Practical Exercise: Creating and Publishing an API Product through the Publisher

Training Objective

Learn how to create an API Product, add documentation, publish it to the Developer Portal and deploy to gateway using the Publisher.

Business Scenario

After setting up the API-M, the API Product is created and published and deployed through the API Publisher in order to make it subscribable from the store.

Business Scenario: A company ABC has 2 APIs as listed below,

1. Customer Info API - This API is used to access and update the financial information of the customers.
2. Leasing API - Used to access and update the information regarding the leases of the institution.

Along with the separate APIs the company ABC wants to combine some of the existing resources from the 2 different APIs and expose a new API named Customer Leasing API which can be used to achieve some of the functionalities from Leasing API and some of the functionalities from Customer Info API. This can be achieved by creating an API Product.
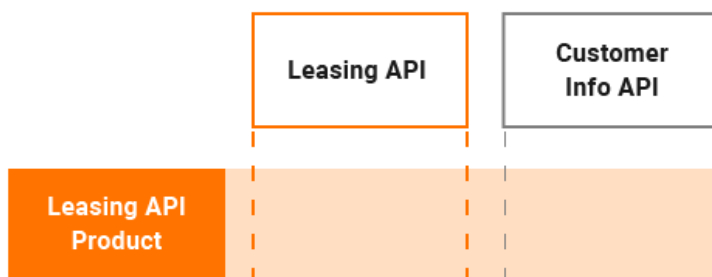
High Level Steps

- Add Customer Info and Leasing APIs to the Publisher
- Create an API Product

Detailed Instructions

Adding the Individual APIs to Publisher

Now that we have set up the API-M and added users, we are ready to create and Publish the individual APIs.

To add the APIs to the publisher, follow these steps:

1. Open the API Publisher web application from https://localhost:9443/publisher.
2. Log in using the user with **apicreator** role you defined previously (creator).
3. Click **Create API**.
4. Select **Import OpenAPI.**
5. Select **Open API File/Archive** and upload the following customer-info-api.yaml and click Next.
6. Provide information on the API as per the table below and click **Create**.

Field	Value	Description
Name	**CustomerInformation**	Name of API as you want it to appear in the API store
Context	**/customer-info**	URI context path that is used by API consumers (Application Developers)
Version	**1.0.0**	API version (in the form of version.major.minor)
Endpoint	**https://run.mocky.io/v3/09fe1b36-2ed4-4bef-b96e-da0bbac6a424**	The endpoint that you add is automatically added as the production and sandbox endpoints.

7. Create another API by selecting **Import OpenAPI** option and upload the following Open API File leasing-api.yaml
8. Provide information on the API as per the table below and click **Create**.

Field	Value	Description
Name	**Leasing**	Name of API as you want it to appear in the API store
Context	**/leasing**	URI context path that is used by API consumers (Application Developers)

Version	**1.0.0**	API version (in the form of version.major.minor)
Endpoint	**https://run.mocky.io/v3/0a3dbdaf -50df-4de7-a72a-e778a1db0072**	The endpoint that you add is automatically added as the production and sandbox endpoints.

9. Logout as the creator user and login as publisher user.
10. Click **API Products**, and then click **Create New API Product**.
11. Enter the following details and click on **Next**.

Field	Value	Description
Name	**CustomerLeasing**	Name of API as you want it to appear in the API store
Context	**/customer-leasing**	URI context path that is used by API consumers (Application Developers)

12. Select the following resources from the CustomerInfo API and click on A**dd Selected.**
    GET /customers
    GET /customers/{customerId}

13. Select the following resources from the Leasing API and click on **Add Selected**.
    GET /assets/{assetId}

POST /assets

14. Click on **Publish**.

The API Product will appear in the API Publisher, as shown below.

The API Product will also appear in the Developer Portal, as shown below.
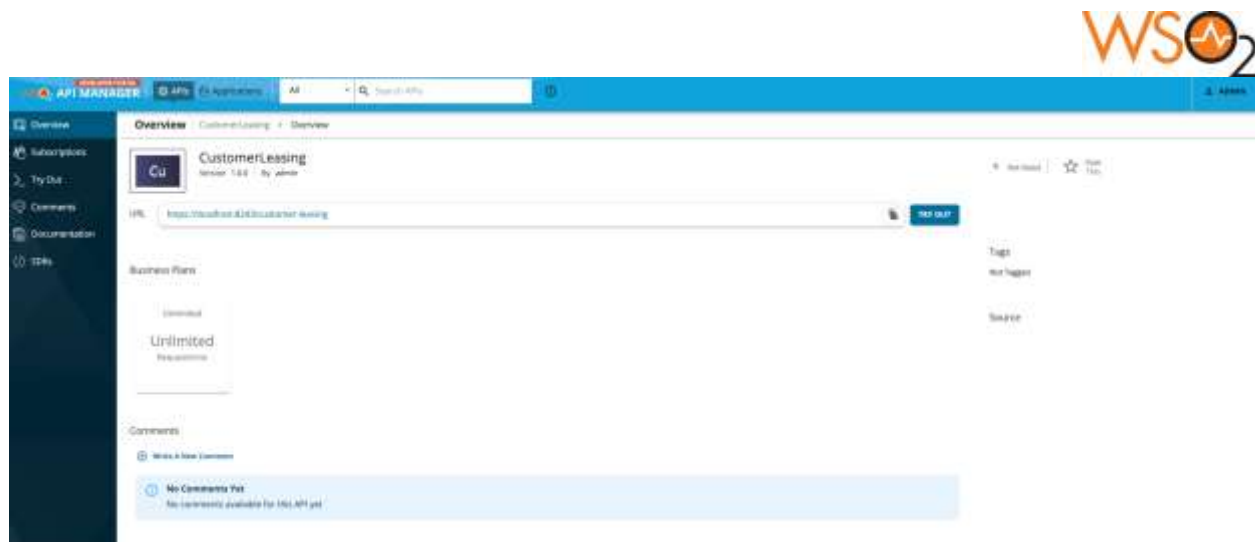
Expected Outcome

The Customer Leasing API product which has a combination of resources from Customer Info API and Leasing API has been created and published and can be accessed through the API Devportal.