EXPERIMENT 6

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B4

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

```
PS C:\Users\sharm> cd nginx
PS C:\Users\sharm\nginx>
```

vi docker-compose.yml

```
X
    File
         Edit Selection View Go
                                         Terminal
                                   Run
                                                  Help
       docker-compose.yml.yml X
       C: > Users > SMIT > nginx > � docker-compose.yml.yml
          1
              version: '3'
              services:
                 databases:
                   image: mysql
                   ports:
                     - "3307:3306"
                   env_file:
                     - evs.env
                 web:
         10
                   image: nginx
         11
                   ports:
         12
                     - "80:80"
         13
                   depends_on:
         14
                     - databases
```

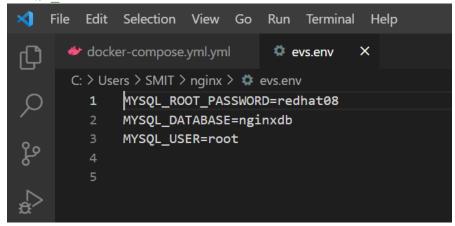
Use docker-compose version 2 to create docker-compose.yaml file. Create a service named "databases". Use image named "mysql"

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.

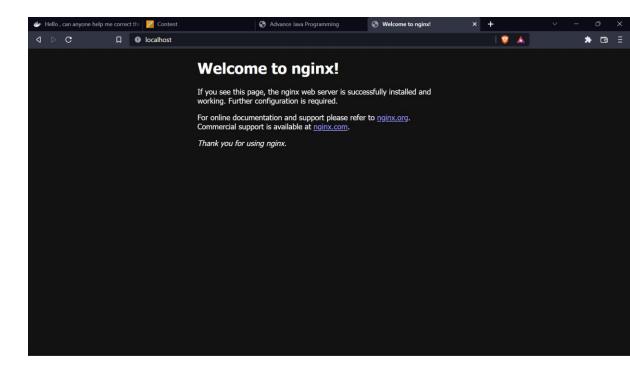
```
C:\Users\SMIT\nginx>docker-compose up -d

[+] Running 19/19

- databases Pulled
- 851419db99db Pull complete
- 7627873fs83a Pull complete
- 34953aff4b95 Pull complete
- a44b358d7796 Pull complete
- a1fa3bee53f4 Pull complete
- a1fa3bee53f4 Pull complete
- a1fa3bee53f4 Pull complete
- b4b4368b1993 Pull complete
- b4b4368b1993 Pull complete
- d803d4215f95 Pull complete
- d803d4215f95 Pull complete
- d35858f7f07 Pull complete
- 435e998cd69 Pull complete
- 435e998cd69 Pull complete
- 31b3f1addcal Pull complete
- 36953fbabc6 Pull complete
- 36932c8fbab Pull complete
- 18f44fd25f4 Pull complete
- 36932c8fbab Pull complete
- 9dc932c8fbab Pull complete
- 9dc932c8fbab Pull complete
- 600c24b8bab Pull complete
- 600c24b8bab Pull complete
- 600c2tb8bab Pull complete
- 600c7tb8bab Pull c
```

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

