Name -Anmol Yadav

SAP ID -500083814

EXPERIMENT 6

AIM: Working with Docker Compose File to Control Multiple Containers Creating compose files

Create a directory named nginx in your root.

Command: mkdir nginx

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

Command: cd nginx

Command: vi docker-compose.yml

```
C:\Users\anmol>mkdir nginx
C:\Users\anmol>cd nginx
:\Users\anmol\nginx>dir
Volume in drive C is Windows
Volume Serial Number is 2E31-173E
Directory of C:\Users\anmol\nginx
21-09-2022
                        <DIR>
21-09-2022
             11:10
                        <DIR>
21-09-2022
                                     174 docker-compose.yml
             11:32
                                    69 evs.env
243 bytes
21-09-2022
             11:34
                 2 File(s) 243 bytes
2 Dir(s) 332,387,037,184 bytes free
```

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.

Create a file: evs.env

```
1 MYSQL_ROOT_PASSWORD=redhat08
2 MYSQL_DATABASE=nginxdb
3 MYSQL_USER=root
```

Running images using docker-compose

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

Command: docker-compose up -d

```
C:\Users\anmol\nginx>docker-compose up -d
Creating network "nginx_default" with the default driver
Pulling databases (mysql:)...
latest: Pulling from library/mysql
051f419db9dd: Pull complete
7627573fa82a: Pull complete
a44b358d7796: Pull complete
95753aff4b99: Pull complete
s1fa3bee53f4: Pull complete
65227e0d612c: Pull complete
f5227e0d612c: Pull complete
f5227e0d612c: Pull complete
d84b368b1983: Pull complete
d803d4215f95: Pull complete
d803d4215f95: Pull complete
d83s8a7f7d07: Pull complete
d5358a7f7d07: Pull complete
Digest: sha256:b9532b1edea72b6cee12d9f5a78547bd3812ea5db842566e17f8b33291ed2921
Status: Downloaded newer image for mysql:latest
Pulling meb (nginx:)...
latest: Pulling from library/nginx
31b3f1ad4ce1: Pull complete
642tb079d0f8: Pull complete
3058sfbbebc6: Pull complete
18f4ffdd25f4: Pull complete
18f4ffdd25f4: Pull complete
09ce32ds8fba2: Pull complete
09dc932cs8fba2: Pull complete
09dc932cs8fba2: Pull complete
Digest: sha256:09570013351304af46f322da1263516b188318682b2ab1091862497591189ff1
Status: Downloaded newer image for nginx:latest
Creating nginx_databases_1 ... done
Creating nginx_databases_1 ... done
Creating nginx_databases_1 ... done
```

Verify nginx service is up and is accessible on machine.

Command: curl localhost:80

```
::\Users\anmol\nginx>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>.
<em>Thank you for using nginx.</em>
</body>
</html>
C:\Users\anmol\nginx>
```

Welcome to nginx!

If you see this page, the nginx web server is successfully installed working. Further configuration is required.

For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.

Thank you for using nginx.

Stop and remove your docker container using docker-compose.

Command: docker-compose down

```
C:\Users\anmol\nginx>docker-compose down
Stopping nginx_web_1 ... done
Removing nginx_web_1 ... done
Removing nginx_databases_1 ... done
Removing network nginx_default
C:\Users\anmol\nginx>
```