

# Basics of CPI

## Challenges in Integration.

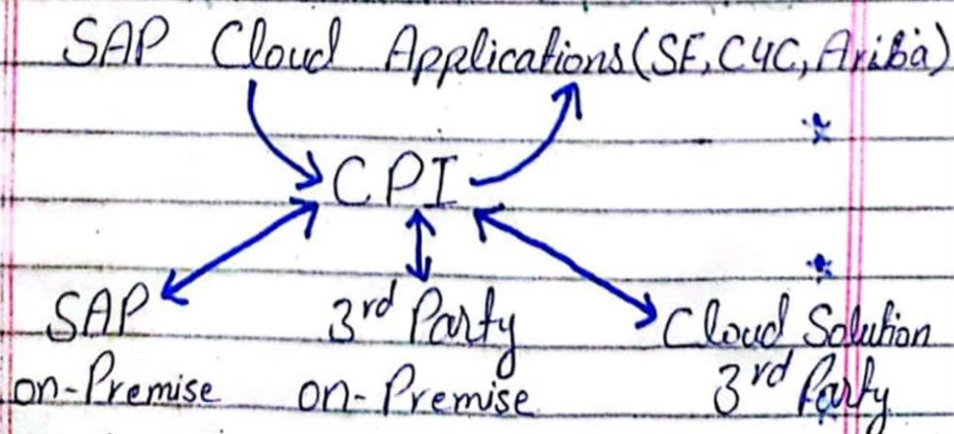
- 1) Cloud Integration
- 2) Technical Protocols
- 3) Real-time business
- 4) process integration
- 5) Integration Technology.

Standard SAP Integration solution.

\* [cloudintegration.hana.ondemand.com](https://cloudintegration.hana.ondemand.com)



## SAP CPI Architecture



CPI is based in cloud.  
These are SAP Cloud Platforms  
from which, CPI is one.

There should be a Customer  
like company.



Company needs to buy  
account with SAP.



One account we creates  
tenant. Tenants are work  
places. Like SAP CPI Tenant,  
SAP SAC Tenant.

## SAP CPI Framework

- \* Apache Camel is the integration framework for SAP CPI.
- \* Camel is open source java based framework.
- \* Camel is based on integration pattern. ([camel.apache.org](http://camel.apache.org))

# SAP CPI

- SAP BTP Account Creation
- SAP CPI Tennat Activation

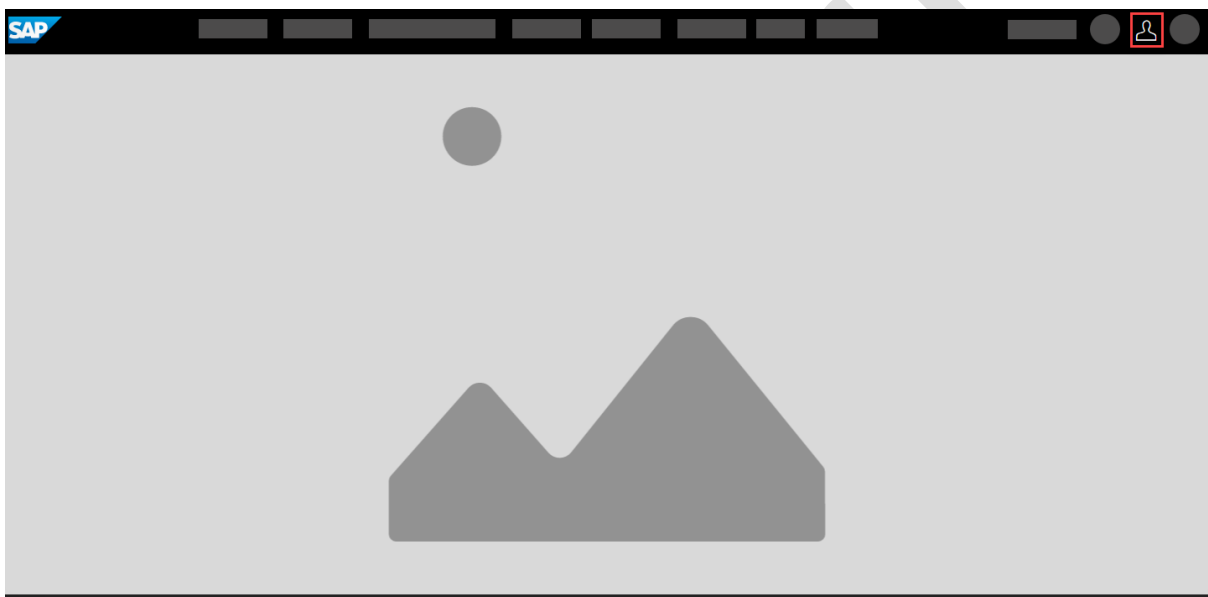
To start on SAP CPI (Cloud Platform Integration) Create your SAP BTP Trial Account.

## SAP BTP Account Creation

### STEP 1:

Log into the SAP website

Visit <https://www.sap.com> and click the Log On icon in the upper-right corner.



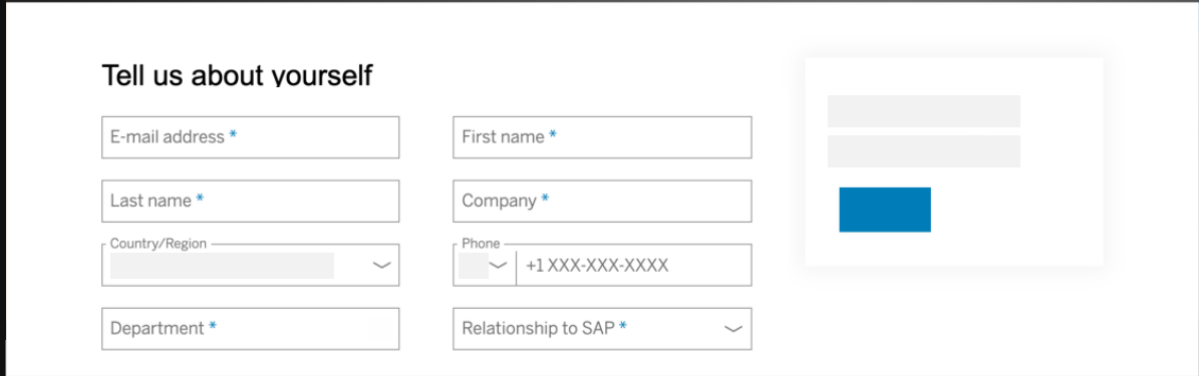
If you have an account on [www.sap.com](https://www.sap.com) you can enter it or the associated email along with your password. If you do not have an account yet, you can select one of the other login methods or click Register to create an account.

If you do not need to register with sap.com, you can skip to Step 4. Make sure to make all steps as DONE to get credit for completing this tutorial.

**STEP 2:**

Register at sap.com

If you do not have an account, you will see a register dialog on the left-hand side of the dialog. Fill in the required fields and click Submit.



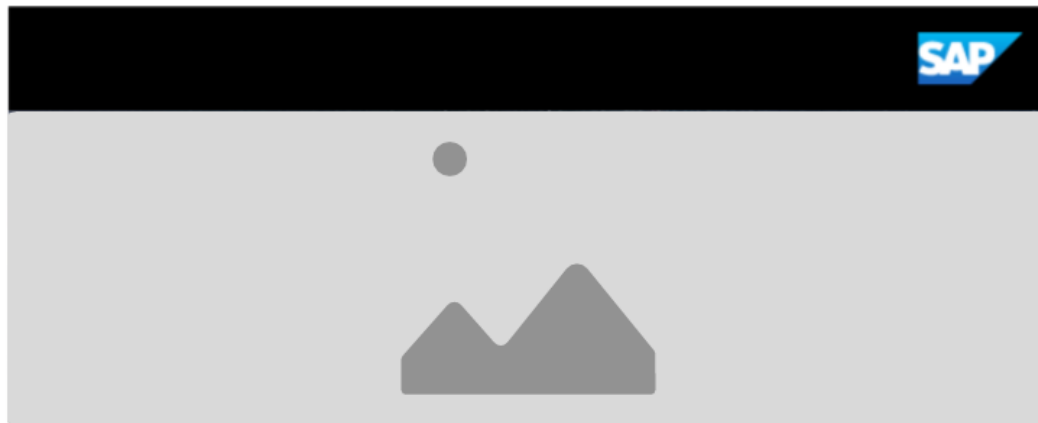
The image shows a registration form titled "Tell us about yourself". It contains several input fields and a submit button. The fields are arranged in two columns. The first column includes "E-mail address \*", "Last name \*", "Country/Region" (a dropdown menu), and "Department \*". The second column includes "First name \*", "Company \*", "Phone" (a dropdown menu with a country code "+1 XXX-XXX-XXXX"), and "Relationship to SAP \*" (a dropdown menu). To the right of the form is a large, faint, light blue rectangular button with rounded corners.

