Practical Exercise: Migrating API Products using the API Controller Tool

Training Objective
In this section, you will learn how to use the API Controller tool. You will learn how to move an API product among different API Manager setups.

Business Scenario
PizzaShack maintains its API Products in multiple environments. The API Products created in the development environment need to be moved to the production environment smoothly.

High-Level Steps
- Prerequisites
- Set up the API Controller tool
- Run the CLI
- Export customer-leasing API product as a zip file
- Import API product using the API Import Export Tool

Prerequisites
You need to have two WSO2 API Manager instances running with the default port offset(0) as the **dev** environment and port offset(2) as the **production** environment and an API product called **customer-leasing** created in the dev environment as described in the documentation.

Set up the API Controller tool

1. Navigate to the API Management Tooling Page and download the tool relevant to your platform.
2. Extract the downloaded archive of the API Controller Tool to the desired location.

Run the CLI

1. Navigate to the working directory where the executable API Controller Tool resides. Execute the following command to start the API Controller Tool.

```
./apictl --help
```

2. Add the dev environment using the following command.

```
./apictl add-env -e dev \
        --apim https://localhost:9443 \
        --token https://localhost:8243/token
```

3. Add the production environment using the following command.

```
./apictl add-env -e production \
        --apim https://localhost:9445 \
        --token https://localhost:8245/token
```

4. Use the following command to list the created environments

```
./apictl list envs
```

Export and Import an API Product

Exporting an API Product

Follow the instructions below to export the API previously created in the **dev** environment.
1. Login to the relevant environment.

```
./apictl login dev -u admin -p admin -k
```

2. List the API Products in the logged in environment.

```
./apictl list api-products -e dev -k
```

3. Run the following command in the CLI to export the customer-leasing API Product as a zipped file.

```
./apictl export api-product -n <API-Product-name> -r <provider> -e <environment> -k
```

Sample command :

```
./apictl export api-product -n customer-leasing -r admin -e dev -k
```

Note: -k is used to accept self signed certificate

<u>Importing an API Product</u>
1. Login to the relevant environment.

```
apictl login production -u admin -p admin -k
```

2. Run the following command in the CLI to import the API.

```
apictl import api-product -f <Path-to-ExportedPack.zip> -e <environment> -k
--import-apis
```

Sample command :

```
apictl import api-product -f customer-leasing_1.0.0.zip -e production -k
--import-apis=true
```

The customer-leasing API product along with the dependent APIs should now be visible after logging in to the Developer Portal of the API Manager instance with port offset(2) which is the production environment.