EXPERIMENT 6

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В4

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

C:\Users\Sudhanshu>mkdir nginx

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

cd nginx

vi docker-compose.yml

C:\Users\Sudhanshu>cd nginx

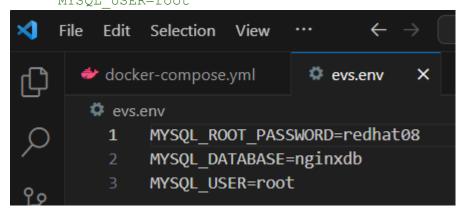
Use docker-compose version 2 to create docker-compose.yaml file. Create a service named "databases". Use image named "mysql"

Map container 3306 port to host machine 3306 port.

```
Edit
         Selection
File
                  View
  docker-compose.yml X
   docker-compose.yml
         version: '3'
         services:
           databases:
             image: mysql
             ports:
               - "3307:3306"
              env file:
               - evs.env
              image: nginx
              ports:
               - "80:80"
              depends on:
                - databases
```

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

(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 $\underline{nginx.org}$. Commercial support is available at $\underline{nginx.com}$.

Thank you for using nginx.

Stop and remove your docker container using docker-compose.

docker-compose down