Exercise 1.1 - Manage your microservice built using SAP Cloud Application Programming

Overview

BestRun AG plans to build modern applications like chatbots, mobile applications and web applications for their employees, business users and plans to use APIs to collaborate and co-innovate with their partners. They are worried that as the usage of their chatbots and mobile applications would grow, the load on their business applications would grow. Scaling these business applications to meet the high-volume load from the chatty applications would be costly for them in the long run and, they fear that it would increase the API response time. BestRun AG plans to replicate some of their data from business applications to SAP HANA services on cloud and then expose these data as microservices running on cloud

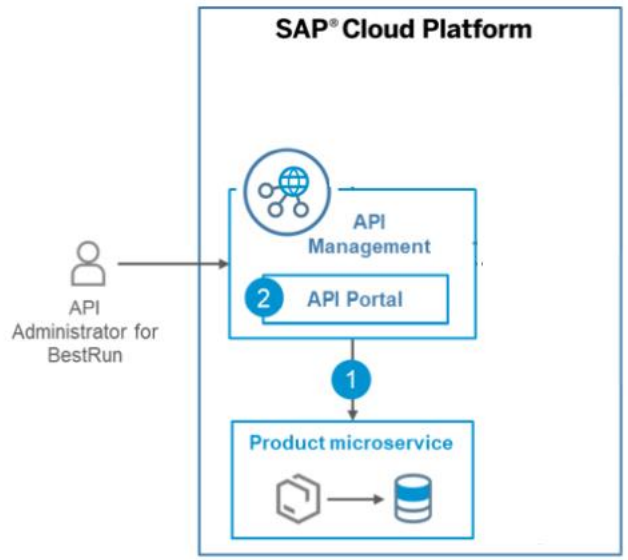
IT team of BestRun AG uses SAP Cloud Application Programming Model to quickly create business applications

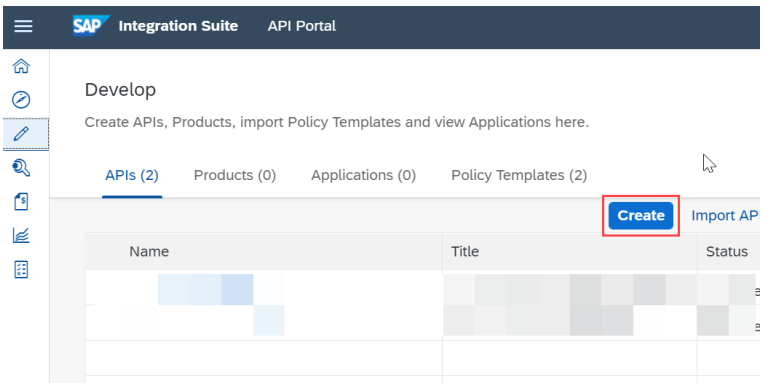
https://dmzca0qiv9fn5be4-productsrvsrv.cfapps.eu10.hana.ondemand.com/catalog

