

Secure and Publish your API

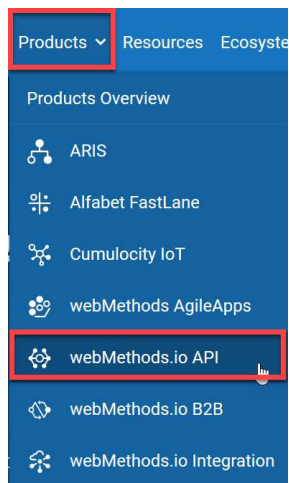
Lab Objectives

In this lab, you will first double-check the configured API Gateway <--> Developer Portal connectivity.

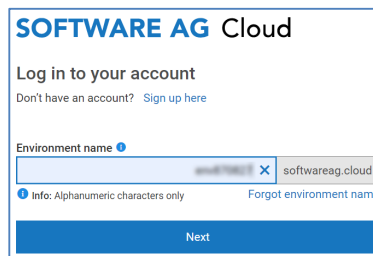
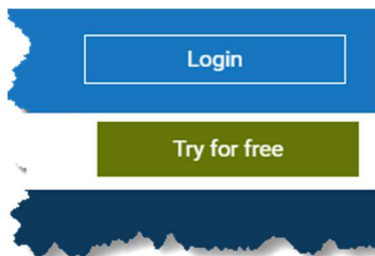
In API Gateway you will secure your existing Fruit Shop API. Eventually you will publish the secured API to your Developer Portal.

Steps

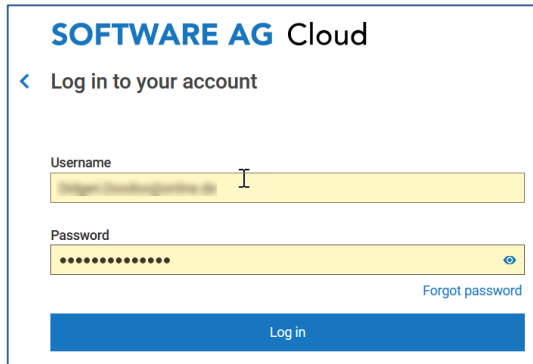
1. Download the following file from the course material folder to your local hard drive, e.g. C:\temp:
 - **Fruit.png**
 - **Fruit Shop Summary.txt**
2. Login to your API Gateway instance in the Cloud:
 - a. On your own machine, open a browser tab and navigate to <https://softwareag.cloud>. From the **Products** drop-down list select **webMethods.io API**.



- b. Select **Login** in the top right corner. Provide your cloud environment name as created in the previous lab and hit Enter. Click **Next**.



- c. You will be asked for credentials. Provide your Software AG Cloud credentials (Username (e-mail) and password) you used when you requested the environment. in the very first hands-on lab. Click **Log in**.



SOFTWARE AG Cloud

< Log in to your account

Username

Password

[Forgot password](#)

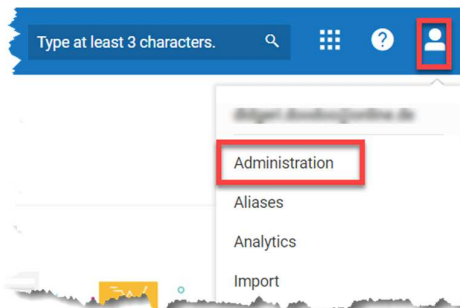
Log in

- d. On your Software AG Cloud home page open a connection to your **webMethods.io API Gateway** instance.

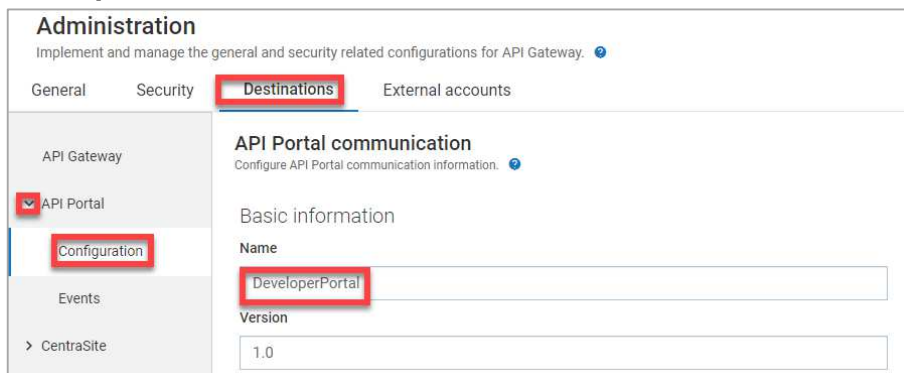
Note: You are now logged in to API Gateway as an API Gateway Administrator.

