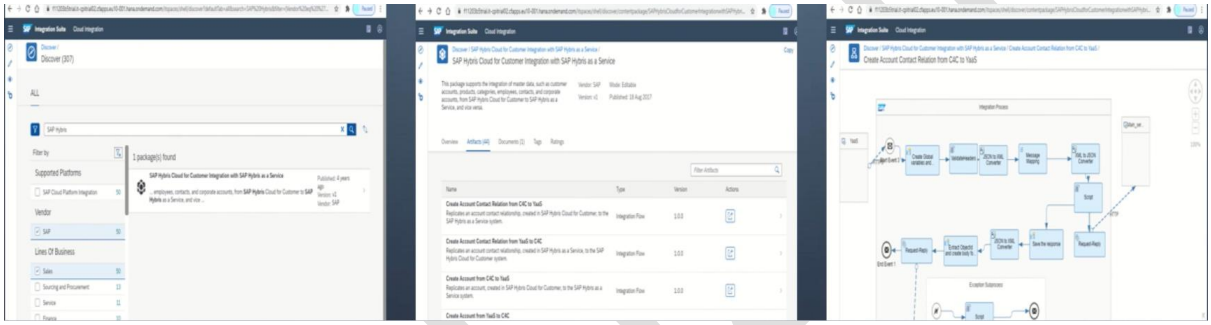
SAP CPI Web IDE Tool

CPI Web IDE Tool provides the toolset to quickly create, configure, and deploy your integration scenarios.

The four main pillars of Web IDE Tool are.

1. Discover
2. Design
3. Run
4. Monitor



Discover:

- Here we can see all the SAP-provided standard pre-packaged contents.
- We can easily adapt it to our own custom needs and use it.
- Once a package has been copied, it can easily be edited and can be modeled for us to use it as per our business scenario and this will be available in the Design tab.

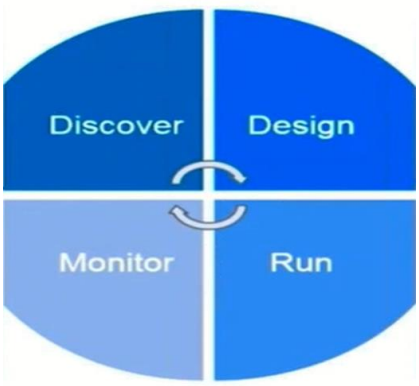
Design:

- In the design tab, you have the list of all your packages (including custom ones).
- You can edit the packages, add/modify/delete artifacts, add new flows, etc.

Operations:

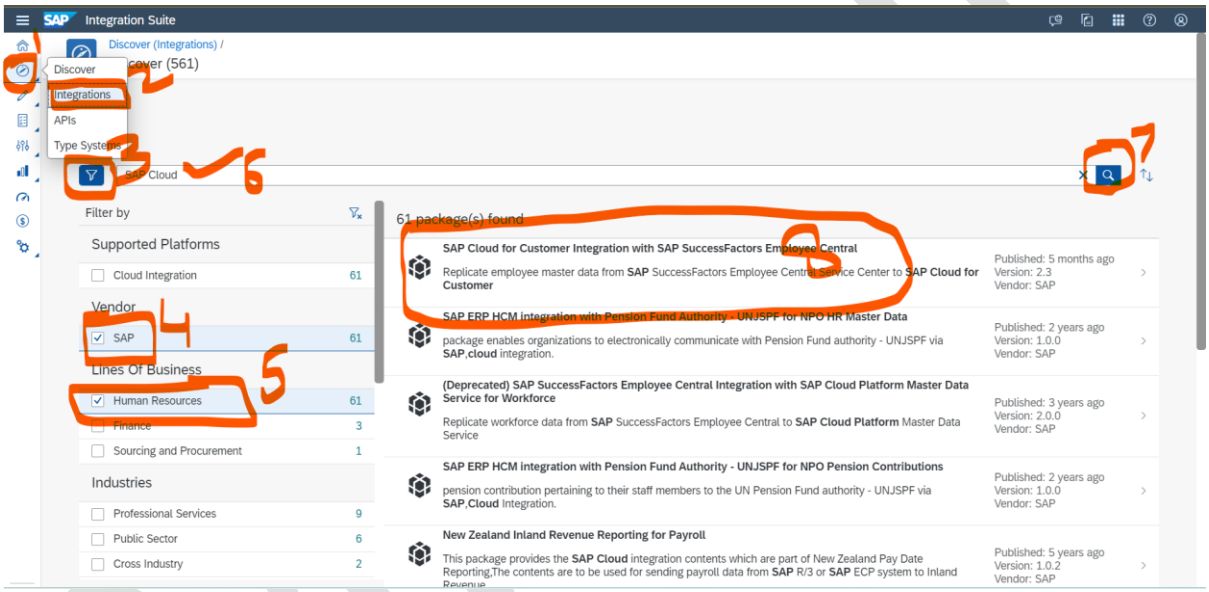
- In the operations tab, you Monitor the Message Processing and manage Integration Content, Security, Stores, and Locks.
- End-to-end operations related to Web IDE for integration:

Overall, we'll be able to manage all 4 pillars. Discover, Design, Run, and Monitor for our integration scenario using the Web IDE tool provided by SAP.

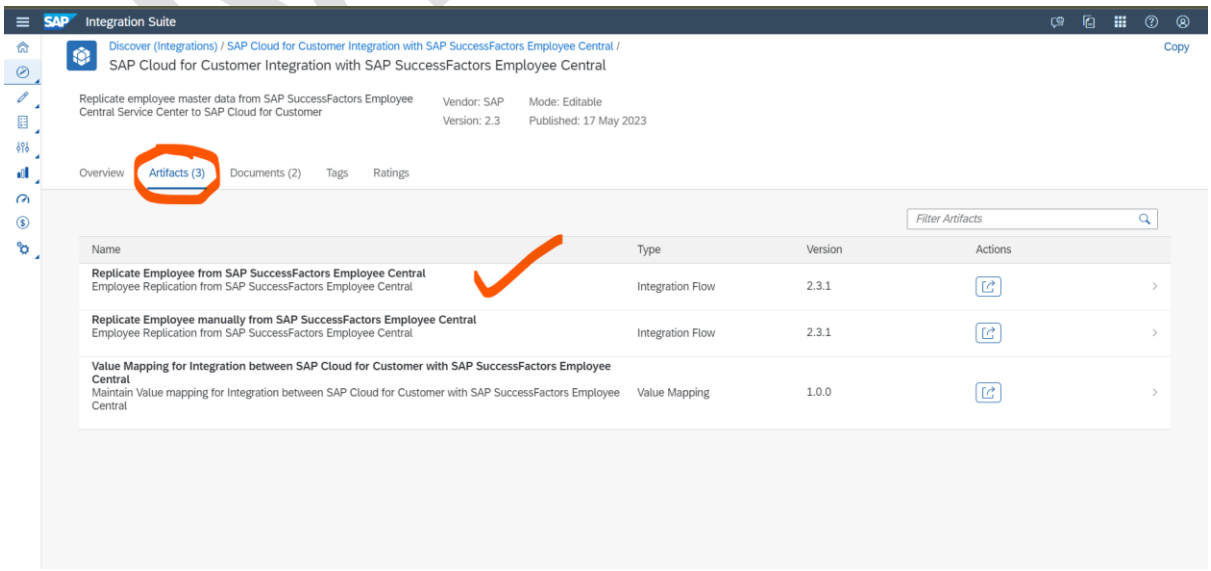


First, we will see how to copy and standard I flow to make it custom and editable.

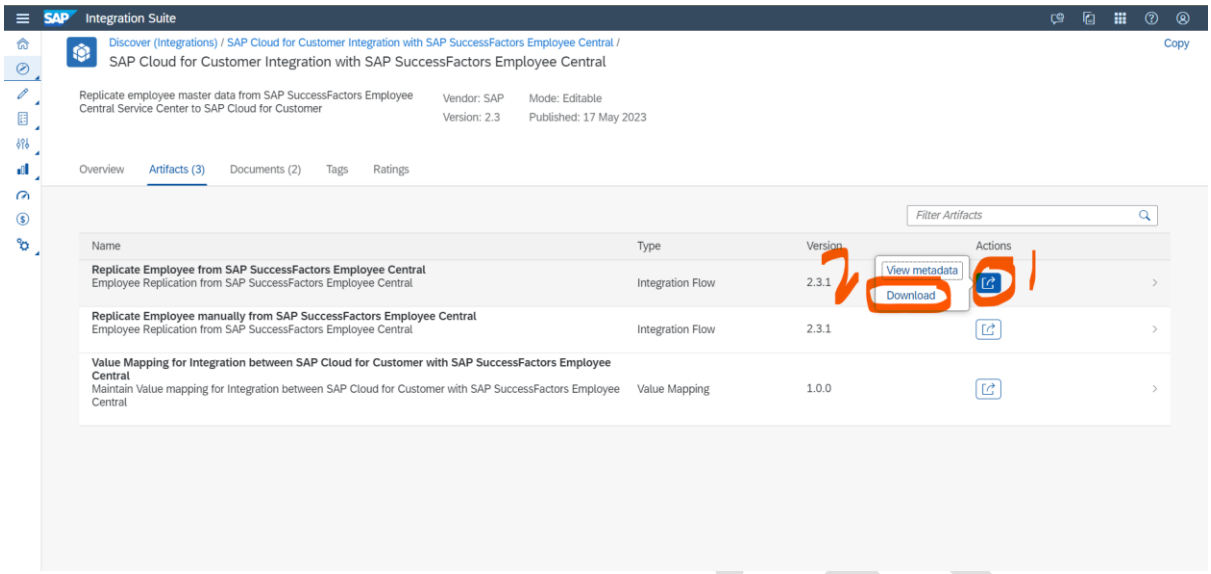
Here are the points mentioned in the image one by one reach out these steps.



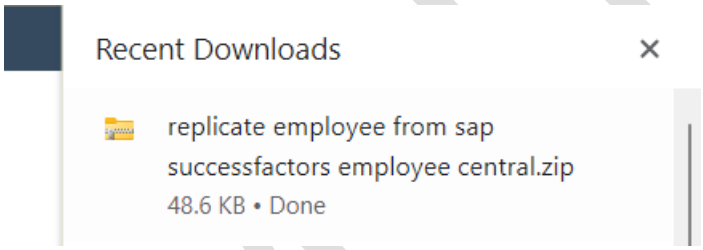
After finding the Right Package you have to open it and select the mentioned I flow.



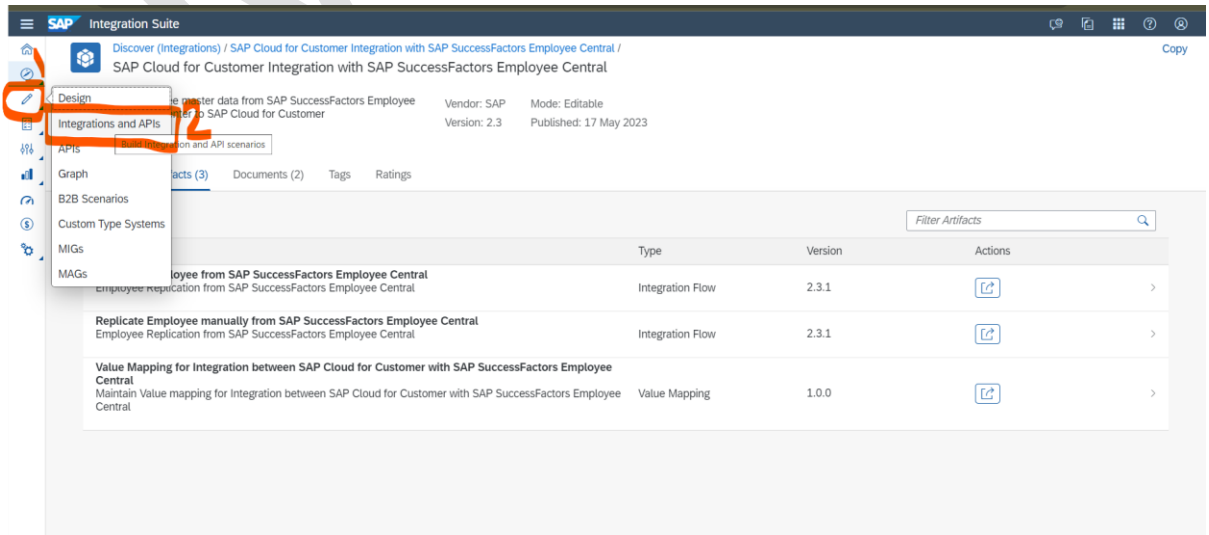
Now, you have to download the I flow by performing these 2 steps.



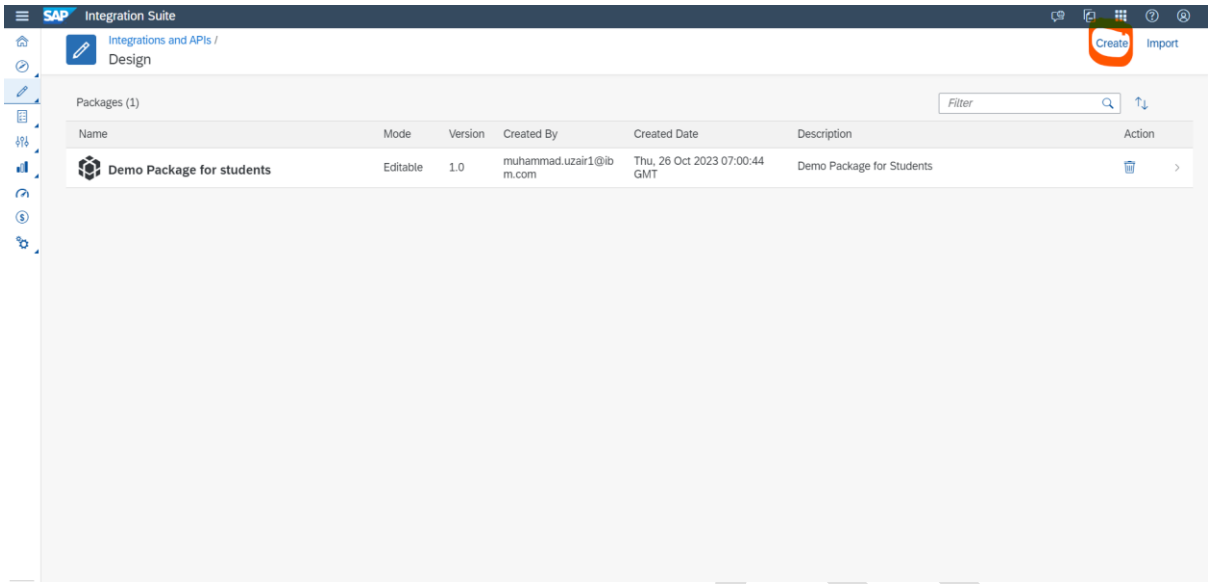
The Zip file should be saved in your system.



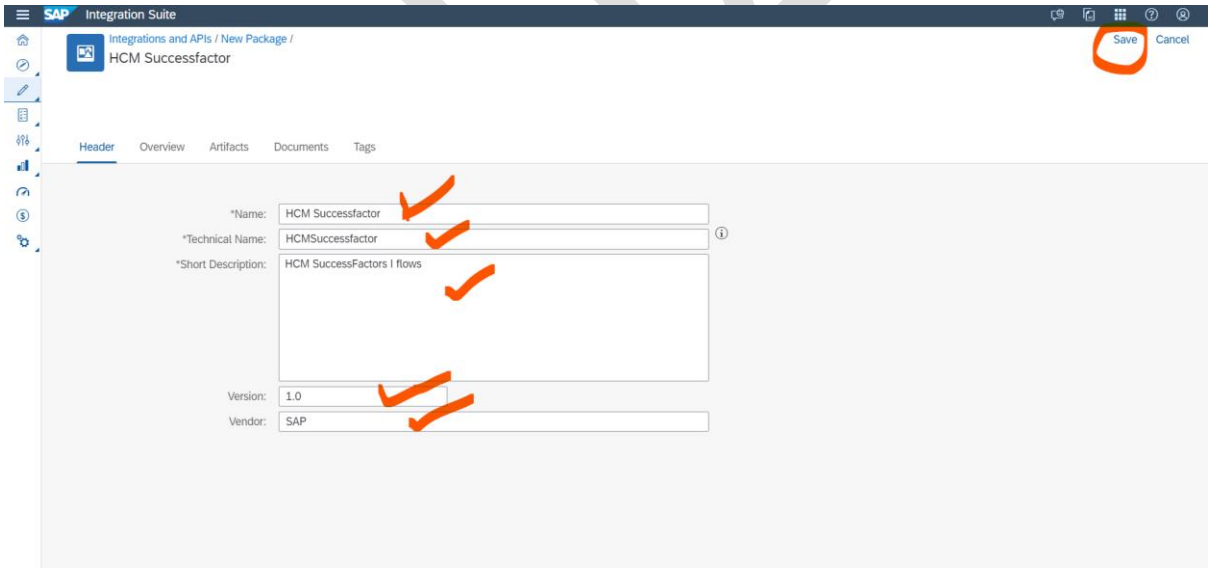
Now, go to your integrations tabs to create an I flow.



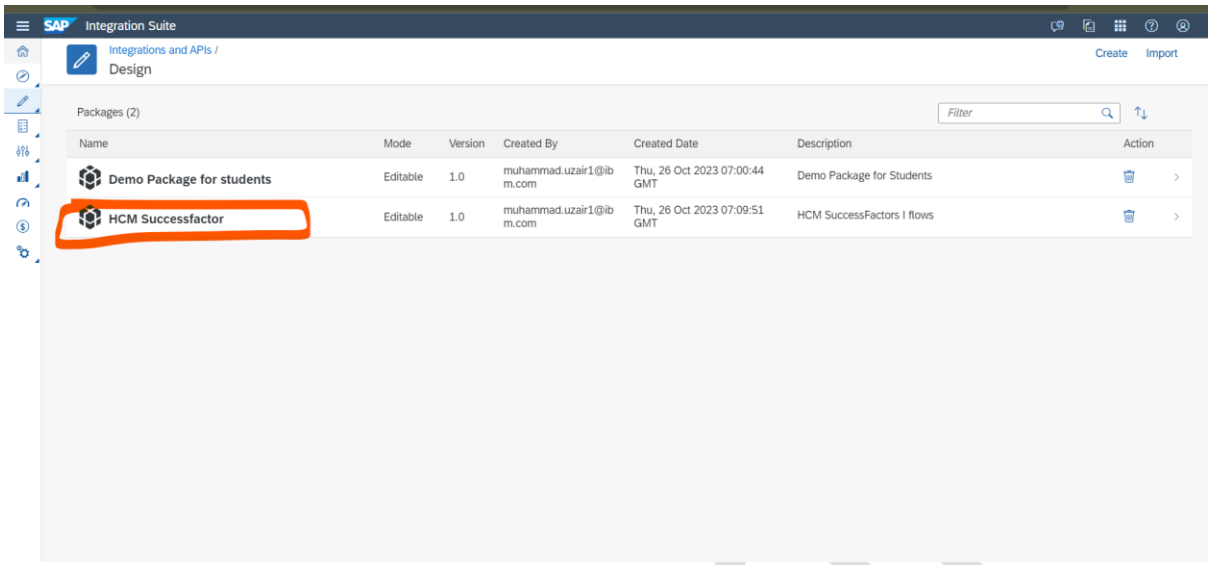
Click on the create button to first create a new package.
We actually create I flow in a specific package.



