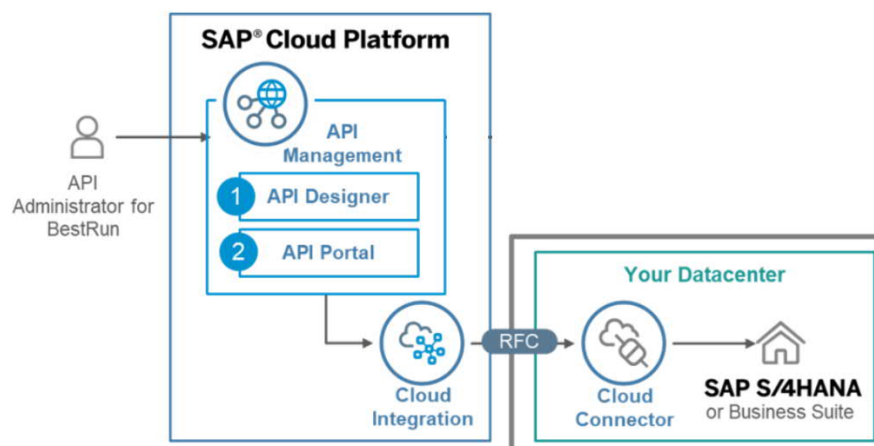


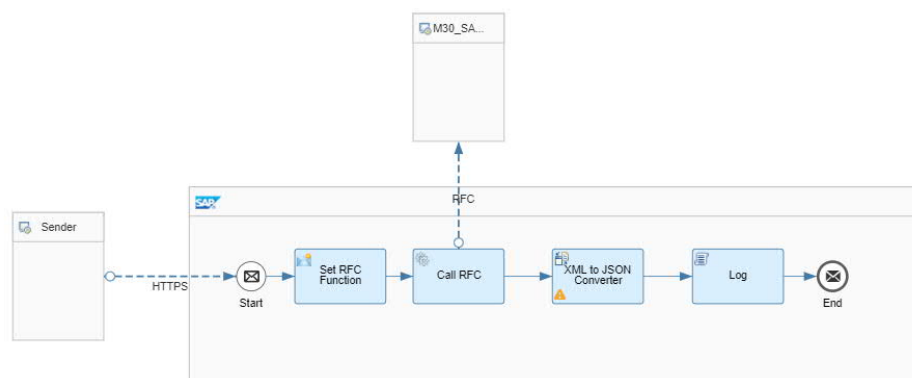
2.1 - Manage REST APIs from SAP Cloud Platform Integration

Overview

BestRun AG would like to offer to their corporate employees a mobile and chat bot application to check for flight seat availability and book their corporate trip request. BestRun AG in the long-term plan to migrate to SAP Concur to automate their employee trip requests and currently they are still using a custom built legacy onpremise travel addon which exposes RFC for integration. For building the mobile and chatbot application, they require RESTful APIs with interactive API documentation so that their application developers can build this mobile and chatbot application.

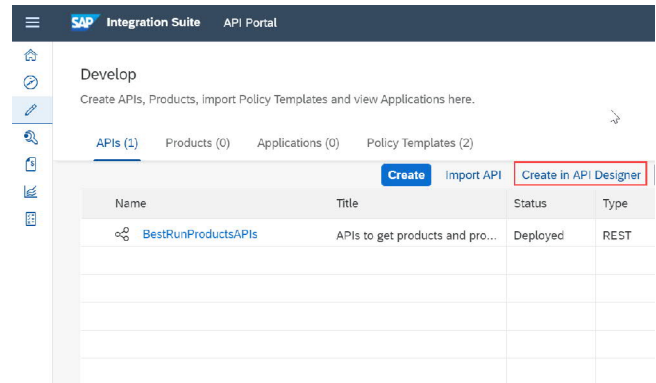
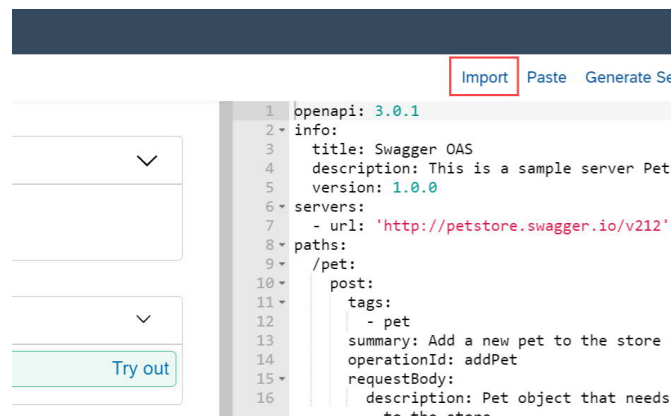





