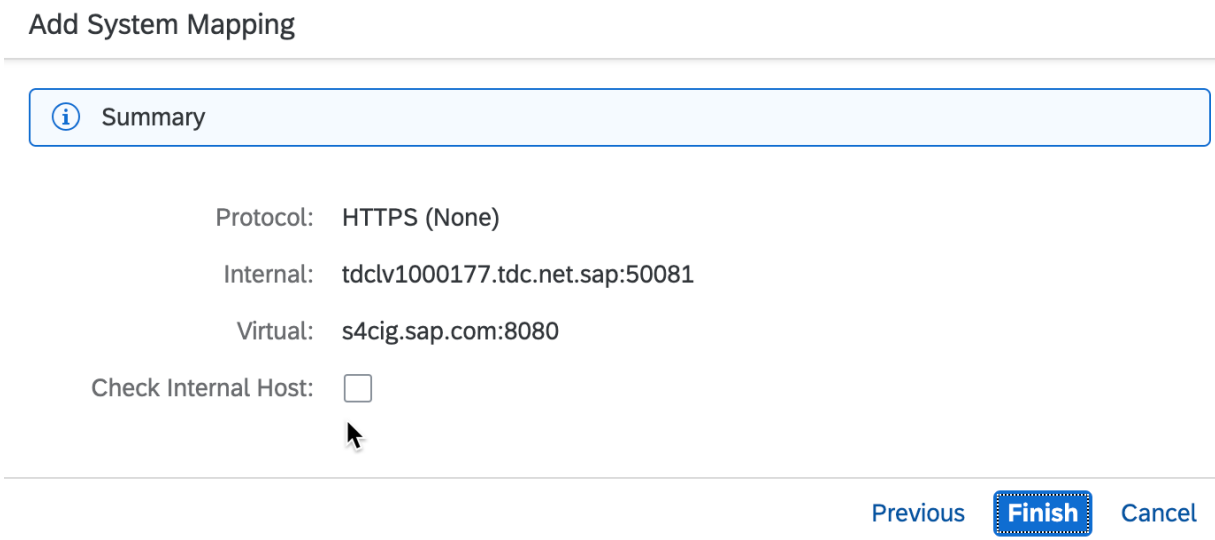


Choose the Host In Request Header as Use Virtual Host



This is optional. You can provide for your reference.




Add System Mapping
Summary
Protocol:
HTTPS (None)
Internal:
tdclv1000177.tdc.net.sap:50081
Virtual:
s4cig.sap.com:8080
Check Internal Host:
Previous
Finish
Cancel