You will see a message that an activation link has been sent to you.

**STEP 3:**

Activate your account.

Check your emails to find the activation button Click to activate your account.



## Finalize Your Account

The image shows a form titled "Finalize Your Account". The form contains several horizontal gray bars representing input fields. Below these fields is a blue button with the text "Click to activate your account". At the bottom of the form, there are two more horizontal gray bars.

You will see a success message after activating your account.

### STEP 4:

Log on to SAP BTP Trial

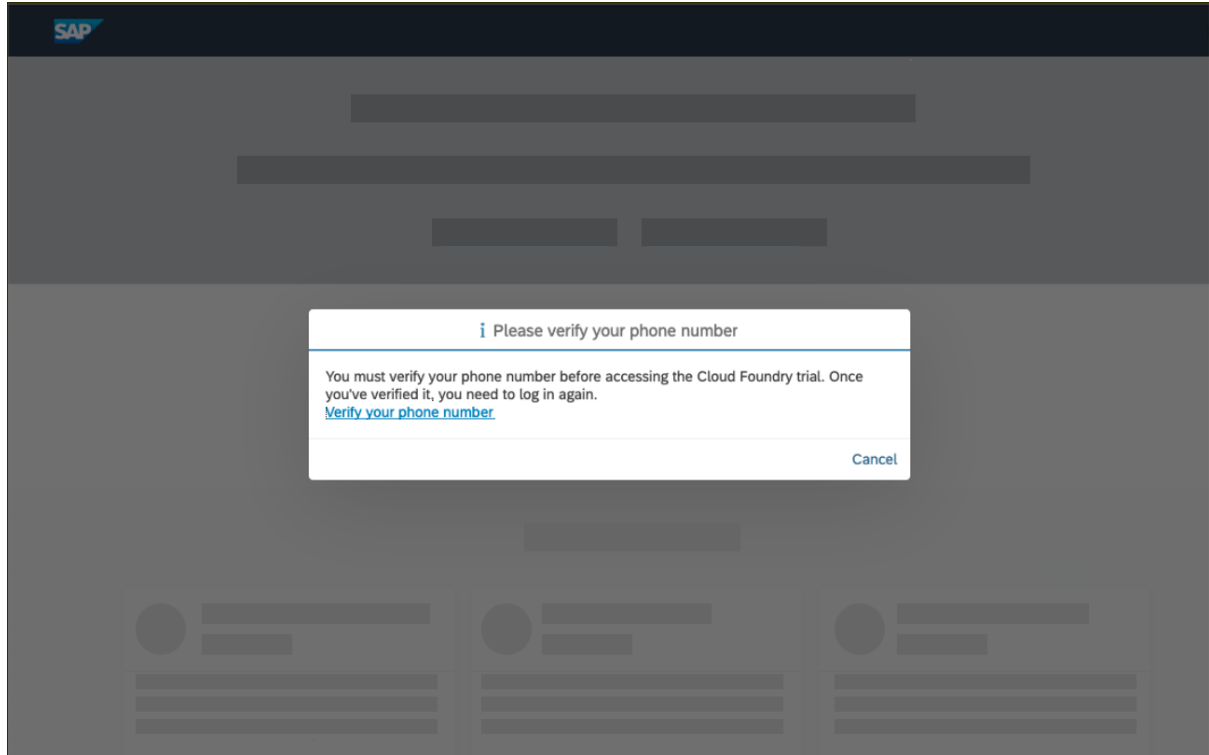
After activation, or if you already have an SAP account, go to the [SAP BTP Trial](#) page and click Log On.

You will see a dialog to confirm the terms and conditions for the SAP BTP Trial. Check the checkboxes and click Accept. This adds the SAP.com registration to your login account on SAP Cloud Identity.

**STEP 5:**

Verify your account.

You will see a message that you need to verify your account with a phone number.  
Click Verify your phone number to trigger that flow.



Enter your phone number and click New Code to retrieve a code.

Please enter this code as well and click Continue to verify your account. After the verification, you will be logged off automatically.

**STEP 6:**

Access the welcome screen.

Click on Log on to log on to your verified account.

You will see one main button on the welcome screen of the SAP BTP Cockpit. Click on Go to Your Trial Account to navigate to your global account.

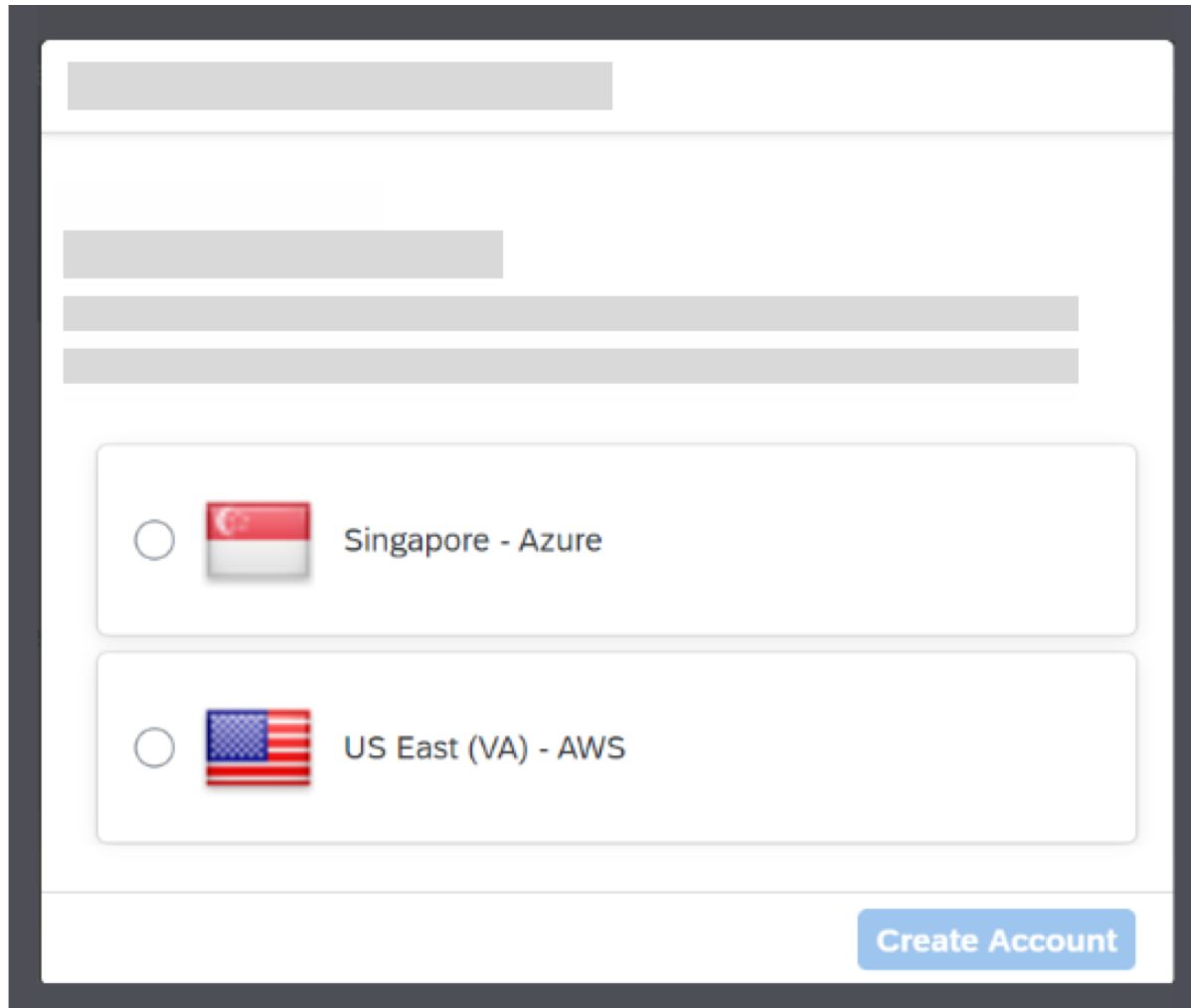
Bookmark the link for fast and quick access to the cockpit.



**STEP 7:**

Navigate to the subaccount.

