Exercise 4.3 Consuming you APIs from Developer Portal

Overview:

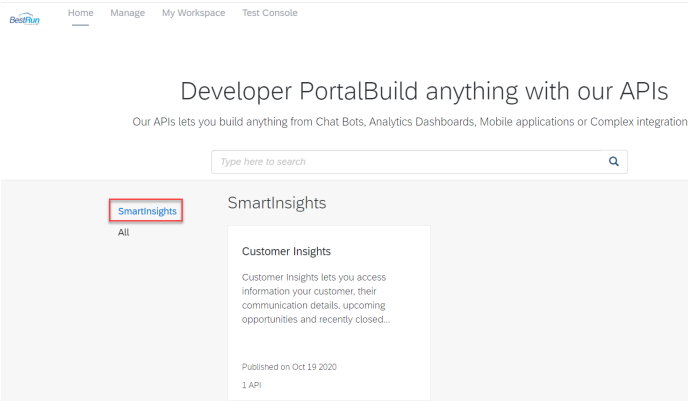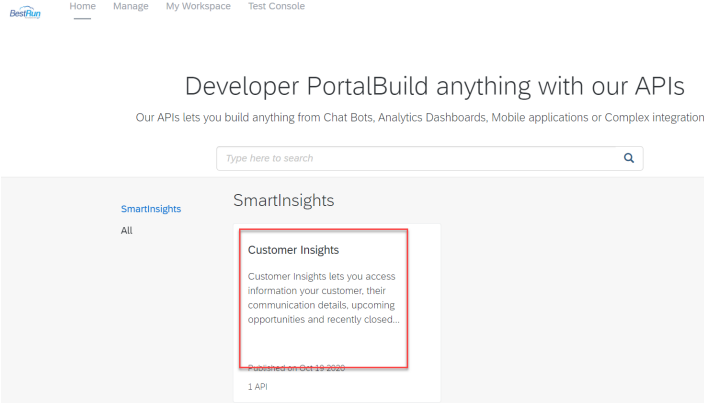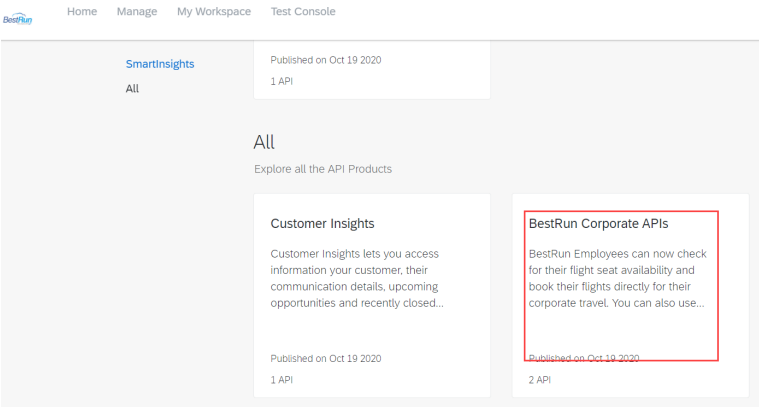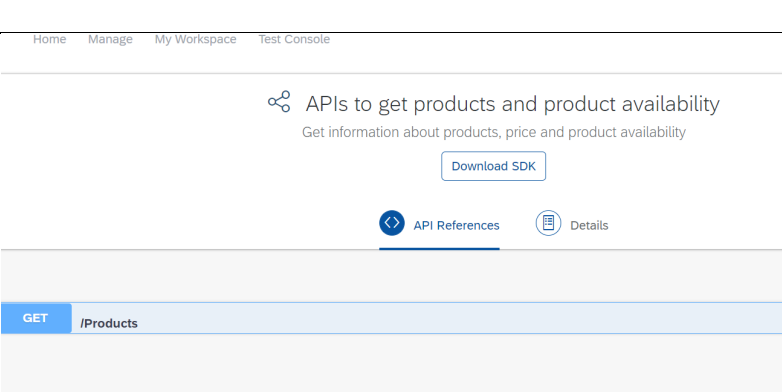As an application developer for BestRun AG, you would like to discover, explore and consume all the APIs exposed by BestRun AG. You would like to view the API documentation, subscribe to the APIs to get an application or API key to access the APIs and finally test the APIs using Test Console. In this exercise, you would explore features of the Developer portal shared by BestRun AG. You would learn to explore, subscribe and consume BestRun APIs from the Developer portal