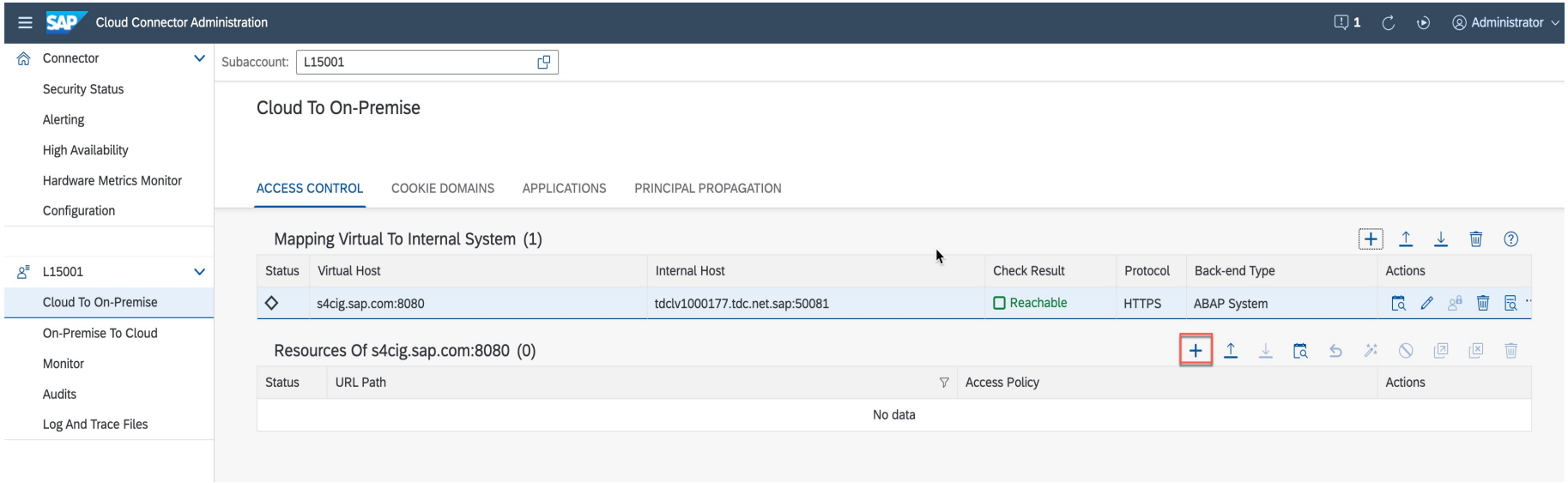
Add System Mapping

Summary

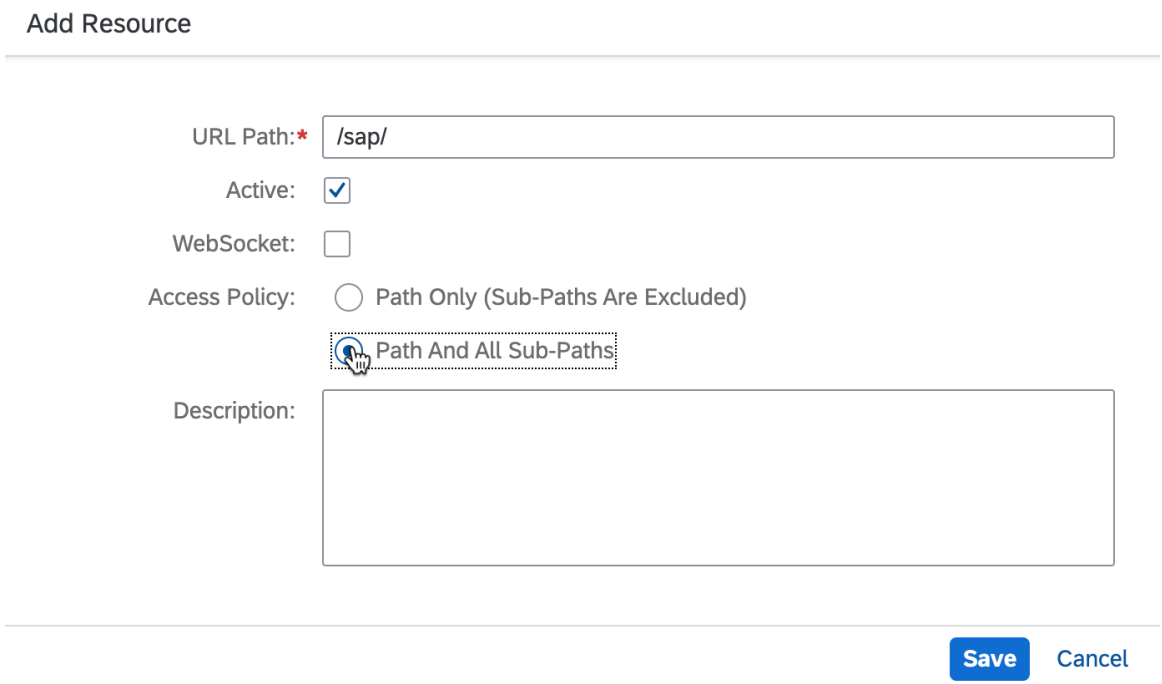
Protocol:	HTTPS (None)
Internal:	tdclv1000177.tdc.net.sap:50081
Virtual:	s4cig.sap.com:8080
Check Internal Host:	