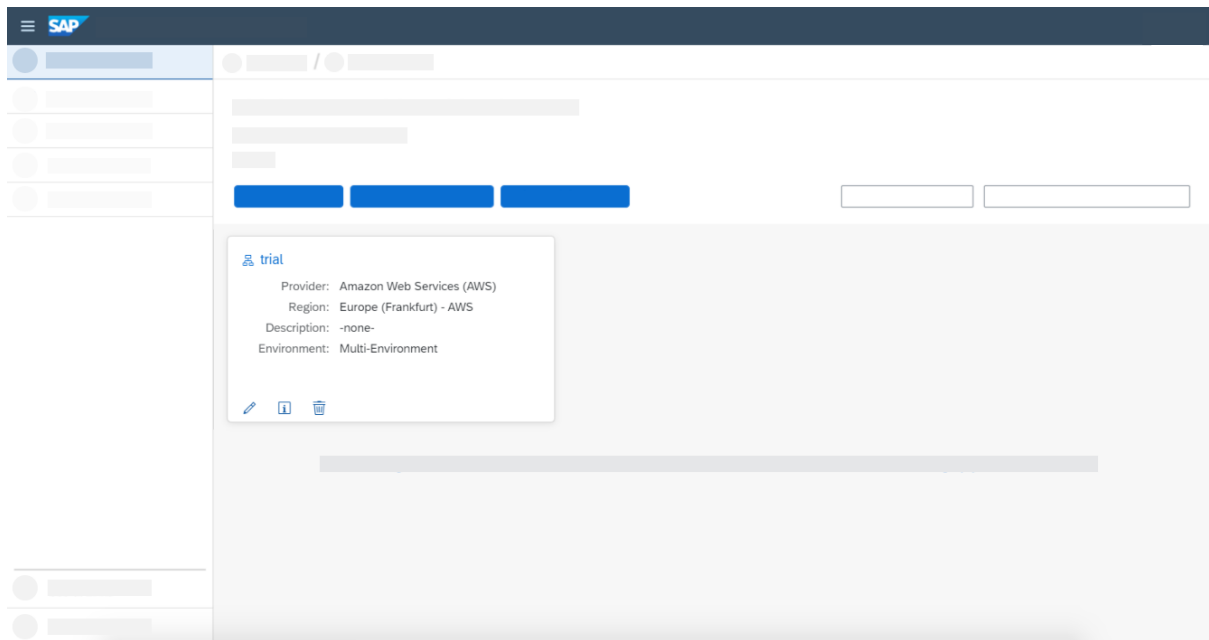
Here, you can now create a subaccount that lives in a geographic region. Choose any region from this list and click Create Account to trigger the provisioning process.



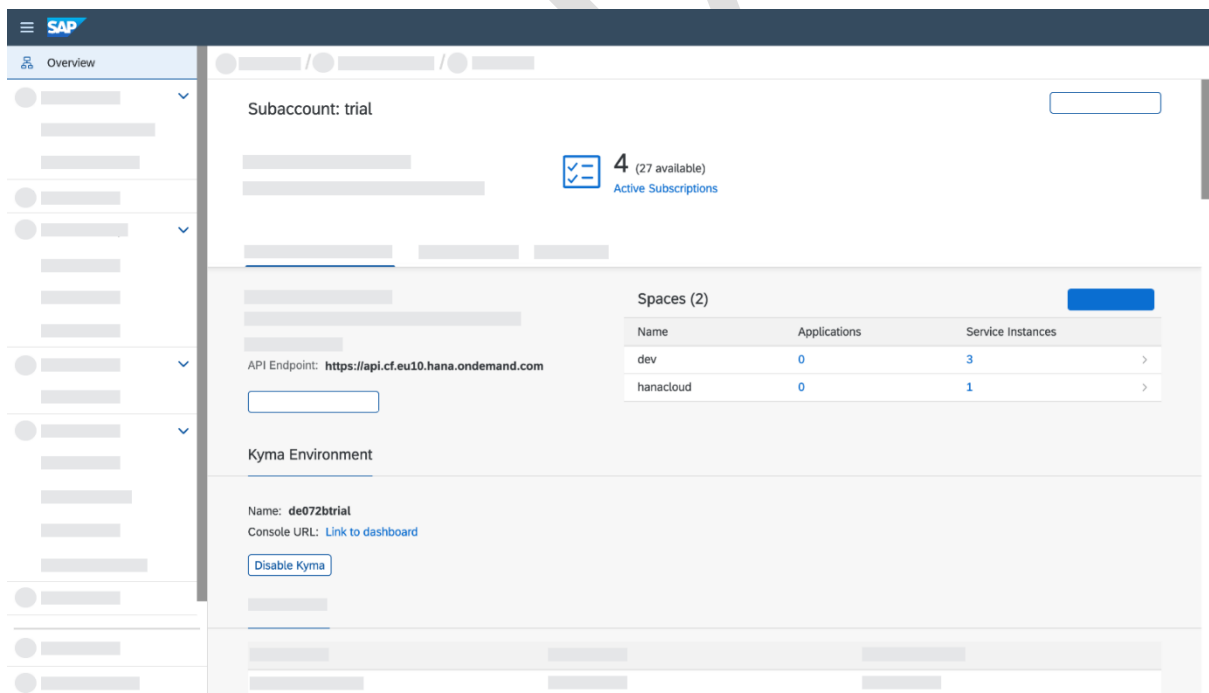
The screenshot shows a web interface for creating a subaccount. At the top, there are several input fields for account details. Below these, there are two radio button options for selecting a geographic region. The first option is 'Singapore - Azure' with a Singapore flag icon. The second option is 'US East (VA) - AWS' with a US flag icon. A blue button labeled 'Create Account' is positioned at the bottom right of the form.

You will then see a dialog box while the account is set up. When complete, click Continue to close the popup and to navigate to the new account.

The global trial account contains one subaccount and space. Navigate to subaccount by clicking on the tile named trial (this name may vary if you created the subaccount manually).



This page will display the current state of the subaccount. You can manage your subscriptions and jump into the different runtime environments. It also shows you fundamental information of the Cloud Foundry environment, such as the API endpoint and the available spaces.

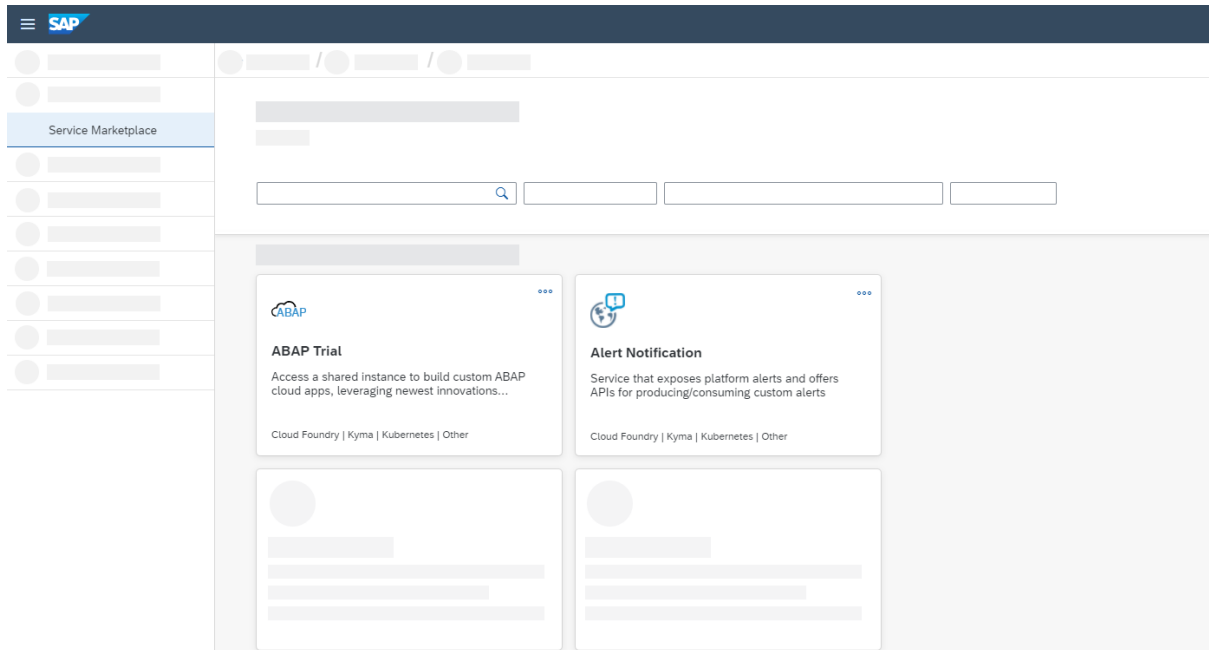




**STEP 8:**

Learn about the service marketplace.

