Exercise 0.2 - Configure Key Value Maps and Policy Template

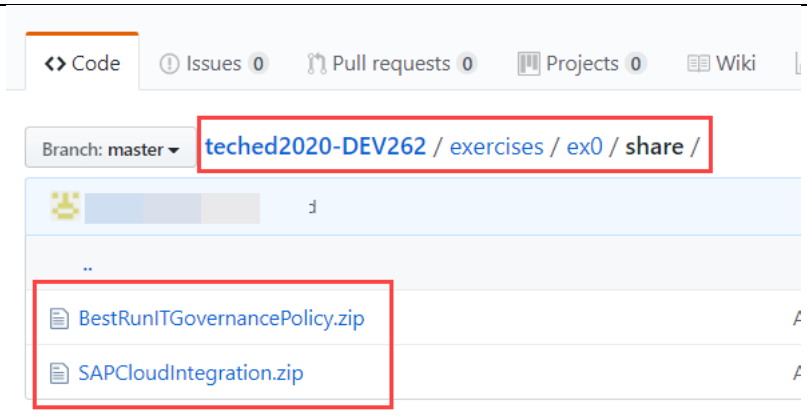
Overview

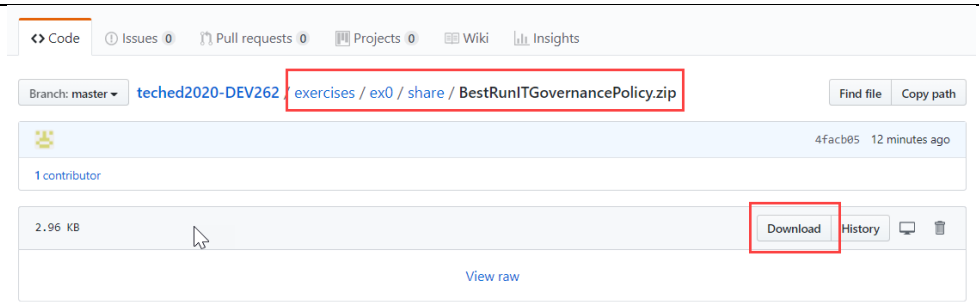
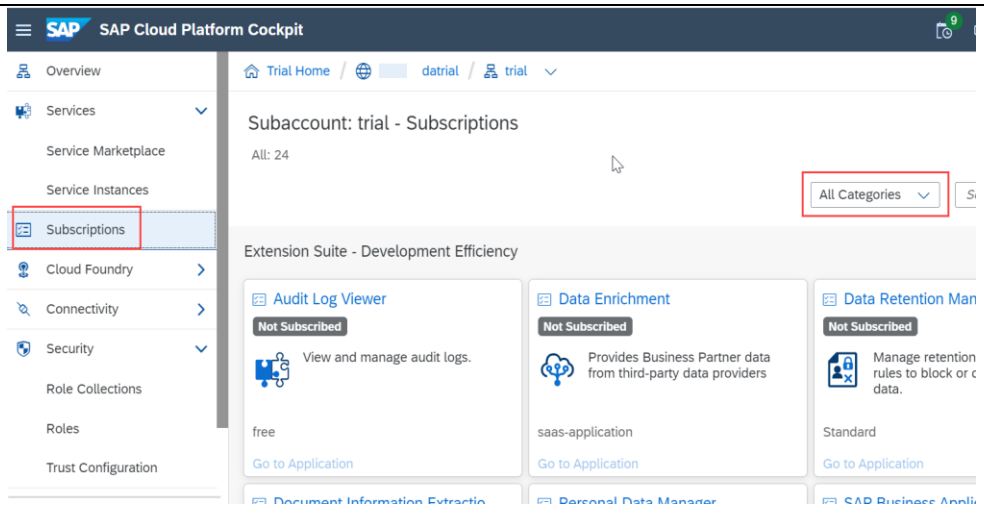
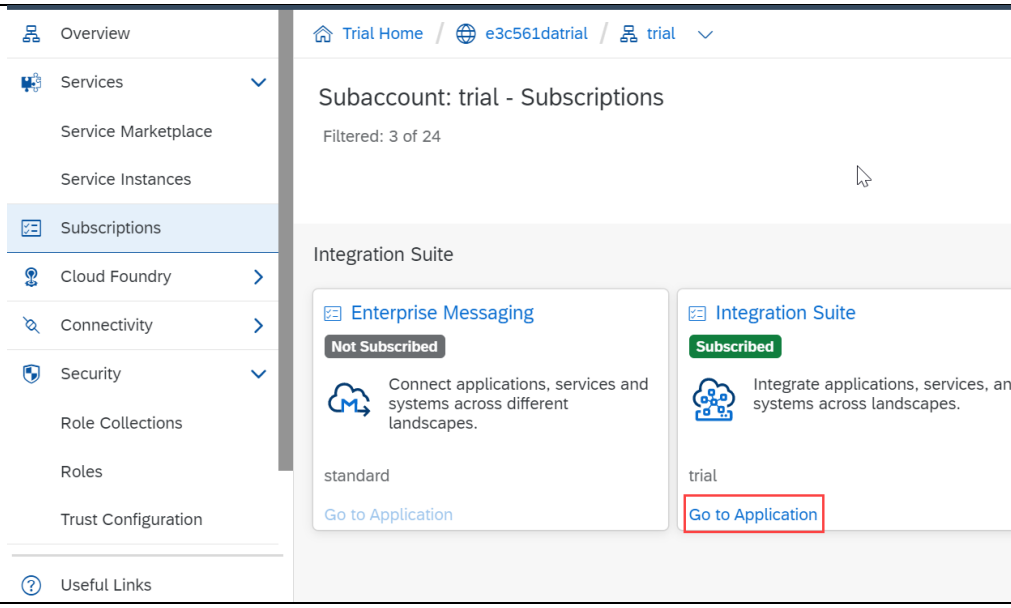
BestRun AG would like to collaborate with their customers, partners, developers and help promote co-innovation among