EXERCISE 06 – MAKE YOUR APPLICATION RESILIENT

SAP Partner Workshop	30 min

Description

In this exercise, you'll learn how

- To make your application resilient
- to implement caching
- to implement fallback

For further reading on SAP Cloud SDK, click link below.
https://www.sap.com/germany/developer/topics/s4hana-cloud-sdk.html

Target group

- Developers
- People interested in learning about S/4HANA extension and SAP Cloud SDK

Goal

The goal of this exercise is to build a basic extension app on Cloud Foundry using Business Partner Example.

Prerequisites

Here below are prerequisites for this exercise.

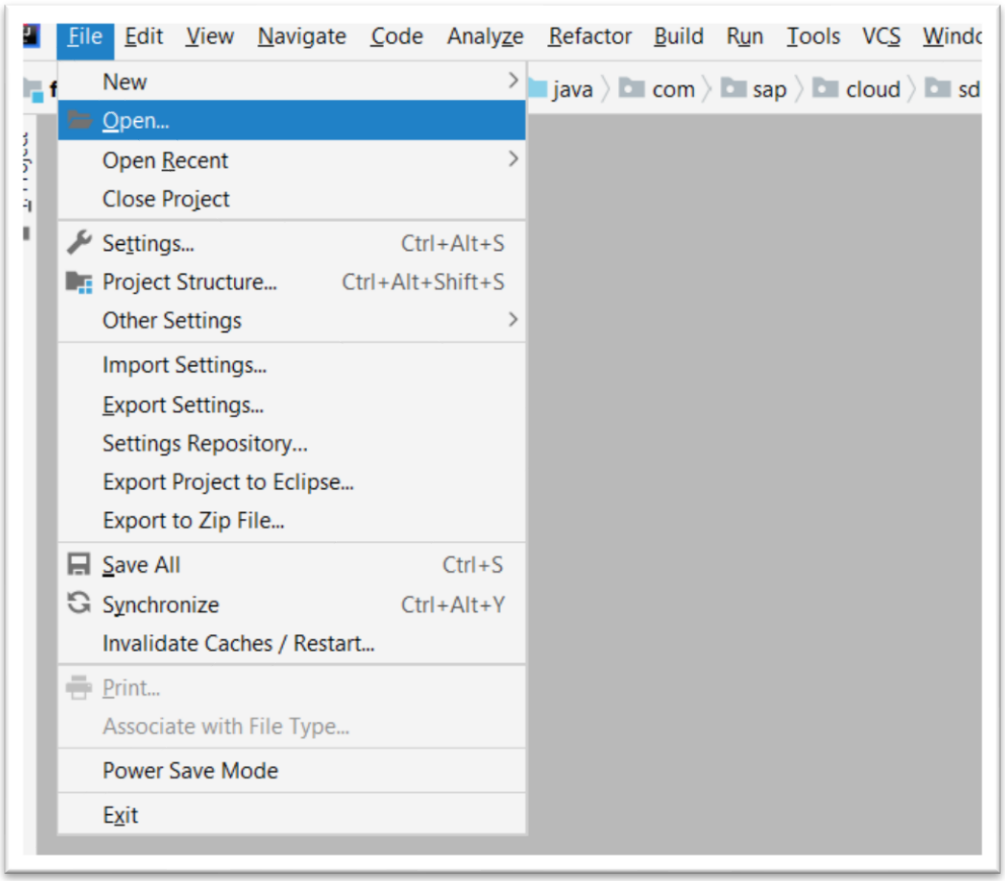
- A trial account on the SAP Cloud Platform. You can get one by registering here https://account.hanatrial.ondemand.com
- Cloud Foundry CLI Tool
- Apache Maven
- Java JDK 8
- IntelliJ IDEA

Refer to Exercise 2 to get step-by-step guide on system setup and pre-requisites.

Step 1 – Download and build the project

Download the Exercise_5_Starting.zip file from here and extract it locally.

Similar to the previous exercise, open the project in IntelliJ Web IDEA.



Open the Servlet file *CreateAddressCommand* and check *constructor* method.

Explore the servlet GetAllBusinessPartnersCommand and observe the caching implementation.

Build the project using below command

```
mvn clean package
```

Step 3 - Deploy to Cloud Foundry

In order to deploy applications on SAP Cloud Foundry we need to provide cf command with an API endpoint. The API endpoint depends on the region you chose for your account.

To get the API end point, refer to the SAP Cloud Cockpit.

For example, in case of EU region, it is - *https://api.cf.eu10.hana.ondemand.com*

Enter the following command.