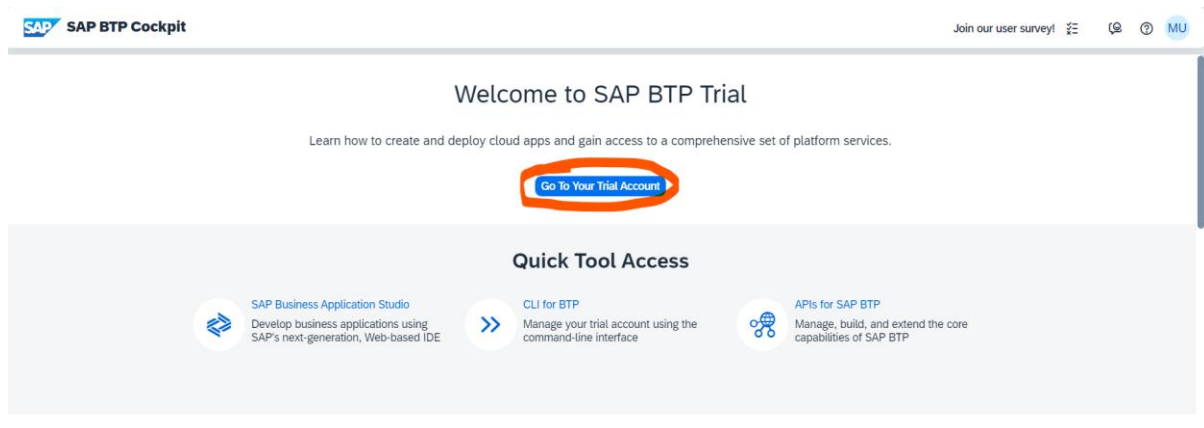
In the service marketplace you can find all services that are available on any of the environments. Select Service Marketplace on the left to see all available services and a filter bar to find the one you are looking for. From here you can specify a service plan to provision service instances.



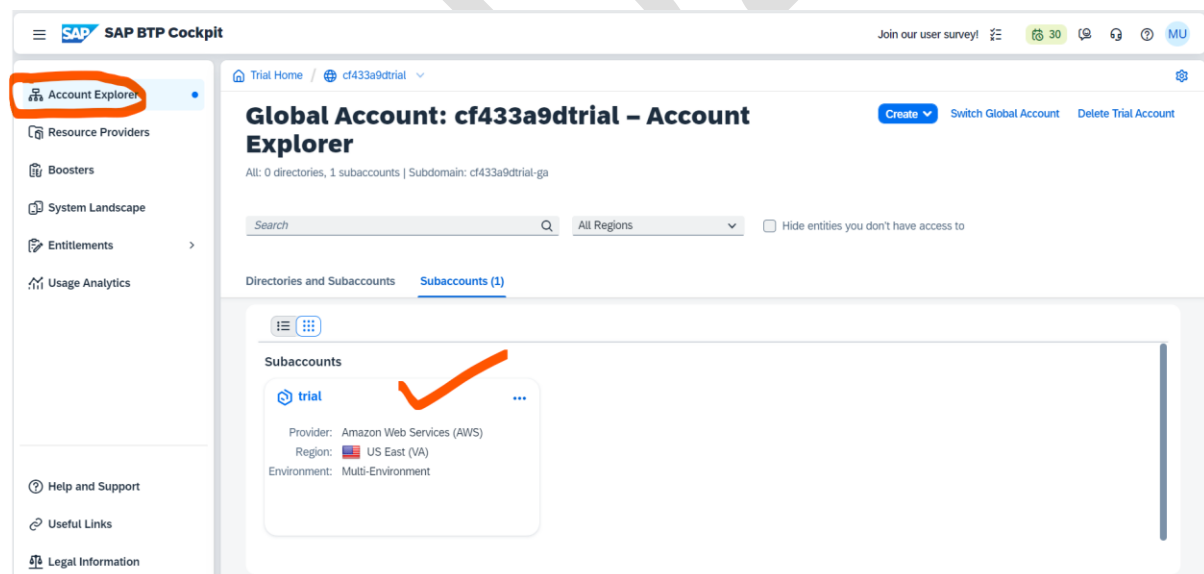
## SAP CPI Tennat Activation

Go to your BTP Trial account page.

<https://account.hanatrial.ondemand.com/trial/#!/home/trial>



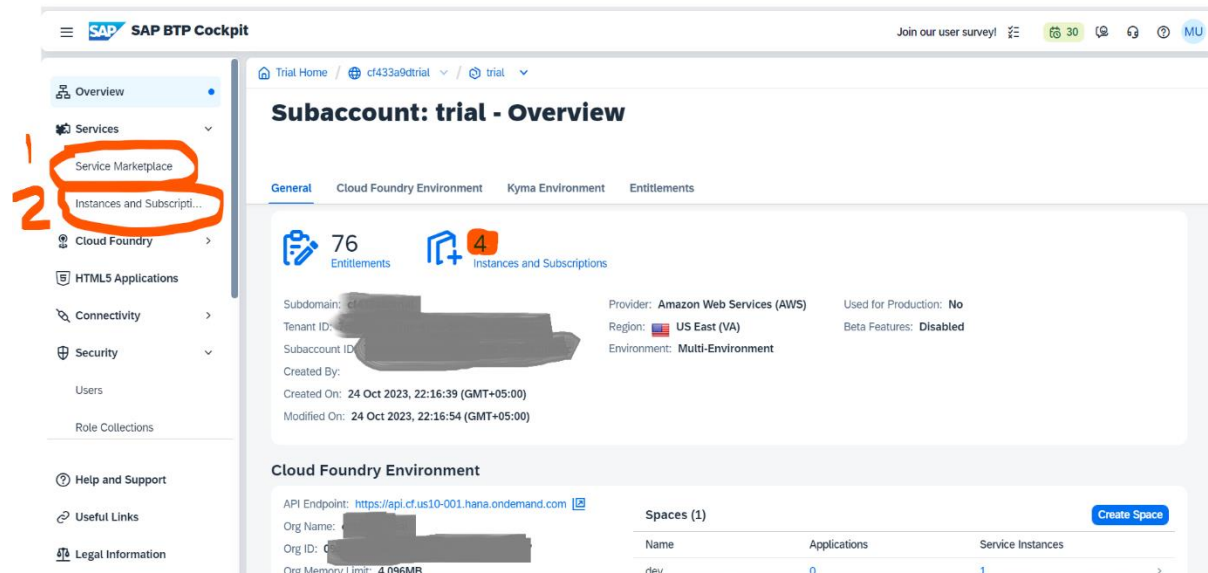
Open the Subaccount that was created in the last steps:



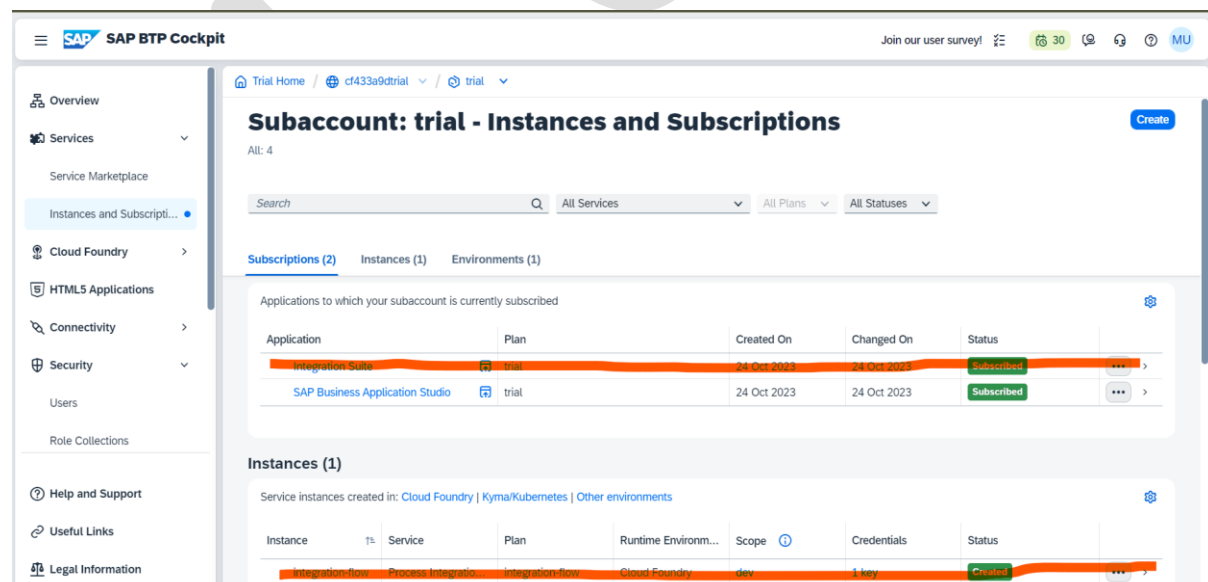
Here are two main options.

- Service marketplace.
- Subscriptions.

I have 4 subscriptions open; they should be open for you after these steps.



