

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.

```
mkdir nginx
```

- ❖ 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
```

```
≡ evs.env
1  MYSQL_ROOT_PASSWORD=redhat08
2  MYSQL_DATABASE=nginxdb
3  MYSQL_USER=root
```

```

👉 docker-compose.yml > {} services > {} web > [ ] depends_on
    docker-compose.yml - The Compose specification establishes a standard for the definition of
1  version: '3'
2  services:
3      databases:
4          image: mysql
5          ports:
6              - "3307:3306"
7          env_file:
8              - evs.env
9      web:
10         image: nginx
11         ports:
12             - "80:80"
13         depends_on:
14             - databases

```

Running images using docker-compose

- ❖ Save docker-compose.yml file and do docker-compose up.

```

● (base) vanshika@VANSHIKAs-MacBook-Air nginx % docker-compose up -d

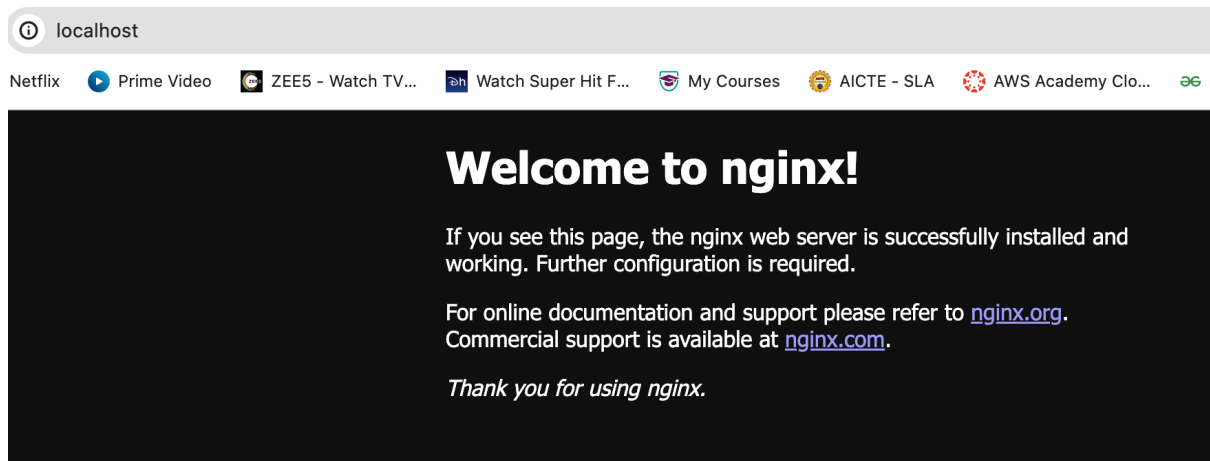
[+] Running 11/11
✓ databases 10 layers [#####] 0B/0B Pulled
✓ e39ec8f010eb Pull complete
✓ e2b7fadc33ec Pull complete
✓ 9d193449aafd Pull complete
✓ 6ea497c74b15 Pull complete
✓ 7778acbf55f3 Pull complete
✓ a633e58f9669 Pull complete
✓ edd3047f9b4b Pull complete
✓ 70ae0c334fe1 Pull complete
✓ b139fc79e81c Pull complete
✓ 6956b492354c Pull complete
[+] Running 3/3
✓ Network nginx_default Created
✓ Container nginx-databases-1 Started
✓ Container nginx-web-1 Started

```

```
docker-compose up -d
```

- ❖ Verify nginx service is up and is accessible on machine.

```
curl localhost:80
```



Stop and remove your docker container using docker-compose.

```
docker-compose down
```