In this exercise you will configure the following for BestRun AG:-

1. Explore features of the Developer portal shared by BestRun AG. You would learn to explore, subscribe and consume BestRun APIs from the Developer portal
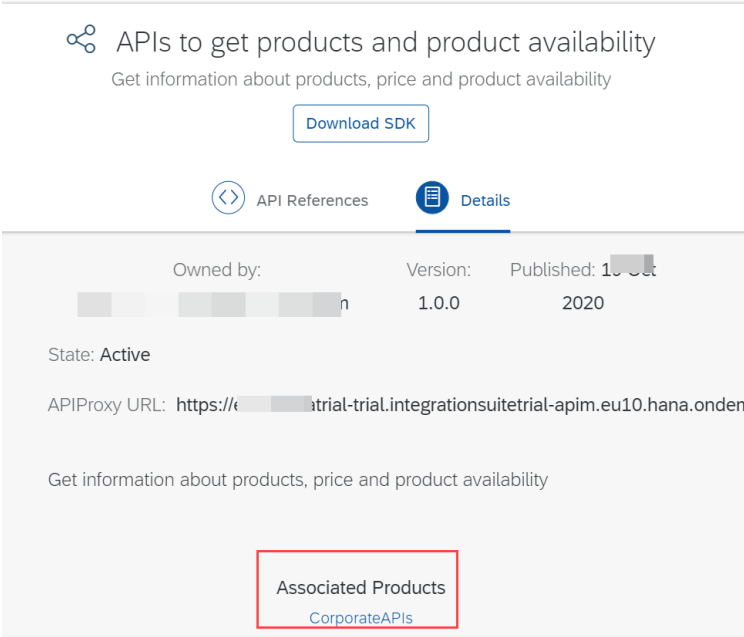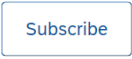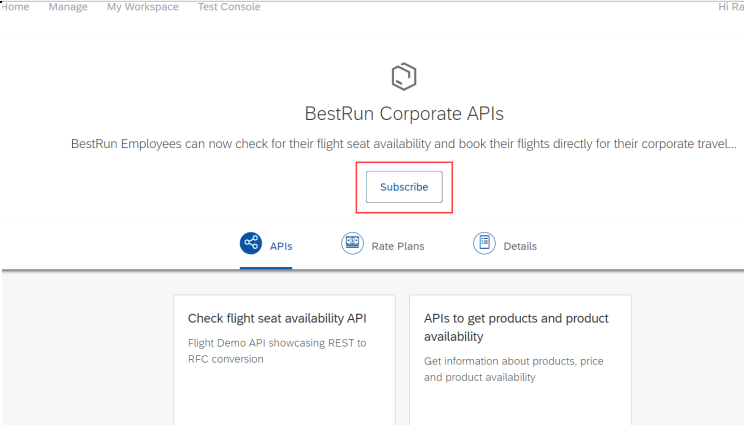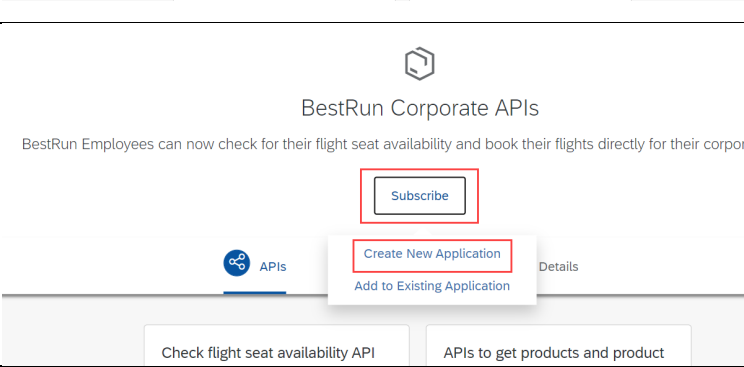
Prerequisite:

1. Log on to Cloud Foundry SAP Cloud Platform Cockpit and navigate to your subaccount

2. Navigate to your subaccount and choose **Security→Trust Configuration**

3. Choose an identity provider from the list. In the default scenario, you should be able to select the SAP ID Service

4. Enter your user ID from the selected IDP service. In case of **SAP ID Service**, you can enter email address of the user

5. To see the role collections assigned to this user, choose **Show Assignments**.

6. Choose **Assign Role Collection**. In the **Role Collection** dropdown, choose ***Authgroup.SelfService.Admin*** role.

Step	Explanation	Screenshot
1	Launch APIPortal and click ⊞ (Navigation Links) and select **Developer Portal.** As an application developer you can browse through categories and the API Products in each category. Click SmartInsights to view the API Products which are part of the SmartInsight category	
2	You can view the API Product title, description and then select **Customer Insights** API Products	
3	You can see below All products published. Click on BestRun Corporate APIs to see all the APIs of this product You can see all the APIs that are part of the API Products. To view more information about Product details API , select the tile BestRun Corporate APIs	
4	View API Proxy Details, like resources, documentation of the resources etc	

5	Click ![Details icon] **Details** to view the API details like description, API Products that the API is part of .	
6	Click on **CorporateAPIs** to navigate to the API Product that the API is part of. Click **Subscribe** to subscribe to the API Product In case you don't see the Subscribe button in your selected API Product, it means that your user hasn't been correctly registered as an Application Developer in the Developer Portal.	
7	You can choose to create a new application or add the API Product to the existing application. Click **Create New Application** to create a new application for first time use.	

