

EXERCISE 04 - SET UP A MOCK SERVER

SAP Partner Workshop



30 min

Description

In this exercise, you'll learn how

to set up a mock server

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 create a Maven project for Cloud Foundry using an archetype, build the project and deploy to SAP Cloud Platform.

Prerequisites

None

Step 1 – Download and install Mock Server

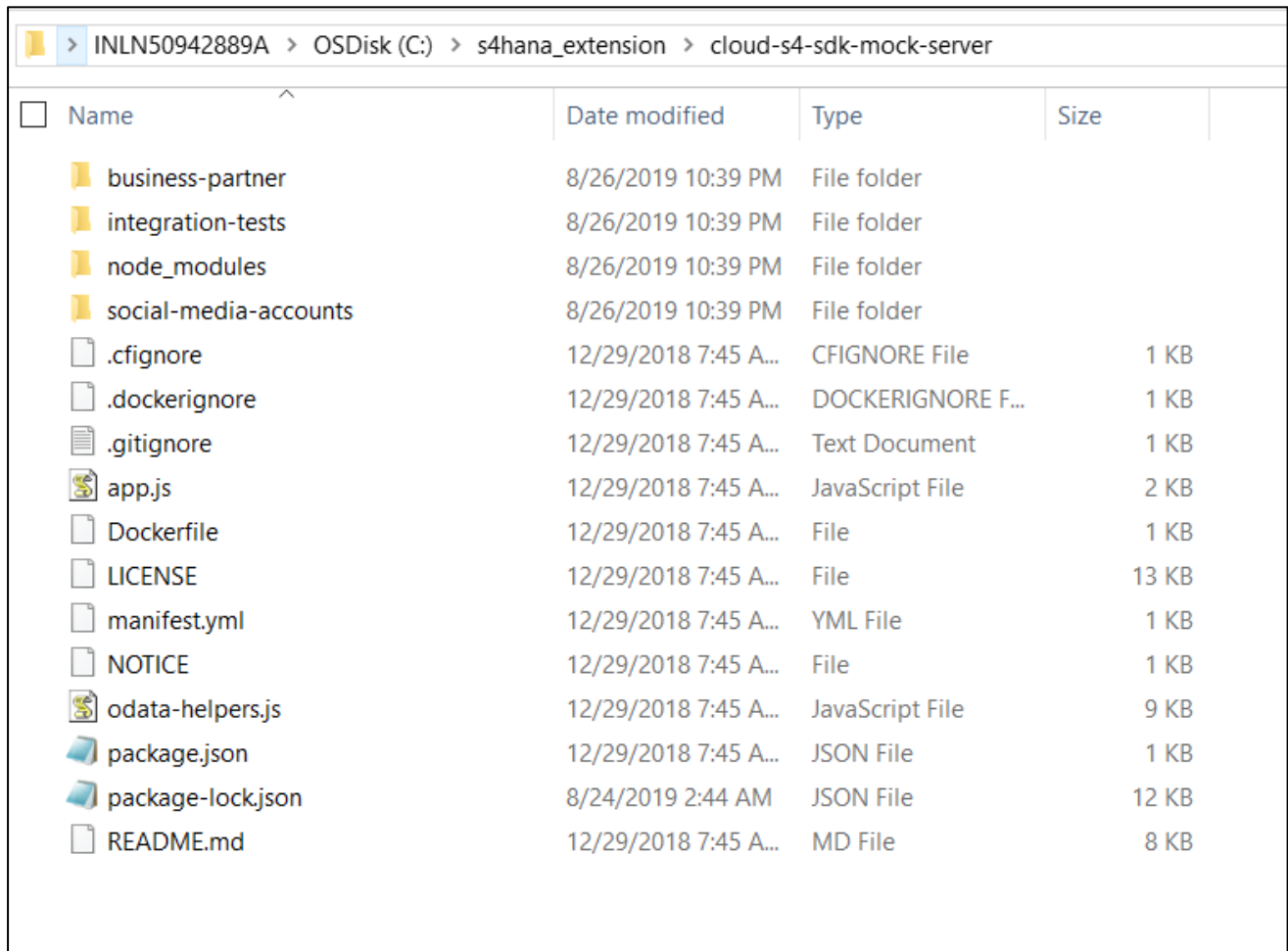
Download the mock server from here -

https://github.com/rajagupta20/s4hana_power_week_apj/blob/master/Day1/mock-server/cloud-s4-sdk-mock-server.zip

This is a simple Node.js-based server that represents an OData mock server. The server makes it possible to test the SAP S/4HANA integration capabilities of the SAP Cloud SDK without access to an SAP S/4HANA system. The server hosts an OData v2 mock service that mimics the business partner API of SAP S/4HANA Cloud to a limited extent.