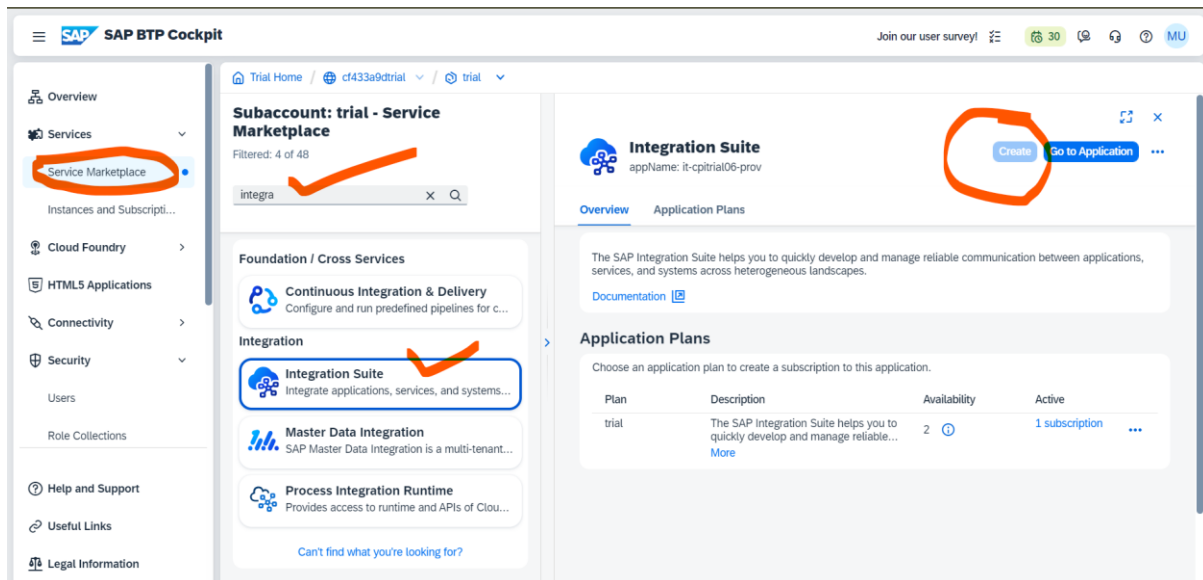
**Note:** We Need these 2 subscriptions others should be activated already:



**Let's subscribe to these one by one.**

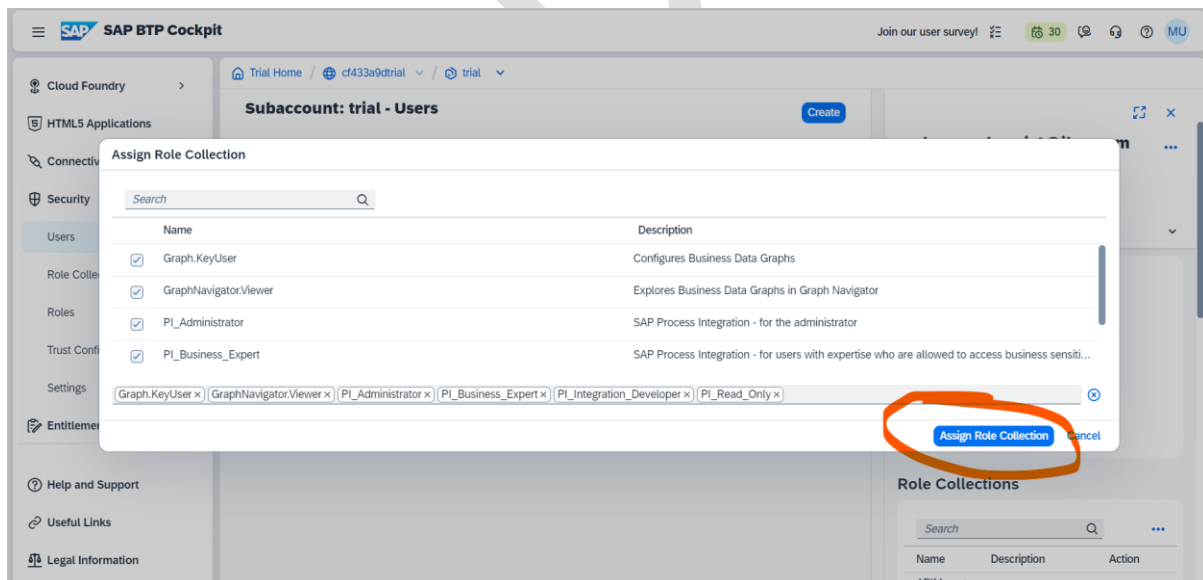
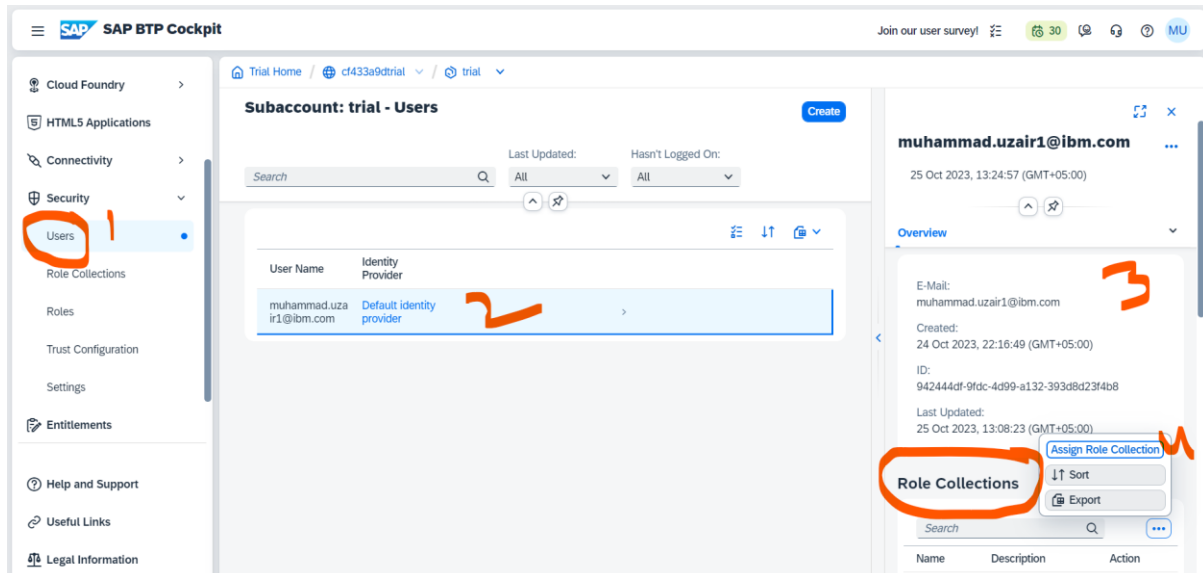
For Integration Suite:

1. Go to Service Marketplace.
2. Write Integration Suite in the search bar.
3. Select the integration suite.
4. Click on the Create button and finish.



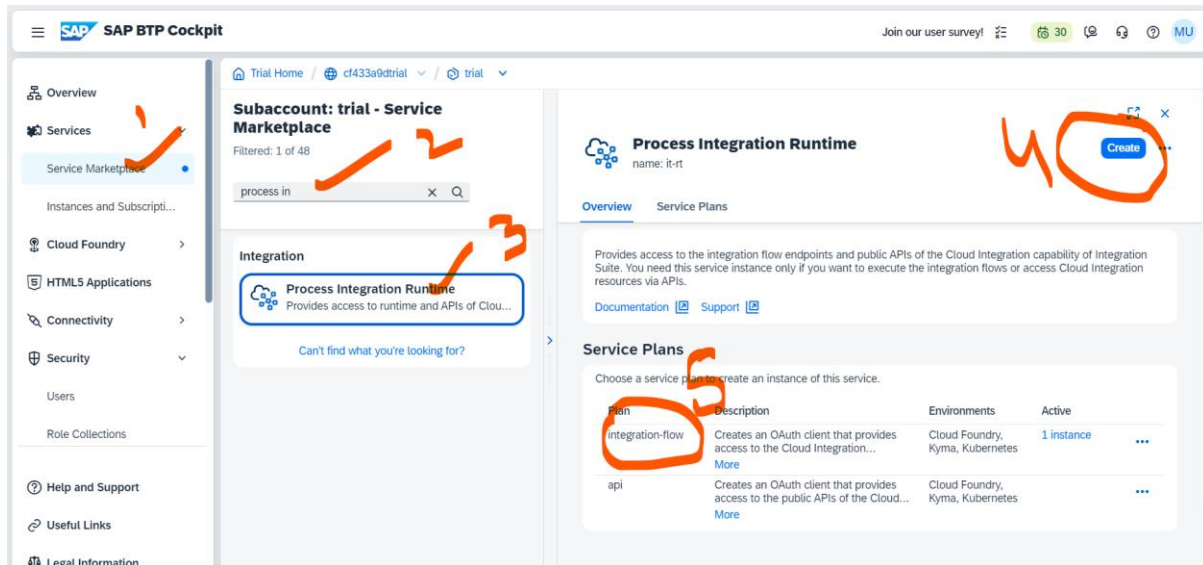
Next, we need to assign roles to the user who will use this application.