Give the information mentioned below.



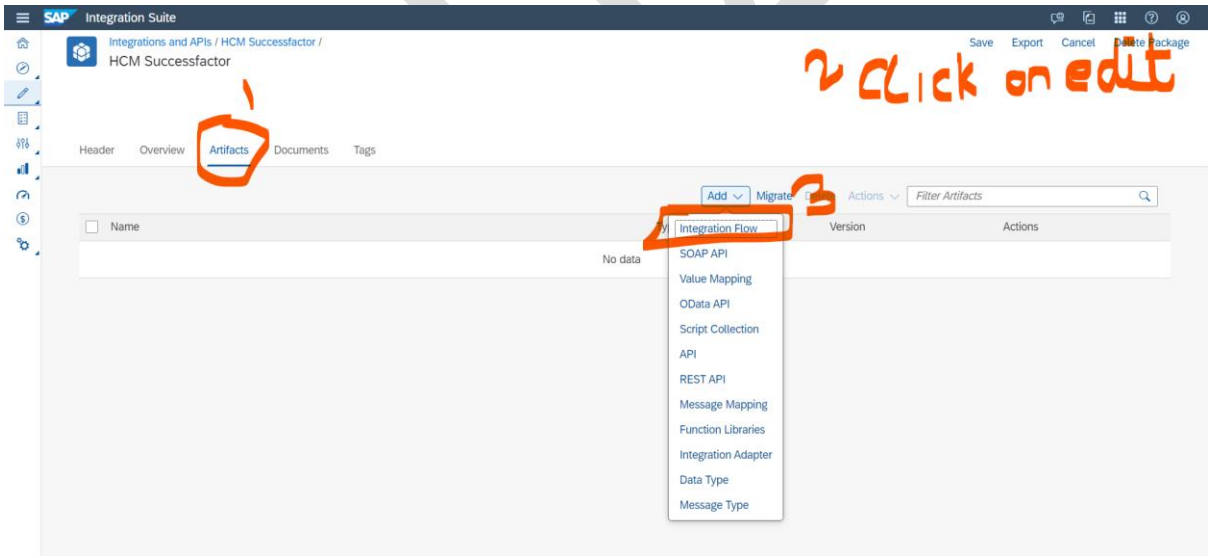
You can see a new package is created.



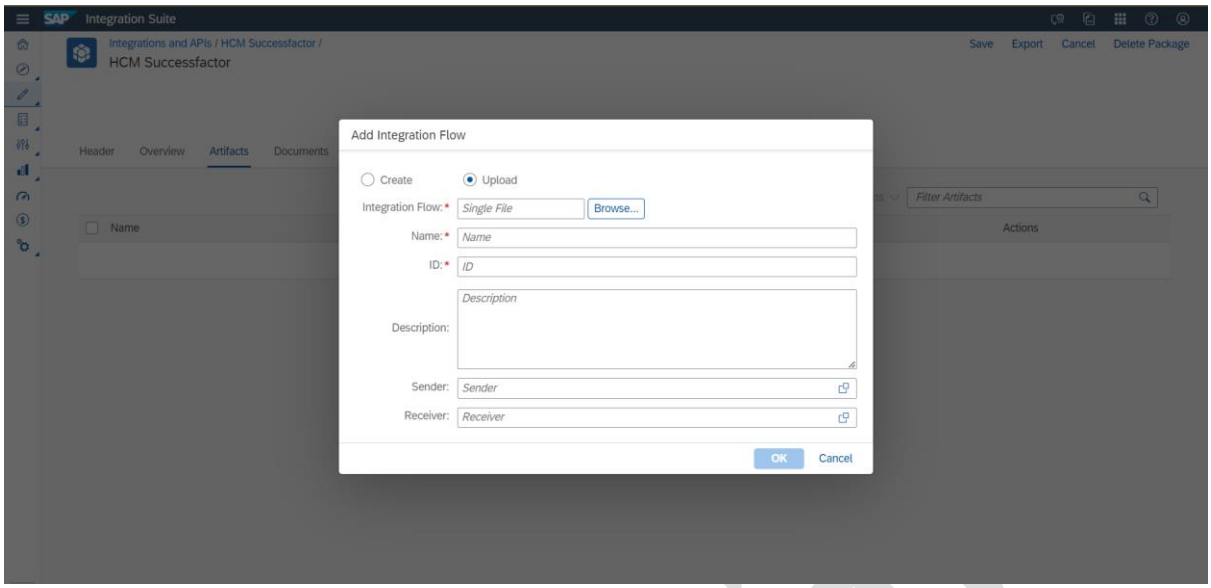
Now, to create I flow open your created package and click on edit button.

Note: Click on the Edit button.

Now, follow the steps mentioned in the below image.

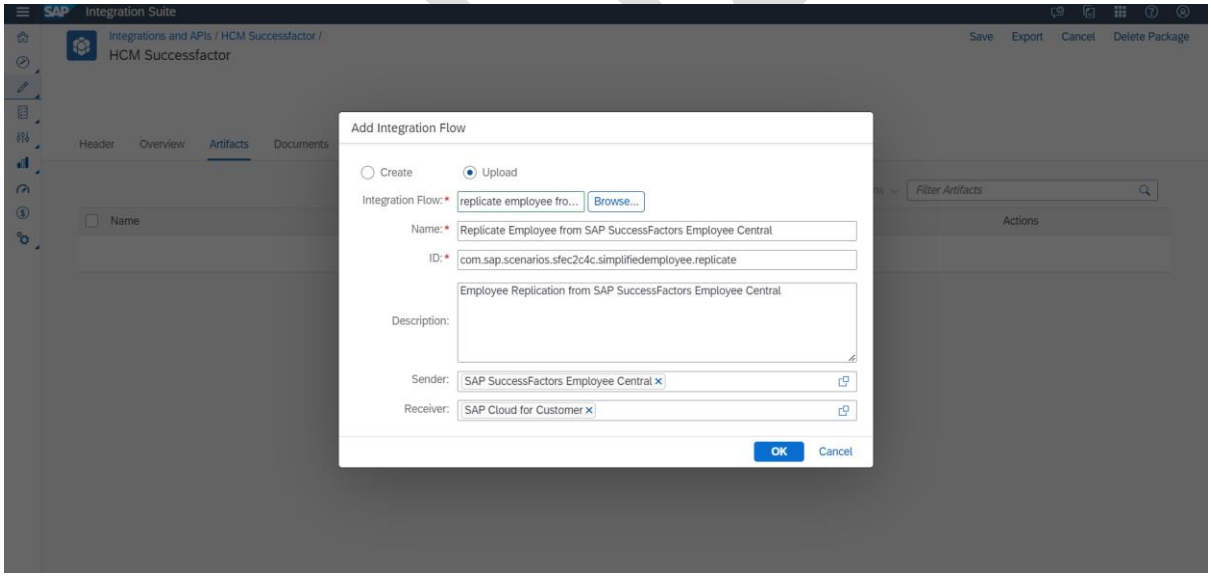


This window will appear.

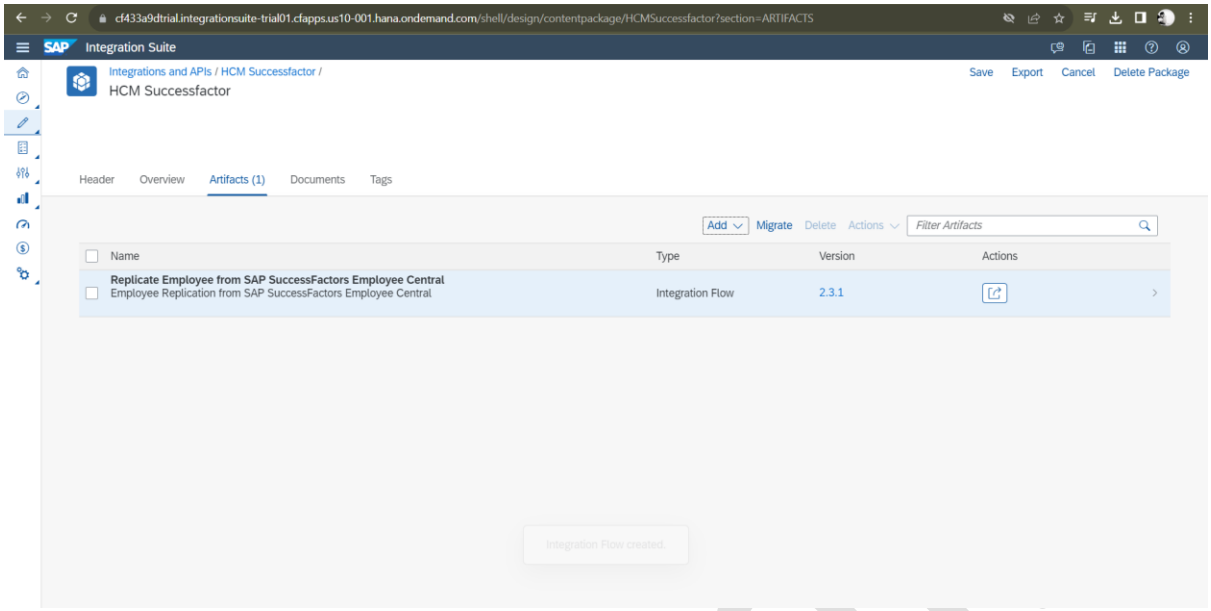


By clicking on the Browse Button, Import the package here.

Give the all other information as given in below image.

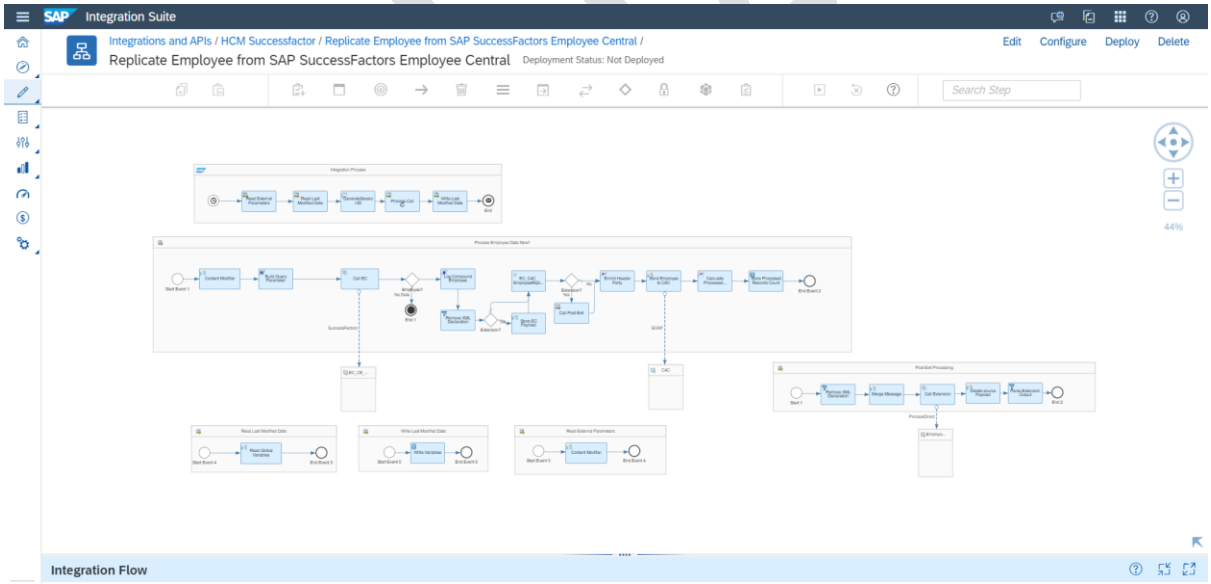


So, you can see I flow is created. Just save it.



Now, Click on I flow, and you can see it looks like this.

We can edit by clicking on the edit button.

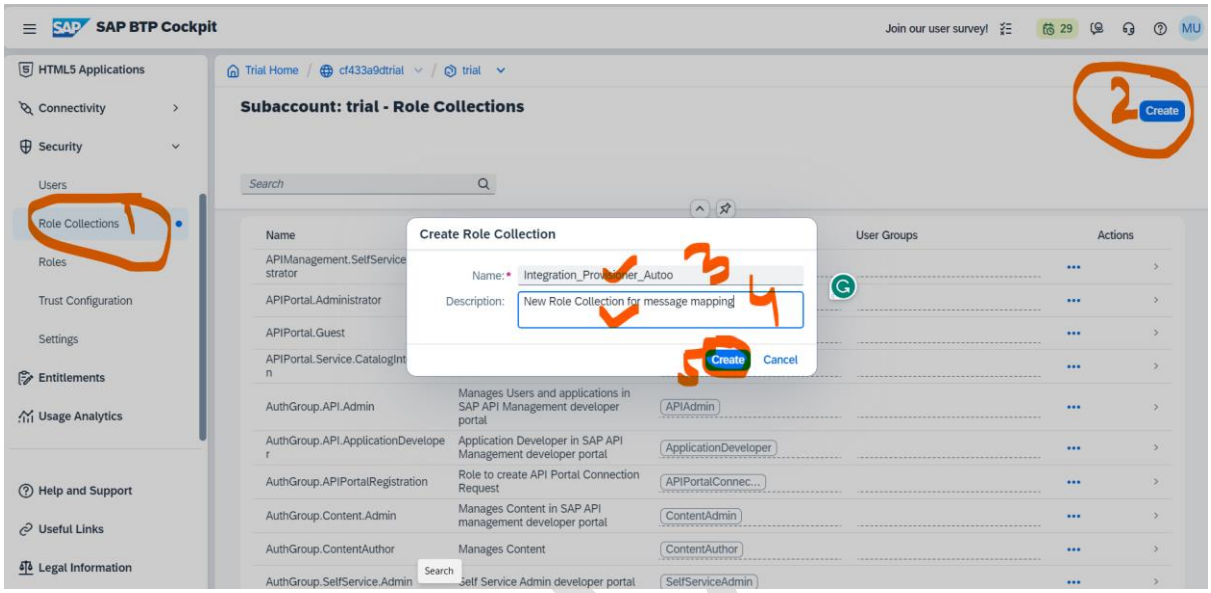


Now, we create our own new I Flow.

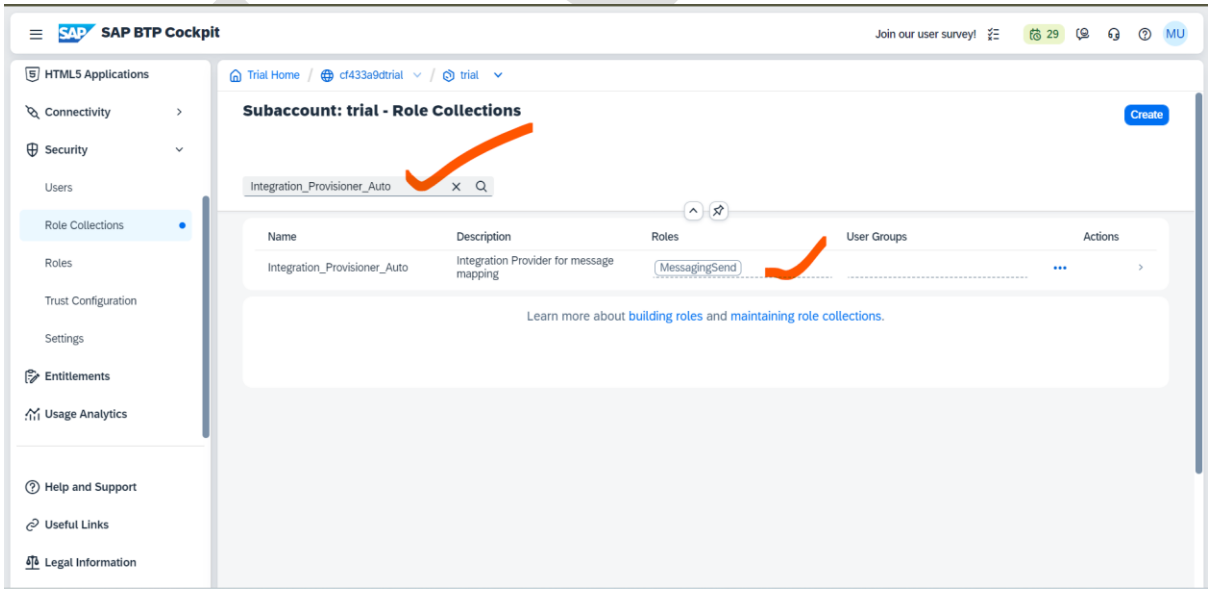
For this first, we need to assign a new role "MessagingSend" to Our user.

