JOBSHEET 13
CLOUD SERVERLESS

Arranged By:

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PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

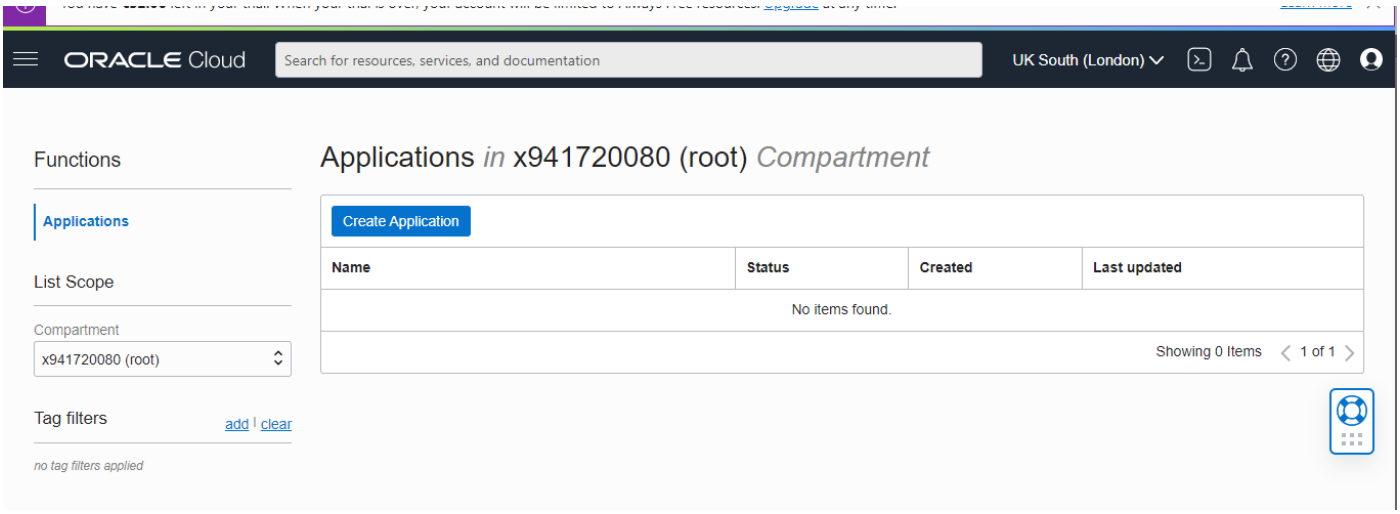
POLITEKNIK NEGERI MALANG