1. Go to the security drop-down.
2. Click on users and Select user.
3. Here you can see the role collections bar.
4. Right-click on 3 dots and select assign role collection.
5. Select all the roles and finish.

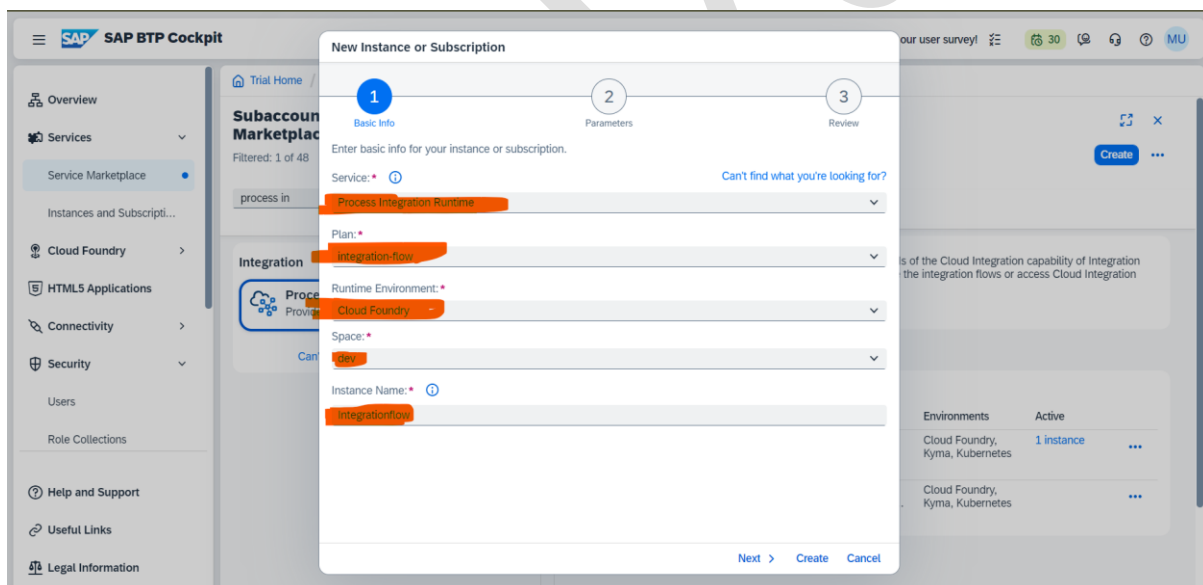


Now, go to the service marketplace again to create the next subscription.

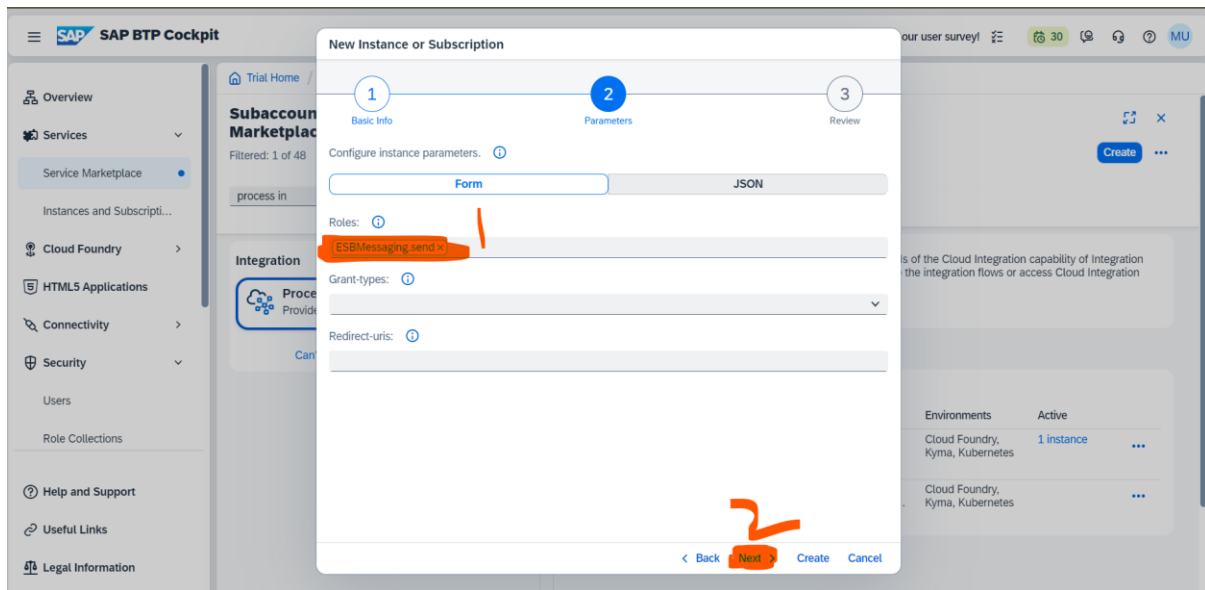
Just click on the Create button.



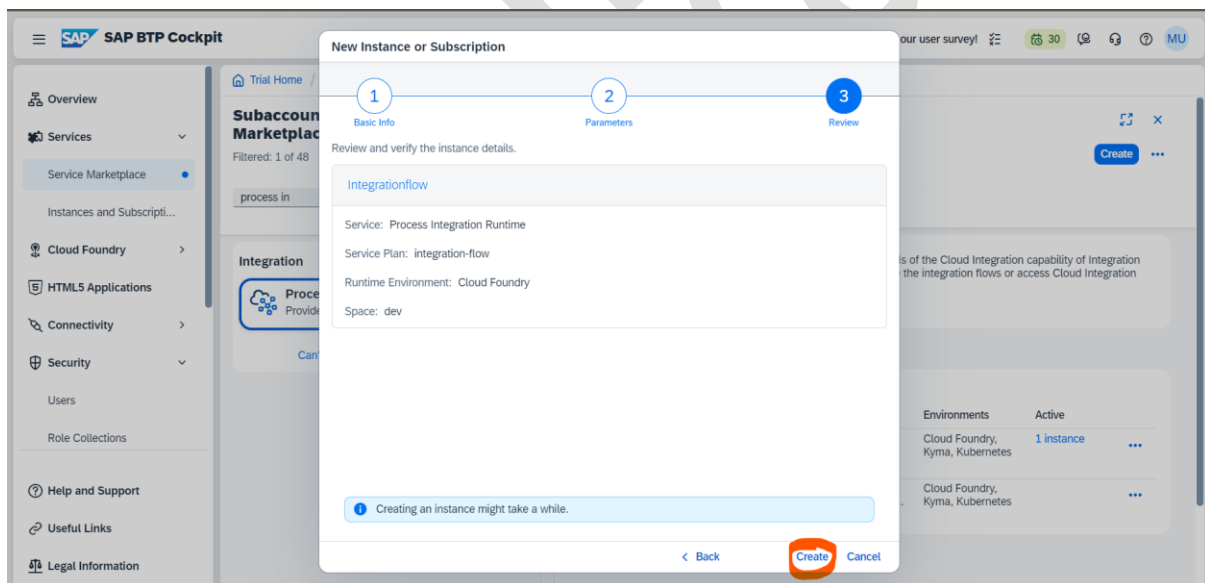
Fill the values like this and click next:



Select only the marked role and click next.



Now, just click on Create button and It's done.





**Again, go to the security drop-down.**

1. Select users.
2. Select the last user to whom you assigned roles.
3. Just go to the roles bar.
4. Click on those three dots and select assign role collection.
5. Now again select all available roles. (Note: These roles can be specific but for now we are selecting all).

After the subscription's additions, it will look like:

The screenshot shows the SAP BTP Cockpit interface for a subaccount named 'trial'. The left sidebar contains navigation links: Overview, Services, Service Marketplace, Instances and Subscriptions (selected), Cloud Foundry, HTML5 Applications, Connectivity, Security, Users, Role Collections, Help and Support, Useful Links, and Legal Information. The main content area is titled 'Subaccount: trial - Instances and Subscriptions' and includes a 'Create' button. Below the title is a search bar and filters for 'All Services', 'All Plans', and 'All Statuses'. The 'Subscriptions (2)' table lists two subscriptions: 'Integration Suite' and 'SAP Business Application Studio', both with a status of 'Subscribed'. The 'Instances (1)' section shows a table with one instance: 'Integration-flow' with a status of 'Created'. The 'Environments (1)' section is partially visible at the bottom.