3. Double-check and enhance the API Gateway < > Developer Portal connectivity settings in API Gateway:

- a. Select **Administration** from the User menu.



- b. On the API Gateway Administration page, open tab **Destinations** and select **API Portal > Configuration** from the left-hand side. Adjust the **Name** under Basic information to **DeveloperPortal**.



Administration
 Implement and manage the general and security related configurations for API Gateway.

General Security **Destinations** External accounts

API Gateway

☒ API Portal

Configuration

Events

> CentraSite

API Portal communication
 Configure API Portal communication information.

Basic information

Name

Version

- c. On the same page, the configuration settings to access Developer Portal from API Gateway are already defined under **Portal configuration** and cannot be changed in your Software AG Cloud trial environment.

In the configuration settings to access API Gateway from Developer Portal, **Username** and **Password** might be still empty under **Gateway configuration**.

In case Username and Password are not assigned yet, add the Cloud user credentials (e-mail (in lower case !) and password) you used when you created your Software AG Cloud environment in the very first hands-on lab. Finally click **Publish**.

The screenshot shows the 'Administration' page for API Gateway. The 'Destinations' tab is selected. Under 'API Portal communication', the 'Gateway configuration' section is highlighted with a red box. Within this section, the 'Username' and 'Password' fields are also highlighted with red boxes. A red arrow points to the 'Username' field with the text 'Lower Case !'. The 'Basic information' section shows 'Name' as 'DeveloperPortal' and 'Version' as '1.0'. The 'Portal configuration' section shows 'Base URL' as 'https://env870827.devportal-aw-eu.webmethods.io/portal/', 'Tenant' as 'env870827', 'Username' as 'apigatewayssystemuser', and 'Password' as a masked field. The 'Stage name' field is empty. The 'Publish' button is visible at the bottom.

Note: In case of a (timeout) error, retry publishing your settings.

4. Add a security policy to the Fruit Shop API:

Note: This API has been imported from a OpenAPI file in a previous hands-on lab.

- a. Select **APIs** from the menu bar to open page Manage APIs.

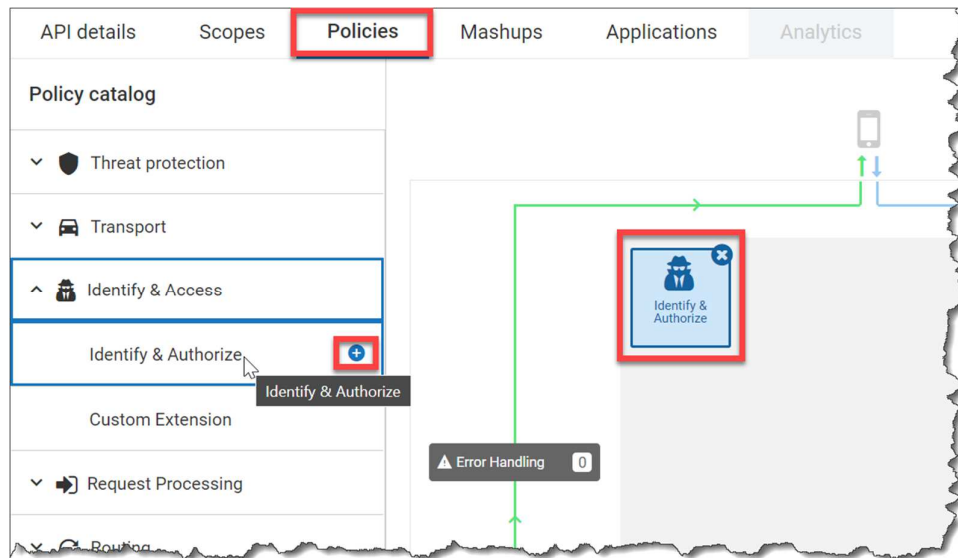
Note that the API Fruit Shop API is already activated. Select API **Fruit Shop API** from the list of APIs to open its details.