Practicum 1

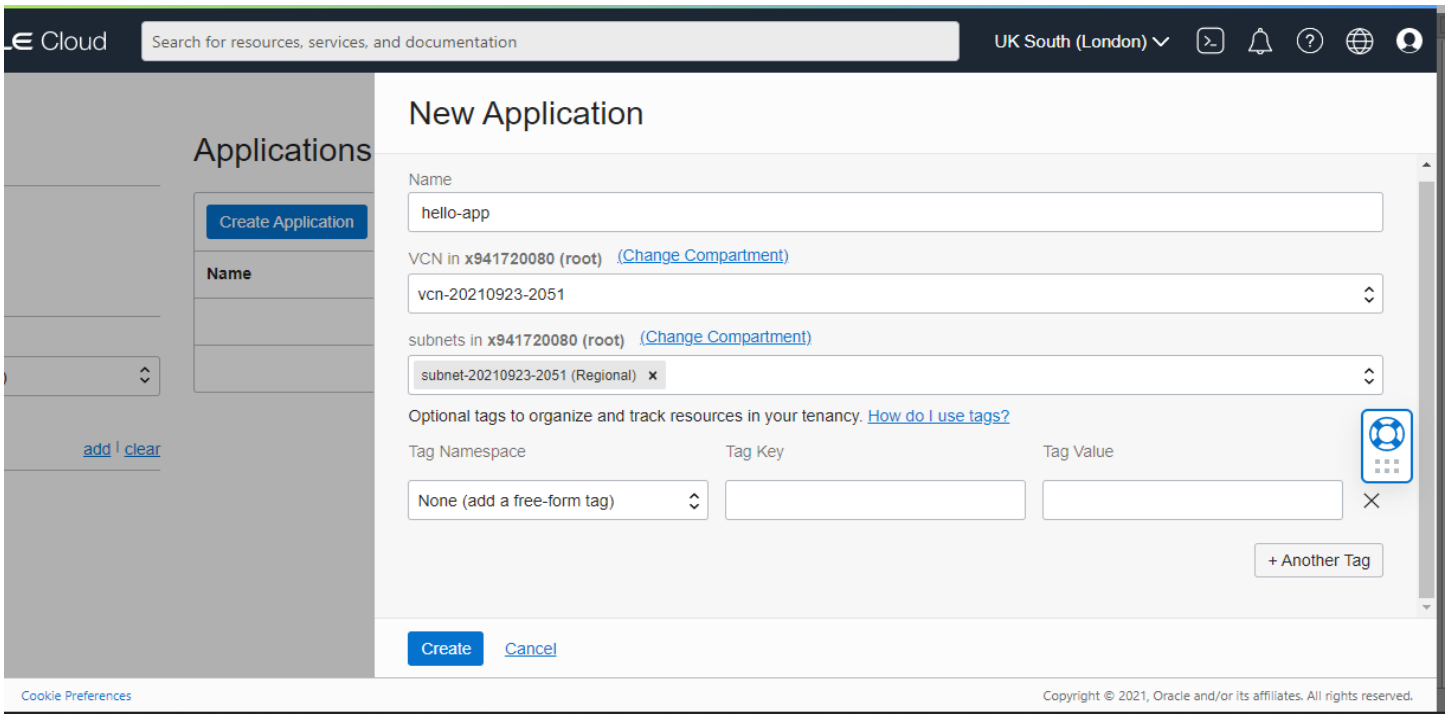
(Hello World Fuction)

1. Create Application and Function

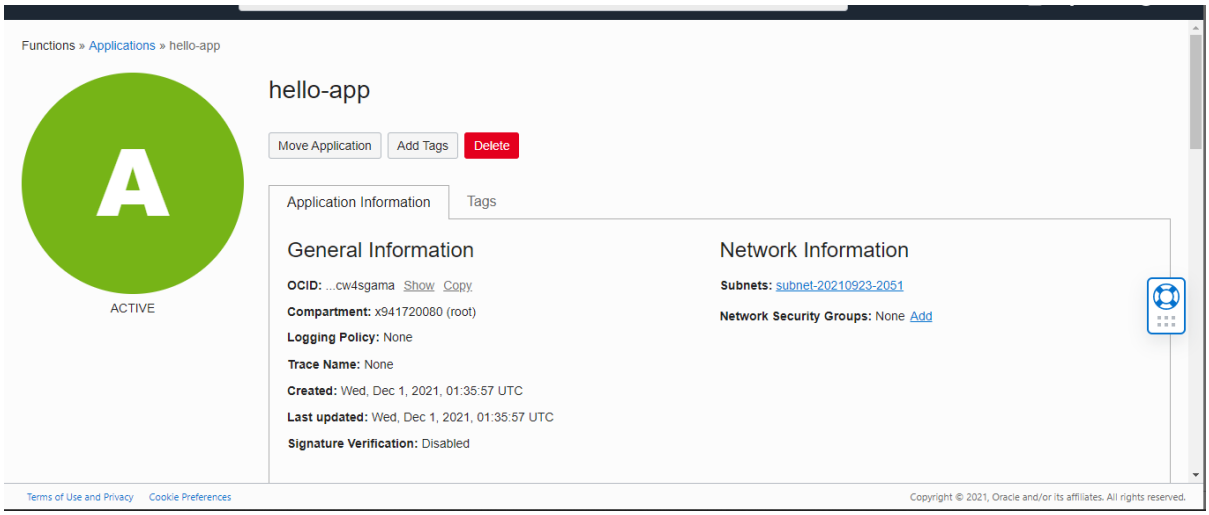
- Login to Oracle and navigate to Developer Services Menu → Application