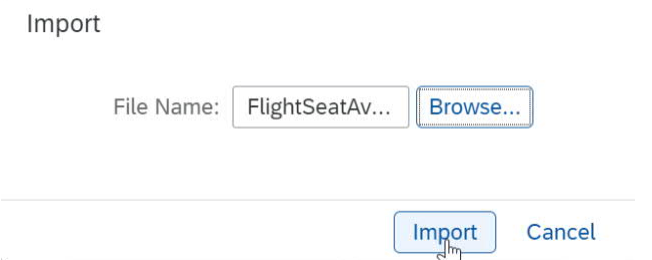


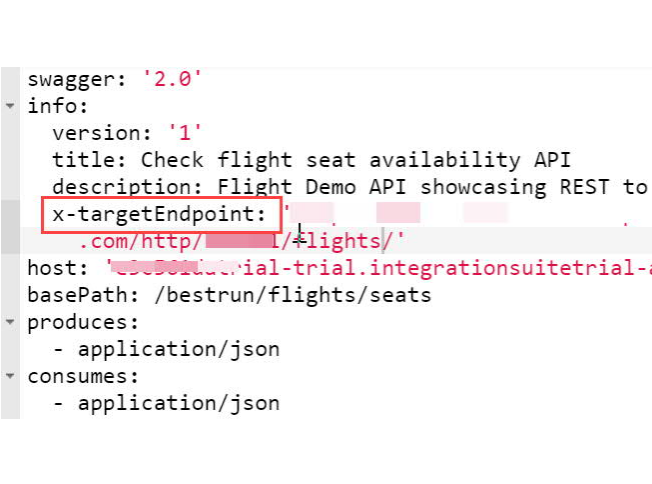
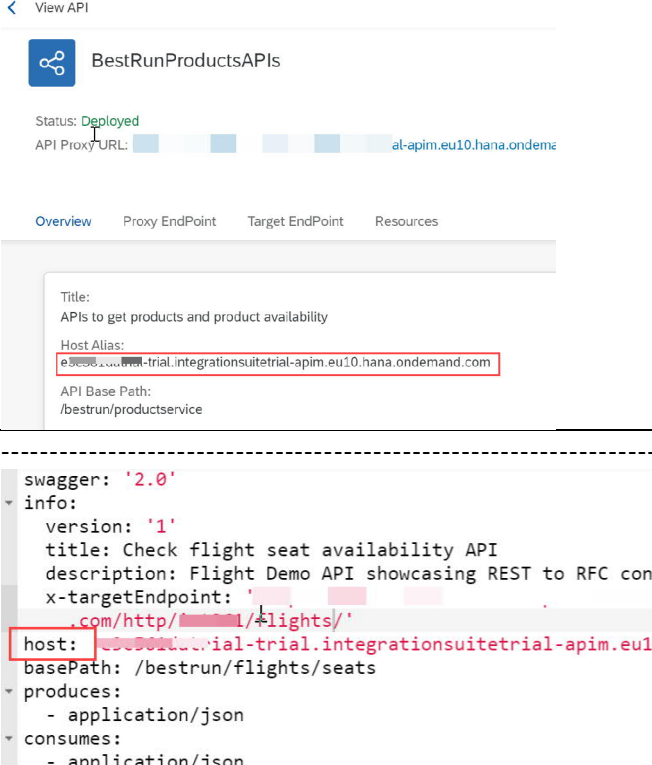

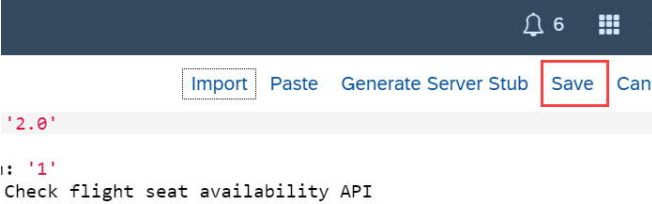


IT team of BestRun AG has used SAP Cloud Platform Integration to build a REST APIs that connects to their on-premise RFC interface using RFC adapter in SAP Cloud Platform Integration connecting securely via SAP Cloud Connectors, which is then converted to JSON response format