employees, partners, and the developer community. To provide a secure access to their APIs and processes, the IT team of BestRun AG has come up with their own API access governance policy. Instead of directly sharing the credentials of their non SAP-CRM system or their SAP Cloud Platform Integration with their application developers and partners, IT team of BestRun AG would be governing the access via verify API keys generated by SAP Cloud Platform API Management and applying the rate limiting policies like Quota, Spike.

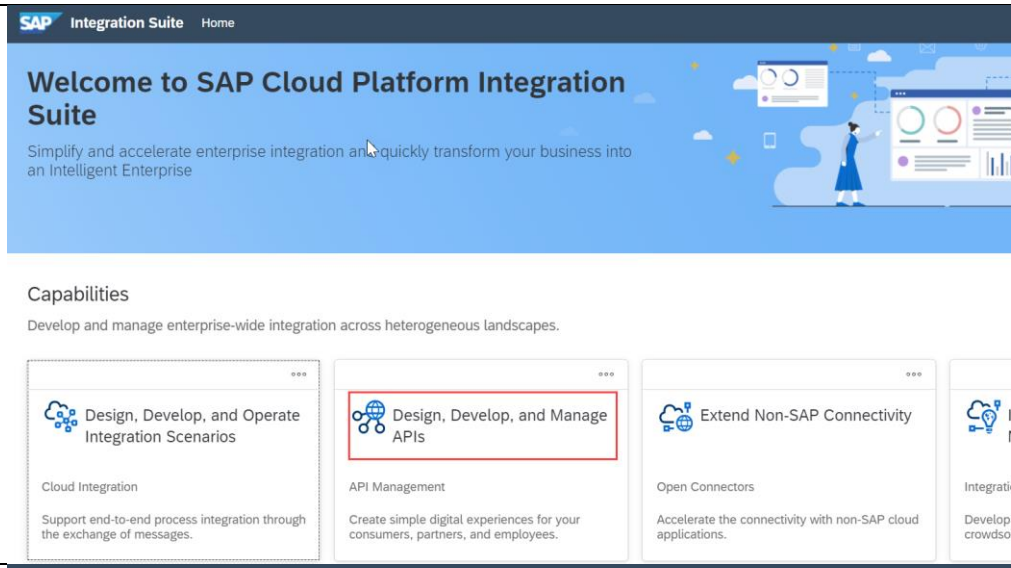
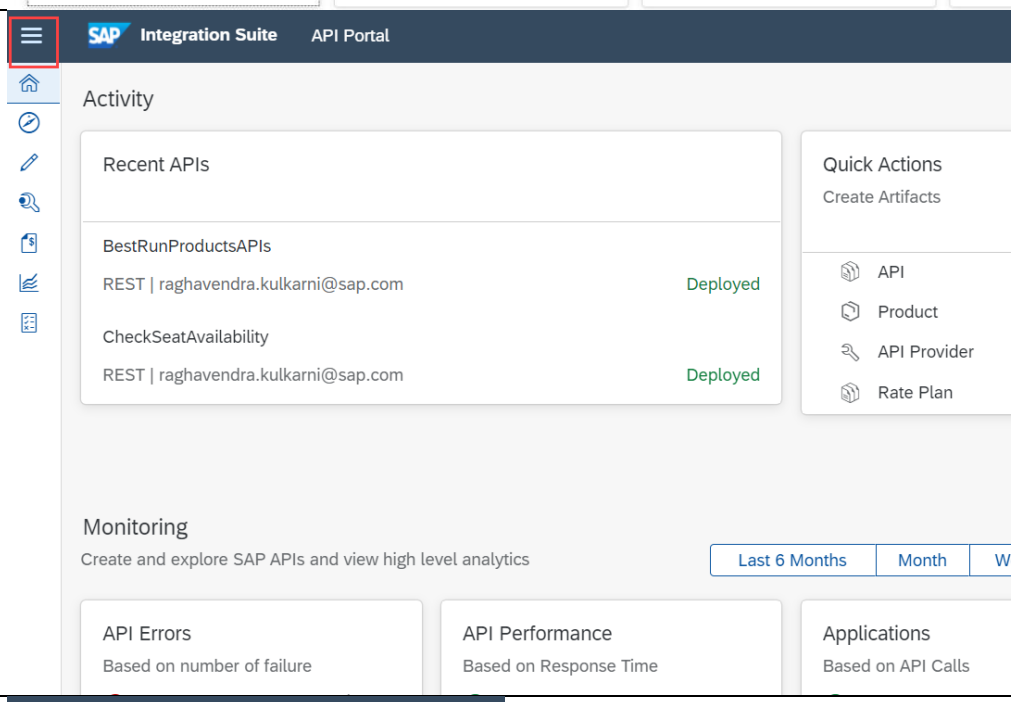
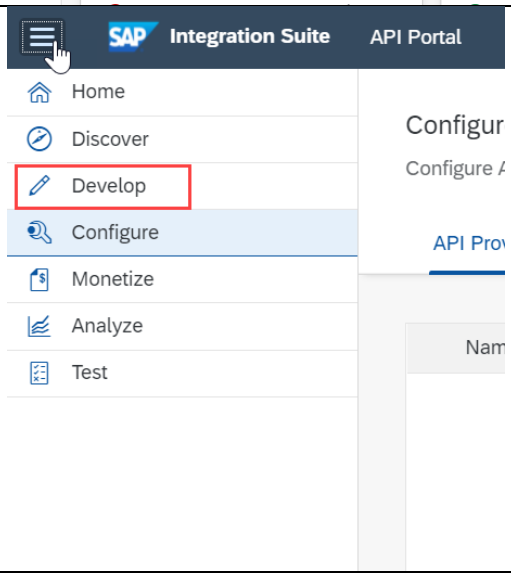
IT team of BestRun AG have modeled their API policies as an