Invoke your API from Developer Portal using an API Key

Lab Objectives

In this lab, you will invoke the secured Fruit Shop API from Developer Portal using its Try functionality. You will act as a self-registered Developer Portal API Consumer. To get access to the secured API, you request for an Application which provides the necessary API Key.

Steps

- 1. Login to your trial Developer Portal in the cloud as self-registered API Consumer acting as a 3rd party developer:
 - a. In a browser tab, use the URL to directly access the Developer Portal welcome page: (https://<your environment>.<SoftwareAG-Cloud-domain>/portal)

Note:

You bookmarked this URL in a previous lab of e-learning "Introducing Developer Portal". Only in case you haven't created a Developer Portal API Consumer via self-registration yet, perform steps 2 and 3 of hands-on lab "Discover and Try an API in your Developer Portal" as described in the e-learning "Introducing Developer Portal" first.

b. On the welcome page click Sign in.

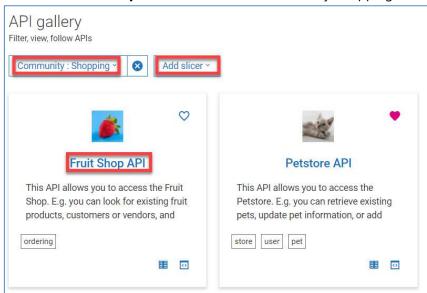


c. On the sign-in page you can now sign-in to Developer Portal as a Developer Portal API Consumer using the e-mail address and password you defined in hands-on lab "Discover and Try an API in your Developer Portal" of e-learning module "Introducing Developer Portal".



2. Open the API gallery.

- a. Add a slicer for **Community** and select community **Shopping** from the drop-down.
- b. Ensure the **Fruit Shop API** is still listed for community Shopping.



c. Click the View icon for API Fruit Shop API (or click on the API name) to open the details view of the API.

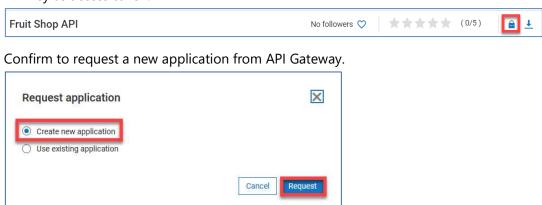


In the left-hand navigation pane, click on **Policies**. The Identify & Authorize policy will be displayed.

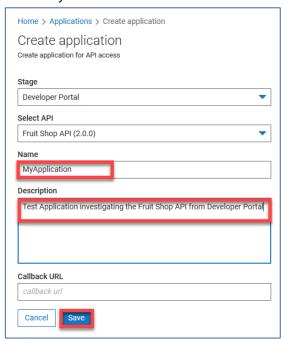
Moreover it is mentioned that the API requires the usage of API Keys for Authentication and Authorization.



d. Click the **Consume** icon to request for a required Application that contains the mandatory API Key as access token.



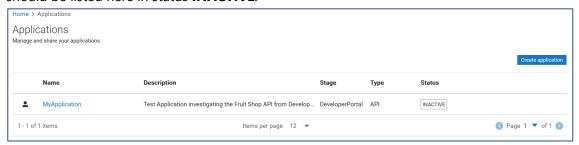
e. On the Create application panel, leave Stage and the API unchanged, and provide
 MyApplication as Application name as well as a description text of your choice.
 Eventually click Save.



You should get a confirmation like this:

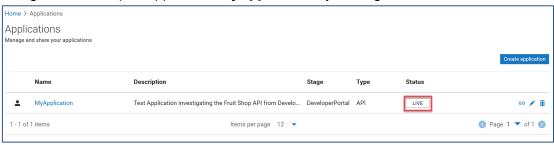


3. Developer Portal will automatically open the Applications page. Your requested Application should be listed here in status **INACTIVE**.



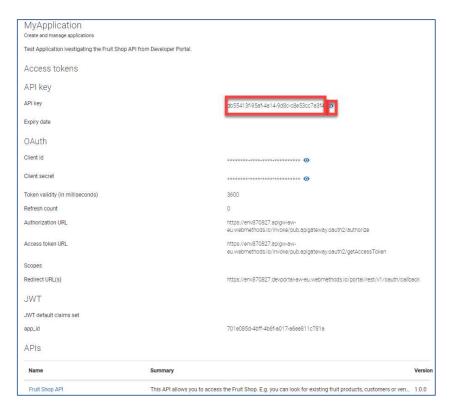
Note: In case the Applications page is not opened by default, you open the page from the User menu (**Manage applications**).

a. After a few seconds, refresh the page in your browser. The Application status should have changed to **LIVE**. Open Application **MyApplication** by clicking its name.

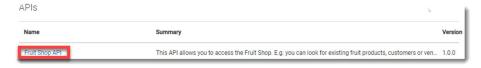


Note: If the Application is still in status INACTIVE, refresh the page after a couple of seconds again. If the status doesn't change at all, double check the credentials you provided in hands-on lab "Secure and Publish your API" at step 3c and re-publish the settings.

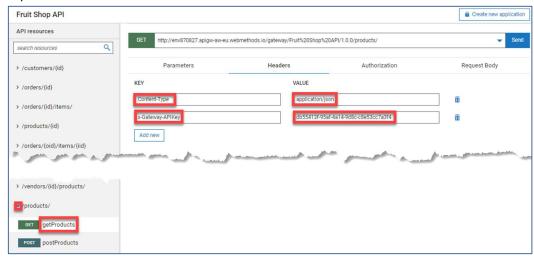
b. As you are the requester/owner of the Application MyApplication, you are allowed to see the generated contained API key value which can be used as a valid access token. Un-hide the value of the API key and copy the value into the clipboard.



c. At the very bottom of the Application details page, the associated API(s) are listed for MyApplication. Select the **Fruit Shop API** to switch back to the API's details page.



- 4. On the Fruit Shop API details page, select **Try API** from the left-hand navigation bar.
 - a. On the Try API page, expand API resource **/products/** in the left-hand navigation bar and select method **getProducts**.
 - b. Open tab Authorization. If not already pre-selected, select MyApplication as Application and set Authorization type to API key.
 - c. Switch to tab **Headers.** Ensure key **Content-Type** is set to **application/json** and a key named **x-Gateway-APIKey** exists with the same API key value still contained in your clipboard.



d. Click **Send** to get a list of all available fruits in json format returned in the response body.

```
Pretty
O Raw
   1 {
                                                                                              □ Сору
           "meta": {
   2
               "count": 86,
   3
              "start": 1,
              "limit": 10,
   5
              "next_link": "/shop/v2/products?start=11&limit=10"
   6
           'products": [
   8
   9
                   "id": 113,
  10
                  "name": "Mango fresh",
  11
                   "self_link": "/shop/v2/products/113"
  12
  13
  14
                   "id": 111,
  15
                  "name": "Salad",
  16
                   "self link": "/shop/v2/products/111"
  17
  18
  19
                   "id": 110,
  20
  21
                  "name": "Mango fresh",
                   "self_link": "/shop/v2/products/110"
  22
  23
  24
                   "id": 108,
  25
                   "name": "Salad",
  26
  27
                   "self_link": "/shop/v2/products/108"
  28
  29
                   0220. 407
```

- e. Expand API resource /products/{id} in the left-hand navigation bar and select method getProduct.
- f. On tab **Parameters**, assign value **10** to key **id**.
- g. Click **Send** again. Detailed product data of product 10 (Lychee) will be returned.