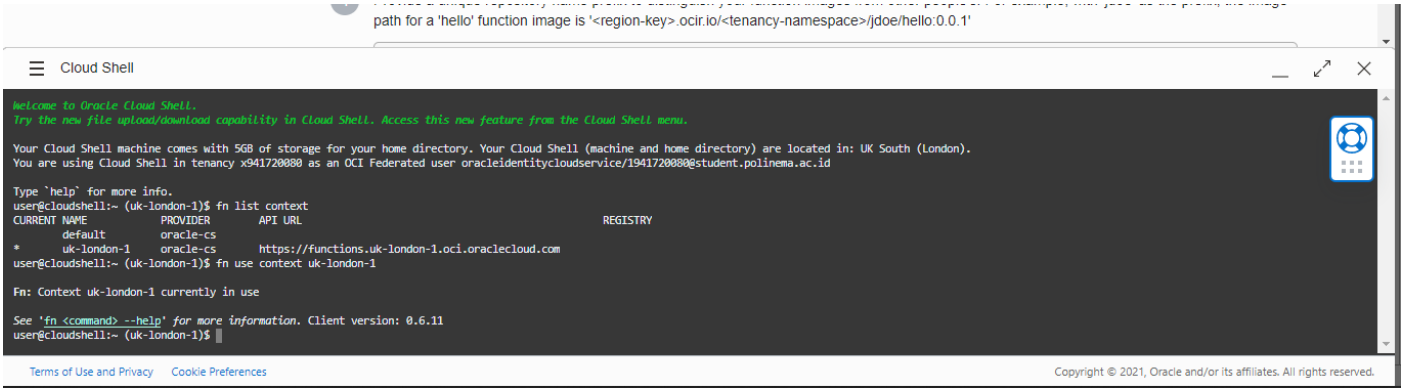
- Click Create Application , fill the form and click Create