IT corporate policy templates and they would be using the encrypted Key Value map configuration of SAP Cloud Platform API Management to securely store the user credentials to connect to their target backend service

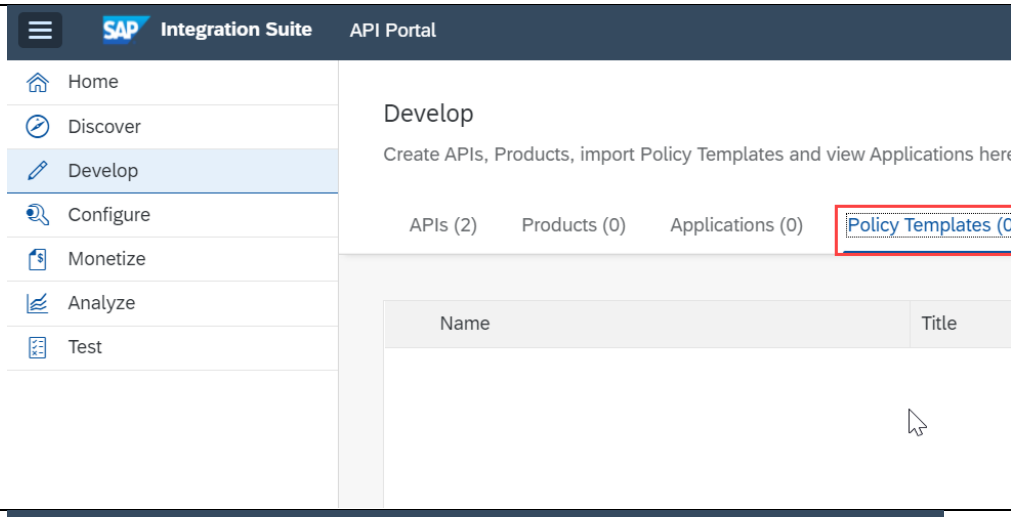
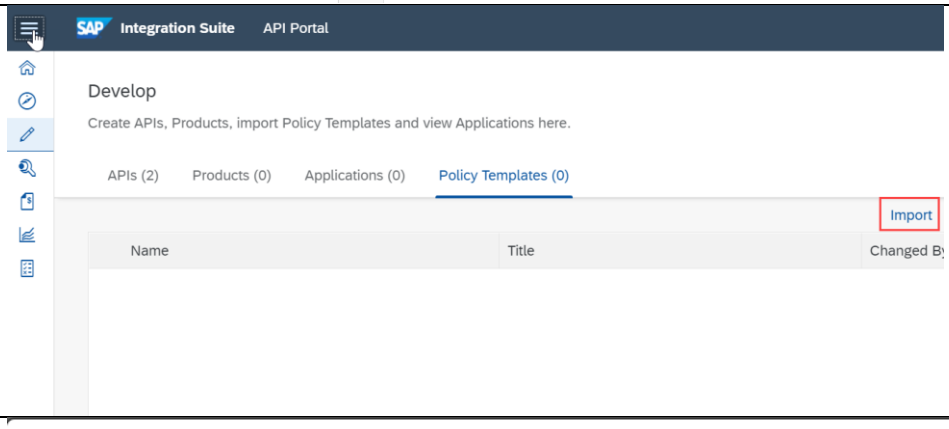
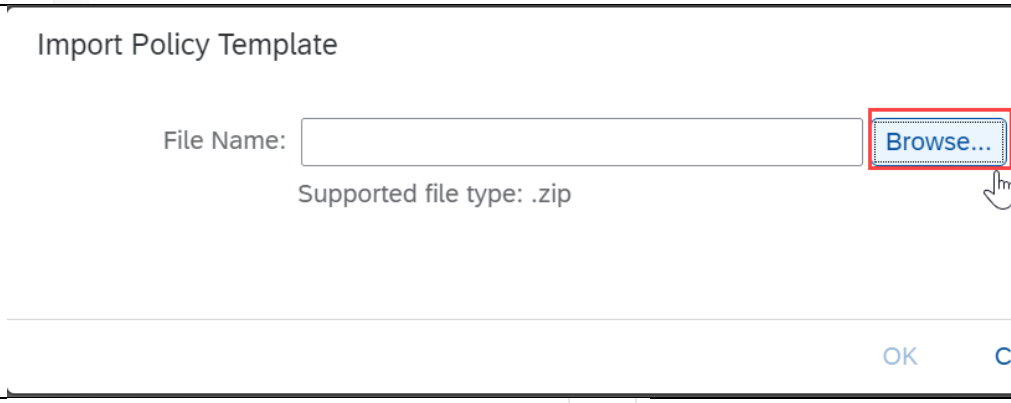
