

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.

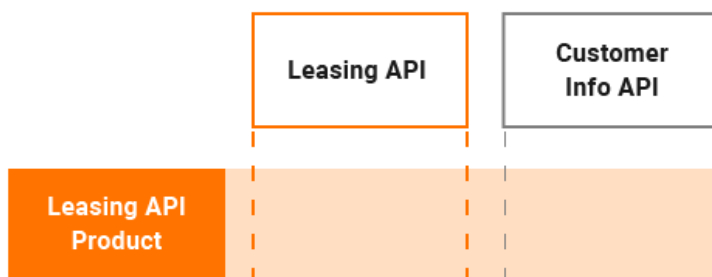
Business Scenario

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 **Add Selected**.

GET /customers

GET /customers/{customerId}

Create an API Product
Create an API Product by providing a Name, a Context, Resources, and Business Plans (optional).

Define API Product Add Resources

Select an API Select API Resources

API
Filter APIs
Order by Name

- customer-info 1.0.0 - /customers/info
- leasing 1.0.0 - /leasing
- PizzaShack 1.0.0 - /pizza
- PizzaShackAPI 1.0.0 - /pizza/shack

customer-info

Add Selected ▶▶ Add All ▶▶

- ☒ GET Customers Application & Application User - 100PerMin
- ☐ GET Customers Application & Application User - Unlimited
- ☒ GET Customers/{customerId} Application & Application User - 200PerMin
- ☐ PUT Customers/{customerId} Application & Application User - Unlimited
- ☐ DELETE Customers/{customerId} Application & Application User - Unlimited

CustomerLeasing

Use the left side panel to add resources

Back Publish

13. Select the following resources from the Leasing API and click on **Add Selected**.

GET /assets/{assetId}

POST /assets

Create an API Product
Create an API Product by providing a Name, a Context, Resources, and Business Plans (optional).

Define API Product 1 Add Resources 2

Select an API

API

Filter APIs

Filter by name

customer-info
1.0.0 - /customersInfo

leasing
1.0.0 - /leasing

PizzaShop
1.0.0 - /pizza

PizzaShopAPI
1.0.0 - /pizzaShop

Select API Resources

leasing

Add Selected ▶▶ Add All ▶▶

- ☐ GET /assets
Application & Application User - Unlimited
- ☒ POST /assets
Application & Application User - 20KPerMin
- ☒ GET /assets/{assetId}
Application & Application User - 10KPerMin
- ☐ PUT /assets/{assetId}
Application & Application User - Unlimited
- ☐ DELETE /assets/{assetId}
Application & Application User - Unlimited

CustomerLeasing

customer-info - 1.0.0

- GET /customers
- GET /customers/{customerId}

Back Publish

14. Click on **Publish**.

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

CustomerLeasing PUBLISHED 2020

Customers API Get To View in Developer Portal Download API Share

(last updated 10 hrs 26 mins ago)

Overview

Metadata

Description	api000
Provider	/customer-leasing
Context	/customer-leasing
Created Time	A few seconds ago
Last Updated Time	A few seconds ago
Business Owner	
Technical Owner	

Resources

leasing - 1.0.0

- POST /assets
- GET /assets/{assetId}

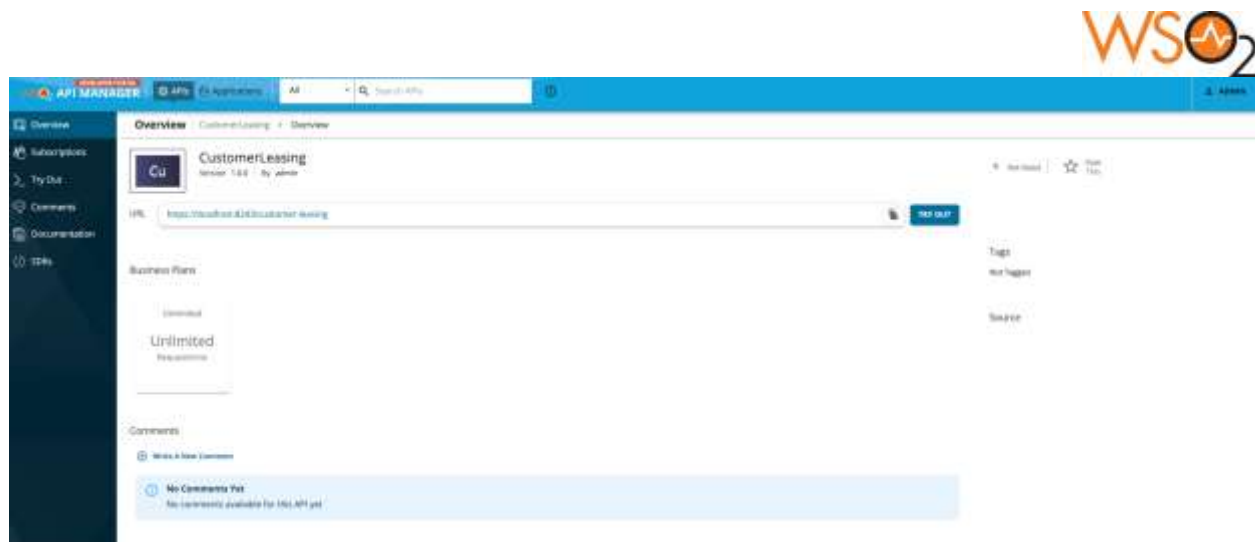
customer-info - 1.0.0

- GET /customers
- GET /customers/{customerId}

Configuration

Thrifts (0)	HTTP, HTTPS
API Security (0)	OAuth2
Access Control (0)	None
Workflow Status	
Visibility on Developer Portal (0)	Public
Business Plans	Unlimited

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.