Note: the server is not secured in any way. Run the server at your own risk and only for experiments. Do not use the server to store any personal data - only use fake data.

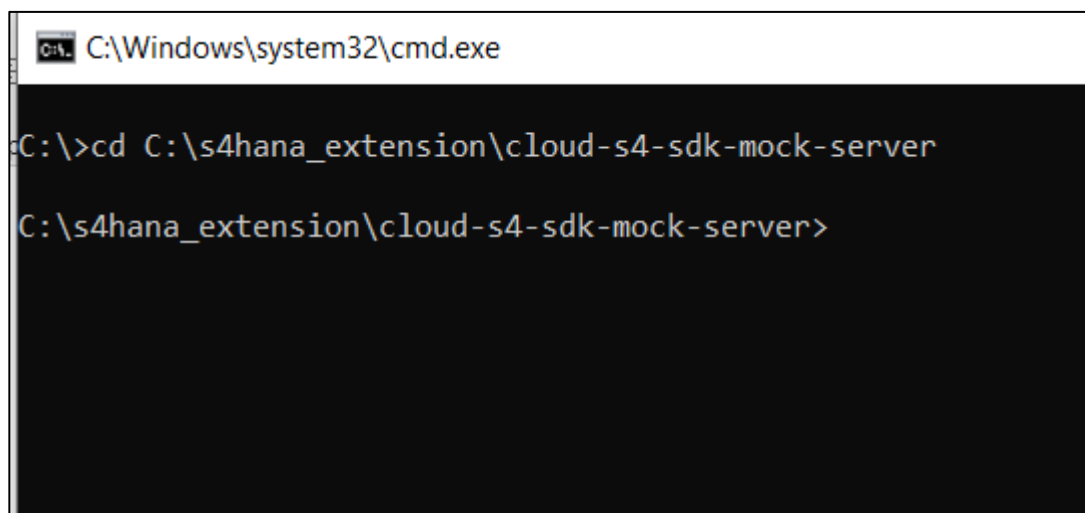
Extract the zip file. It should contain the files as below.



<input type="checkbox"/> Name	Date modified	Type	Size
business-partner	8/26/2019 10:39 PM	File folder	
integration-tests	8/26/2019 10:39 PM	File folder	
node_modules	8/26/2019 10:39 PM	File folder	
social-media-accounts	8/26/2019 10:39 PM	File folder	
.cfignore	12/29/2018 7:45 A...	CFIGNORE File	1 KB
.dockerignore	12/29/2018 7:45 A...	DOCKERIGNORE F...	1 KB
.gitignore	12/29/2018 7:45 A...	Text Document	1 KB
app.js	12/29/2018 7:45 A...	JavaScript File	2 KB
Dockerfile	12/29/2018 7:45 A...	File	1 KB
LICENSE	12/29/2018 7:45 A...	File	13 KB
manifest.yml	12/29/2018 7:45 A...	YML File	1 KB
NOTICE	12/29/2018 7:45 A...	File	1 KB
odata-helpers.js	12/29/2018 7:45 A...	JavaScript File	9 KB
package.json	12/29/2018 7:45 A...	JSON File	1 KB
package-lock.json	8/24/2019 2:44 AM	JSON File	12 KB
README.md	12/29/2018 7:45 A...	MD File	8 KB

Step 2 – Deploy the mock server to SAP Cloud Platform

Open command prompt and go the folder where mock-server content is extracted.



```
C:\Windows\system32\cmd.exe

C:\>cd C:\s4hana_extension\cloud-s4-sdk-mock-server

C:\s4hana_extension\cloud-s4-sdk-mock-server>
```