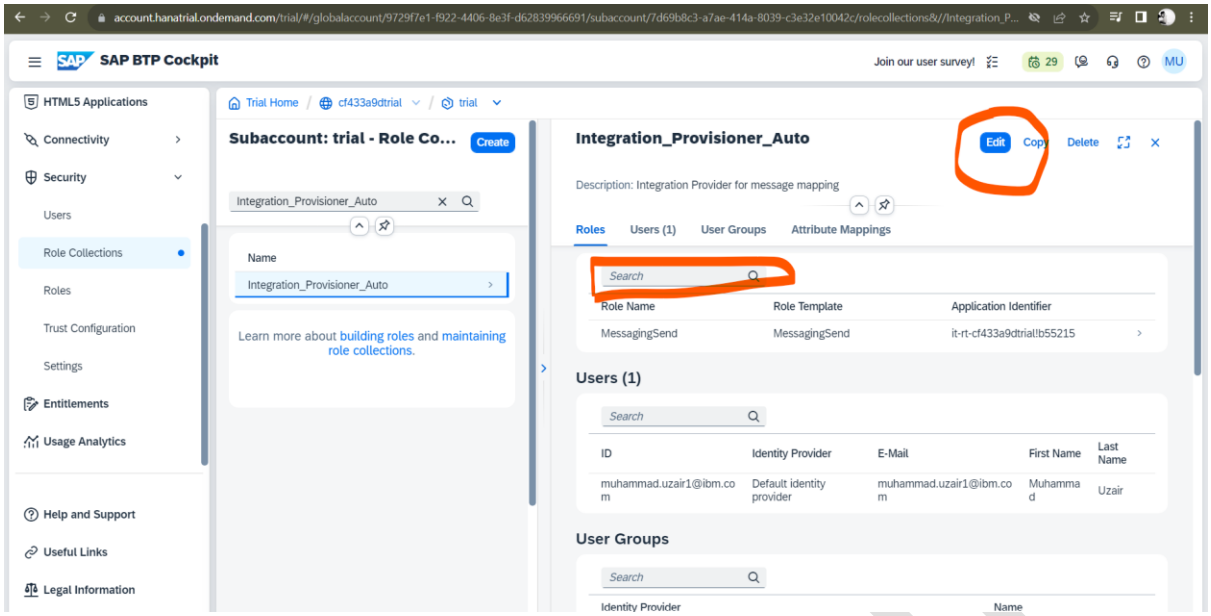
For this purpose, we will first create a new role collection.

Follow these mentioned steps to create a role collection.



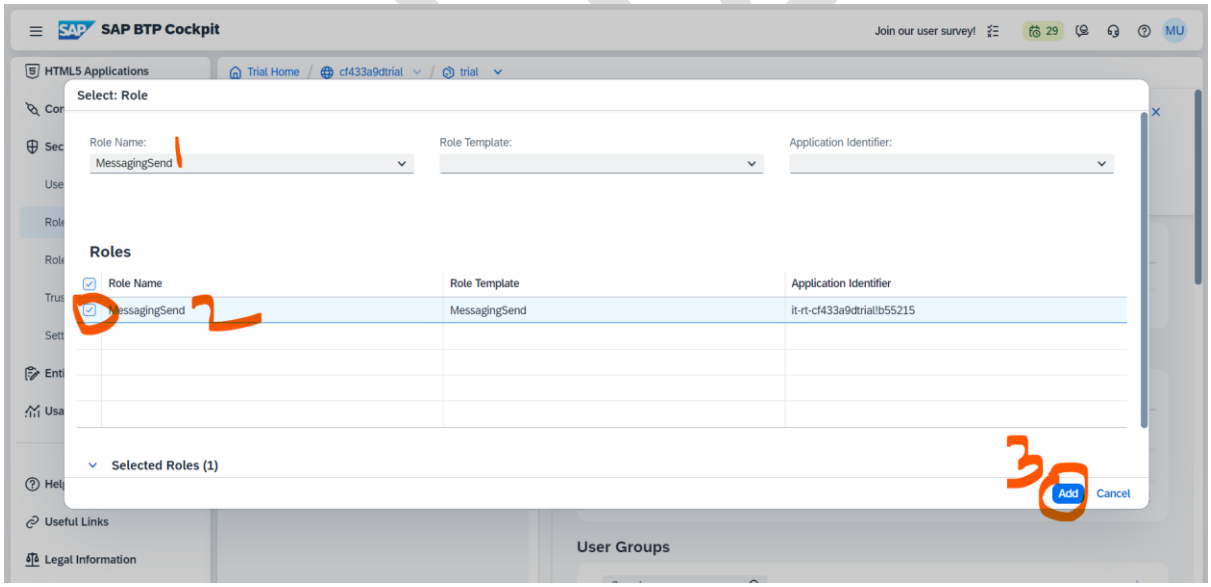
After creation, search created role collection and click on it to assign a role.



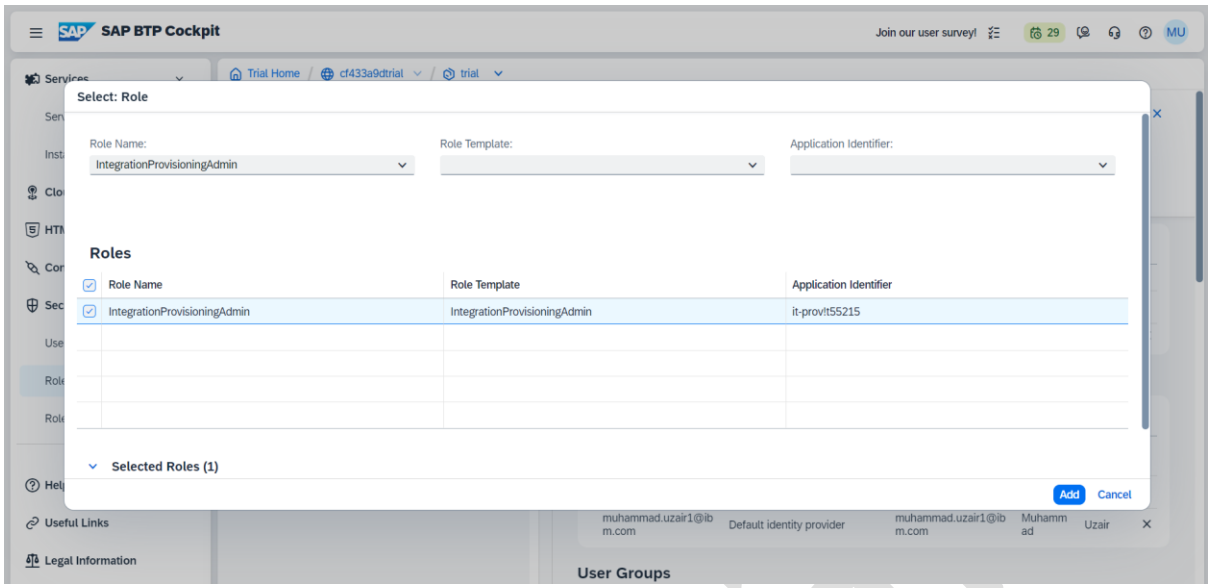


Add these 2 roles and save.

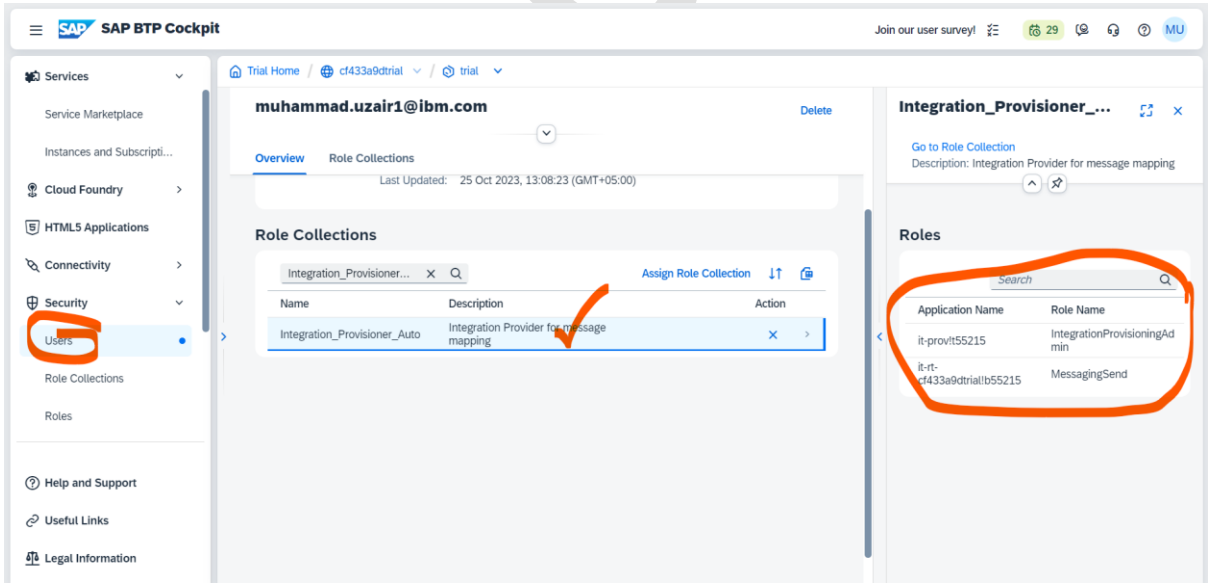
First role is mentioned in below image. Second role in next one.



Second Role is mentioned in below image.

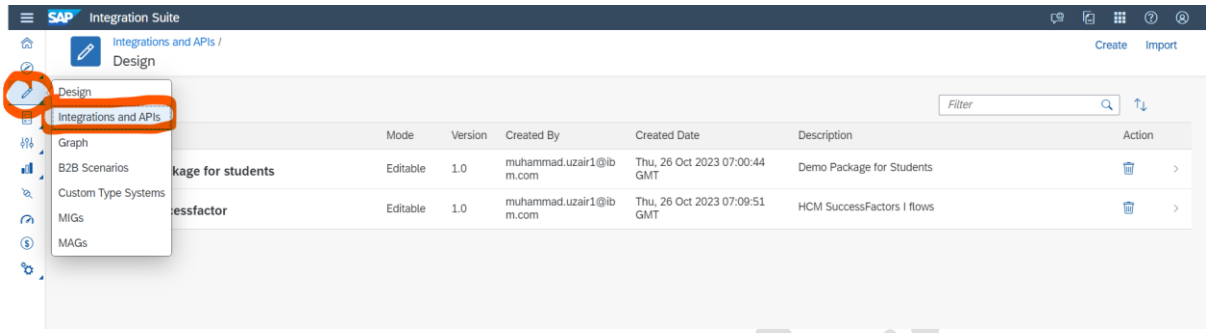


After that go to the User tab click on your user and assign that role collection to that user as before we assigned.

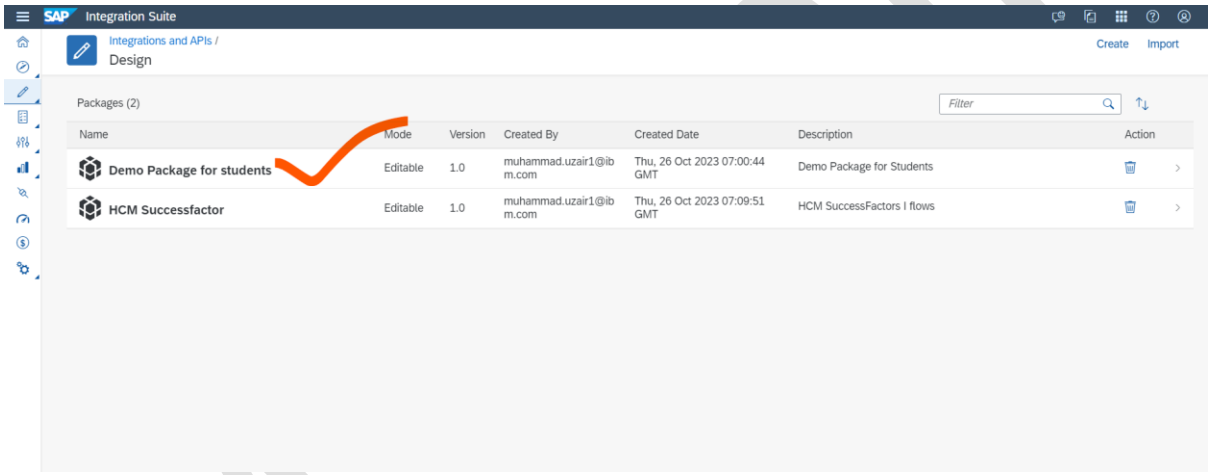


Now go to subscriptions, click on Integration Suit, and click Go To Application.

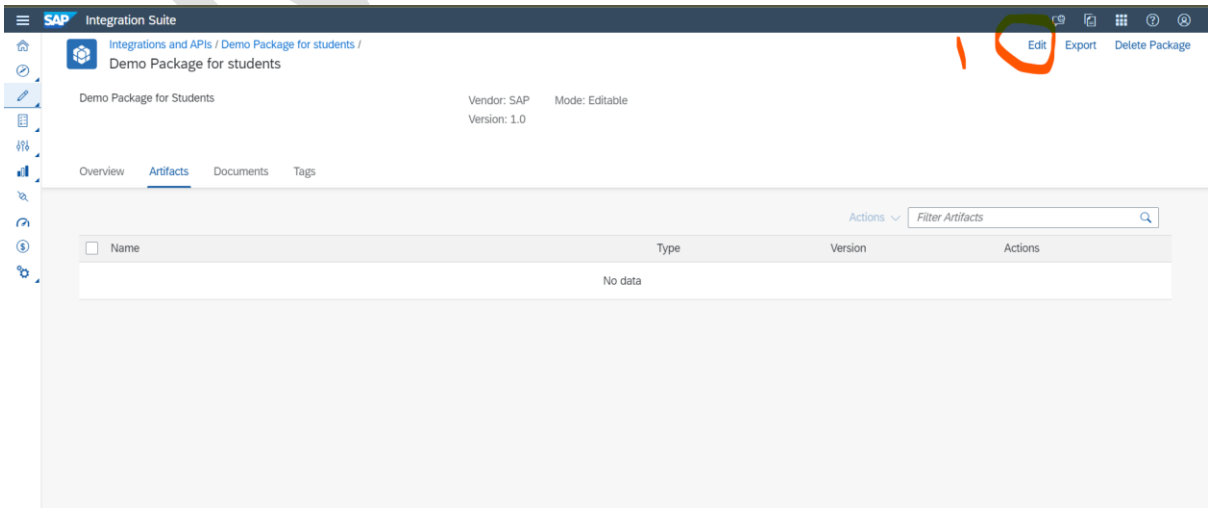
On Integration Application follow these steps.



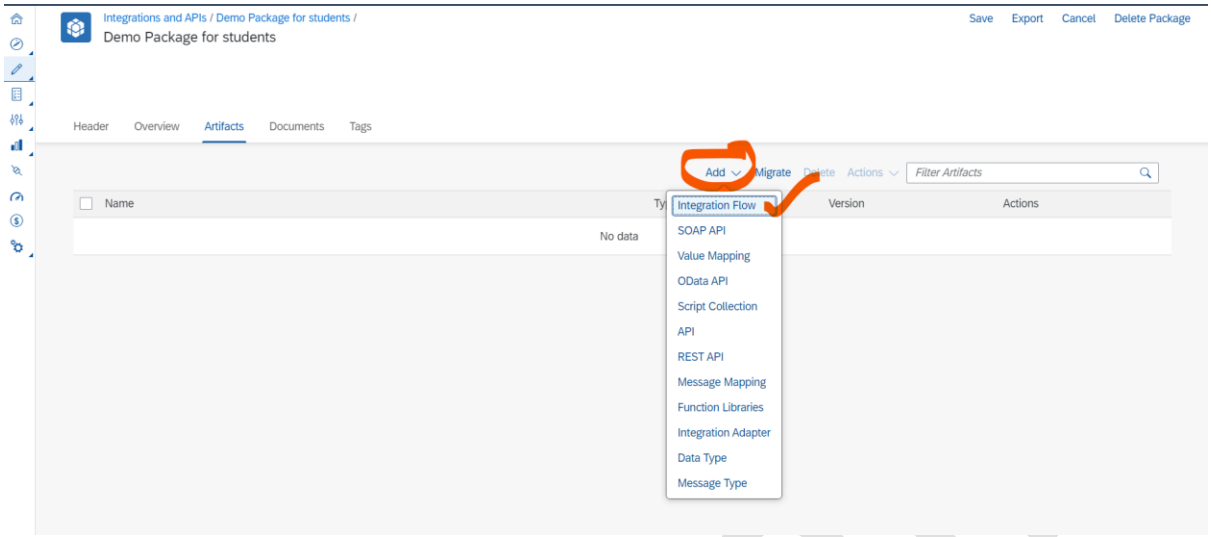
Open The Package.



Click on Edit Button.

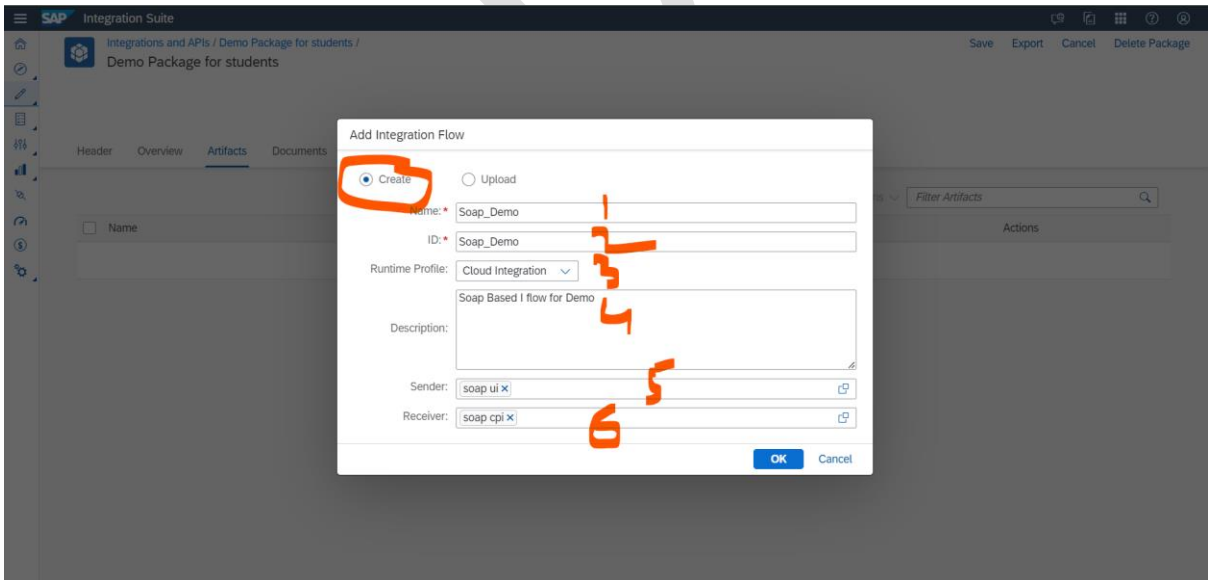


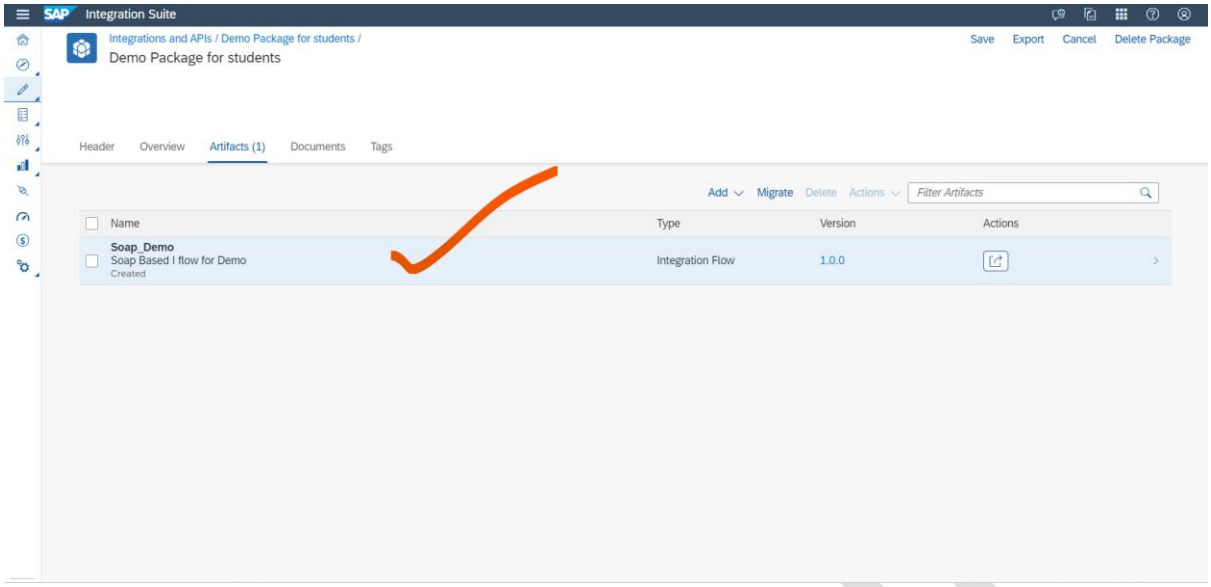
Click on circled area and click on Integration Flow.