|		
8	As an application developer you can provide any name for your application. The selected API Product is automatically assigned. Click on **Save** to subscribe to the product	**Create an Application** Title* ProductDetail Description Product details Callback URL ☐ Create this application on behalf of someone else ☐ Already have Application Key and Secret Save Cancel
9	Newly created application gets displayed. Select the newly created **Application key**. This key can be used as the **API Key** to access the APIs protected using Verify API Key policies. Copy the API Key and you can use in the subsequent flow to test the APIs	Home Manage My Workspace Test Console Application Info Application Info Products Custom Attributes Analytics Product details Callback URL: Created by: ...com Version: 1 Last Modified: ...020 Application Secret: ███████ Calls This Month: 0 Application Key: [███████] Regenerate Key Products
10	Click **BestRun Corporate APIs** to navigate to the API Product	Product details Callback URL: Created by: ...com Version: 1 Last Modified: ...2020 Application Secret: ███████ Calls This Month: 0 Application Key: ███████ Regenerate Key Products Name Rate Plan BestRun Corporate APIs BestRun Employees can now check for their flight seat availability and book their fli... Custom Attributes
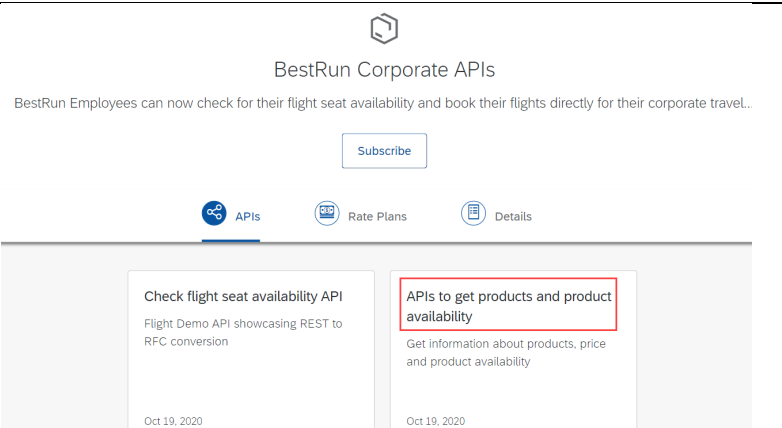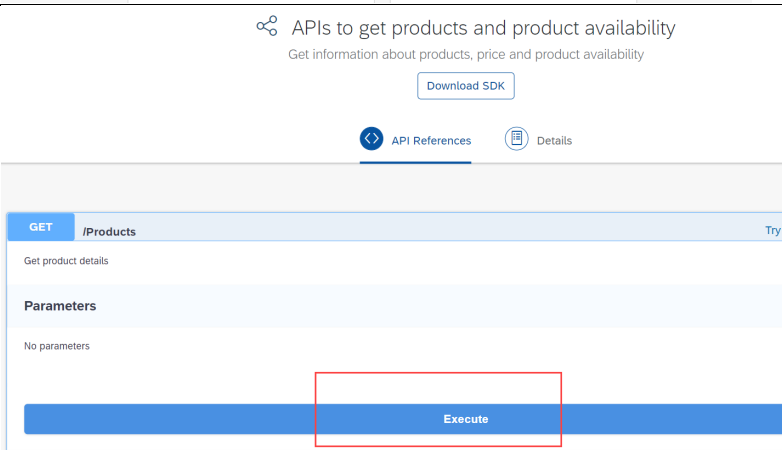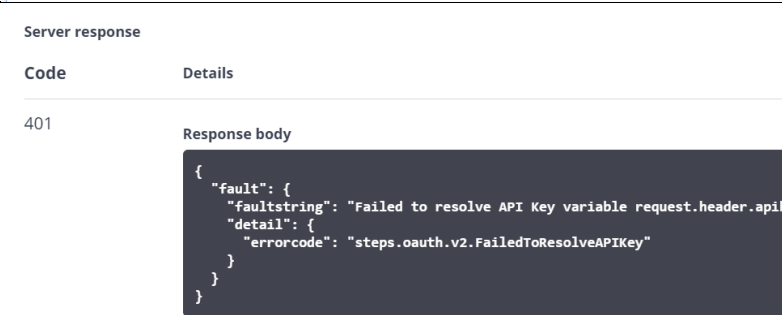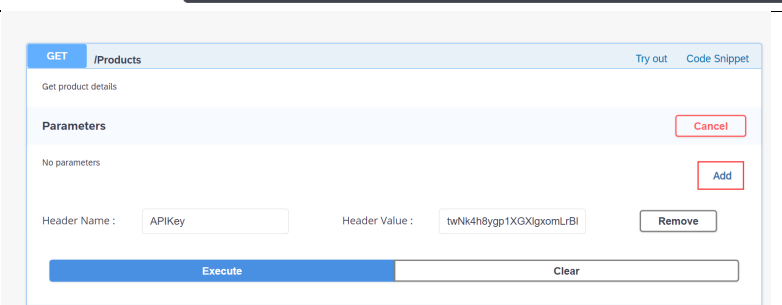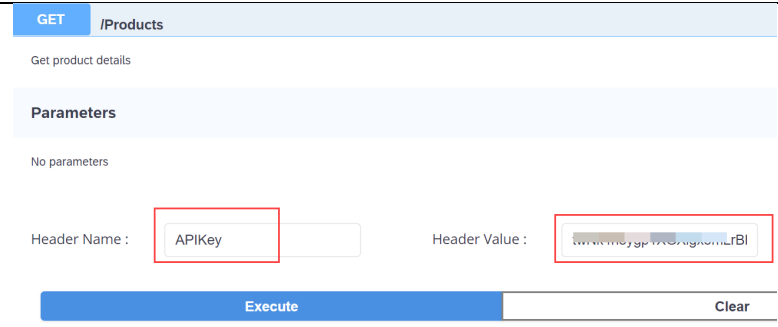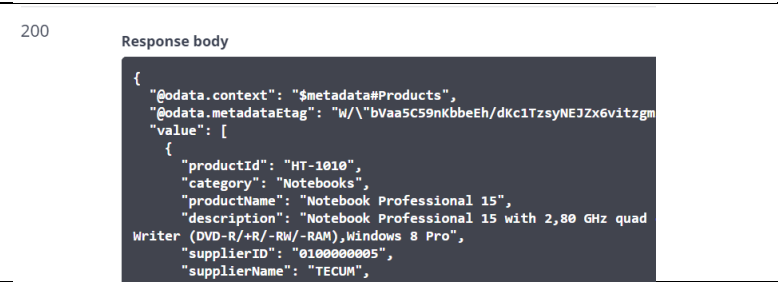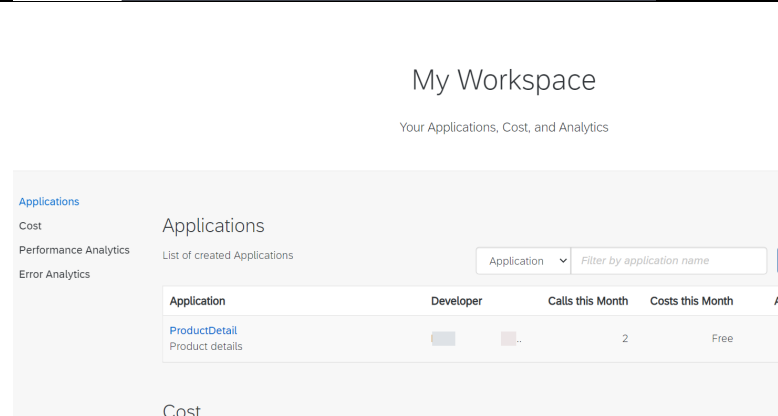
11	Click **APIs to get products and product availability** to open the API Proxy Info: You can use the same API Key in all the APIs that are part of the same API Product	**BestRun Corporate APIs** BestRun Employees can now check for their flight seat availability and book their flights directly for their corporate travel.. Subscribe APIs Rate Plans Details Check flight seat availability API Flight Demo API showcasing REST to RFC conversion Oct 19, 2020 APIs to get products and product availability Get information about products, price and product availability Oct 19, 2020
12	As an application developer you can use the interactive API documentation to view the API references and also test the APIs. Click **Try out** to test the selected API resources from the API References tab. Click **Execute** to test the API Proxy	**APIs to get products and product availability** Get information about products, price and product availability Download SDK API References Details GET /Products Try Get product details **Parameters** No parameters Execute