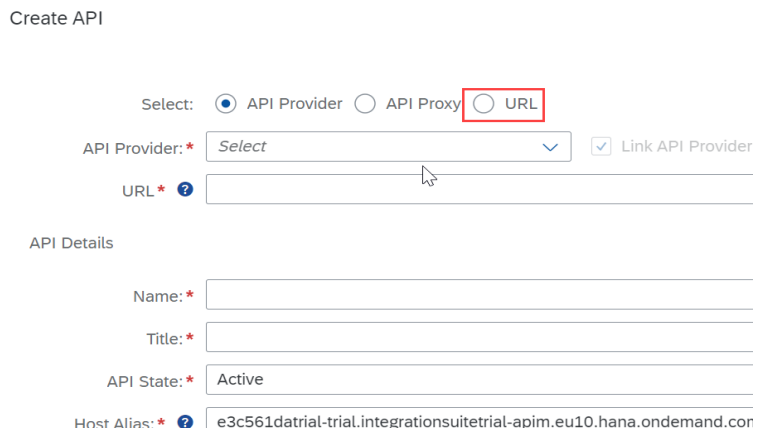
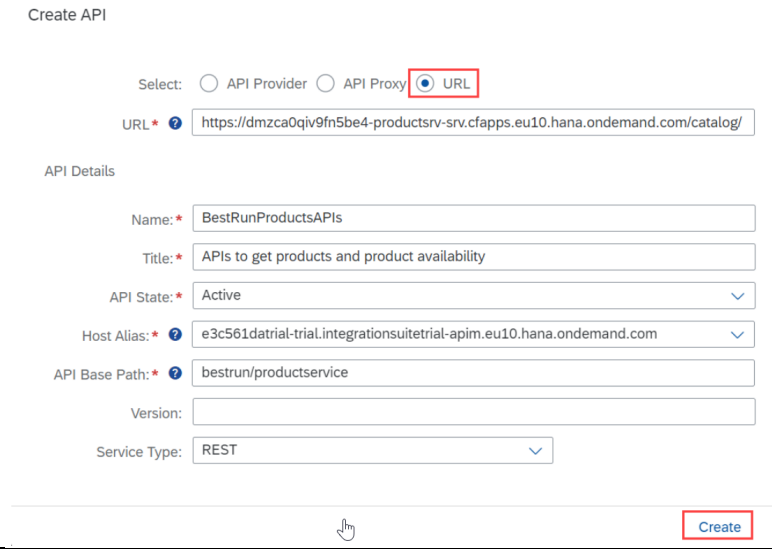
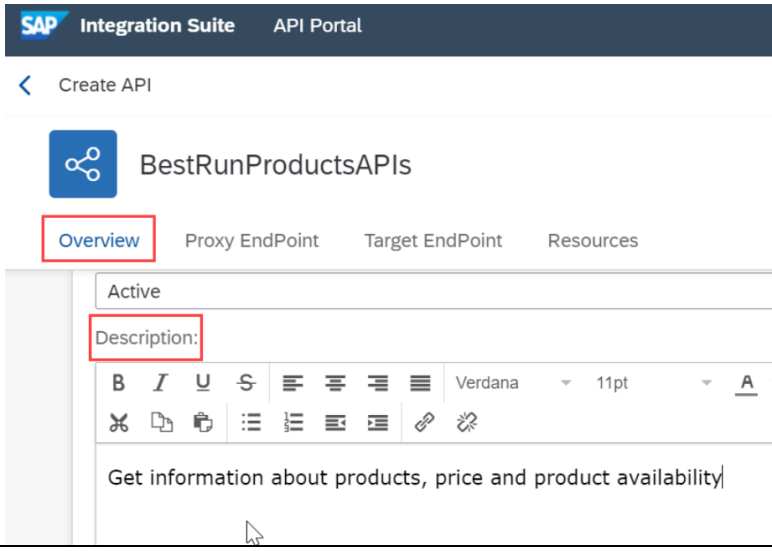
based on their product domain model. They also plan to use SAP Cloud Platform API Management to manage this microservice and apply the BestRun IT API governance policy.