Select the Create button and fill the information.

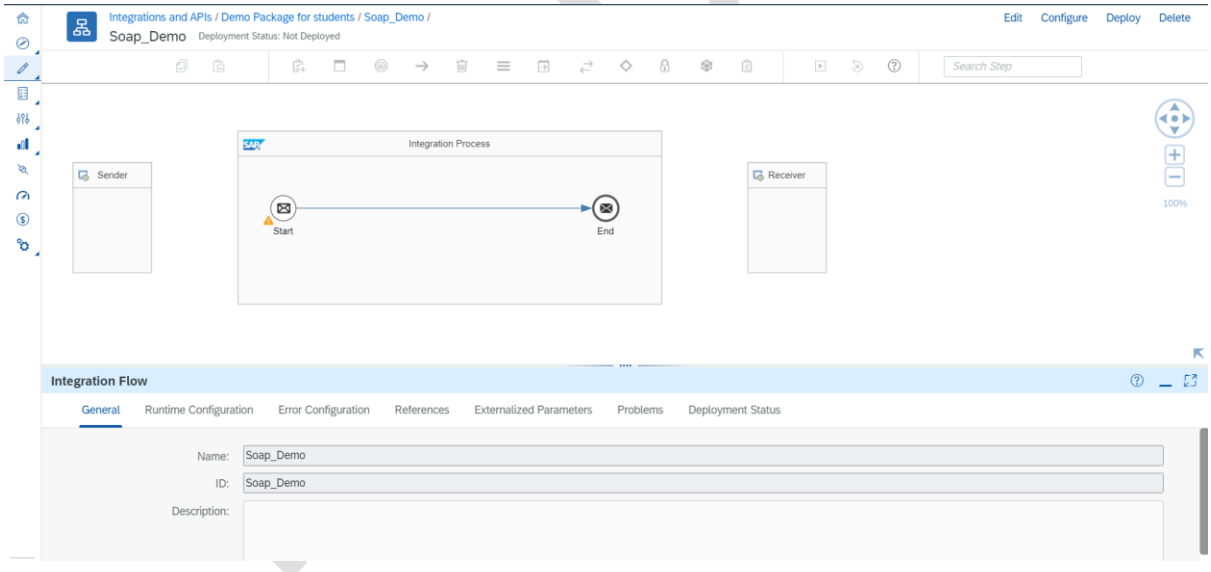
As I am taking a SOAP-based Example. So, I just write Soap UI in the sender and Soap Cpi in the receiver.





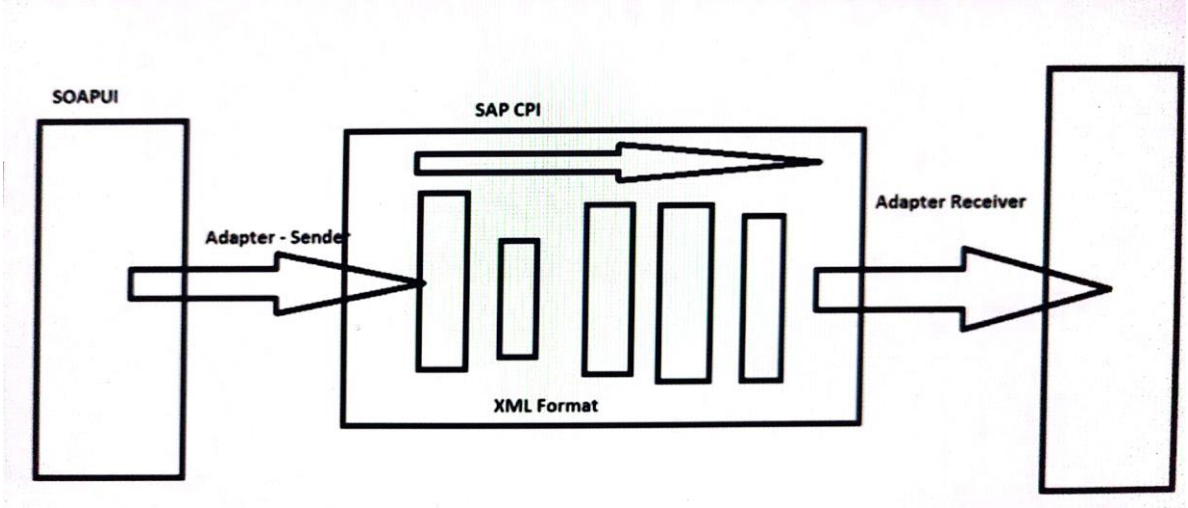
Just Click on It and Open it.

It will look like this.



In This Case Scenario, I am going to send request from SOAP UI Tool to my Integration Process.

We will send some data from SOAP Service and Receive in CPI side. Here is the Adapter receiver. Same data will came back to SOAP as response.

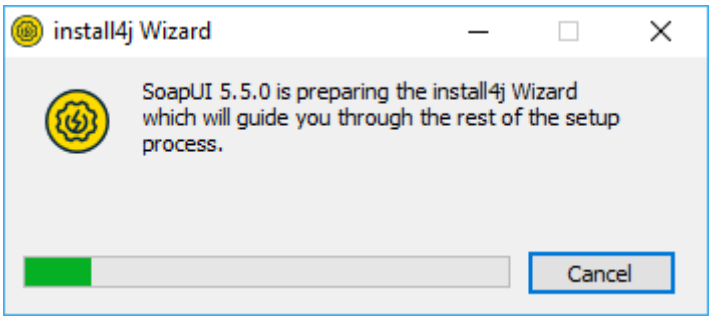


For the further process, you need to install the SOAP UI Tool.

Use this link to download: https://www.soapui.org/downloads/soapui/

To Install SOAP UI Tool, follow these instructions:

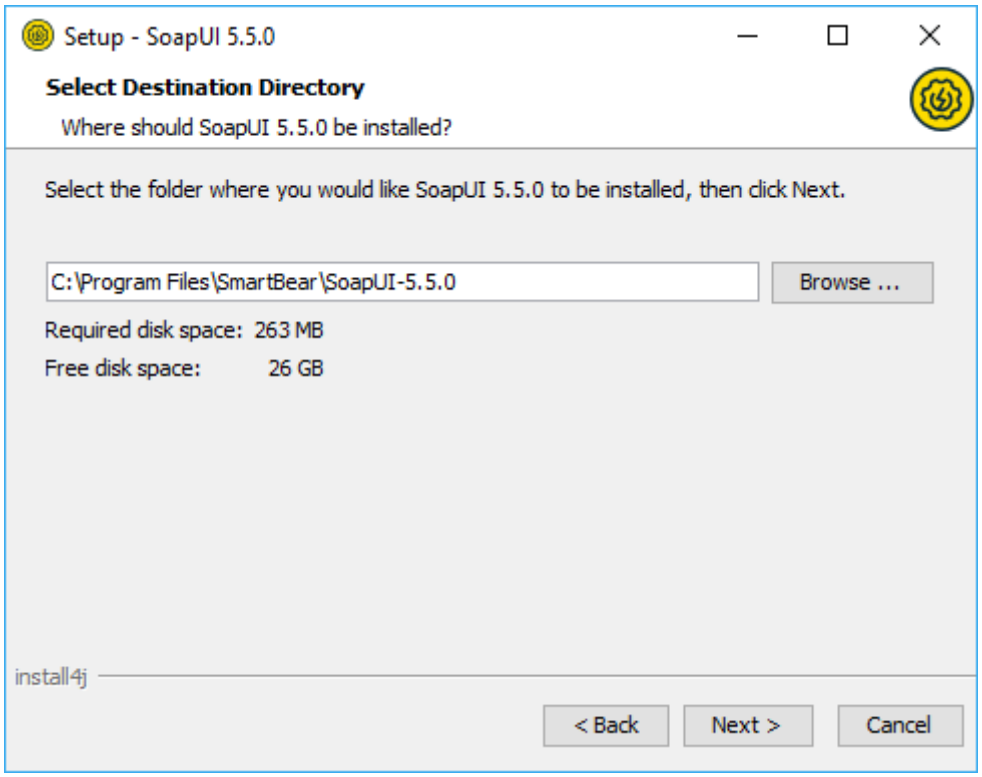
Once downloaded, the installation is straightforward. Start it by just double-clicking on it. The installer will start immediately.



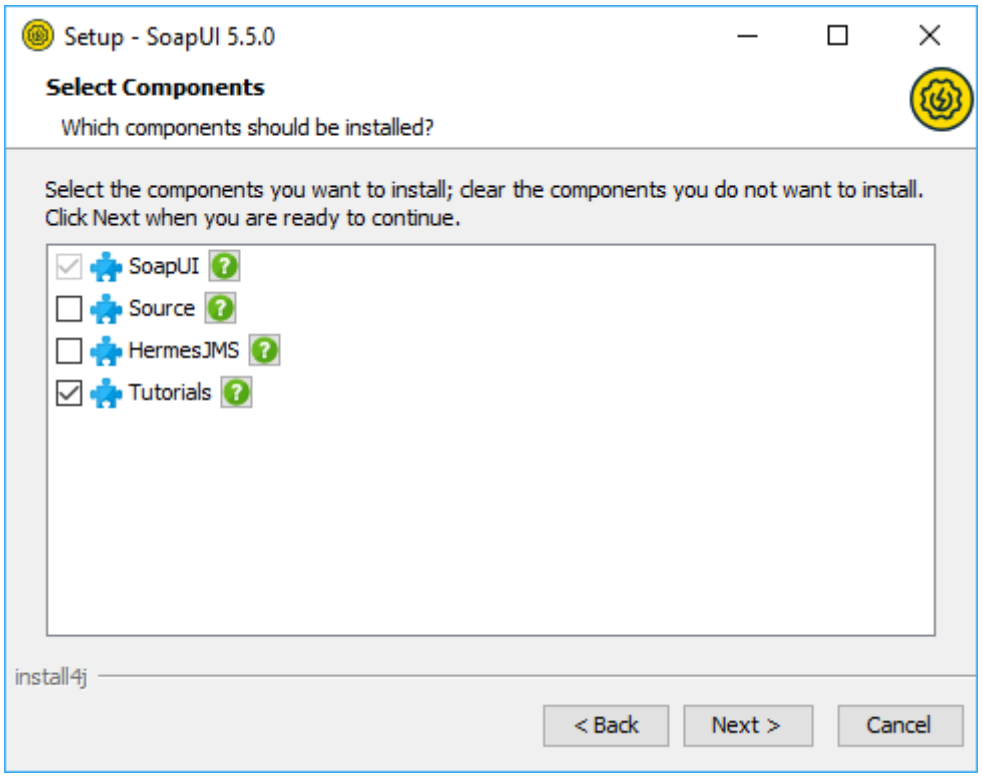
You'll soon see the starting screen.

Click *Next* to continue.

Select the destination folder, which by default is set to C:\Program Files\SmartBear\SoapUI-5.5.0.

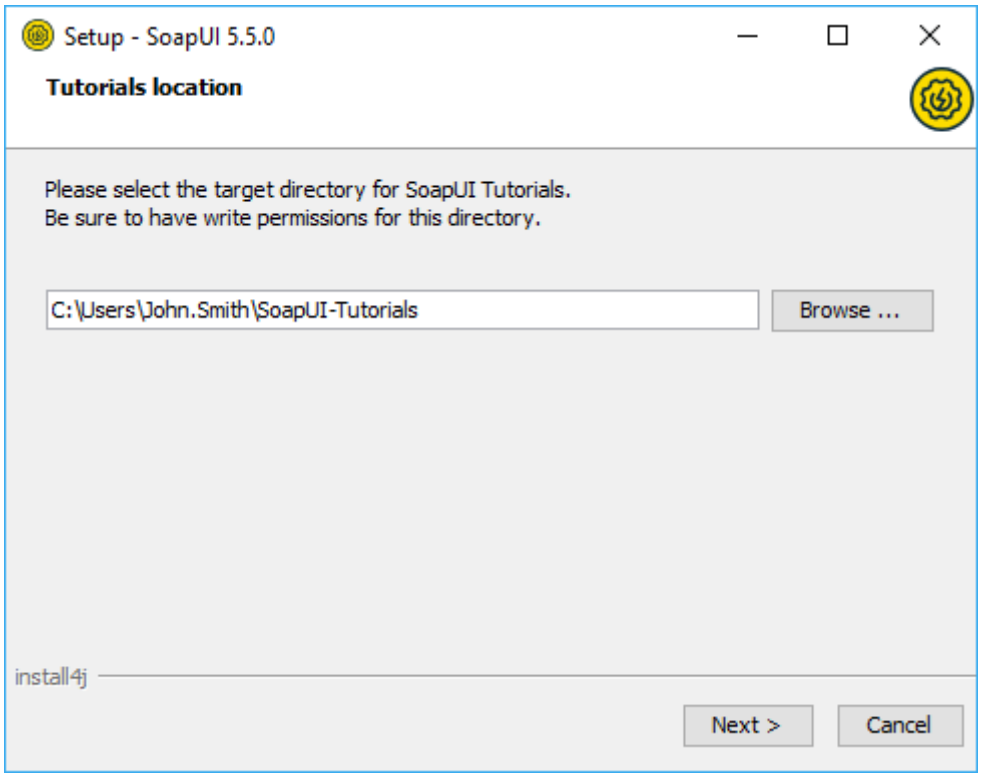


Next step gives you the opportunity to include, as additional components, SoapUI source files, HermesJMS installation and tutorials.

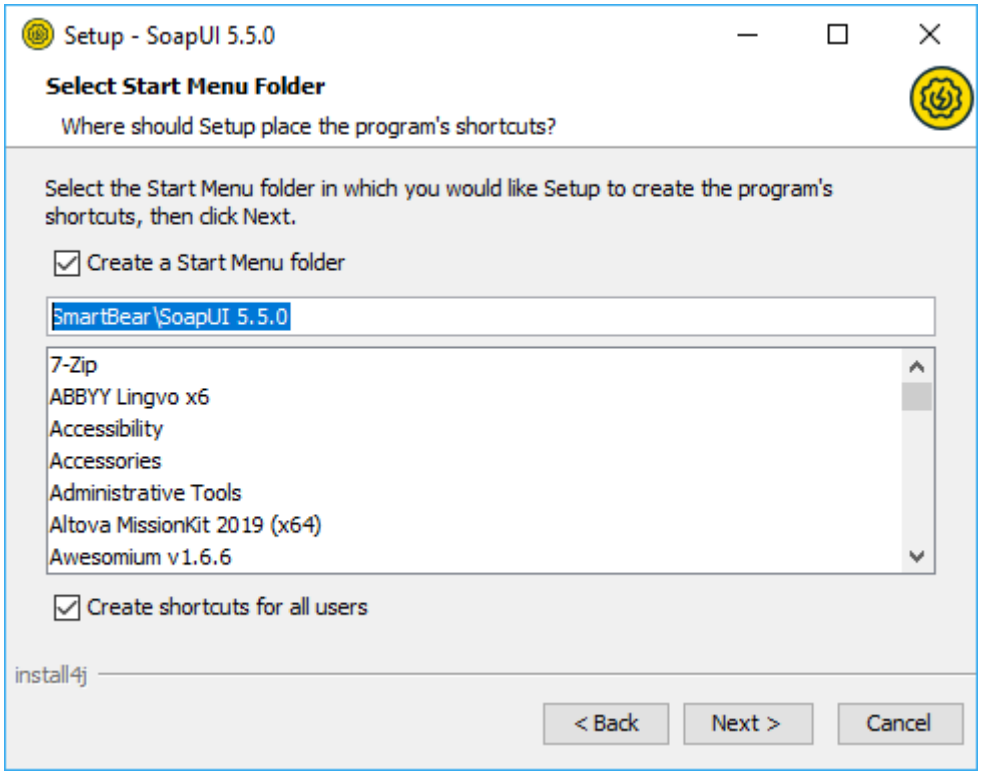


Note: If you choose to install HermesJMS, you will have to accept the HermesJMS license agreement.