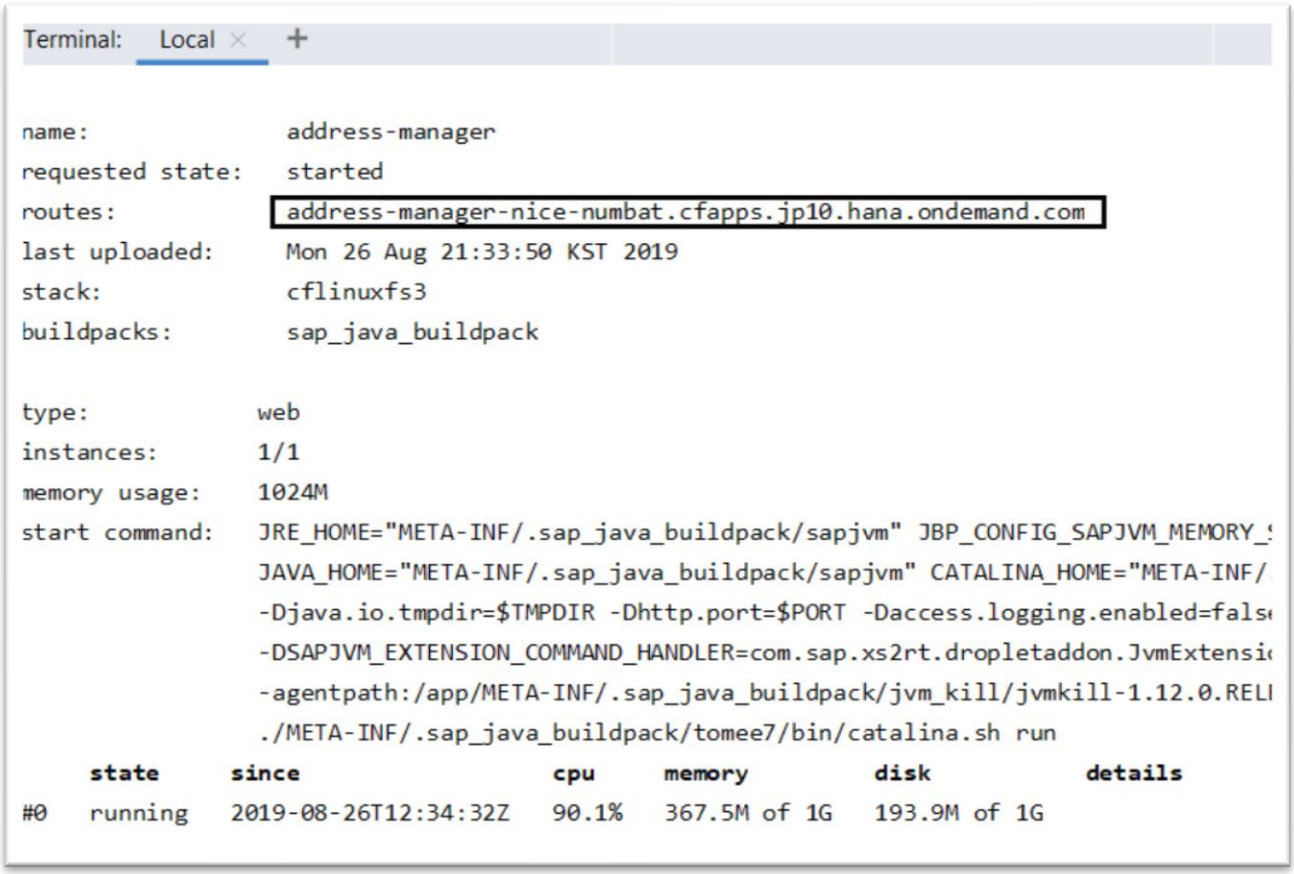
```
cf api https://api.cf.eu10.hana.ondemand.com
cf login
```

Enter your user id and password for SAP Cloud Platform account.