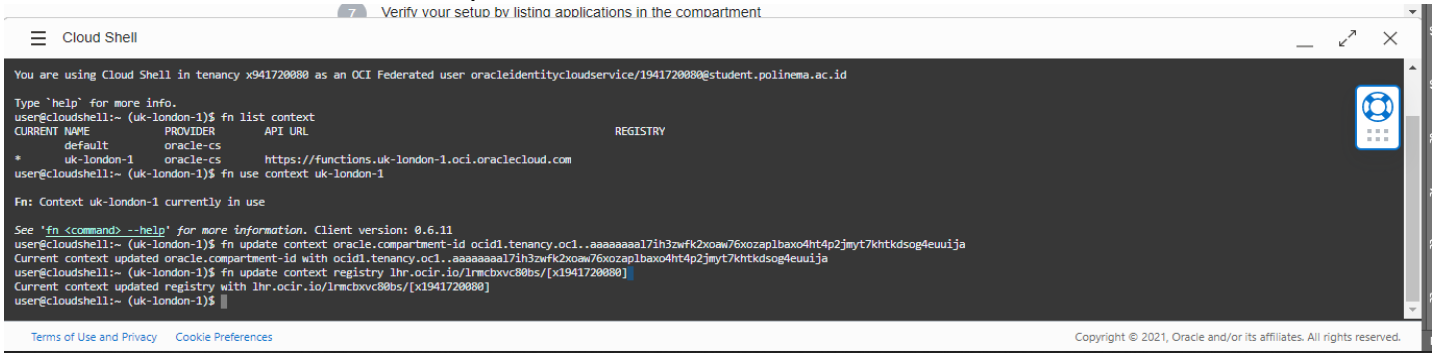
- Result After Click Create Button



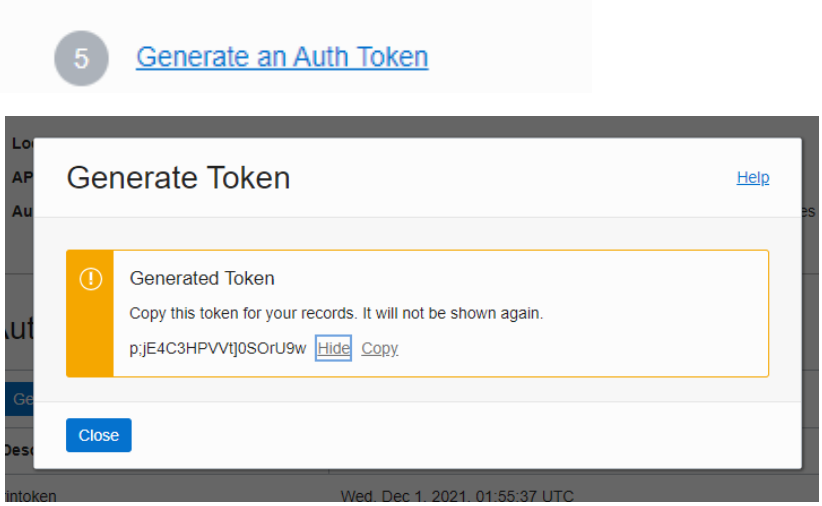
- Follow the steps given by cloud
- Activate Cloud Shell with click Launch Cloud Shell button , Wait until built is done.



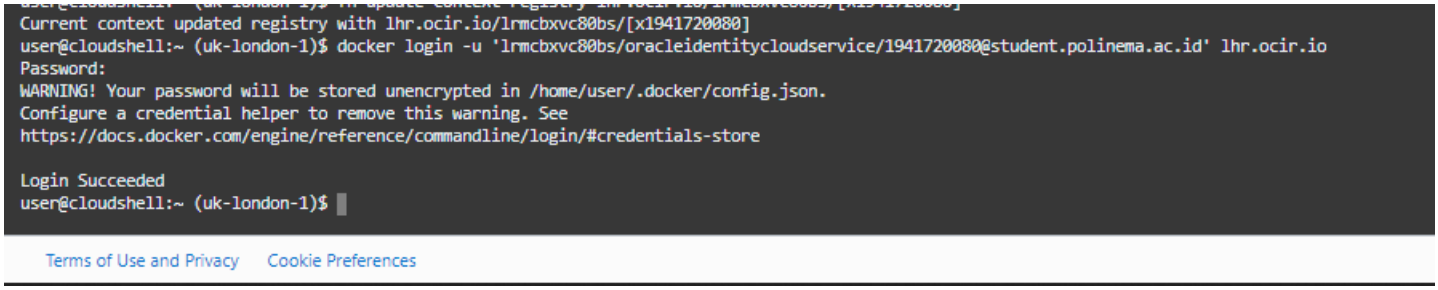
- Follow step by step by copying the command and then pasting it into cloudshell terminal.
- Change value of [repo-name-prefix] with username / repository name. For example X941720080



- Generate Token with click the button and fill the form description for ex: (faas) and save → **(p;jE4C3HPVVt]0SOrU9w)**