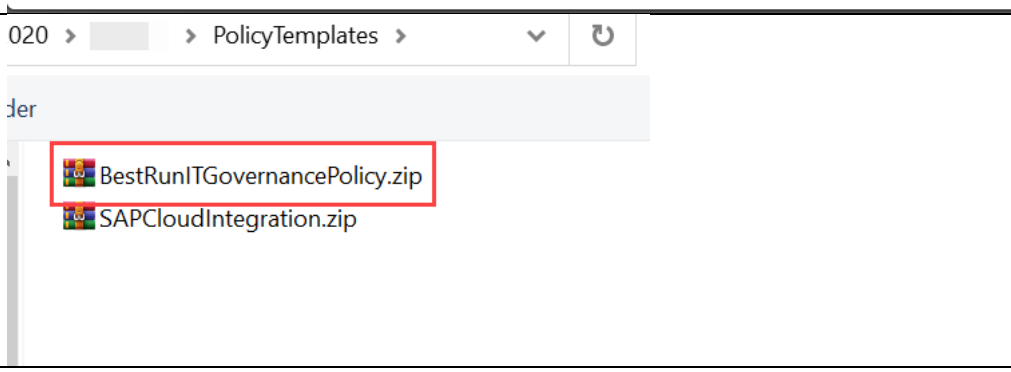
In this exercise you will configure the following for the IT team of BestRun AG

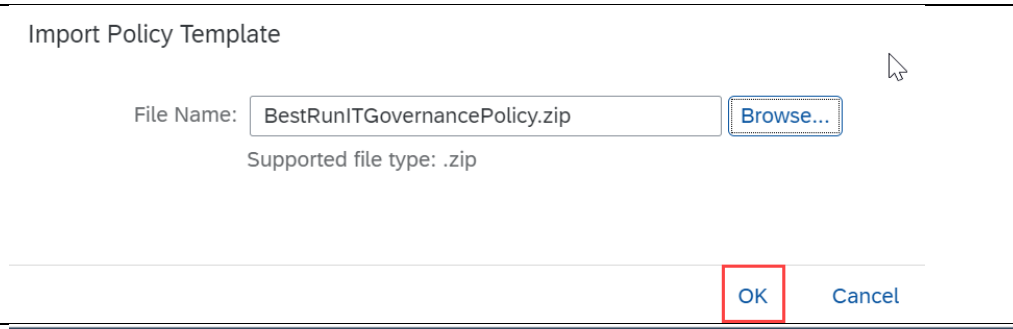
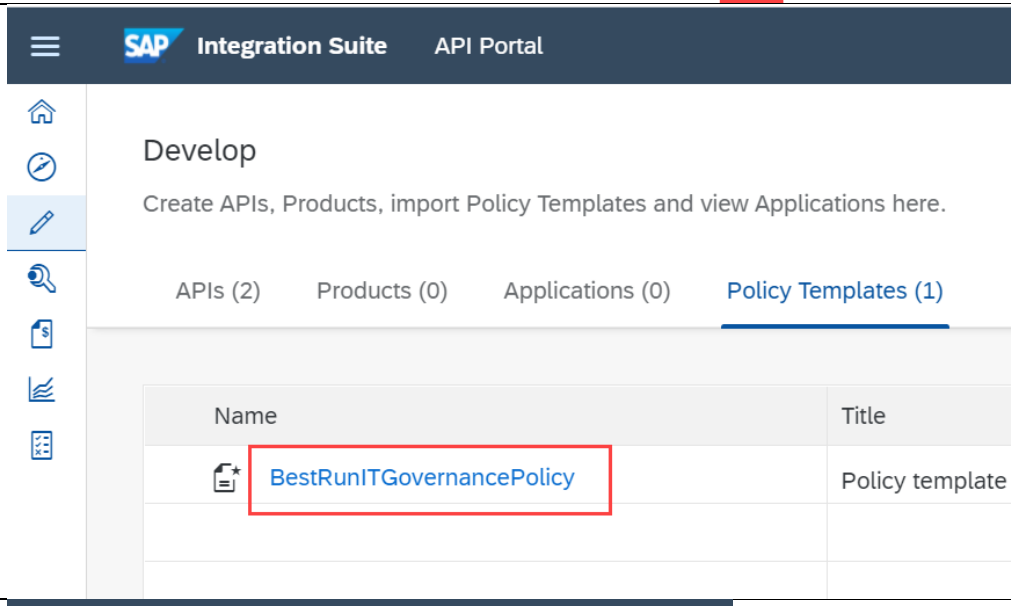
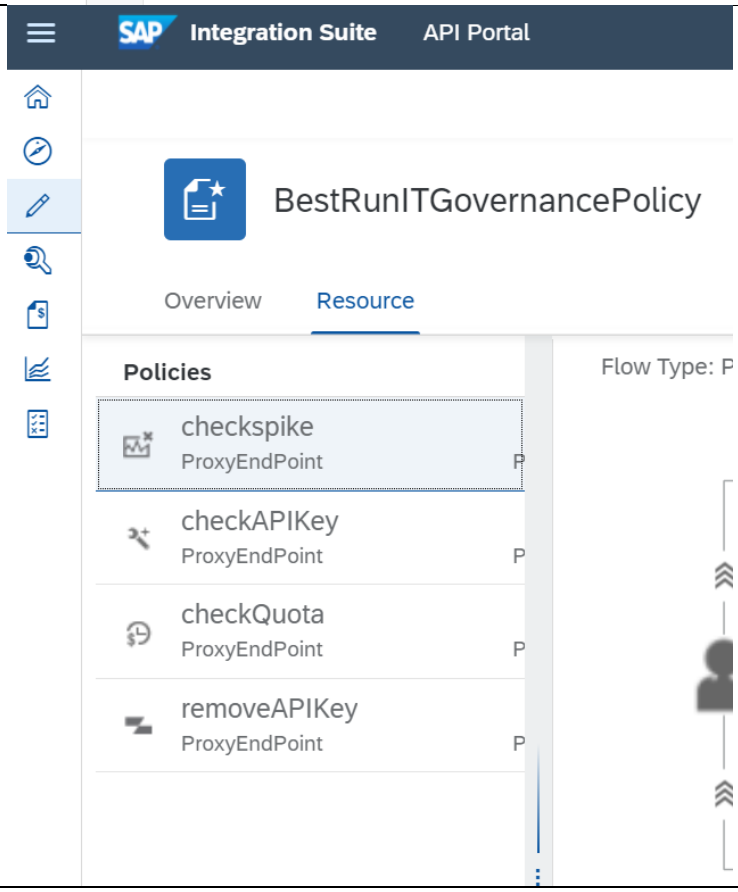
1. *Upload the policy templates created by BestRun IT team into SAP Cloud Platform API Management*