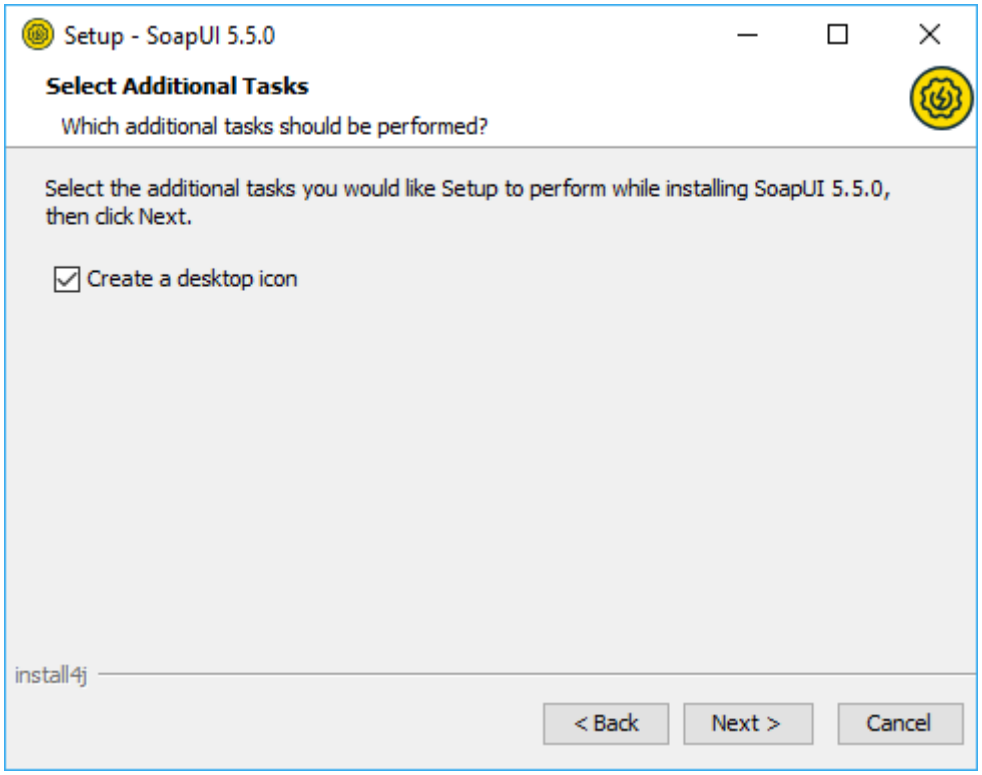
If you choose to install SoapUI tutorials, specify the directory to which you want to install them.



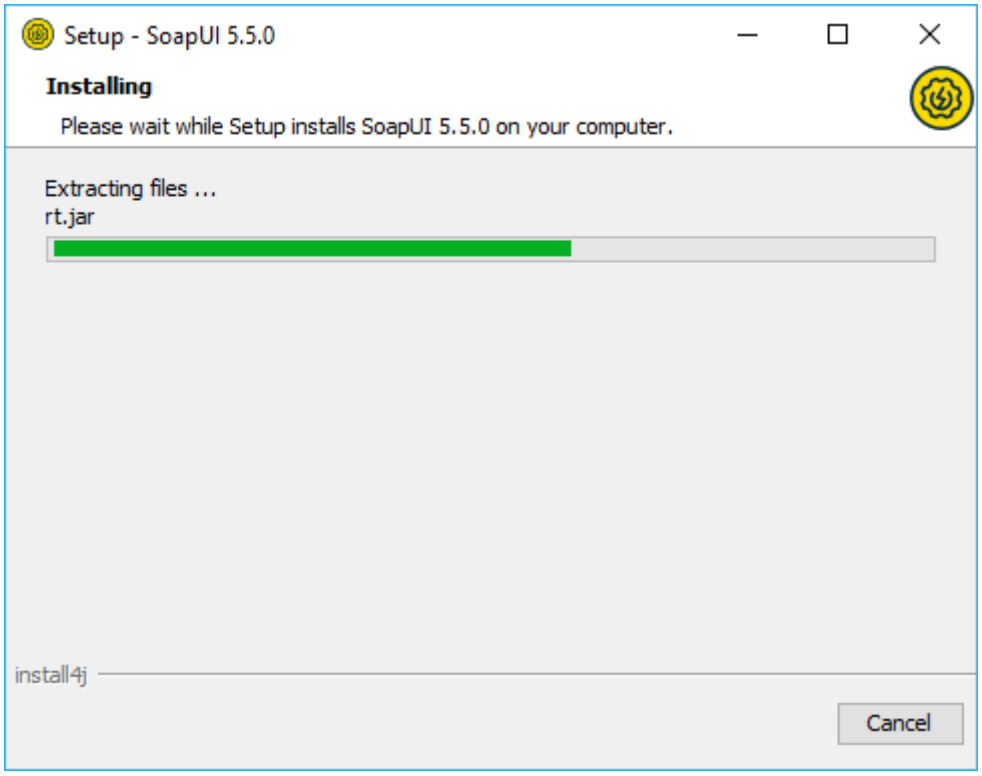
Then, you'll be able to select the Start Menu folder where you want the soapUI shortcut to be added



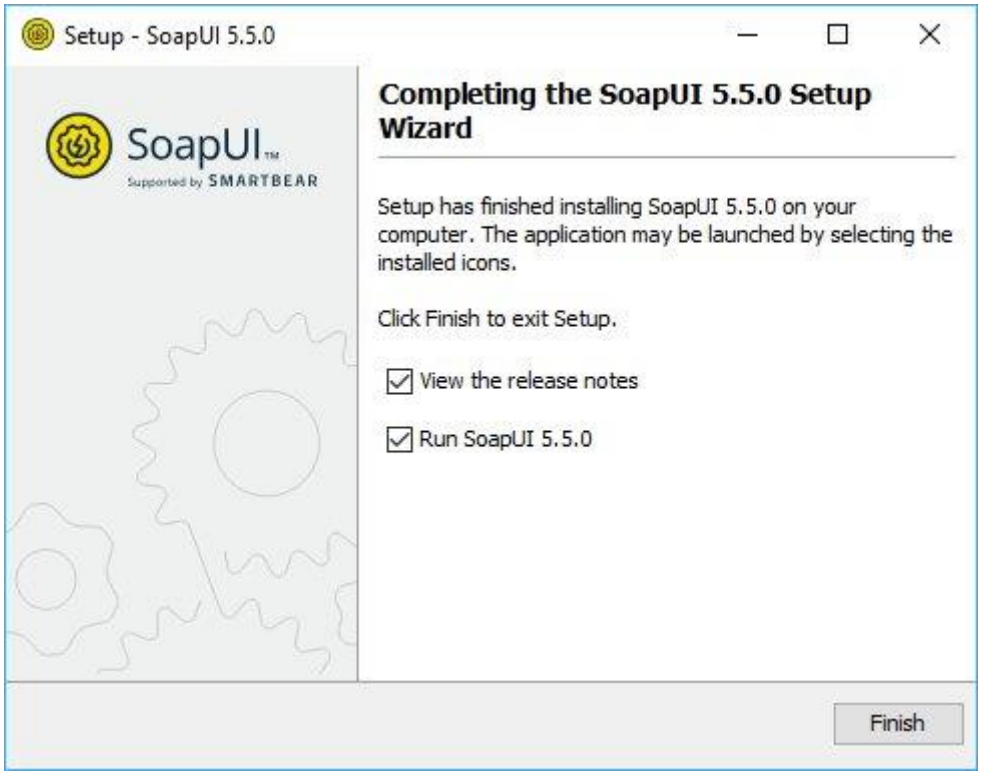
and whether you would like desktop icon added.



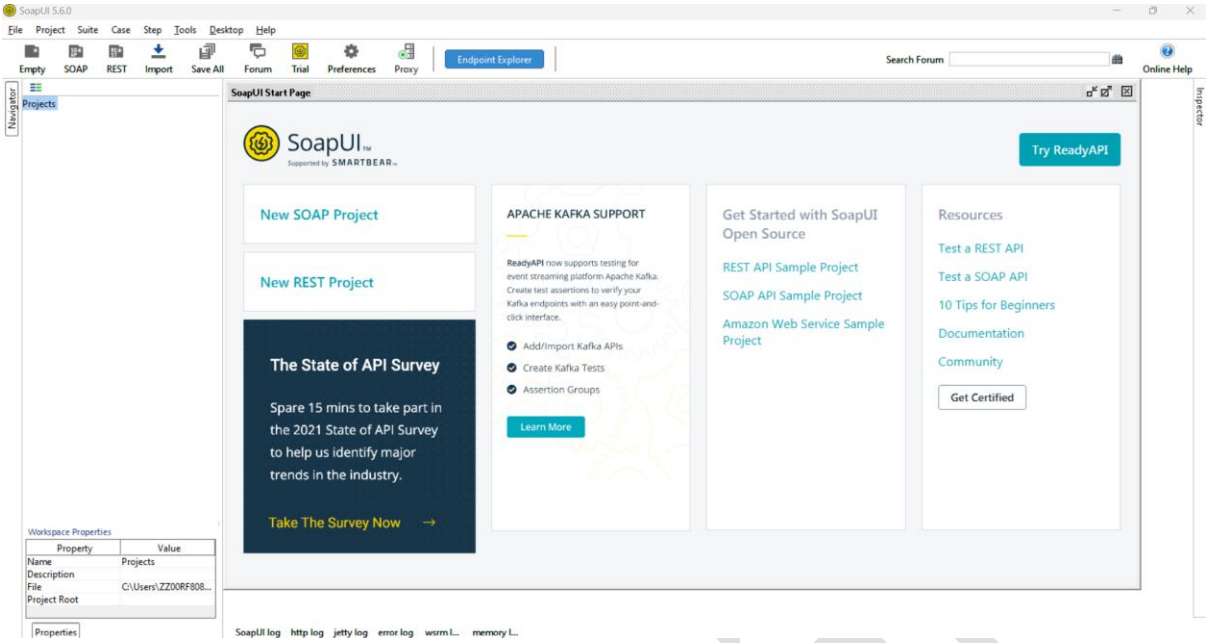
Finally, by clicking *Next*, the installation starts.



After couple of minutes at most, the installation should be finished and you should see the next screen.



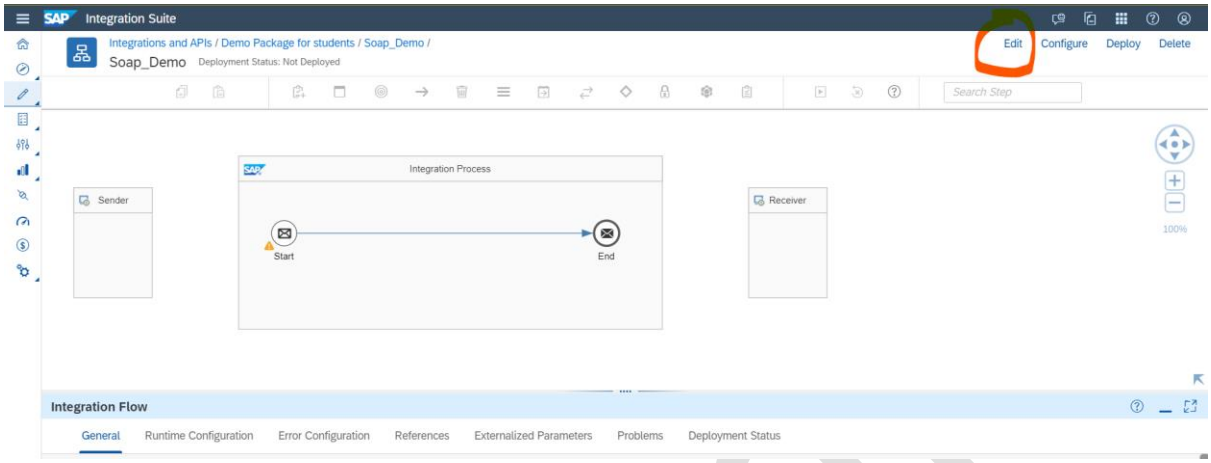
Now you are ready to use SoapUI.



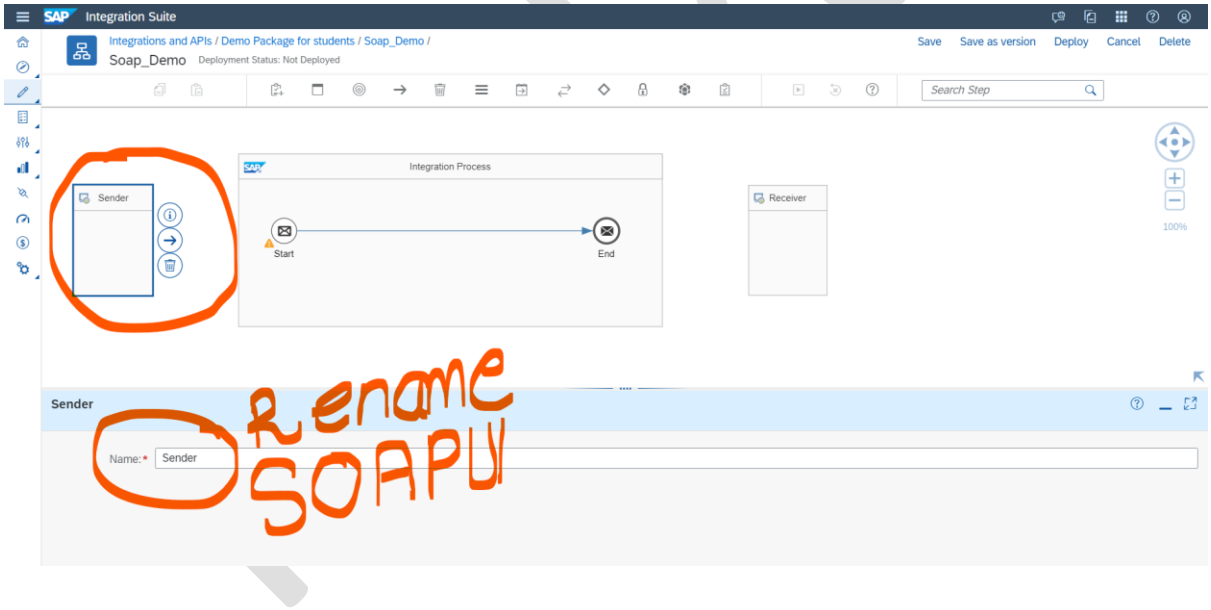
END OF INSTALLATION SOAP UI

After SOAP installation Just Go to the I flow tab in the integration Suite application.

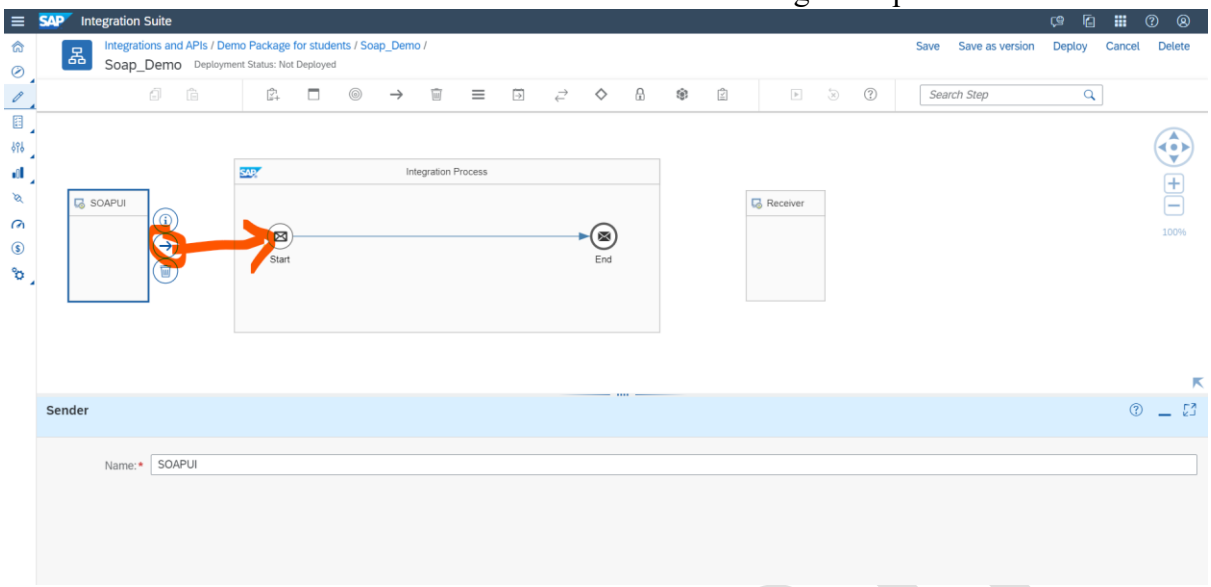
Click On Edit Button:



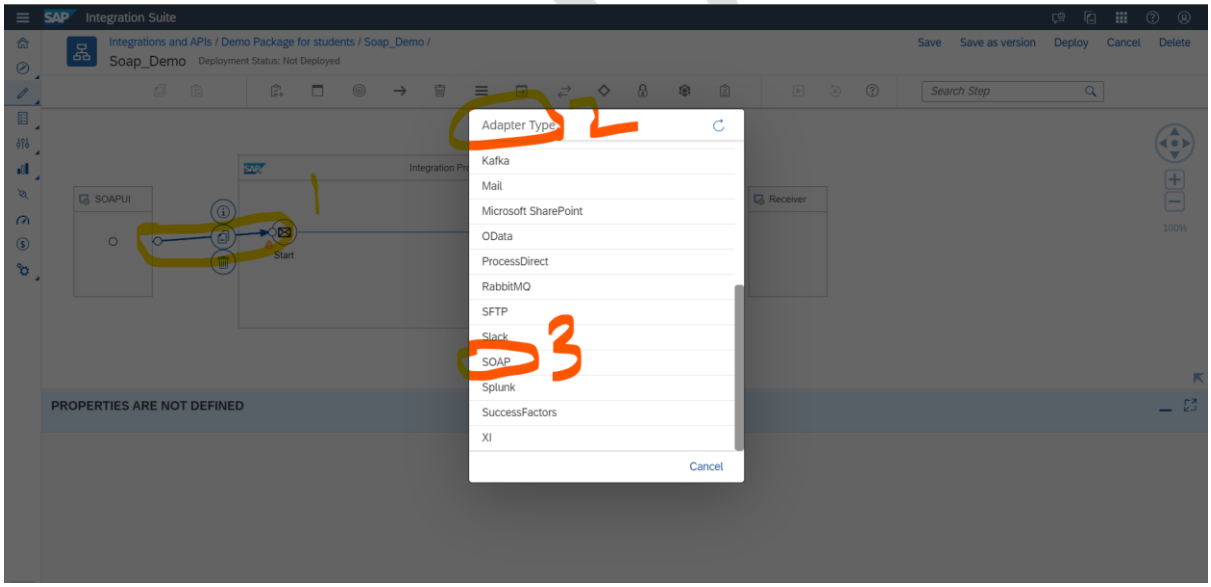
Click on Sender Box and Rename It to SOAPUI.