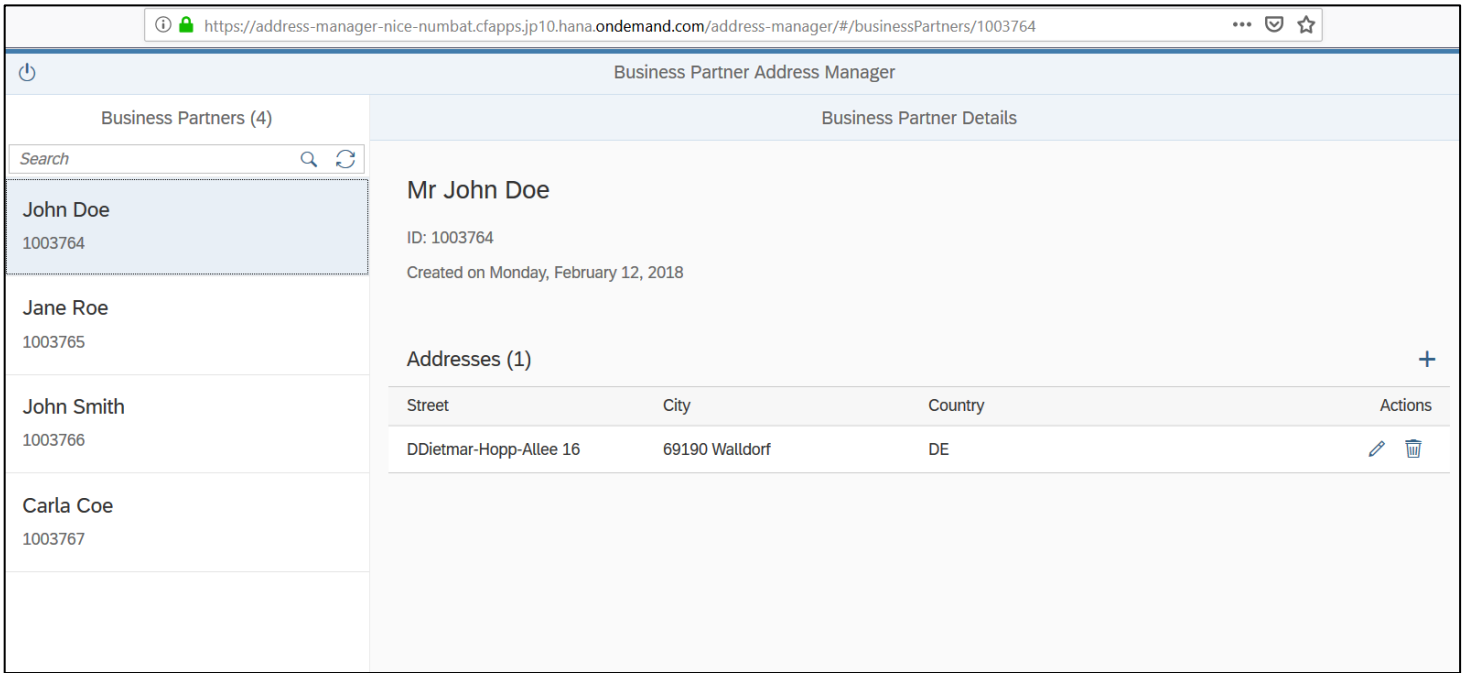
Now, enter below command to deploy your application to SAP Cloud Platform Cloud Foundry environment.

```
cf push
```

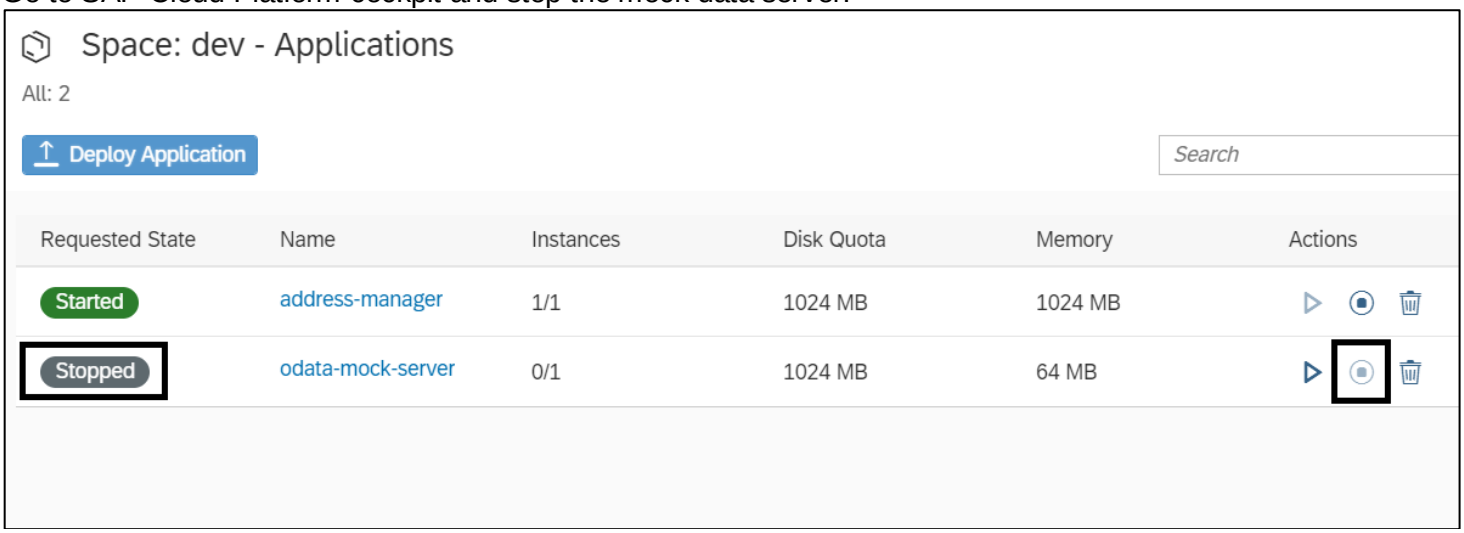
After the deployment is finished, output should look like this:



Now we can visit the application under its corresponding URL as it is shown in the output above. Take the value from *"routes: ..."* and append the ***"/address-manager"*** path. It should show the UI as below.



Go to SAP Cloud Platform cockpit and stop the mock data server.



Run the UI again and observe the behavior.

Congratulation! You have successfully made your application resilient.