Previous **Finish** Cancel

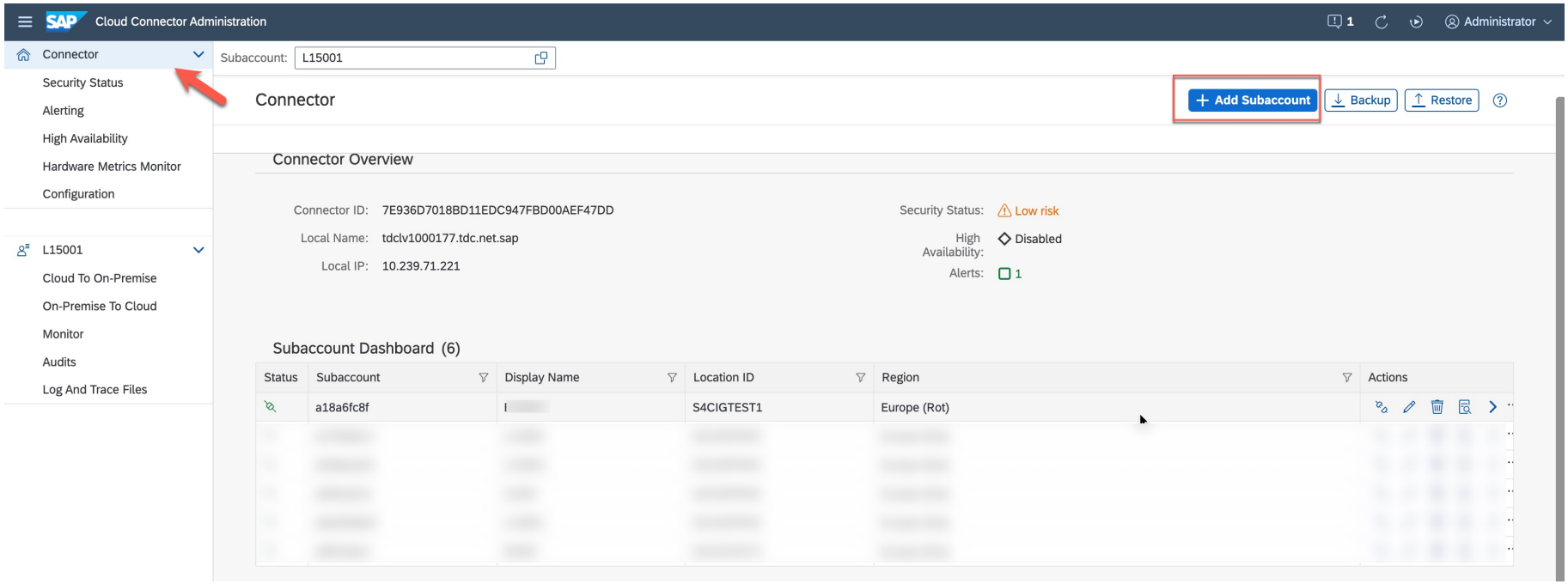
Add the resource accessible path for the virtual to internal system