2. *Create encrypted key value map to securely store credentials of their target system*

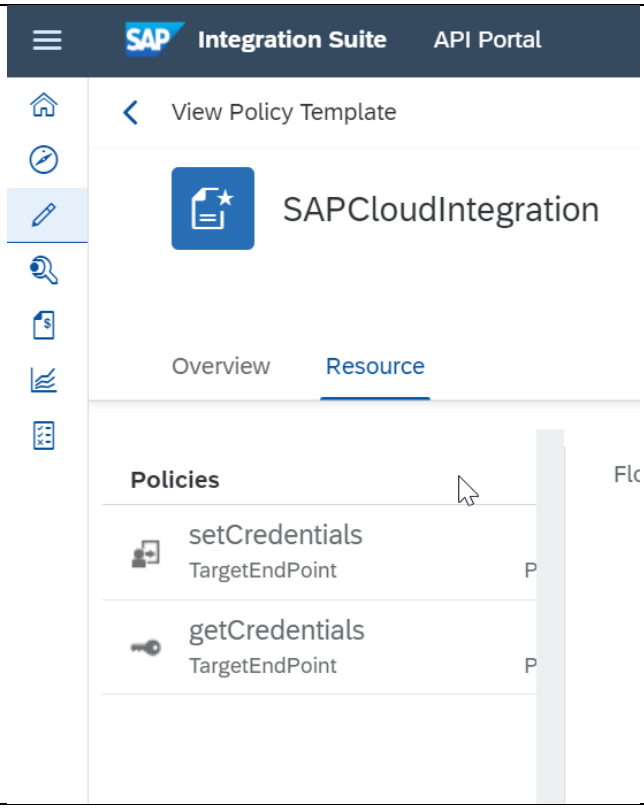
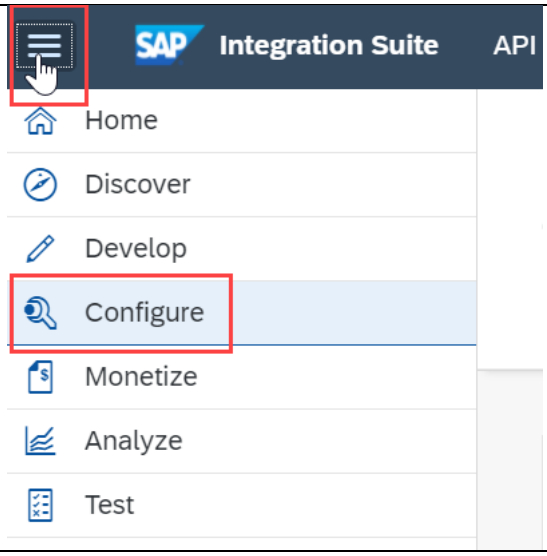
Step	Explanation	Screenshot
1	The IT team of BestRun AG has placed all the necessary policy templates, images and API Definitions that you will need in your exercise in the in the GitHub **share** folder.	

