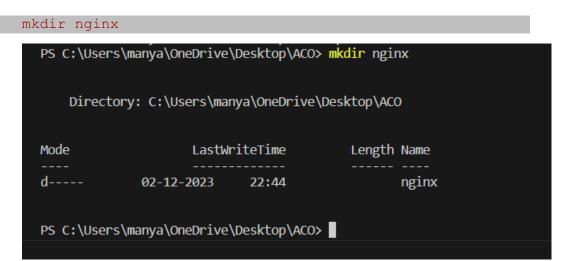
### **EXPERIMENT 6**

## **AIM: Working with Docker Compose File to Control Multiple Containers**

## **Steps to Complete:**

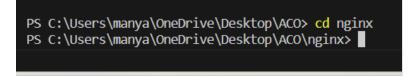
# **Creating compose files**

Create a directory named nginx in your root.

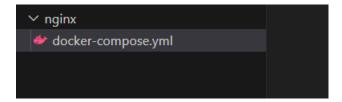


Switch to that directory and create a file named docker-compose.yaml

cd nginx



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 3306 port.

Add environment variables named "MYSQL\_ROOT\_PASSWORD", "MYSQL\_DATABASE", "MYSQL\_USER" and "MYSQL\_PASSWORD" along with corresponding values for all.

```
cat evs.env
```

```
MYSQL_ROOT_PASSWORD=redhat08
MYSQL_DATABASE=nginxdb
MYSQL_USER=root
```

Add another service named "web" Use image "nginx"

#### cat docker-compose.yml

```
version: '3'
services:
  databases:
  image: mysql
  ports:
    - "3307:3306"
  env_file:
    - evs.env
  web:
  image: nginx
  ports:
    - "80:80"
  depends_on:
  - databases
```

### 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

```
PS C:\Users\manya\OneDrive\Desktop\ACO\nginx> curl 127.0.0.1:80
StatusCode
                  : 200
StatusDescription: OK
                  : <!DOCTYPE html>
Content
                    <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...
                  : HTTP/1.1 200 OK
RawContent
                    Connection: keep-alive
                    Accept-Ranges: bytes
                    Content-Length: 615
                    Content-Type: text/html
                    Date: Sat, 02 Dec 2023 17:52:10 GMT
```

(i) localhost



# Welcome to nginx!

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="nginx.org">nginx.org</a>. Commercial support is available at <a href="nginx.com">nginx.com</a>.

Thank you for using nginx.

Stop and remove your docker container using docker-compose.

docker-compose down