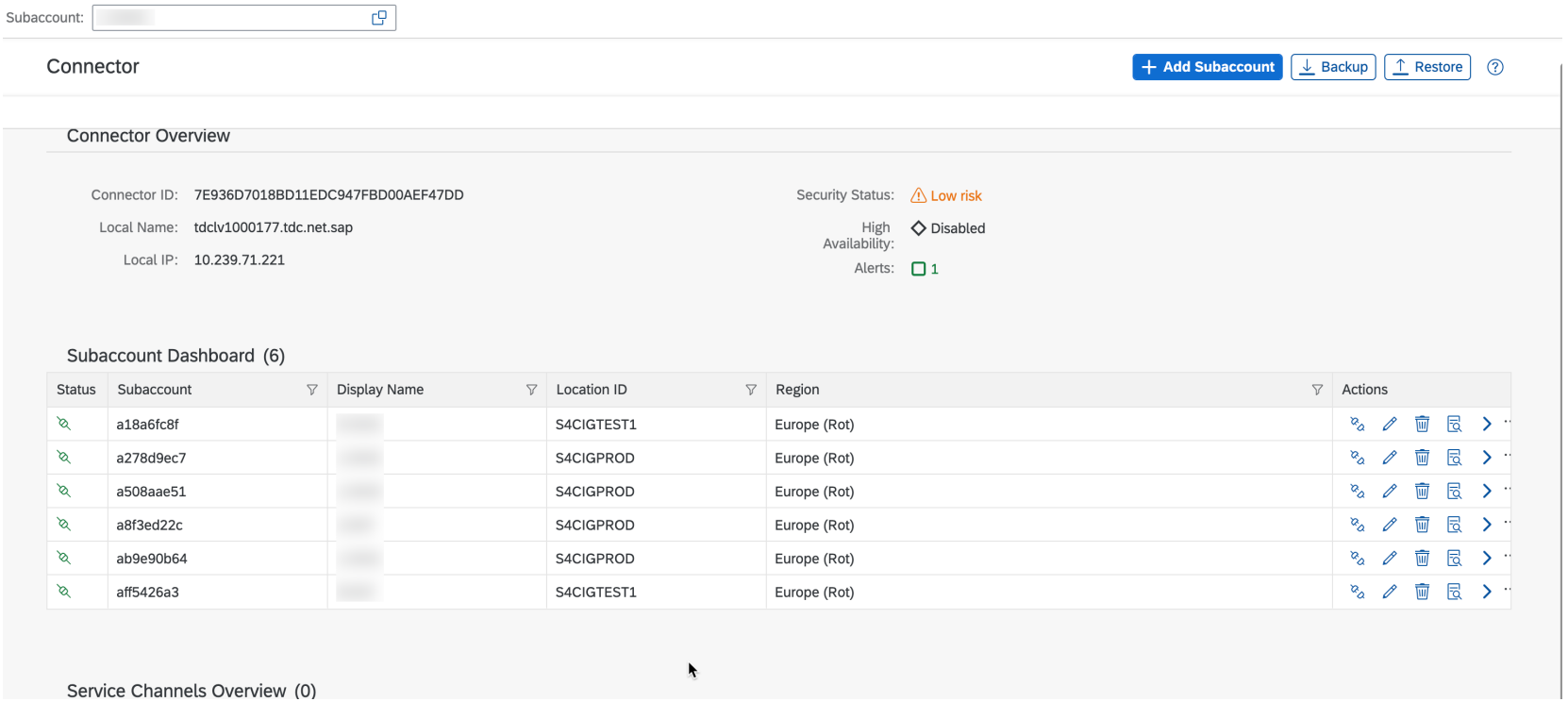
1. Add the URL path as /sap/
2. Check the Enabled box
3. Choose path and all sub-paths
4. Click Save