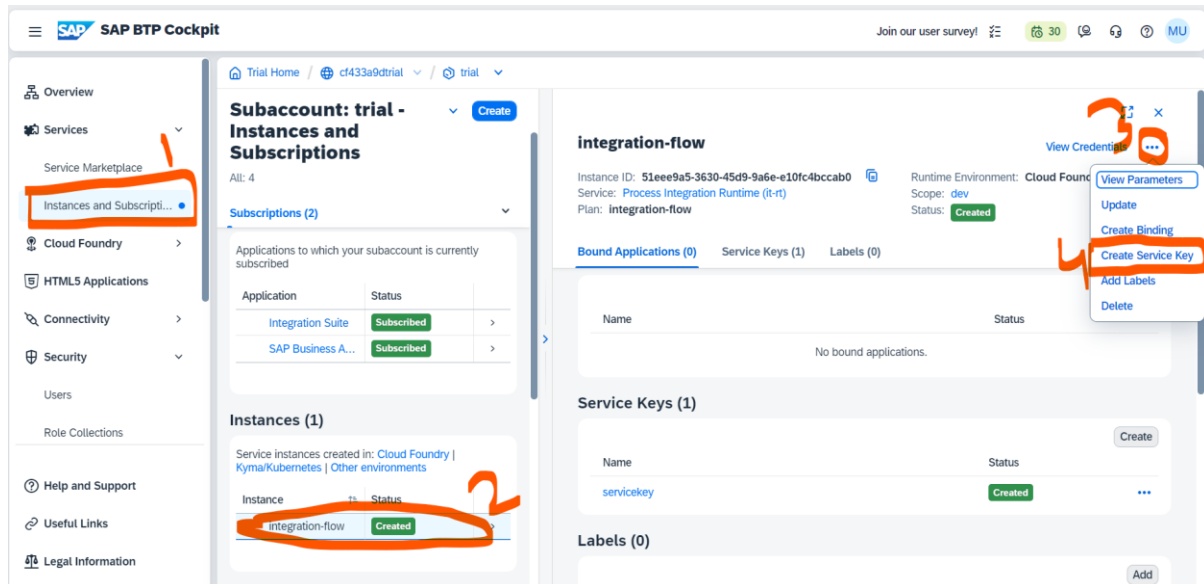
Subscription	Plan	Created	Status
Integration Suite	trial	24 Oct 2023	Subscribed
SAP Business Application Studio	trial	24 Oct 2023	Subscribed

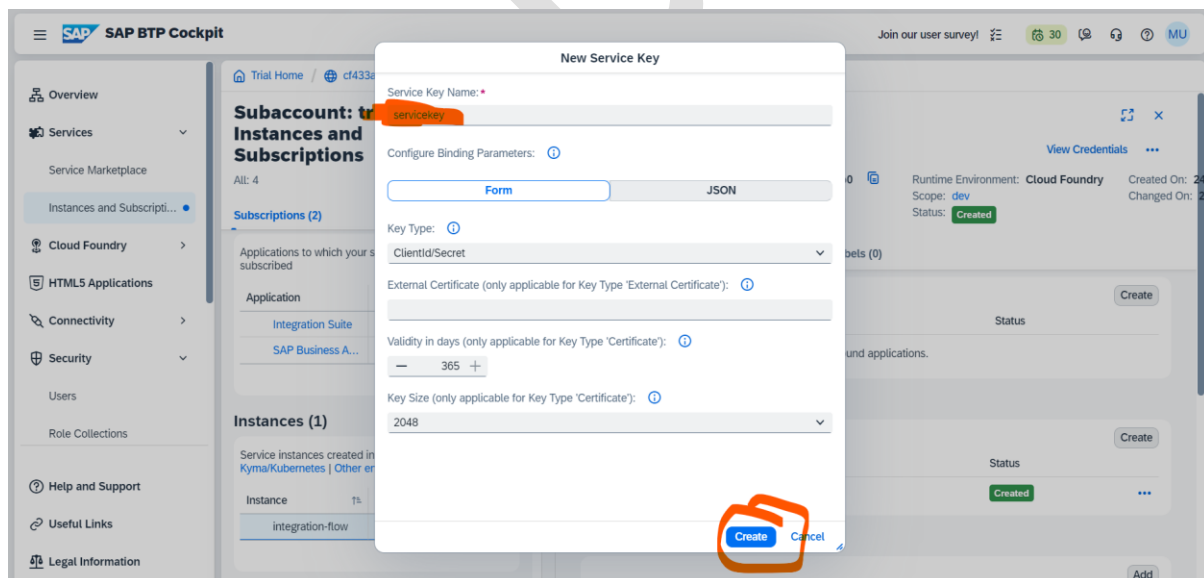
Instance	Service	Plan	Runtime Environm...	Scope	Credentials	Status
Integration-flow	Process Integratio...	Integration-flow	Cloud Foundry	dev	1 key	Created

Now, Follow these steps:

1. Select your subscription Integration Flow.
2. Click on three dots at top point # 3.
3. Select Create Service Key.



Write the name same as the servicekey and click Create:

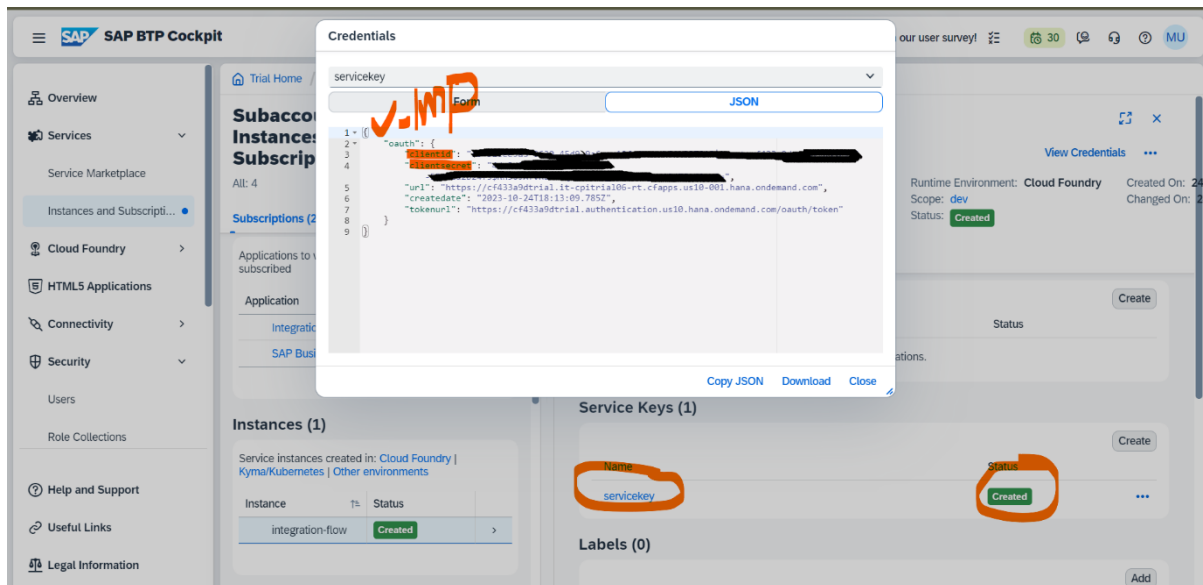


Now, go to the three dots in front of servicekey and select view:

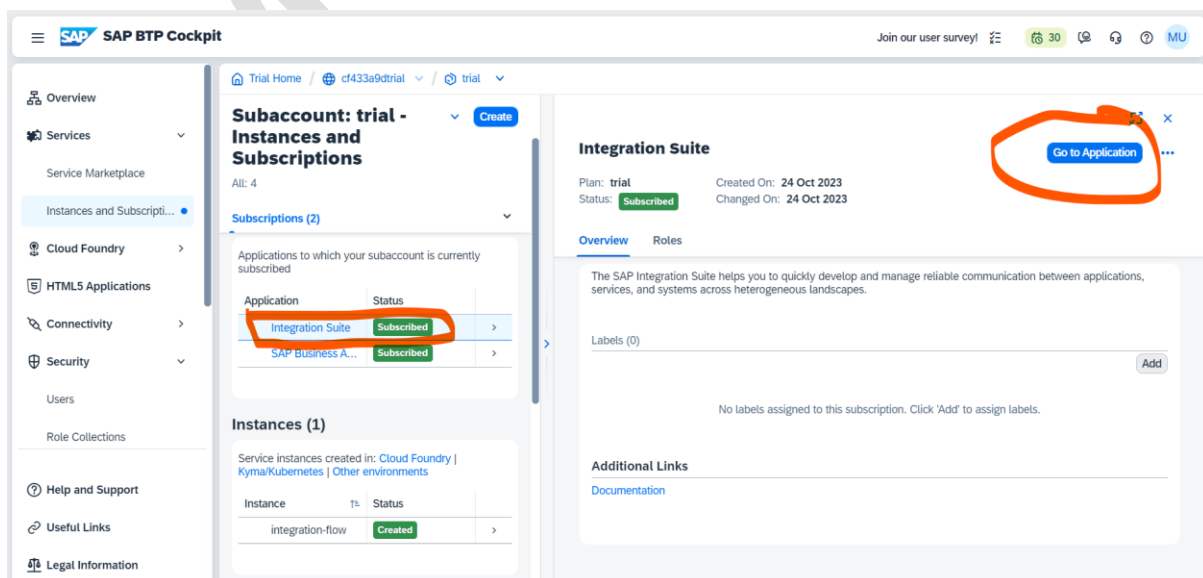
Here are two very important things available.