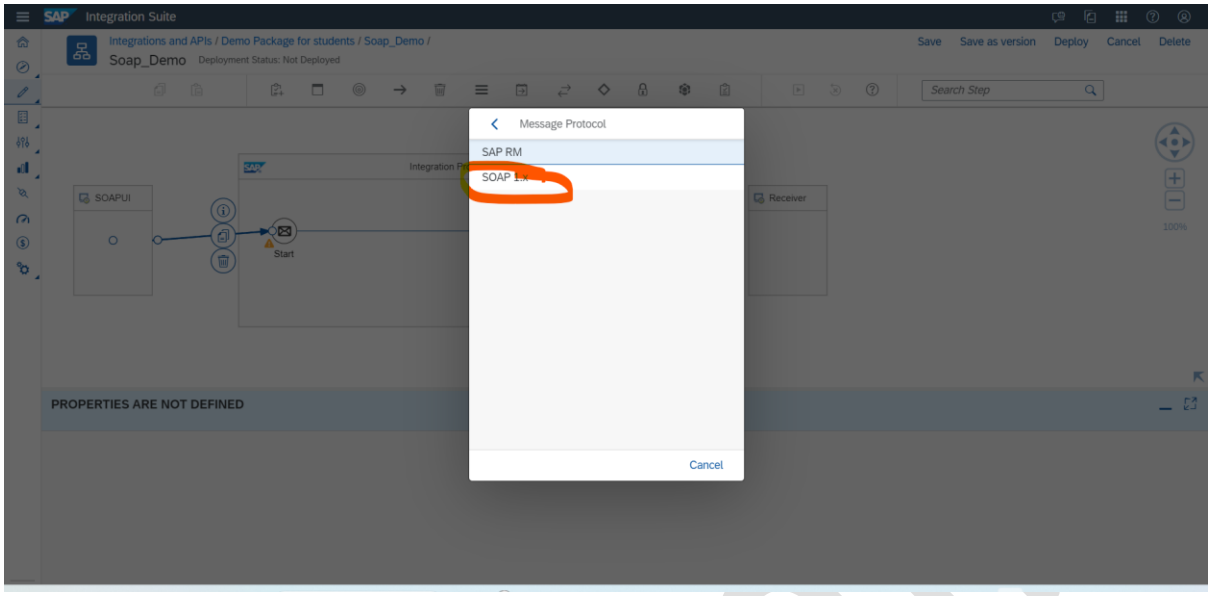
Now click on Sender Box and catch arrow and meet with Integration process Start Icon.



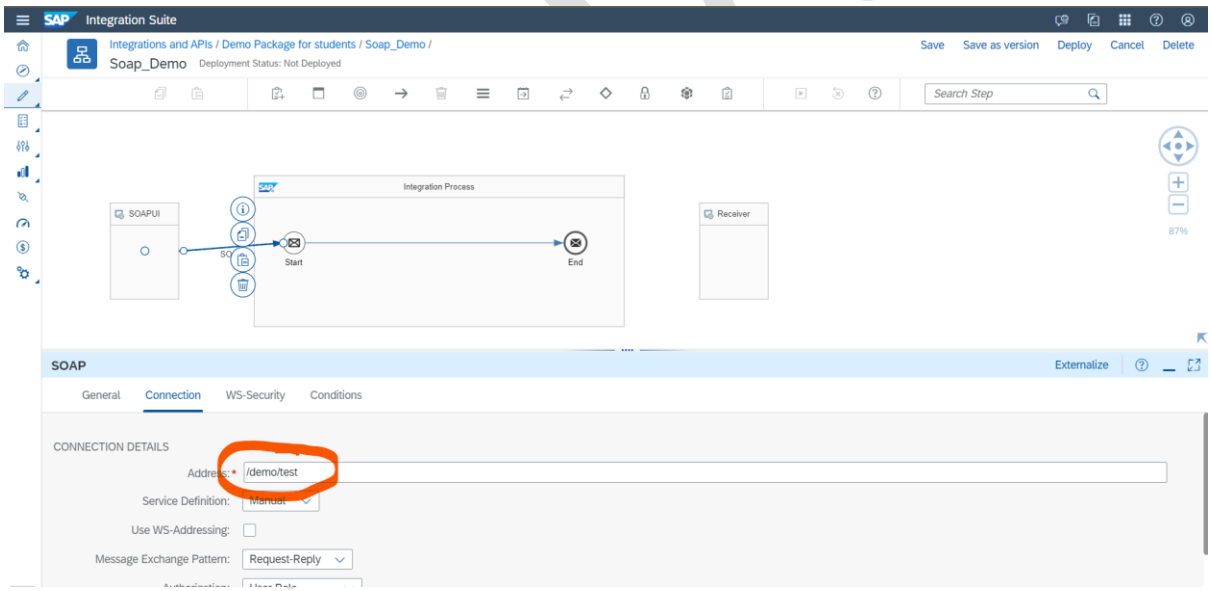
When we drag the arrow and meet with the start icon, It prompts a box with adapter types. Adapter means the way from where we are communicating. In our case it's SOAP. So, Select SOAP.



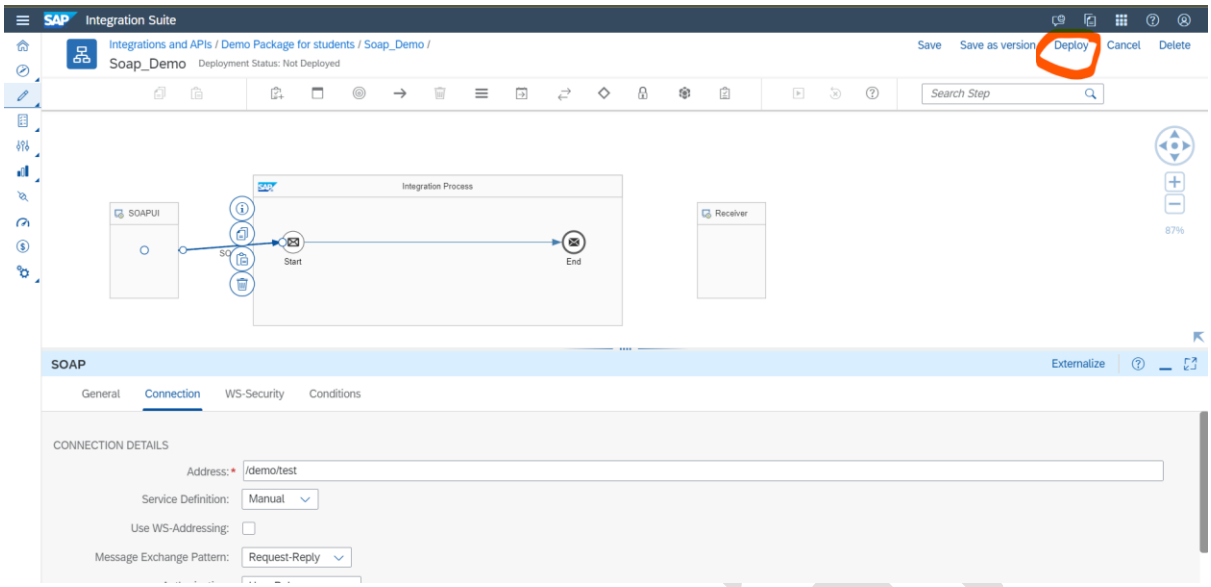
Now Select Message Protocol:

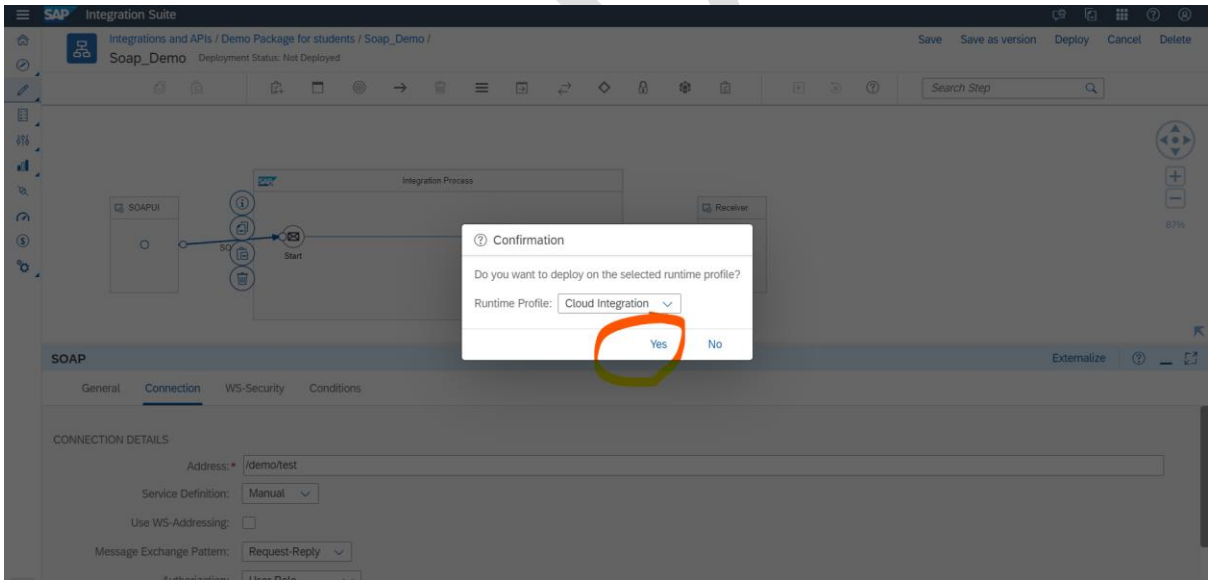


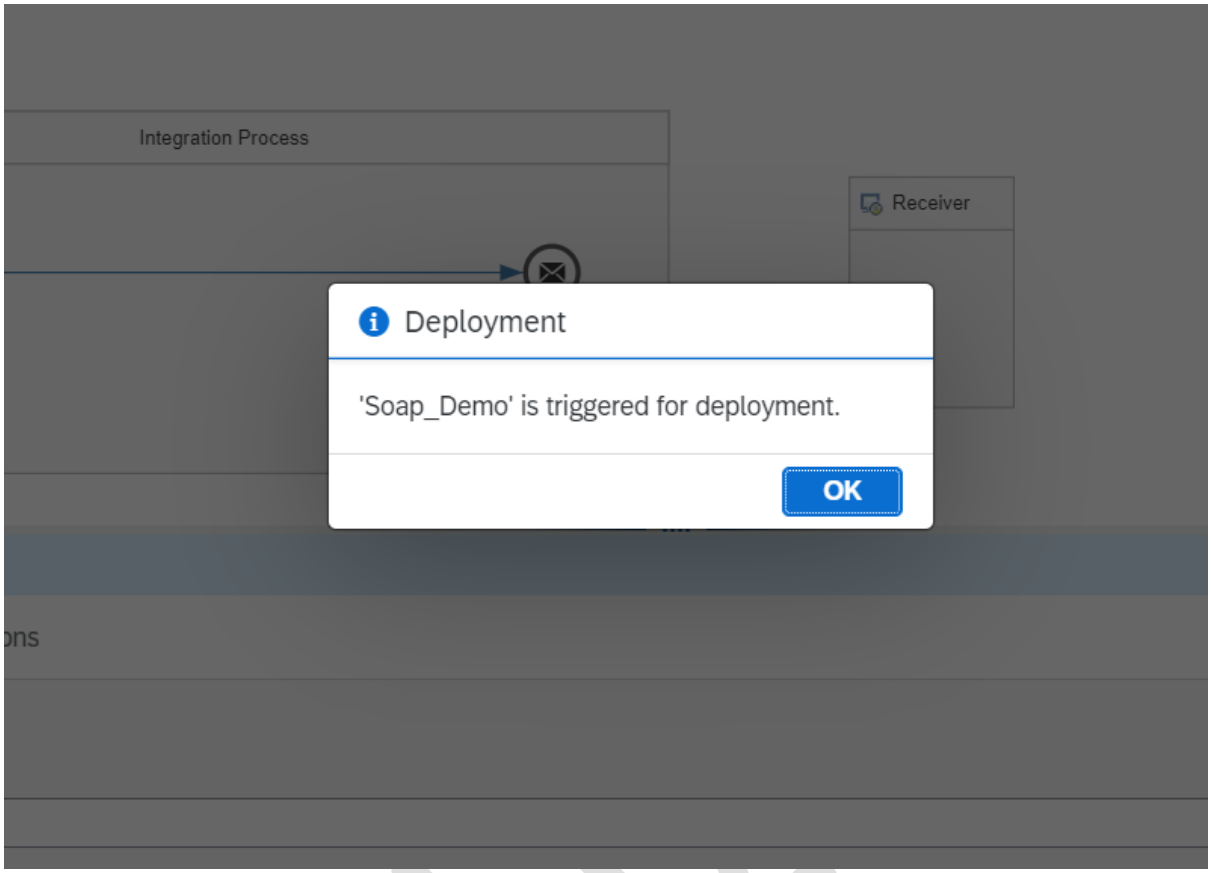
Click on the connection tab and write the address. Here you can write which you want and save it.



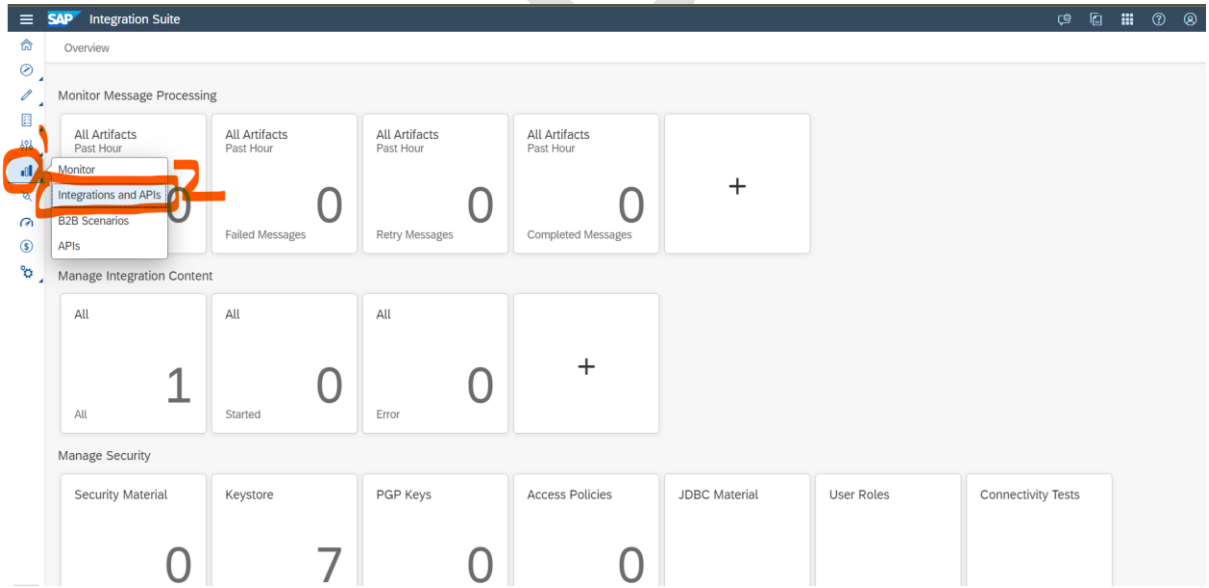
After saving just Click on Deploy:

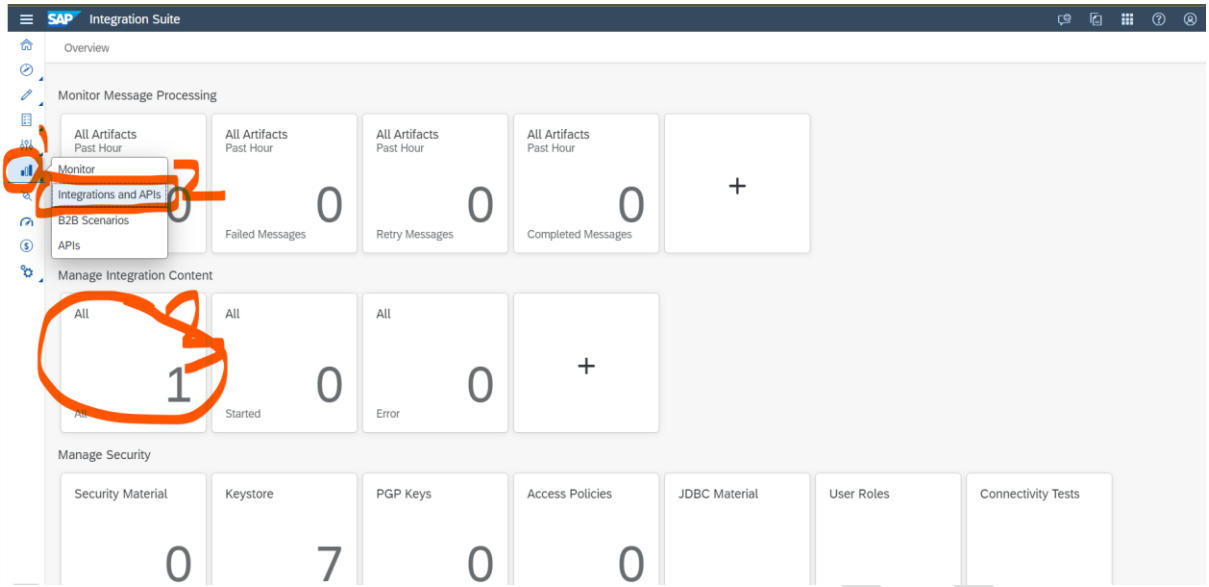


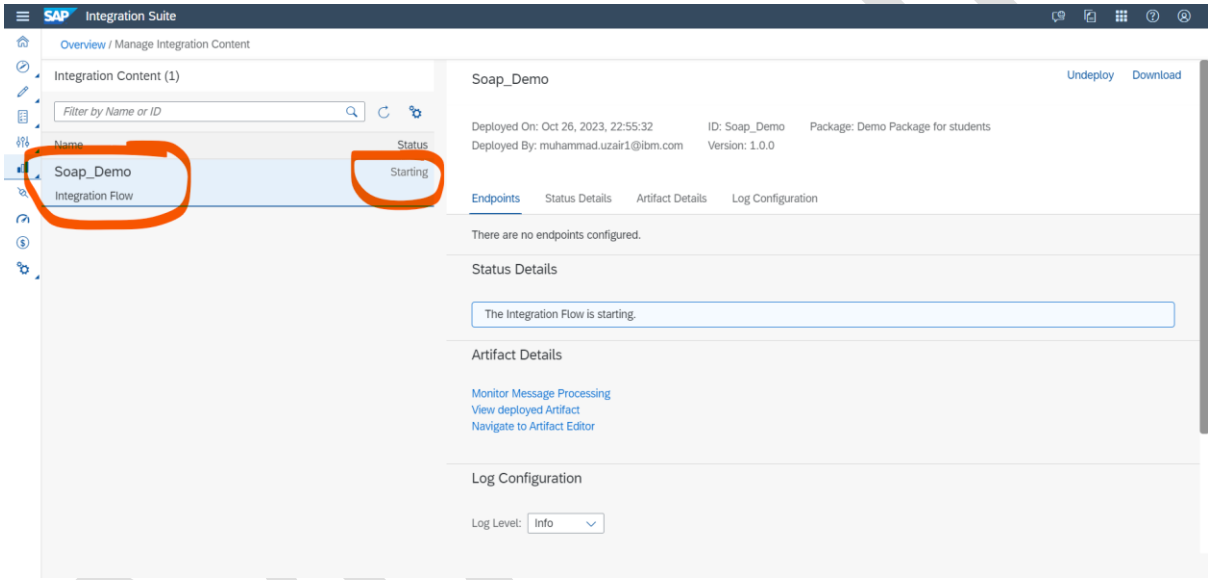


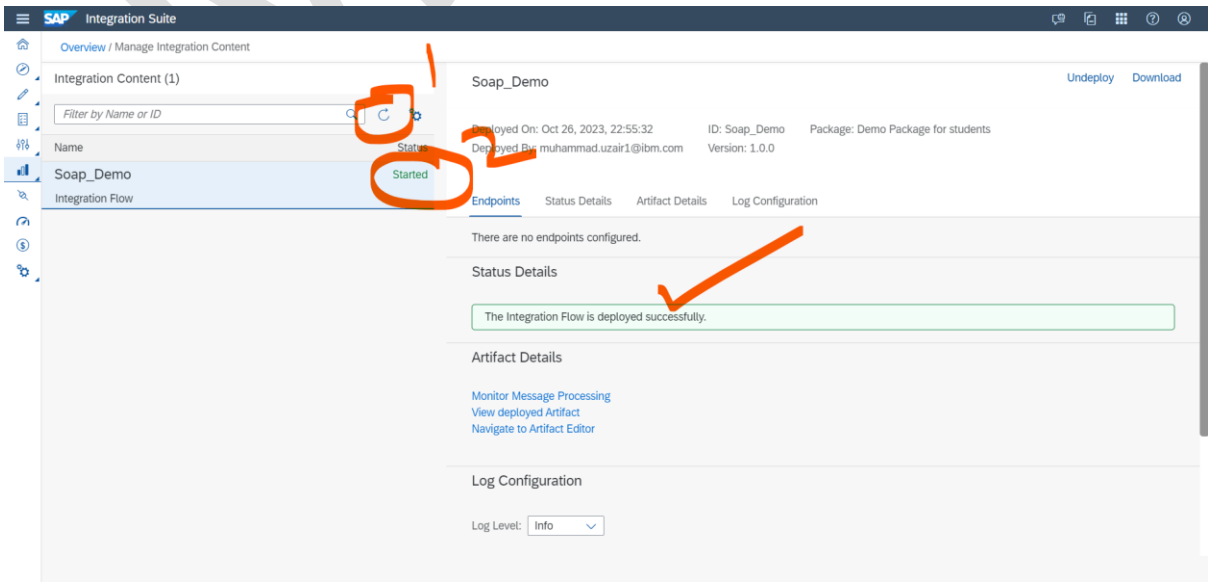


After Deploying follow these steps:

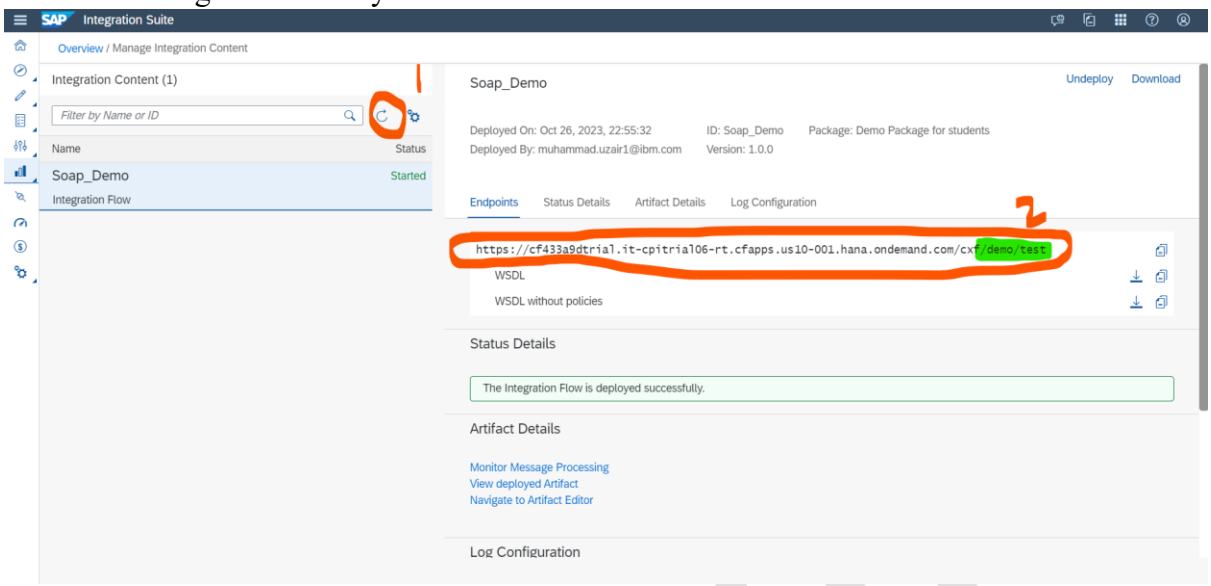



SAP Integration Suite
Overview
Monitor Message Processing
All Artifacts
Past Hour
Monitor
Integrations and APIs
B2B Scenarios
APIs
0
Failed Messages
Retry Messages
Completed Messages
Manage Integration Content
All
1
Started
Error
Manage Security
Security Material
Keystore
7
PGP Keys
Access Policies
JDBC Material
User Roles
Connectivity Tests


SAP Integration Suite
Overview / Manage Integration Content
Integration Content (1)
Filter by Name or ID
Name
Status
Soap_Demo
Integration Flow
Starting
Soap_Demo
Undeploy
Download
Deployed On: Oct 26, 2023, 22:55:32
ID: Soap_Demo
Package: Demo Package for students
Deployed By: muhammad.uzair1@ibm.com
Version: 1.0.0
Endpoints
Status Details
Artifact Details
Log Configuration
There are no endpoints configured.
Status Details
The Integration Flow is starting.
Artifact Details
Monitor Message Processing
View deployed Artifact
Navigate to Artifact Editor
Log Configuration
Log Level:
Info

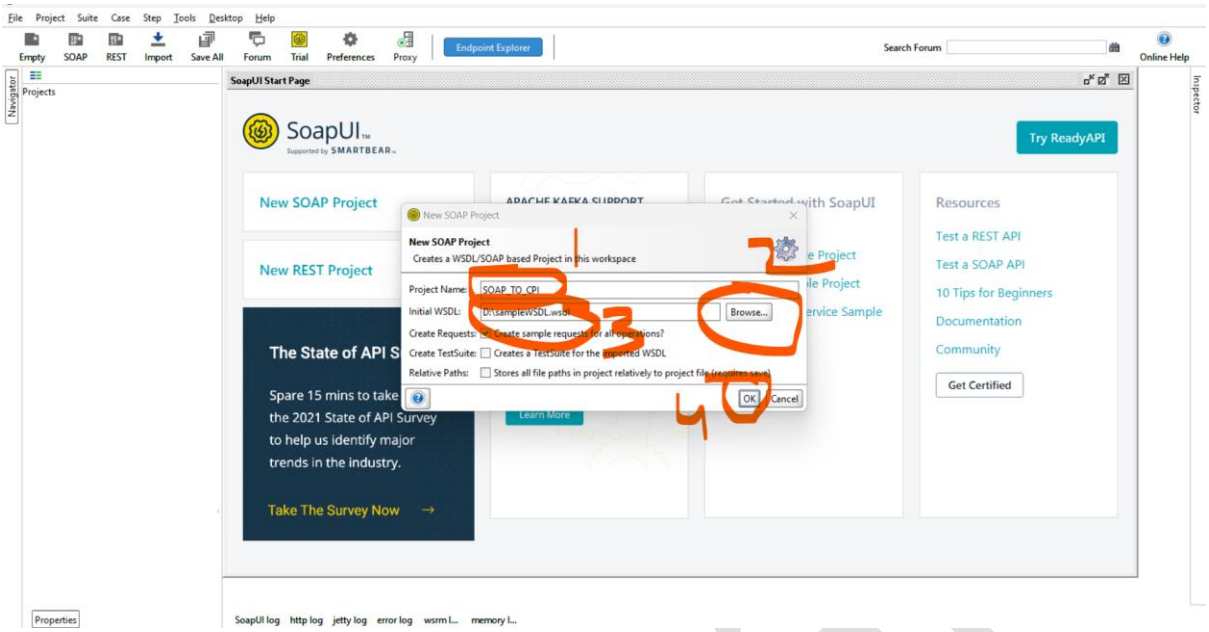

SAP Integration Suite
Overview / Manage Integration Content
Integration Content (1)
Filter by Name or ID
Name
Status
Soap_Demo
Integration Flow
Started
Soap_Demo
Undeploy
Download
Deployed On: Oct 26, 2023, 22:55:32
ID: Soap_Demo
Package: Demo Package for students
Deployed By: muhammad.uzair1@ibm.com
Version: 1.0.0
Endpoints
Status Details
Artifact Details
Log Configuration
There are no endpoints configured.
Status Details
The Integration Flow is deployed successfully.
Artifact Details
Monitor Message Processing
View deployed Artifact
Navigate to Artifact Editor
Log Configuration
Log Level:
Info

After a while again refresh by 1 area.



Note here is some endpoint that is the address given on I flow creation time.

Now go to SOAP UI Tool and follow:

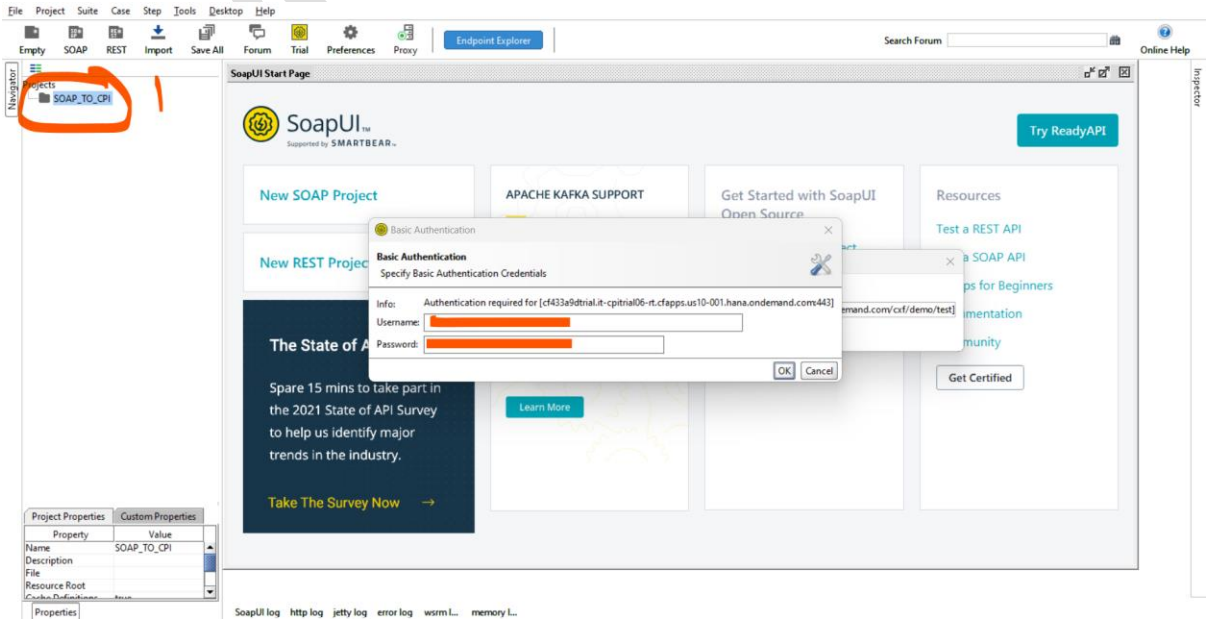


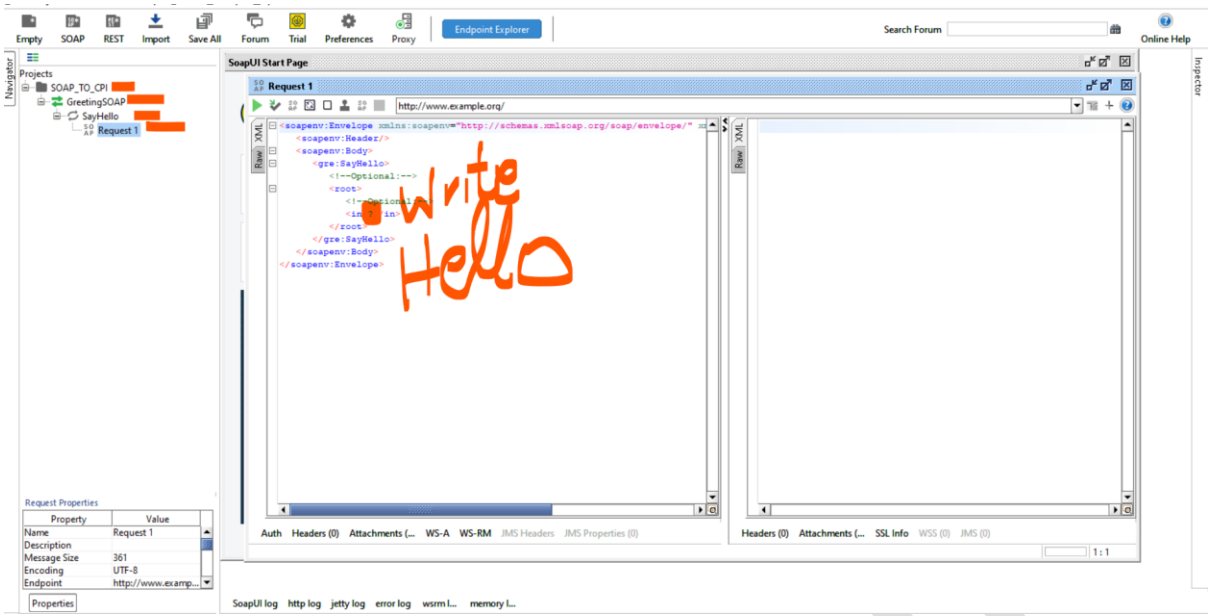
sampleWSDL .wsdl

File to upload:

This file actually creates a whole XML View to send and receive data in SOAP.

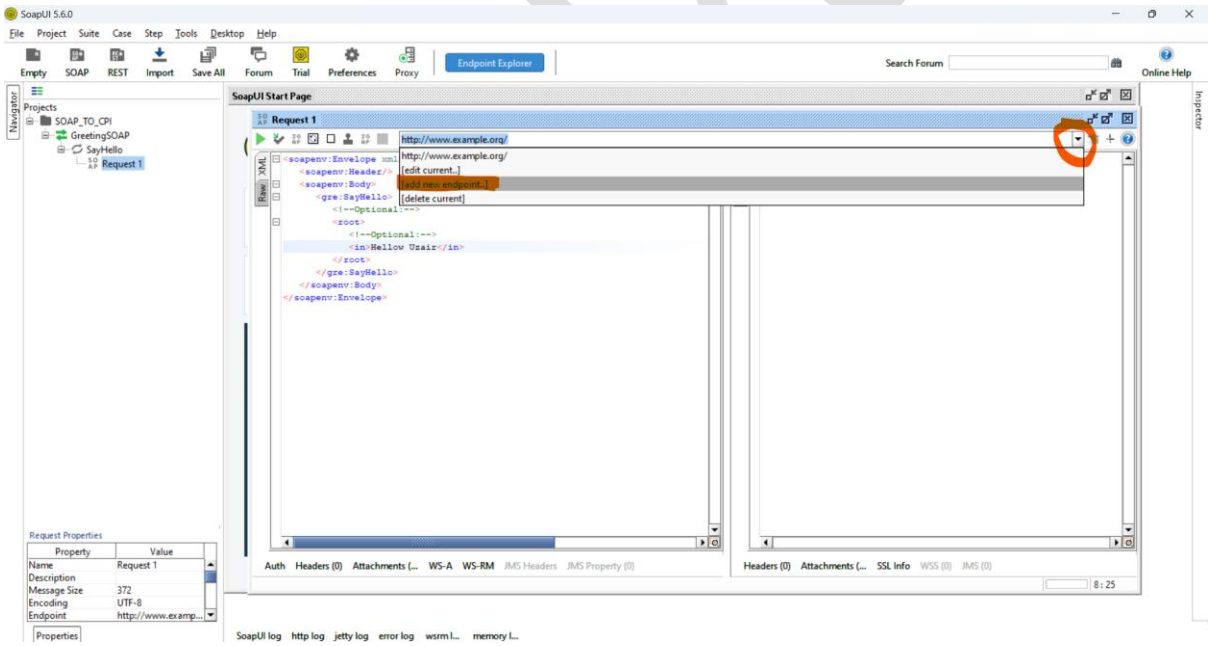
Next, Give the username and password by which you are login in CPI.