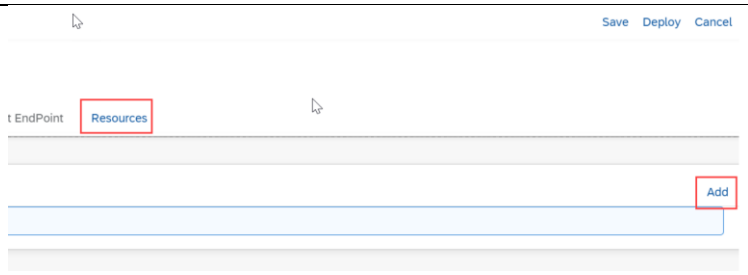
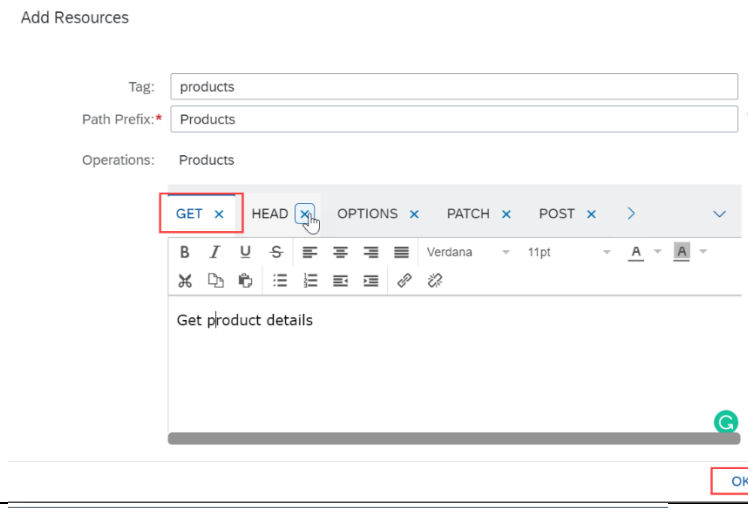
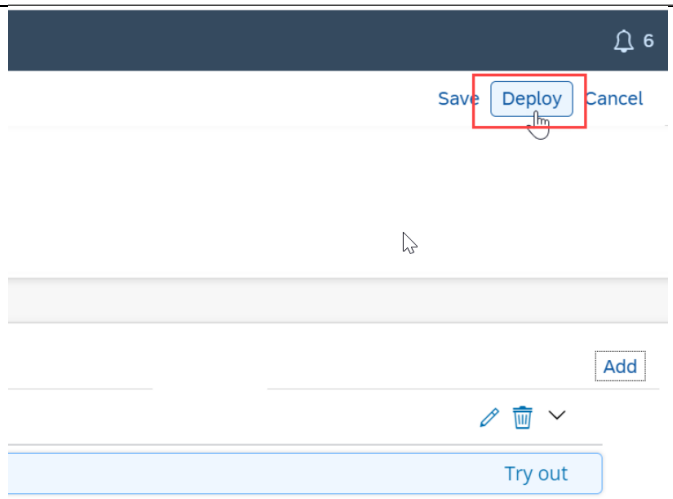
In this exercise you will configure the following for BestRun AG :-