- "clientid"
- "clientsecret"

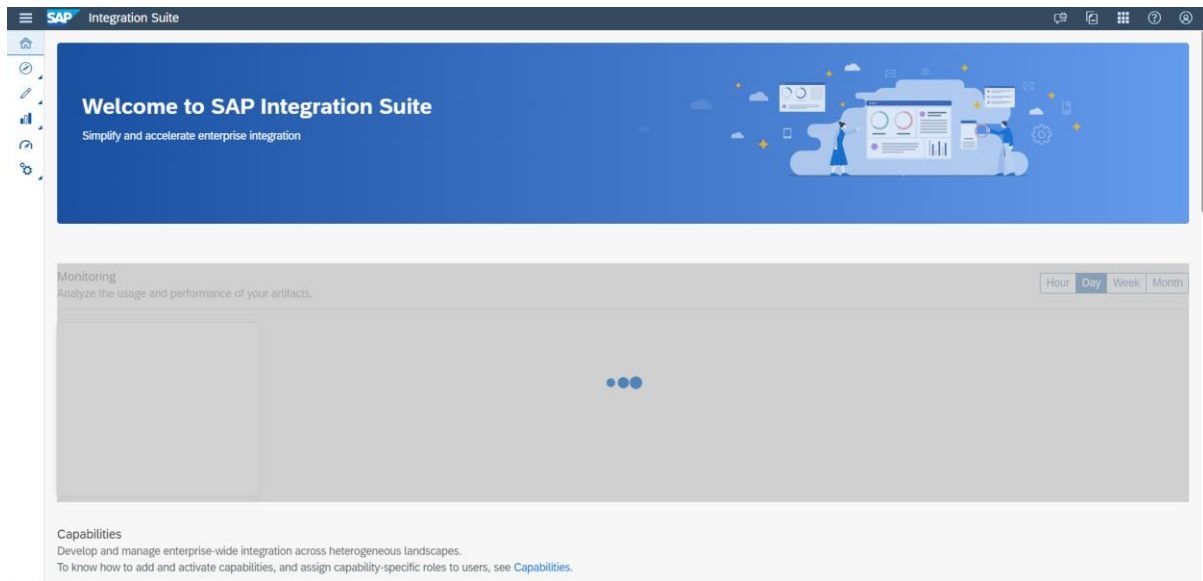
Here the tunnel is created. Client ID and client secret are different for each system. I am hiding it as it's critical information.



Now click on Integration Suite and click on Go to application:



It will be redirected to a new window:

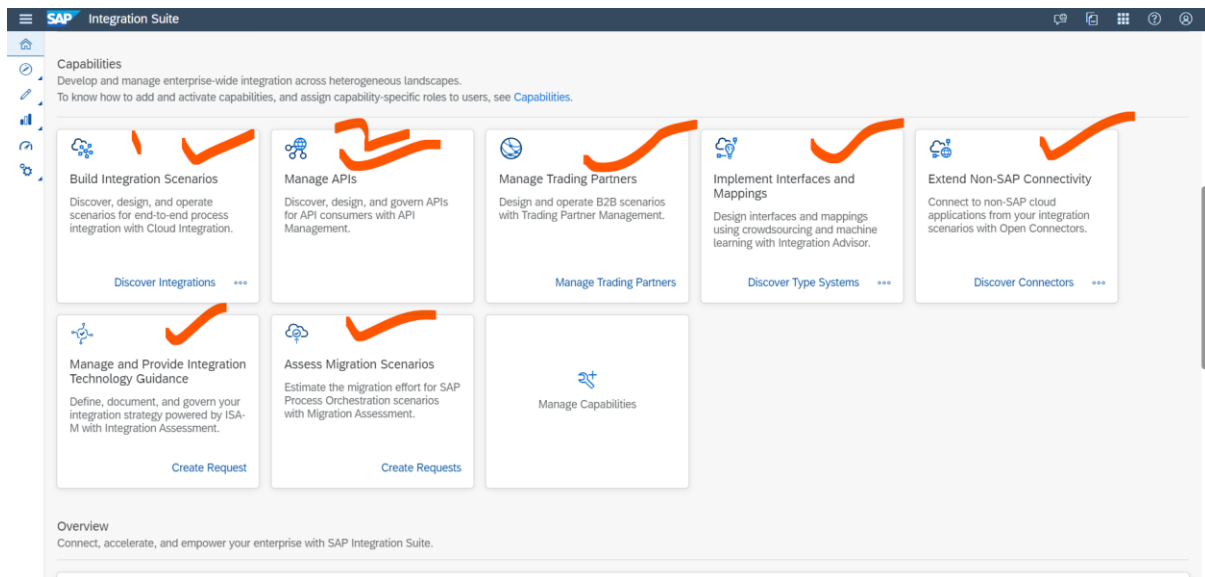


Here you can see all the buttons for CPI development.

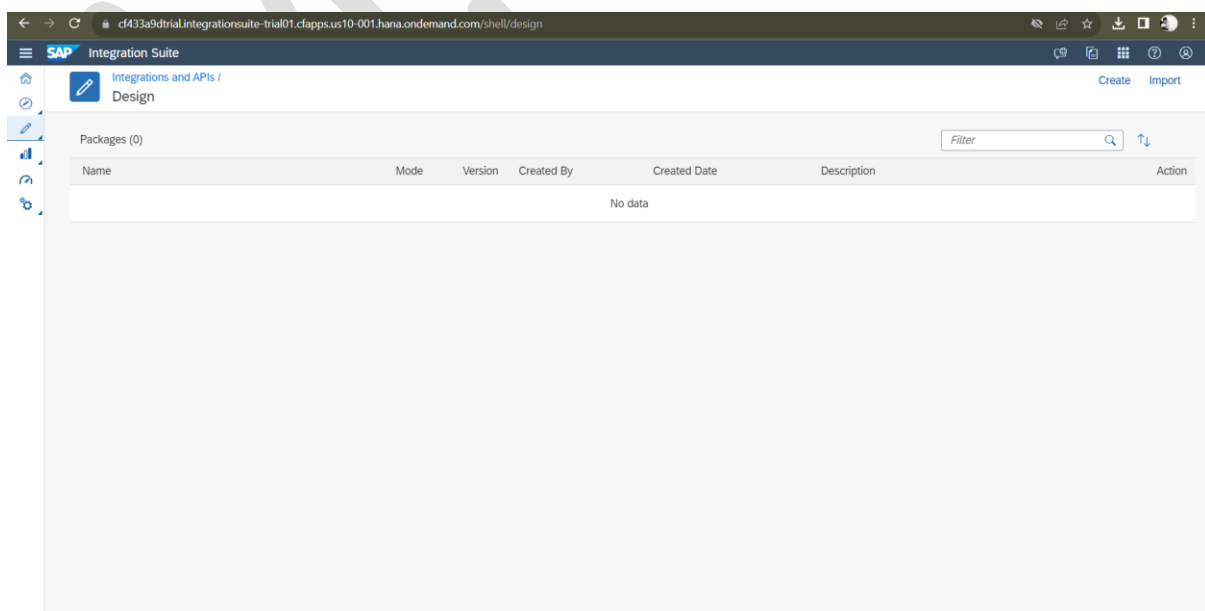
**Note:**

If you don't see the left bar for all buttons available, then click on the add capabilities or just capabilities button.

Here you have to select all options. Most important are 1 and 2 mentioned in the image.



When you click on Pencil Icon, you will see a page like this. Here you can create packages and I-flows.



**Finally, our SAP CPI Tennat is created and now we can use our Integration Suite Trial Account for the practice.**