The screenshot shows the 'Manage APIs' page. A table lists the APIs. The 'Fruit Shop API' is highlighted with a red box. The table has columns for 'Name', 'Description', 'Active endpoints', 'Version', and 'Modified Time'. The 'Fruit Shop API' has a 'REST' icon, a description of '([Logo])(https://www.predic8.de/logo6.png) Showcase...', version '2.0.0', and was modified on '11 Oct 2023 14:38:13 (CEST)'. There are also icons for 'Showcase...', 'API details', 'Scopes', 'Policies', 'Mashups', 'Applications', and 'Pack'.

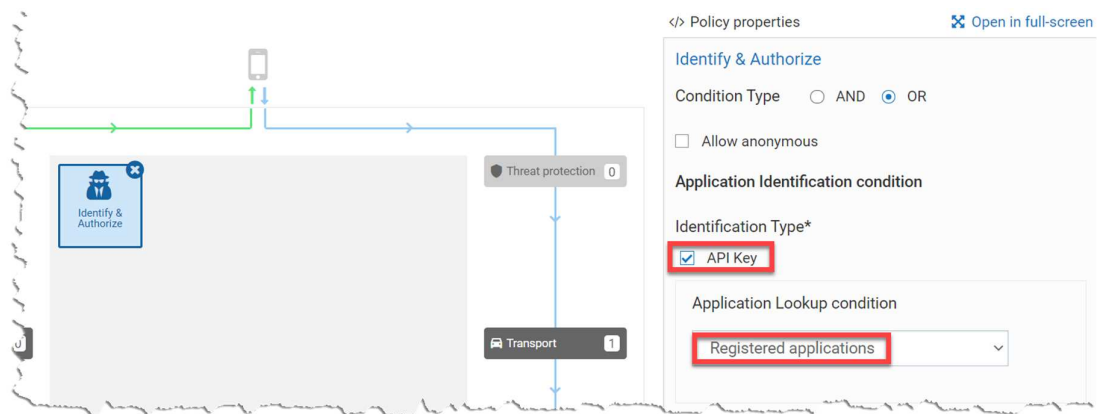
- b. On the API details page of the Fruit Shop API, click **Edit** to switch to edit mode. You'll get a warning that your changes will become effective immediately after saving. Click **Yes** to allow this.
- c. Switch to tab **Policies**.

The screenshot shows the 'Fruit Shop API' details page. The 'Policies' tab is selected and highlighted with a red box. The page title is 'Fruit Shop API' and the subtitle is 'Update an API by providing the required information.' The tabs at the bottom are 'API details', 'Scopes', 'Policies', 'Mashups', 'Applications', and 'Pack'.

- d. In the left-hand **Policy catalog** expand category **Identify & Access**.
Click the + sign next to policy **Identify & Authorize**. This will add the policy to the API and graphics in the middle.



- e. In the **Policy properties** on the right side, select Identification Type **API Key** and Application Lookup condition **Registered applications**.

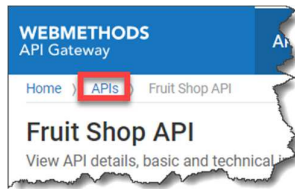


- f. **Save** your API modifications.

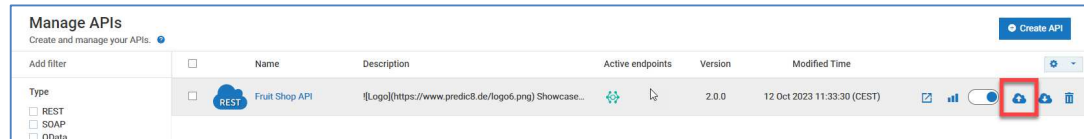
Note: There is no need to deactivate and active your API. All changes became effective immediately after saving.

5. Publish your Fruit Shop API to your Developer Portal:

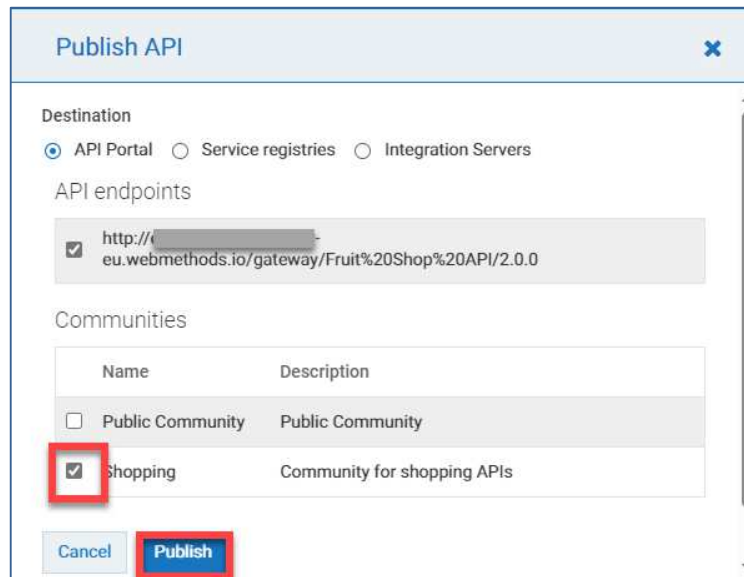
- a. Use the breadcrumb navigation to get back to the Manage APIs page.