13	As the APIKey is not provided the response is 401 asking for the APIKey	**Server response**
		
		Code Details
		
		401
		
		Response body
		``
		{
		  "fault": {
		    "faultstring": "Failed to resolve API Key variable request.header.api
		    "detail": {
		      "errorcode": "steps.oauth.v2.FailedToResolveAPIKey"
		    }
		  }
		}
		``

14	Click **Add** to add in your custom http headers or query parameters.	GET /Products Try out Code Snippet Get product details **Parameters** Cancel No parameters Add Header Name : APIKey Header Value : twNk4h8ygp1XGXlgxomLrBl Remove Execute Clear
15	The API access policy defined by BestRun AG, requires the application developers to pass in the API Key in the custom http header named **apikey**. Click **Header** to add in header key/value pair.	Try out Code Snippet Cancel Add Header Query

16	Enter **apikey** in the Header Name text field Enter the copied **Application key** in Header Value text field. Click **Execute** to test the API Proxy	
17	You can view the response from target APIs in the Server Response section	
18	As an application developer you can navigate to the My Workspace to view the applications created by you and Regenerate the application key and secret if required. Click **My Workspace** You can view the Applications created by you in your Developer portal tenant.	
	Congratulations, you have successfully completed the exercise to discover, explore and test the APIs from the Developer portal	