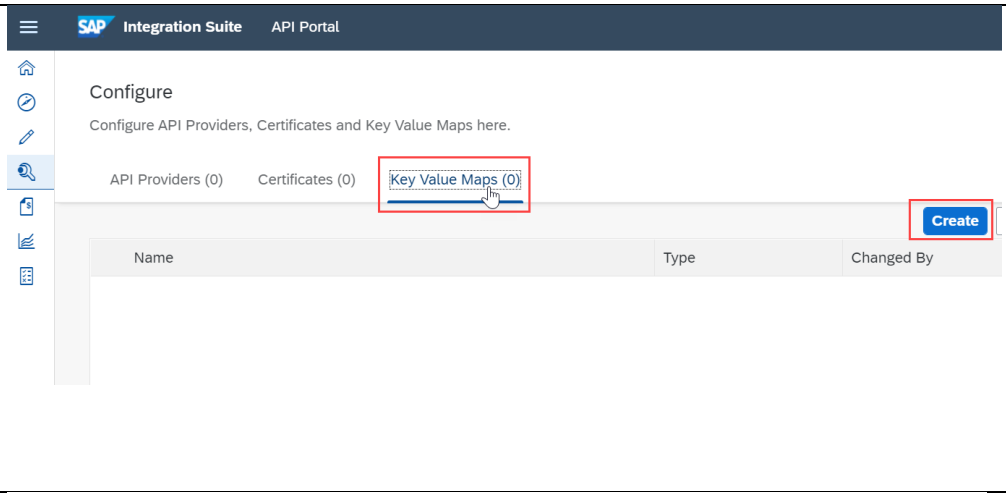
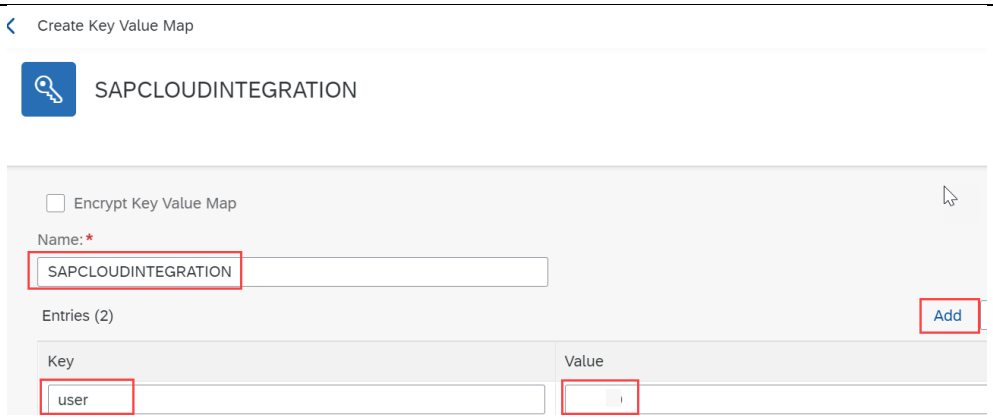
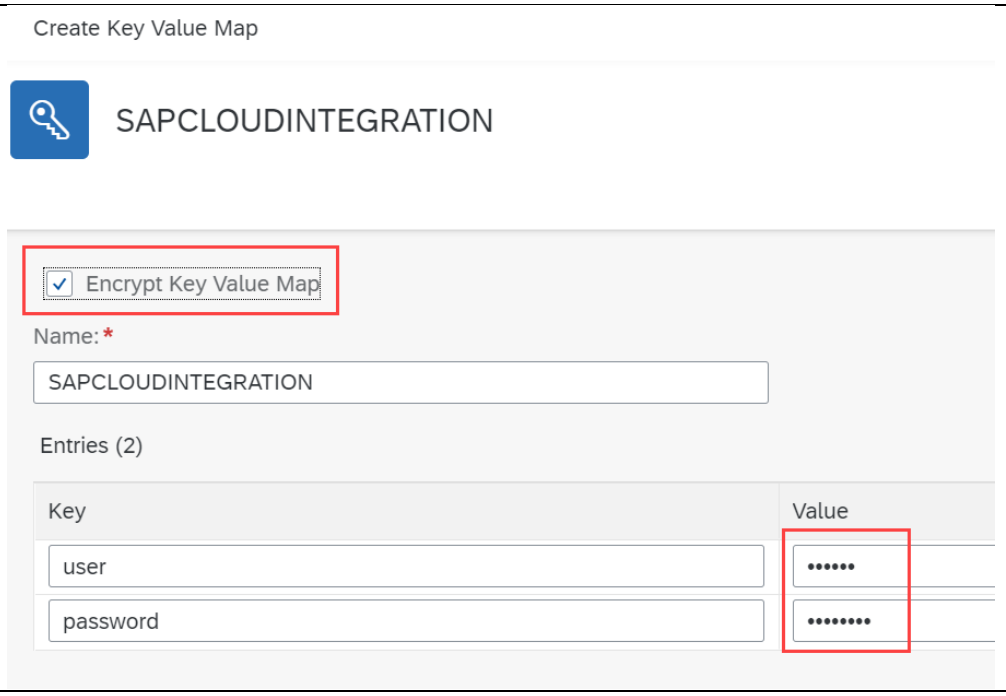
2.	To download the policy template built by BestRun IT team, select the zip file & then click on Download. Similarly download the other policy template. Downloaded policy templates helps to securely connect to SAP Cloud Platform Integration APIs and the BestRun IT governance policies	 x
3.	The policy templates from IT team of BestRun AG, would have to be imported into SAP Cloud Platform API Management To import the policy template to your **SAP Cloud Platform API Management**, log on to the CF Trial account cockpit and click on Subscriptions Click on All Categories to select Integration Suite	
4	Integration Suite tile is displayed, click Go to Application to launch Integration Suite	

5	In the **Integration Suite Launchpad,** select the capability Design, Develop, and Manage APIs	
6	APIPortal is launched, click on  to expand menu items tab	
7	Navigate to Develop tab, to import policy templates Click on Develop	

8	Click Policy Templates to navigate to the Policy templates section.	
9	Click on Import to import BestRun AG built policy templates	
10	Click on Browse... to select the downloaded policy template to be imported in your SAP Cloud Platform API Portal.	
11	From file select dialog, select the folder path here you had downloaded policy template Select the policy template BestRunITGovernancePolicy.zip	

12	Click on OK to import the selected policy templates	
13	Policy template BestRunITGovernancePolicy is imported in your SAP Cloud Platform APIPortal Repeat the steps to import SAPCloudIntegration.zip policy templates	
14	Now Click on BestRunITGovernancePolicy to view the policy template. All the policies which are part of policy templates are shown under section Policies. The **BestRunITGovernance** policy template consists of *Verify API Key, Quota, Spike Arrest policy*. As a best practice, the API Key passed from the consumer client application is removed as the API Key generated by SAP Cloud Platform API Management need not be passed to the target backend service. Removal of API Key is done through removeAPIKey policy (which is of type AssignMessagepolicy)	