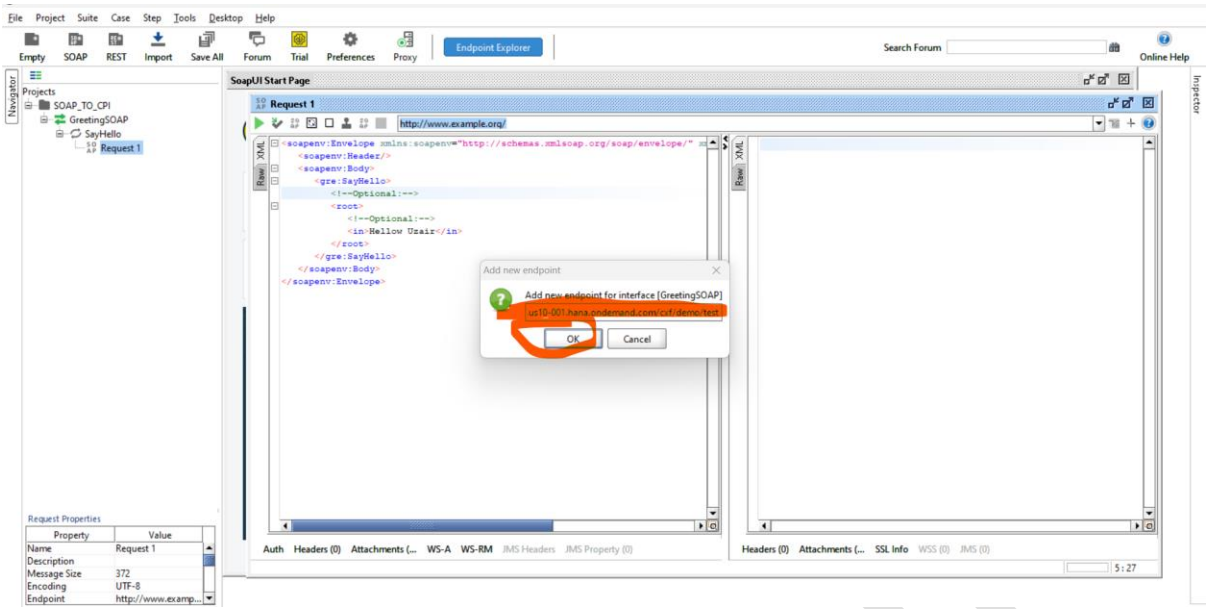


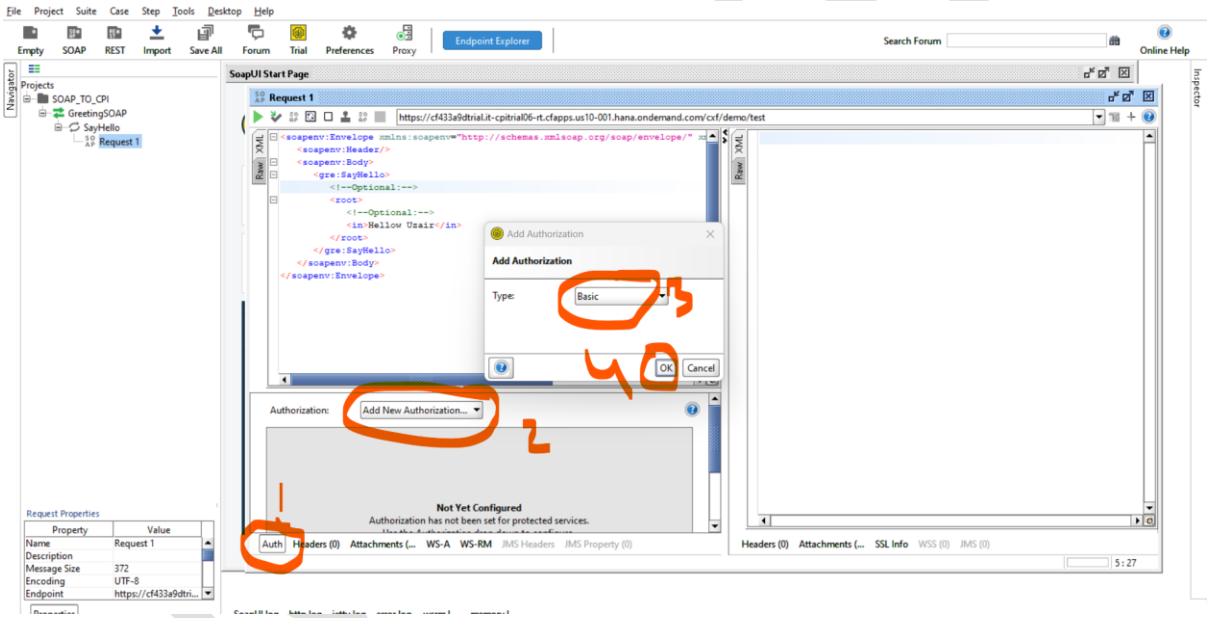
Write something in the “Hellow Uzair” area.

Next, follow these steps:

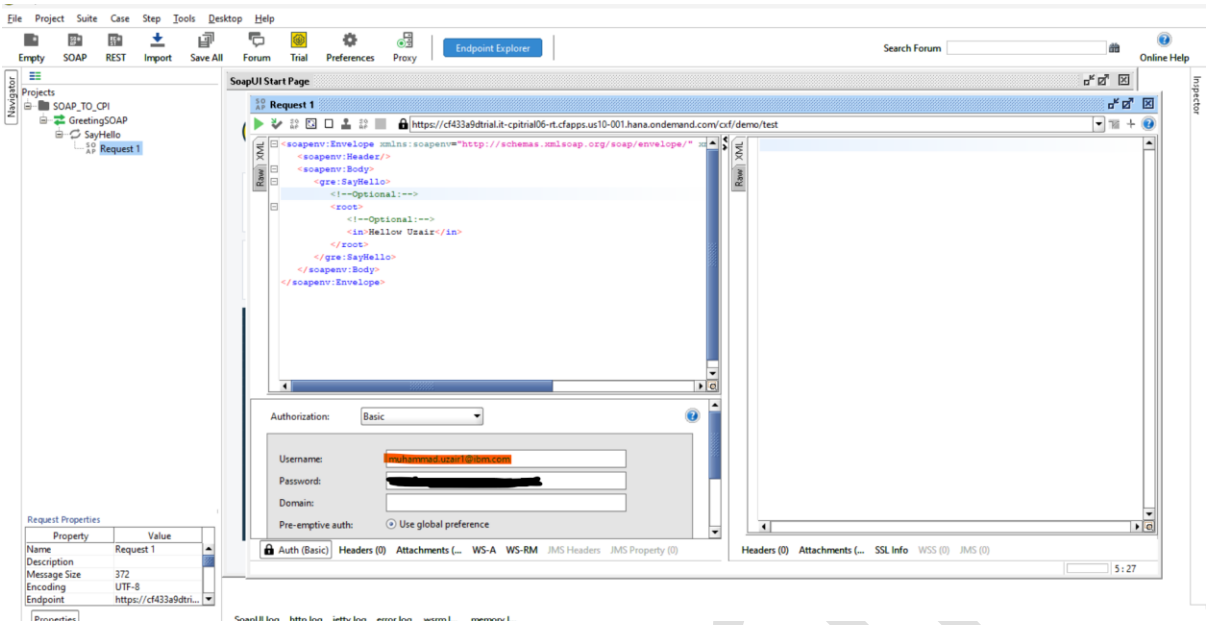


Just Paste the endpoint copied from Integration Suit I Flow page:

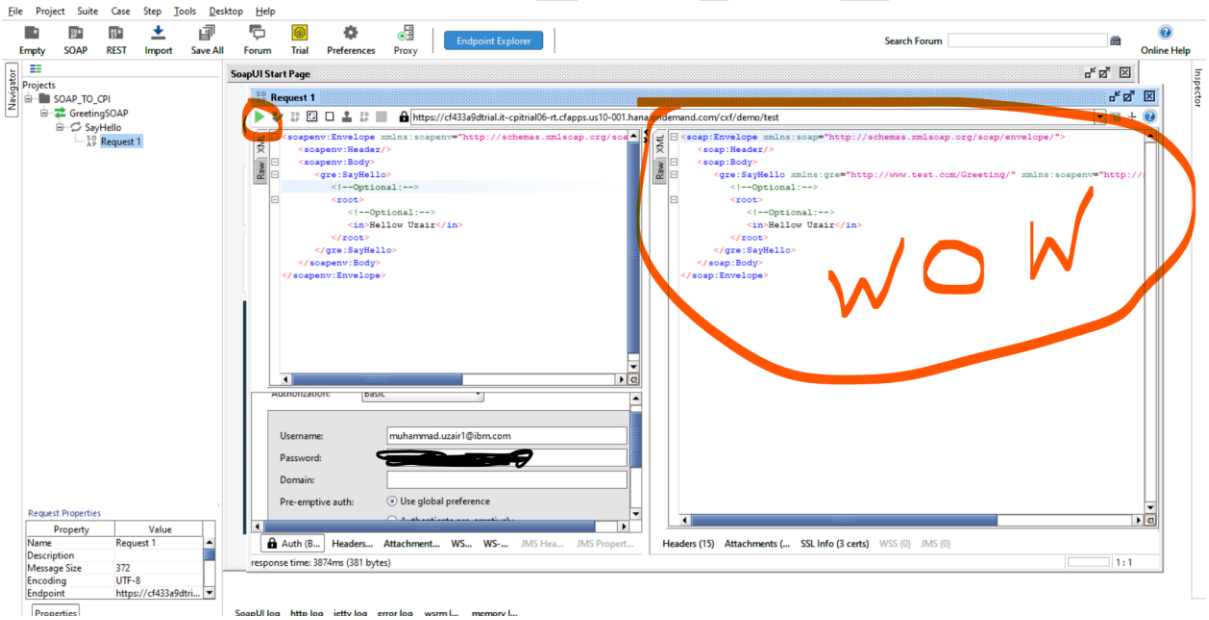

File Project Suite Case Step Tools Desktop Help
Empty SOAP REST Import Save All Forum Trial Preferences Proxy
Endpoint Explorer
Search Forum
Online Help
SoapUI Start Page
Request 1
http://www.example.org/
Add new endpoint
Add new endpoint for interface [GreetingSOAP]
us10-001.hana.ondemand.com/cxf/demo/test
OK
Cancel
Request Properties
Property
Value
Name
Request 1
Description
Message Size
372
Encoding
UTF-8
Endpoint

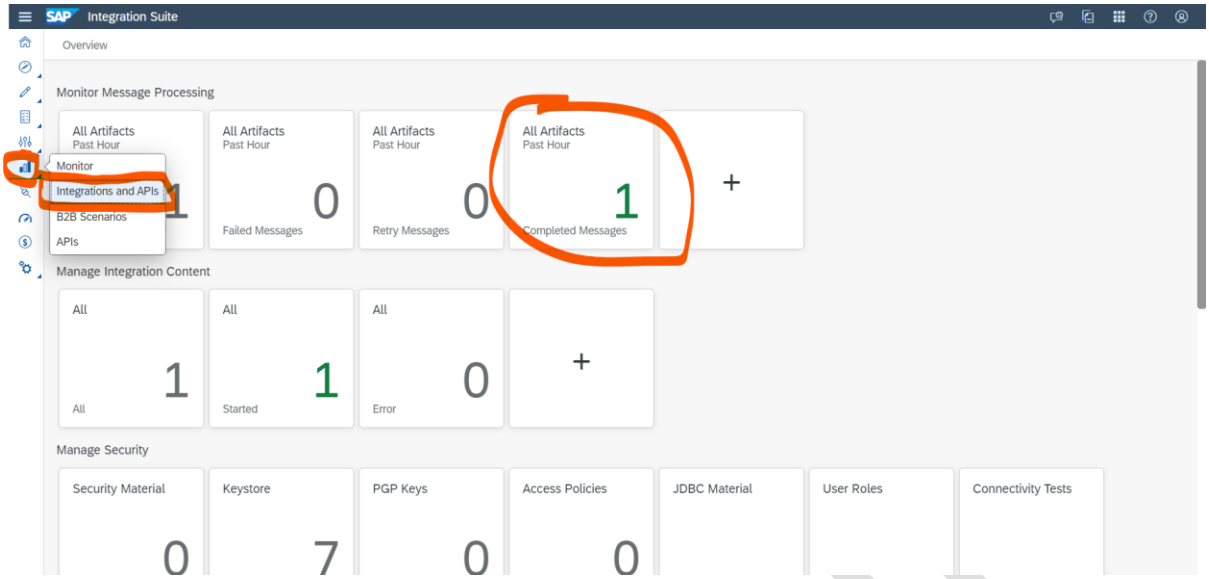

File Project Suite Case Step Tools Desktop Help
Empty SOAP REST Import Save All Forum Trial Preferences Proxy
Endpoint Explorer
Search Forum
Online Help
SoapUI Start Page
Request 1
https://cf433a9dtrial.it-cpitrial06-rt.cfapps.us10-001.hana.ondemand.com/cxf/demo/test
Add Authorization
Add Authorization
Type:
Basic
OK
Cancel
Authorization:
Add New Authorization...
Not Yet Configured
Authorization has not been set for protected services.
Request Properties
Property
Value
Name
Request 1
Description
Message Size
372
Encoding
UTF-8
Endpoint

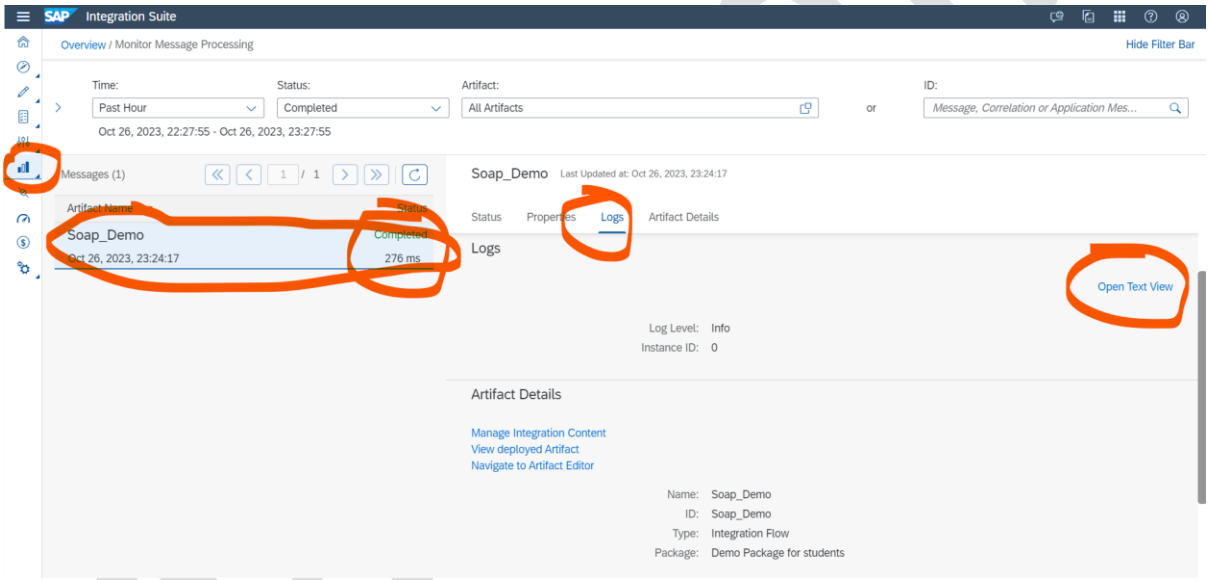
Give the username and password here.



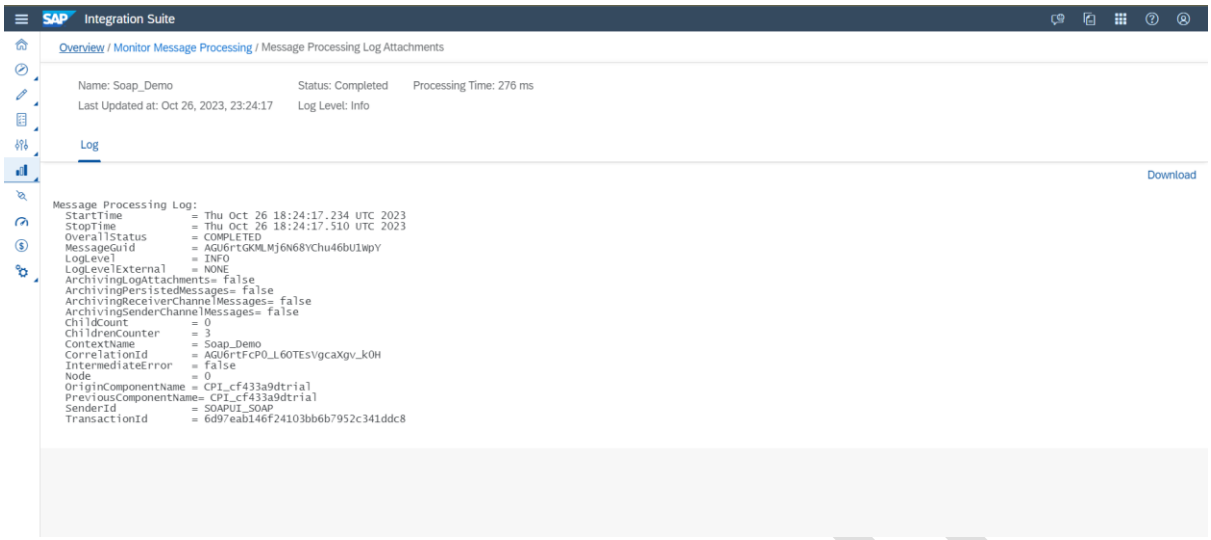
Here is the response of CPI.







Here is the response and log of integration triggering.


Integration Suite
Overview / Monitor Message Processing / Message Processing Log Attachments
Name: Soap_Demo
Status: Completed
Processing Time: 276 ms
Last Updated at: Oct 26, 2023, 23:24:17
Log Level: Info
Log
Download
Message Processing Log:
StartTime = Thu Oct 26 18:24:17.234 UTC 2023
StopTime = Thu Oct 26 18:24:17.510 UTC 2023
OverallStatus = COMPLETED
MessageGuid = AGU6rtGKMLMj6N68YChu46bU1WpY
LogLevel = INFO
LogLevelExternal = NONE
ArchivingLogAttachments= false
ArchivingPersistedMessages= false
ArchivingReceiverChannelMessages= false
ArchivingSenderChannelMessages= false
ChildCount = 0
ChildrenCounter = 3
ContextName = Soap_Demo
CorrelationId = AGU6rtFcPO_L6OTEsVgcaXgv_kOH
IntermediateError = false
Node = 0
OriginComponentName = CPI_cf433a9dtrial
PreviousComponentName= CPI_cf433a9dtrial
SenderId = SOAPUI_SOAP
TransactionId = 6d97eab146f24103bb6b7952c341ddc8

Finally, we go through the CPI WEB IDE and Successfully created a I flow and tested from SOAP.