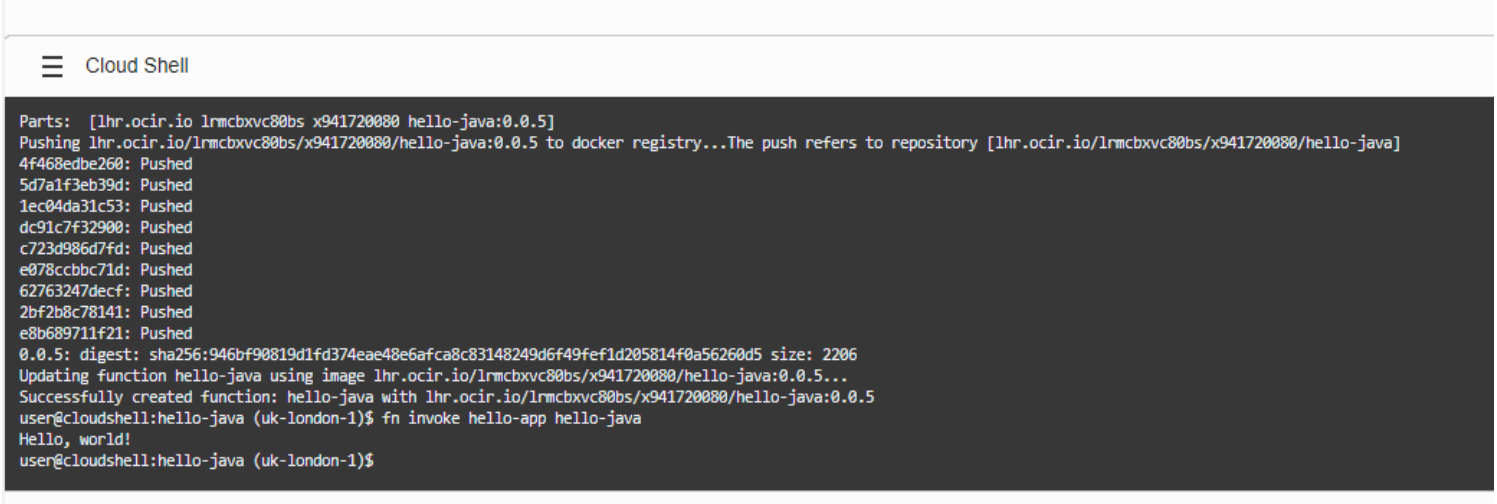
- Paste the token as Password and make sure process of authentification is Sucess



- Follow Step by Step until you Sucessfully displan ‘Hello World’

➔ **fn list apps**
➔ **fn init --runtime java hello-java**
➔ **ls**
➔ **cd hello-java**
➔ **fn -v deploy --app hello-app**
➔ **fn invoke hello-app hello-java**

OUTPUT



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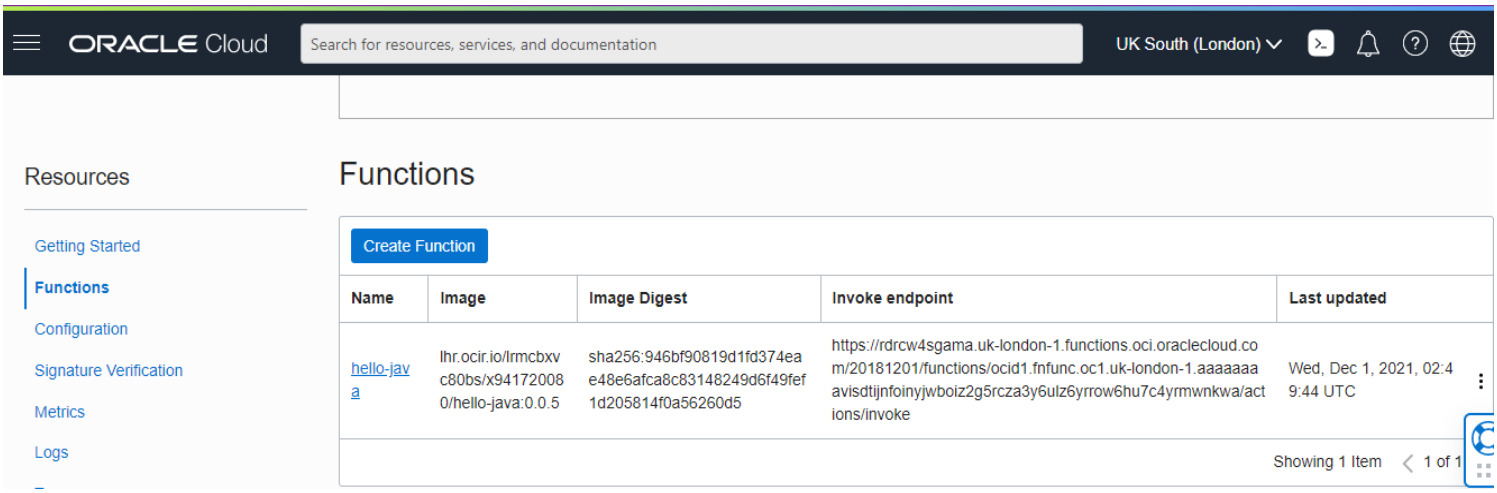
- Navigate to Function menu to see details available function