15	Click on SAPCloudIntegration to view the policy template This policy templates consist of a Key Value Map policy to read user and password stored in the Key Value map named SAPCLOUDINTEGRATION (getCredentials policy) and Basic Authentication policy to connect to the target backend server using Basic Authentication (setCredentials policy	
	Congratulations!, you have successfully imported the policy templates from IT team of BestRun AG into Platform API Management	
16	To Create Key Value map for SAP Cloud Platform Integration, Click  to view all Menu tabs and select  You can create API Providers, Manage your certificates and Key Value maps from Configure tab	

17	Click Key Value Maps (0) to navigate to Key Value maps tab, and now Click Create to create a new Key Value Map A key value map lets you create and manage collections of arbitrary key value pairs for any number of API proxies. Each key value pair is stored in a map as an entry	
18	The Name of the Key Value Map is used as the MapIdentifier in the Key Value Maps policy to read the value in the API Proxy execution In the SAP Cloud Platform Integration Credentials policy template the MapIdentifier is **SAPCLOUDINTEGRATION**. So Enter **SAPCLOUDINTEGRATION** in the Name text field Enter **user** in the Key text field. Enter **user10** in the Value text field	
19	Click Add to add more Entries in the Key Value Map named SAPCLOUDINTEGRATION Enter **password** in the Key text field. Enter **Welcome01** in the Value text field Click on Encrypt Key Value Map to securely store the credentials, the key value map will be encrypted.	

20	Click Save to persist all changes.	
	Congratulations, you have successfully created a Key Value map named SAPCLOUDINTEGRATION to securely store the technical user credentials to connect to SAP Cloud Platform Integration.	

Continue to [Exercise 1.1 - Manage your microservice built using SAP Cloud Application Programming]