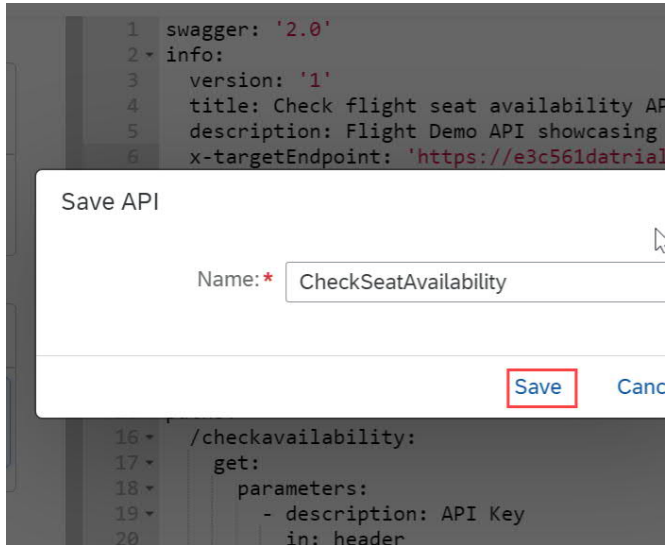

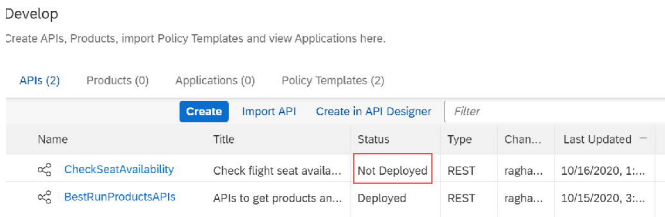
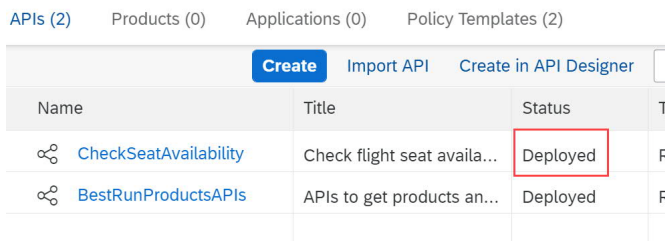


IT team of BestRun AG has also described this in-house built custom REST APIs using OpenAPI specification 2.0, so that they can share the API documentation with their mobile application development team for quick prototyping and faster application development

Exercise Steps:

Step	Explanation	Screenshot
1	To create an API Proxy from OpenAPI specification file. Launch APIPortal and click on Create in API Designer to create an API Proxy via API Designer.	
2	API Designer enables you describe your REST API in OpenAPI specification format. You can use the API Designer to document and manage the REST APIs created using the HTTP sender adapter of SAP Cloud Platform Integration Click to Import in the OpenAPI	
	IT team of BestRun AG has already created an OpenAPI Specification file describing the REST APIs built using SAP Cloud Platform Integration. Download this OpenAPI specification FlightSeatAvailability.yaml from share folder	