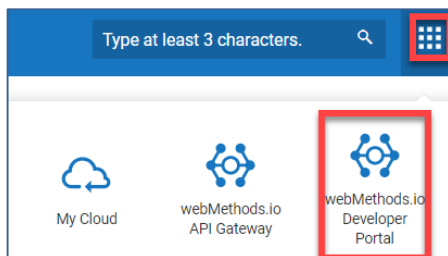
- b. On the Manage APIs page, click the publish icon for API **Fruit Shop API**.



- c. On the Publish API panel, select destination **API Portal** as target and assign the API to the Developer Portal community **Shopping**. Click on **Publish** to confirm.



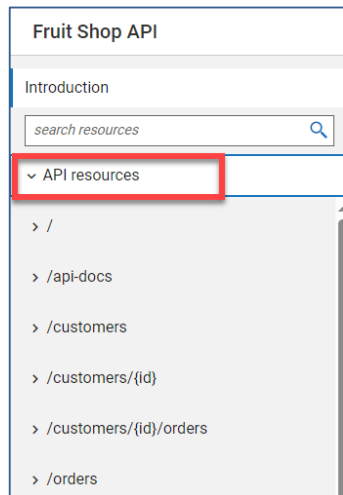
Note: Community Shopping has been created at Developer Portal in hands-on lab "Import and Manage an API in your Developer Portal" of e-learning "Introducing Developer Portal".

6. Use the app switcher to switch to your **webMethods.io Developer Portal**.

7. You have now signed-in to your Developer Portal instance. In Developer Portal perform the following tasks:

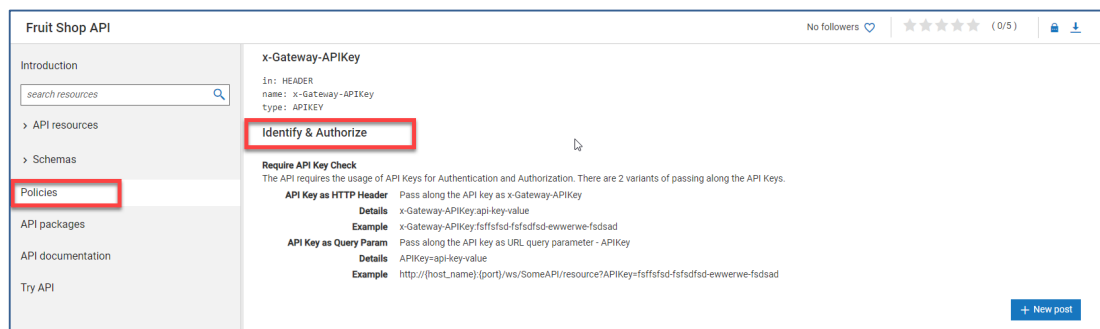
- In the **API gallery**, select **Add slicer** and select **Community** as a slicer (if not already done). Select community **Shopping** from the drop-down.
- Ensure the Fruit Shop API gets displayed.
- Select the **Fruit Shop API** to open its details.

Expand **API resources** to see all available REST resources.



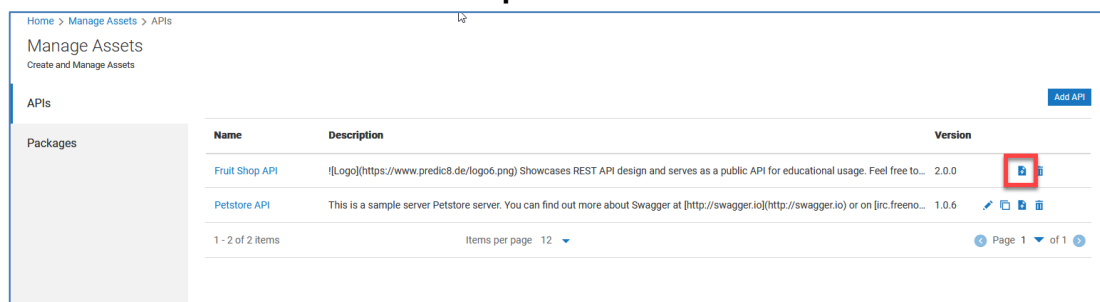
- In the left-hand navigation pane, click on **Policies**. The Identify & Authorize policy will be displayed.