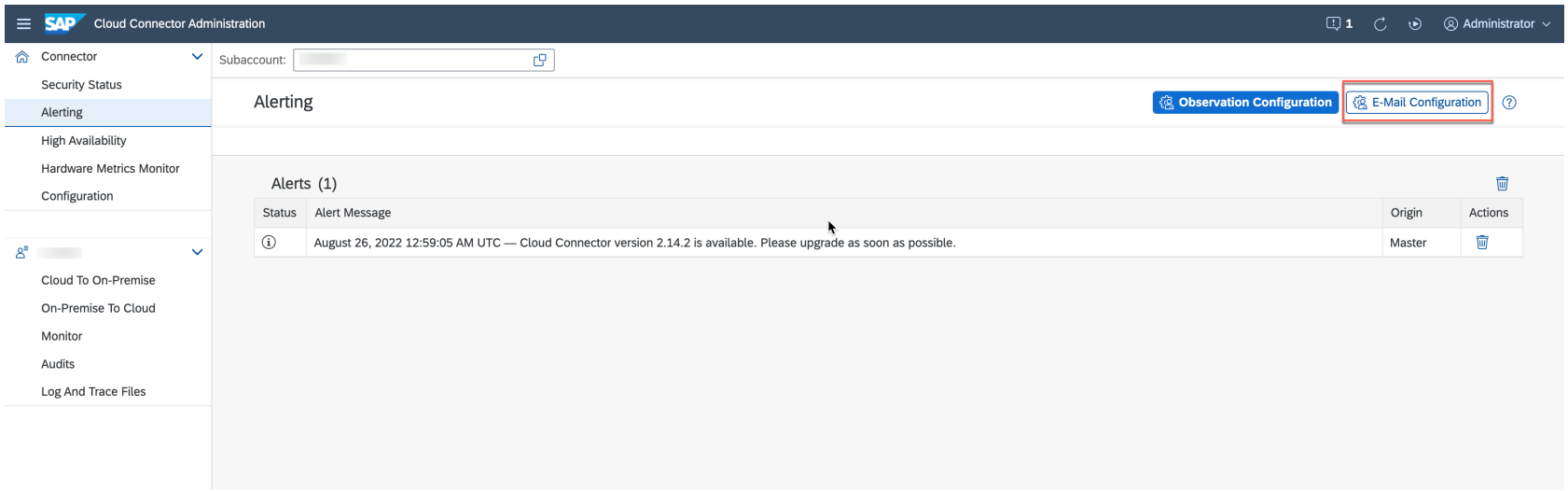
Now click on the Connector and start adding the remaining sub accounts.



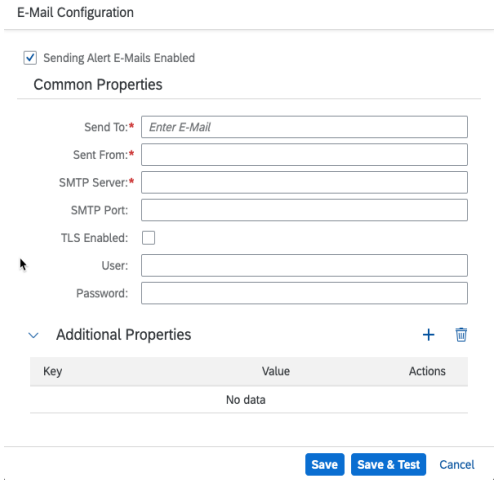
The Location ID and the Virtual Host, Virtual Port should be same for both test sub accounts like below. Once you add all sub-accounts you will see like below and all secure tunnels are established properly.



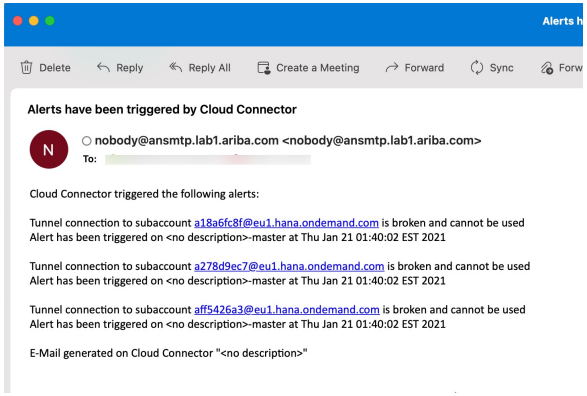
We have few optional configuration in SAP cloud connector. In case the secure tunnel between Integration Suite Managed Gateway sub account and the cloud connector is broken for some reason like Integration Suite Managed Gateway outage or network glitches, you will receive an email alert if the below configuration is performed. This alert will tell you in case if the tunnel is broken or recovered successfully and any new version is cloud connector is available.. Usually with SAP CC 12.3.0 or above, the secure tunnel will establish automatically. We always recommend to upgrade to the latest version.