Practicum 2

(Calling Function)

1. In addition to using fn, FaaS functions can also be called using oci-cli.
2. Copy invoke endpoint then call with format below :

➔ **oci raw-request --http-method POST --target-uri https://rdrcw4sgama.uk-london-1.functions.oci.oraclecloud.com/20181201/functions/ocid1.fnfunc.oc1.uk-london-1.aaaaaaaavisdtijnfoinyjwboiz2g5rcza3y6ulz6yrrow6hu7c4yrmwnkwa/actions/invoke**

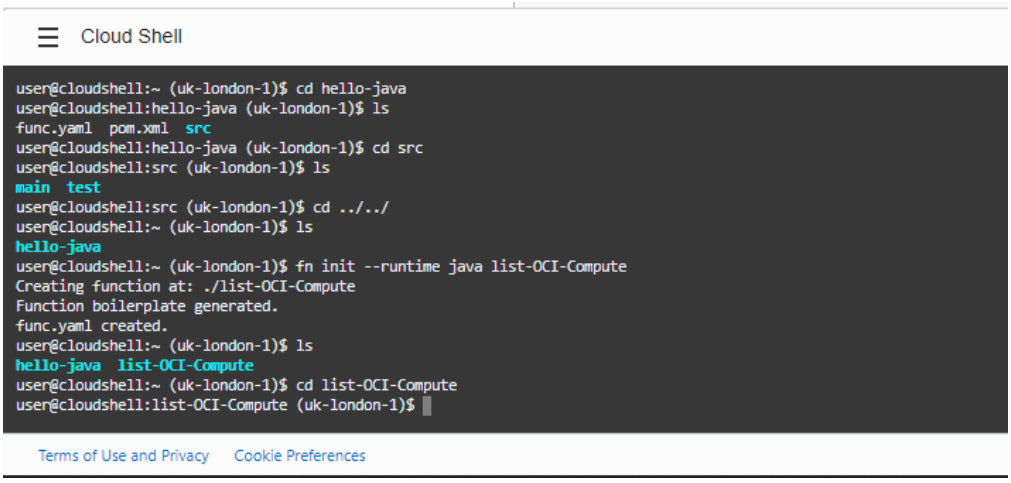
```
bash: @oci: command not found
user@cloudshell:~ (uk-london-1)$ oci raw-request --http-method POST --target-uri  https://rdrcw4sgama.uk-london-1.functions.oci.oraclecloud.com/20181201/functions/ocid1.fnfunc.oc1.uk-london-1.aaaaaaaavisdtijnfoinyj
g5rcza3y6ulz6yrrow6hu7c4yrmwnkwa/actions/invoke
{
  "data": "Hello, world!",
  "headers": {
    "Content-Length": "13",
    "Content-Type": "text/plain",
    "Date": "Wed, 01 Dec 2021 02:59:36 GMT",
    "Fn-Call-Id": "01FNSYXRAQ1BT071GZJ000B7BP",
    "Fn-Fdk-Runtime": "java/OpenJDK 64-Bit Server VM 11.0.13",
    "Fn-Fdk-Version": "fdk-java/1.0.142 (jvm=OpenJDK 64-Bit Server VM, jvmv=11.0.13)",
    "Opc-Request-Id": "B483488F1E3542AFA32DD9FE2DA88628/01FNSYXR3X000000000000PW44/01FNSYXR3X000000000000PW45"
  },
  "status": "200 OK"
}
user@cloudshell:~ (uk-london-1)$
```

Assignment

(Deploy Function)

1. **Choose 1 fuction from → https://github.com/oracle/oracle-functions-samples.git**
2. **Type Syntax below :**

→ fn init --runtime java oci-list-instances-java
→ ls
→ cd oci-list-instances-java



→ Check File Java the Folder -> src/main/java/com/example/fn/ComputeInstancesList.java
→ COPY THIS JAVA CODE into ComputeInstancesList.java
→ Nano ComputeInstancesList.java
→ Cd
→ fn invoke hello-app hello-jav