Moreover it is mentioned that the API requires the usage of API Keys for Authentication and Authorization.

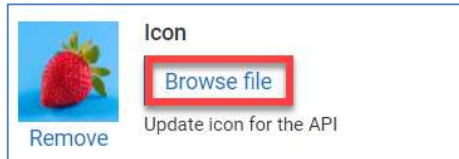


- From the user menu, select **Manage assets**.

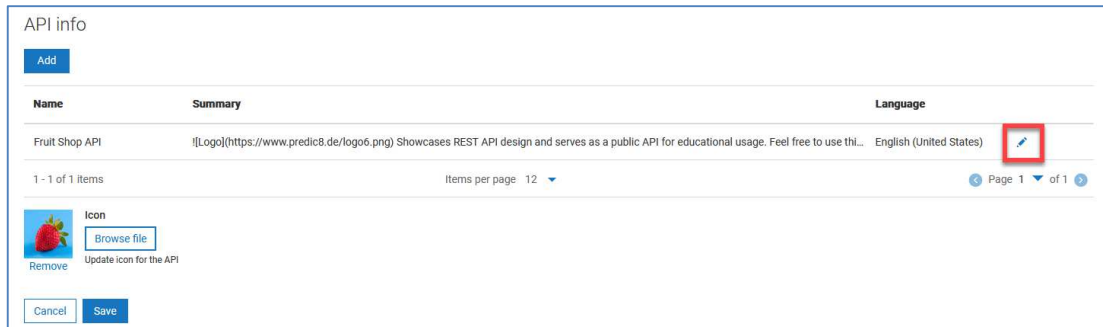
Click the disk icon of the listed **Fruit Shop API** to enrich its API info data:



- f. Browse for icon file **Fruit.png** copied in step 1. Click **Open**. Click **Save**.



- g. Click the pencil icon next to the Fruit Shop API.



Replace the existing summary text by the text stored in the file **Fruit Shop Summary.txt** copied in step 1. Click **Add** to close the dialog.

Add locale information

Language

en_US

Name

Fruit Shop API

Summary

This API allows you to access the Fruit Shop. E.g. you can look for existing fruit products, customers or vendors, and you can place orders.

Description

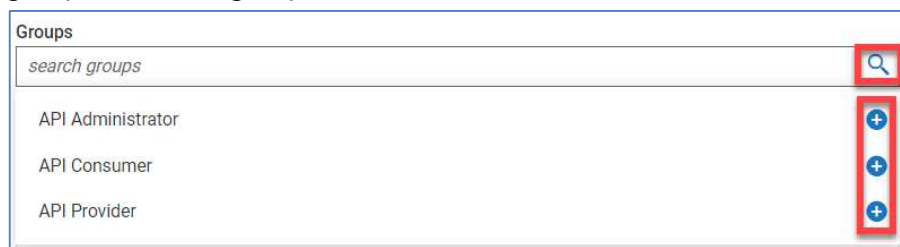
![Logo](https://www.predic8.de/logo6.png)
Showcases REST API design and serves as a public API for educational usage. Feel free to use this API even by using the POST, PUT and DELETE methods. You cannot do any harm, the API will be reset automatically.

Cancel

Add

- h. **Save** your changes.

8. The Fruit Shop API belongs to community Shopping. Currently this community is not visible to other users or groups than the owner of community Shopping. To allow other Developer Portal user groups seeing APIs listed for this community, perform the following steps in Developer Portal:
 - a. Still logged in as an API Provider (and owner of community Shopping), select **Manage communities** from the User menu.
 - b. Open community **Shopping** from the list of communities.
 - c. Click **Edit** to switch to edit mode.
 - d. Scroll own to section **Groups**. Click the magnifying glass to search for available user groups. Add user groups **API Administrator**, **API Consumer**, and **API Provider**.



- e. Click **Save** at the very bottom of the page.
9. Use the user menu to **logout** from Developer Portal.