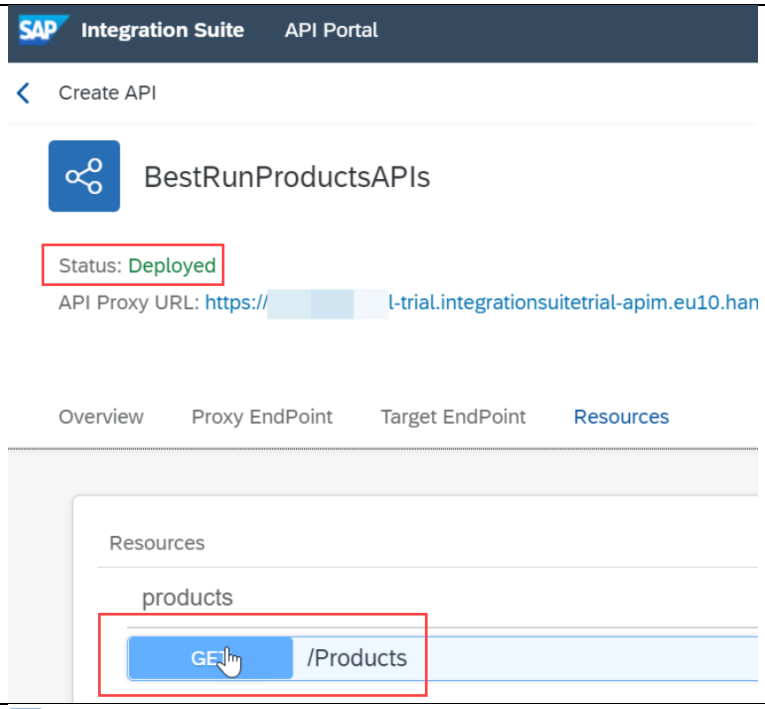
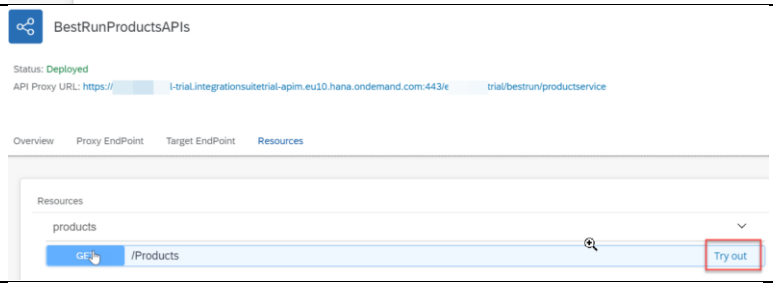
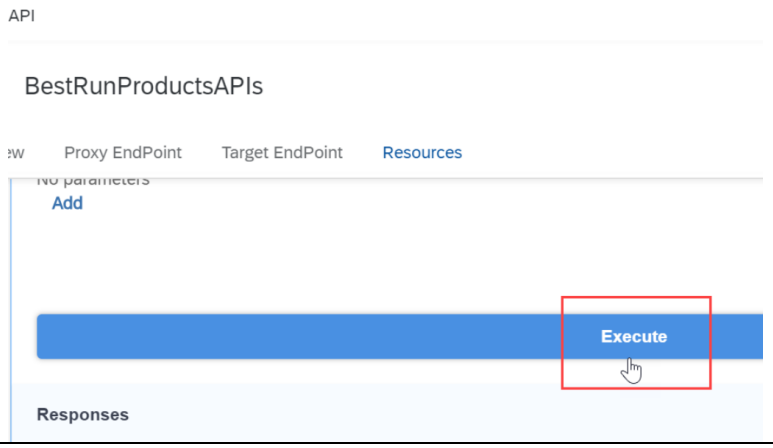
1. *Connect to non-SAPCRM system of BestRunAG using **SAP Cloud Platform Open Connectors**.*
2. *Create an API Proxy to microservice* https://dmzca0qiv9fn5be4-productsrvsrv.cfapps.eu10.hana.ondemand.com/catalog *built by the BestRun IT team*
3. *Apply the BestRun IT governance policy of Quota, Spike Arrest and Verify API Key to the product service microservice.*



Step	Explanation	Screenshot
1	Create API Proxy for your product Microservices To create APIProxy, launch APIPortal and Click on Create	

2	You can create an API Proxy by directly providing your API URL. Click ◯ URL to provide your microservice URL details.	
3	In this exercise, you would be using the microservice already built by the BestRun IT team using SAP Cloud Application Programming model. Enter following values in fields & click on Create URL : https://dmzca0qiv9fn5be4-productsrv-srv.cfapps.eu10.hana.ondemand.com/catalog Name : **BestRunProductsAPIs** Title : **APIs to get products and product availability** API Base Path : **bestrun/productservice**	
4	In the **Overview** tab enter " Get information about products, price and product availability " as your API Proxy Description	
5	Click on Resources to navigate to Resources tab and click on Add to manually add resource	

	Based on your added resources, the path, operations field of the API Proxy definition in OpenAPI specification format will be generated. Furthermore, the corresponding conditional flows based on your added resources would be added to the the polices flow. You would be able to view the added conditional flows from Policy Designers.	
6	Enter **Products** as the Path Prefix, you can optionally set the tags to products To enable API access to only GET call, delete all operations other than GET by clicking on × next to Operation name Now, click on the OK to add resources to API Proxy	
7	Click on Deploy to activate the API Proxy to your microservice.	

8	APIProxy is deployed, check Status: Deployed Click GET /Products to view the API documentation and test the select resources.	
9	Click Try out to test the selected resource	
10	Click Execute to test the API Proxy	

11	The response from your microservice can viewed inline in the Server response section Congratulations, you have successfully created API Proxy to your manage your microservice. In the next exercise you will be adding the BestRun IT governance policies to your microservice.