<p>3</p> <p>Click  and select the downloaded  FlightSeatAvailability.yaml file and click on Import</p>	 <p>Import</p> <p>File Name: FlightSeatAv... </p> <p> Cancel</p>
<p>4</p> <p>OpenAPI 2.0 specification enables you to provide information about your REST APIs like title, description and version.</p> <p>You can use the x-targetEndpoint custom property under info to specify your target API URL i.e, in this case the target API URL of the integration flow is https://d700066-iflmap.hcisbt.eu2.hana.ondemand.com/http/int361/flights</p> <p>/basePath field of your OpenAPI file would be used as the API Proxy base path,i.e, in this case the basePath of your API Proxy is /bestrun/flights/seats.</p>	 <pre> swagger: '2.0' info: version: '1' title: Check flight seat availability API description: Flight Demo API showcasing REST to x-targetEndpoint: 'https://d700066-iflmap.hcisbt.eu2.hana.ondemand.com/http/int361/flights/' host: 'https://d700066-iflmap.hcisbt.eu2.hana.ondemand.com' basePath: /bestrun/flights/seats produces: - application/json consumes: - application/json </pre>
<p>5</p> <p>Now to get the value for the host, in another browser tab launch APIPortal and open BestRunProductsAPIs API Proxy</p> <p>Copy Host Alias value of API Proxy BestRunProductsAPIs</p> <hr/> <p>Now again switch back to the API Designer and provide value copied for the host</p> <p>This host alias provides you with proxy url protecting your target endpoint.</p>	 <p>View API</p> <p>BestRunProductsAPIs</p> <p>Status: Deployed</p> <p>API Proxy URL: https://d700066-iflmap.hcisbt.eu2.hana.ondemand.com/al-apim.eu10.hana.ondemand.com</p> <p>Overview Proxy EndPoint Target EndPoint Resources</p> <p>Title: APIs to get products and product availability</p> <p>Host Alias: https://d700066-iflmap.hcisbt.eu2.hana.ondemand.com/al-apim.eu10.hana.ondemand.com</p> <p>API Base Path: /bestrun/productservice</p> <pre> swagger: '2.0' info: version: '1' title: Check flight seat availability API description: Flight Demo API showcasing REST to RFC conversion x-targetEndpoint: 'https://d700066-iflmap.hcisbt.eu2.hana.ondemand.com/http/int361/flights/' host: 'https://d700066-iflmap.hcisbt.eu2.hana.ondemand.com/al-apim.eu10.hana.ondemand.com' basePath: /bestrun/flights/seats produces: - application/json consumes: - application/json </pre>
<p>6</p> <p>Click  to save OpenAPI file as an API Proxy.</p>	 <p> Paste Generate Server Stub  Cancel</p> <pre> '2.0' info: version: '1' title: Check flight seat availability API description: Flight Demo API showcasing REST to RFC conversion </pre>

7	Enter CheckSeatAvailability in the API Name text field and click Save	 <pre>1 swagger: '2.0' 2 info: 3 version: '1' 4 title: Check flight seat availability API 5 description: Flight Demo API showcasing 6 x-targetEndpoint: 'https://e3c561datrtrial</pre>																		
8	API Proxy from the API Designer would be in Not Deployed state, i.e, the API Proxy endpoint is not active. To Deploy the API Proxy, Click  and select Deploy	 <p>Develop Create APIs, Products, import Policy Templates and view Applications here.</p> <p>APIs (2) Products (0) Applications (0) Policy Templates (2)</p> <table><tr><th>Name</th><th>Title</th><th>Status</th><th>Type</th><th>Chan...</th><th>Last Updated</th></tr><tr><td> CheckSeatAvailability</td><td>Check flight seat availa...</td><td>Not Deployed</td><td>REST</td><td>ragha...</td><td>10/16/2020, 1...</td></tr><tr><td> BestRunProductsAPIS</td><td>APIs to get products an...</td><td>Deployed</td><td>REST</td><td>ragha...</td><td>10/15/2020, 3...</td></tr></table>	Name	Title	Status	Type	Chan...	Last Updated	CheckSeatAvailability	Check flight seat availa...	Not Deployed	REST	ragha...	10/16/2020, 1...	BestRunProductsAPIS	APIs to get products an...	Deployed	REST	ragha...	10/15/2020, 3...
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BestRunProductsAPIS	APIs to get products an...	Deployed	REST	ragha...	10/15/2020, 3...															
9	The status of the API Proxy would change to Deployed.	 <p>APIs (2) Products (0) Applications (0) Policy Templates (2)</p> <table><tr><th>Name</th><th>Title</th><th>Status</th><th>T</th></tr><tr><td> CheckSeatAvailability</td><td>Check flight seat availa...</td><td>Deployed</td><td>F</td></tr><tr><td> BestRunProductsAPIS</td><td>APIs to get products an...</td><td>Deployed</td><td>F</td></tr></table>	Name	Title	Status	T	CheckSeatAvailability	Check flight seat availa...	Deployed	F	BestRunProductsAPIS	APIs to get products an...	Deployed	F						
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CheckSeatAvailability	Check flight seat availa...	Deployed	F																	
BestRunProductsAPIS	APIs to get products an...	Deployed	F																	
10	Congratulations, you have successfully created an API Proxy from the OpenAPI specification file. The OpenAPI Specification file describes the RFC based interface from SAP S/4HANA which is converted to RESTful API using SAP Cloud Platform Integration																			

Continue to [Exercise 2.2 - Add Policies to Securely Connect to Cloud Platform Integration API](#)