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:

```
C:\Windows\system32\cmd.exe

Exit status 0
Uploading droplet, build artifacts cache...
Uploading droplet...
Uploading build artifacts cache...
Uploaded build artifacts cache (18.9M)
Uploaded droplet (19M)
Uploading complete
Cell 99c5241b-c223-4a0d-be8f-4dfeaf3f3be4 stopping instance e8ed6245-5449-4788-9ca6
Cell 99c5241b-c223-4a0d-be8f-4dfeaf3f3be4 destroying container for instance e8ed624
Waiting for app to start...
Cell 99c5241b-c223-4a0d-be8f-4dfeaf3f3be4 successfully destroyed container for inst
104ec2a

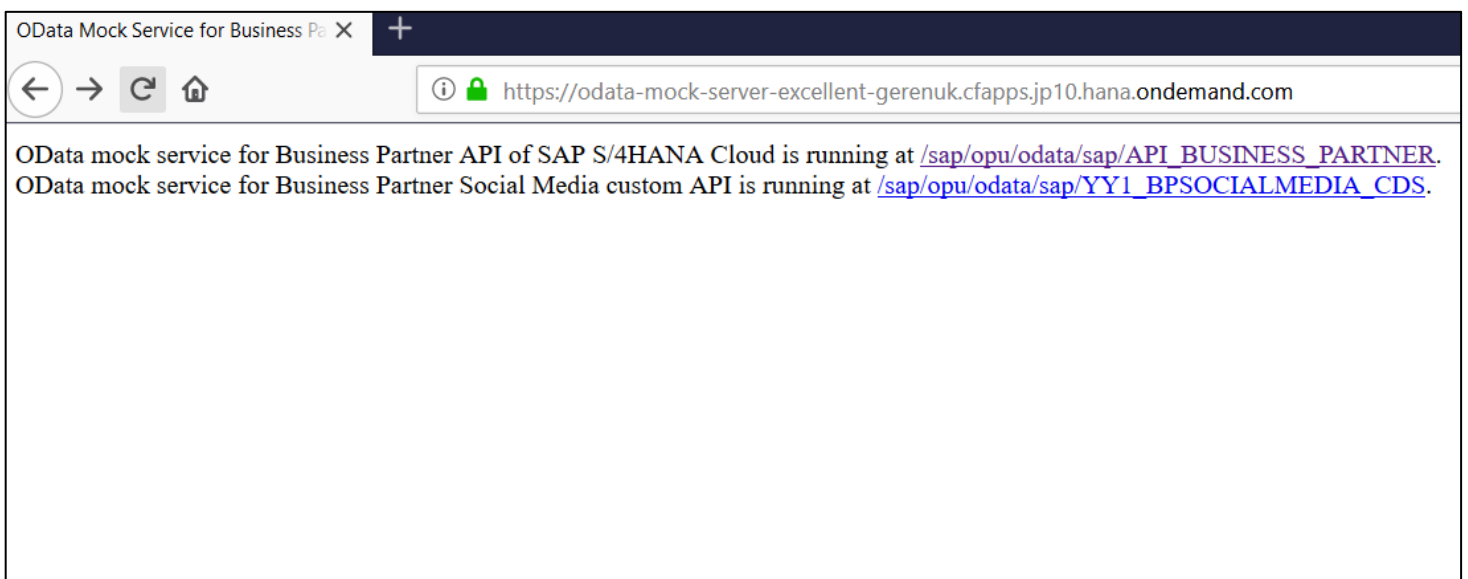
name:          odata-mock-server
requested state: started
routes:        odata-mock-server-excellent-gerenuk.cfapps.jp10.hana.ondemand.com
last uploaded: Mon 26 Aug 23:01:39 KST 2019
stack:         cflinuxfs3
buildpacks:    nodejs

type:          web
instances:     1/1
memory usage:  64M
start command: npm start

   state   since                cpu    memory        disk           details
#0  running  2019-08-26T14:02:07Z   6.2%   32.1M of 64M   69.9M of 1G

C:\s4hana_extension\cloud-s4-sdk-mock-server>
```

Copy the routes and run in a browser. The output should be as below.



Congratulation! You have successfully setup mock server.