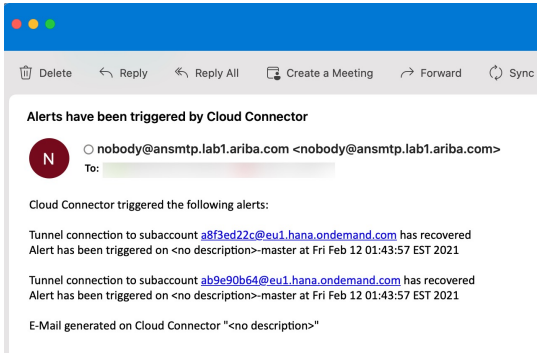


Please update the details and click Save.



Sample emails





Whitelist IPs for Integration Suite Managed Gateway -> ERP

To receive the transactions from Integration Suite Managed Gateway successfully your cloud connector will need to establish a secure tunnel with the Integration Suite Managed Gateway subaccounts. Based on the region host you are connecting to you need to whitelist the below IP ranges in your firewall. Sometime, BTP updates the IP ranges, so please refer the appropriate DC for latest IPs here

Data center	Region Host	IPs (Integration Suite Managed Gateway -> Cloud connector / PI -> ERP)
Europe (Rot)	eu1.hana.ondemand.com	130.214.160.64/28 and 130.214.160.80/29
US West (Colorado Springs)	us4.hana.ondemand.com	130.214.184.64/29 and 130.214.184.72/29
China (Shangai)	cn1.platform.sapcloud.cn	121.91.106.64/28 and 121.91.106.72/29
KSA (Riyadh)	sa1.hana.ondemand.com	130.214.223.32/29 and 130.214.223.40/29
UAE (Dubai)	ae1.hana.ondemand.com	130.214.251.32/29 and 130.214.251.40/29

Whitelist IPs for ERP -> Integration Suite Managed Gateway

To send the transactions from ERP/PI to Integration Suite Managed Gateway you need to whitelist the below IP address in your firewall. Based on the Integration Suite Managed Gateway data center you are connecting to this will change.

Data center	Integration Suite Managed Gateway Transaction URL	IPs to whitelist
Europe (Rot)	https://testacig.ariba.com/ https://acig.ariba.com/	3.124.222.77, 3.122.209.241, 3.124.208.223
US West (Colorado Springs)	https://testacig-us.ariba.com/ https://acig-us.ariba.com/	52.4.101.240, 52.23.1.211, 52.23.189.23
China (Shangai)	https://test.cig.cn40.apps.platform.sapcloud.cn/ https://prod.cig.cn40.apps.platform.sapcloud.cn/	139.224.7.71
KSA (Riyadh)	https://aribacloudintegration-test-ksa.ariba.com/ https://aribacloudintegration-ksa.ariba.com/	130.214.209.128/25
UAE (Dubai)	https://aribacloudintegration-uae.ariba.com/ https://aribacloudintegration-test-uae.ariba.com/	130.214.80.128/25

Troubleshooting

- Common errors when using integrating using cloud connector
  - `Could not Send Message`
  - `503 Service Unavailable`
  - `Service Unavailable`
  - `org.apache.cxf.transport.http.HTTPException: HTTP response '503: Service Unavailable. There is no SAP Cloud Connector (SCC) connected to your subaccount. Requested opening of a tunnel for subaccount &quot;aff5426a3&quot; and SCC location ID &quot;XXXXXX &quot;. Check the configuration on SCC and cloud side.' when communicating with https://ADDRESS_IS_SET_VIA.HEADER`
  - `502 Bad Gateway`
- Integration Suite Managed Gateway Connection Flow - https://ga.support.sap.com/dtp/viewer/index.html#/tree/2757/actions/39812
- Invalid server certificate error after cloud connector upgrade to 2.13.2 - https://launchpad.support.sap.com/#/notes/0003088349
- If you see Certificate expired message in screen from slide 8, click on the renew subaccount certificate button in the same screen.

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Thank you.

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