

## UNIVERSITY OF PETROLEUM & ENERGY STUDIES Dehradun

### **ACO LAB**

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### **EXPERIMENT-6**

# <u>AIM</u>: Working with Docker Compose File to Control multiple Containers

#### 1. Creating compose files

Create a directory named nginx in your root.

"mkdir nginx"

```
91983@DELL MINGW64 ~/OneDrive/Desktop/SEM5/ACO-
$ mkdir nginx
```

· Switch to that directory and create a file named docker-compose.yaml

"cd nginx"

```
91983@DELL MINGW64 ~/OneDrive/Desktop/SEM5/ACO-LAB-2021
$ cd ./nginx
```

"vi docker-compose.yml"

91983@DELL MINGW64 ~/OneDrive/Desktop/SEM5/ACO-LAB-2021-25(Local vi docker-compose.yml

- · Use docker-compose "version 2" to create docker-compose.yaml file.
- · Create a service named "databases". Use image named "mysql"
- · Map container 3306 port to host machine 3307 port.
- · Add environment variables named "MYSQL\_ROOT\_PASSWORD", "MYSQL\_DATABASE", "MYSQL\_USER" and "MYSQL\_PASSWORD" along with corresponding values for all.

```
nginx > docker-compose.yml
       version: '2'
  1
       services:
         databases:
           image: mysql
           ports:
             - "3307:3306"
           env file:
             - evs.env
         web:
           image: nginx
           ports:
 11
             - "80:80"
 12
           depends_on:
 13
             - databases
```

### 2. Running images using docker-compose

· Save docker-compose.yaml file and do "docker-compose up".

"docker-compose up -d"

Verify nginx service is up and is accessible on machine.

" curl localhost:80"

```
91983@DELL MINGW64 ~/OneDrive/Desktop/SEM5/ACO-LAB-2021-25(Local)/my-web-app/nginx (main)
$ curl localhost:80
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; } body { width: 35em; margin: 0 auto; font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.
For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.
Thank you for using nginx.
</body>
```

Stop and remove your docker container using docker-compose.

"docker-compose down"

```
91983@DELL MINGW64 ~/OneDrive/Desktop/SEM5/ACO-LAB-2021-25(Local)/my-web-app/nginx (main) $ curl localhost:80 curl: (7) Failed to connect to localhost port 80 after 2248 ms: Connection refused
```