Experiment: 5 (Docker-Compose)

Aim: Multi-container setup using Docker Compose.

Step: 1 Installing Docker-Compose

Step: 2 Apply executable permissions to the binary

```
[root@mansi ~] # sudo chmod +x /usr/local/bin/docker-compose [root@mansi ~] #
```

Step: 3 Test the installation.

```
[root@mansi ~]# docker-compose --version
docker-compose version 1.28.4, build cabd5cfb
[root@mansi ~]#
```

Step: 4 Create db.env file with below code

```
[root@mansi ~]# vi db.env
[root@mansi ~]#
```

Step: 5 Create docker-compose.yml file with below code

```
[root@mansi ~] # vi docker-compose.yml
[root@mansi ~]#
root@mansi:~
version: '3'
services:
  databases:
      image: mysql
      ports:
        - "3000:3306"
      env file:

    db.env

  web:
      image: nginx
      ports:
        - "81:80"
      depends on:

    databases
```

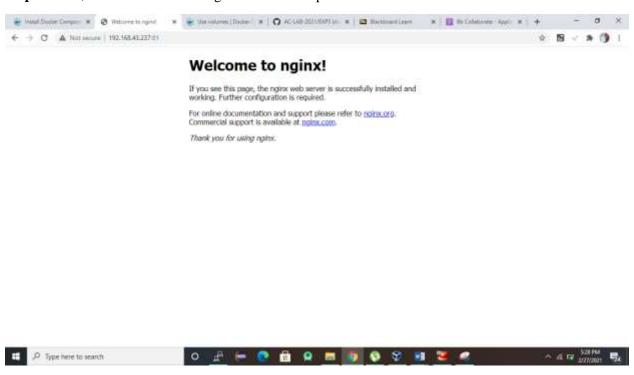
Step: 6 Run docker-compose up –d command

```
Building with native build, Learn about native build in Compose here; https://docs.docker.com/go/compose-native-build/
Creating network "root_default" with the default driver
Pulling databases (mysql:) ...
latest: Pulling from library/mysql
45b42c59be33: Pull complete
698088ef136c: Pull complete
4690143a669e: Pull complete
f7599a246fd6: Pull complete
35a55bf0c196: Pull complete
790ac54f4c47: Pull complete
b0ddd5d1b543: Pull complete
laefd67cb33d: Pull complete
Digest: sha256:770684c382be813b58ef514f2bdac747cd463a6866c6c8l165d4Zald0e4fe947
Status: Downloaded newer image for mysql:latest
ec3bd7de90d7: Pull complete
19e2491aeeab: Pull complete
f5a38c5f8d4e: Pull complete
83500d851118: Pull complete
 Status: Downloaded newer image for nginx:latest
Creating root web_1 ... done
[root@mans1 -]# v1 docker-compose.yml
[root@mansi -]#
```

Step :7 We can see two containers have been launched.



Step: 8 Now, we are all set to use nginx server at 81 port of our machine.



Step: 9 Run docker-compose down command to delete running containers through docker-compose.yml file.

```
[root@mansi ~] # docker-compose down
Stopping root_web_1 ... done
Stopping root_databases_1 ... done
Removing root_web_1 ... done
Removing root_databases_1 ... done
Removing network root_default
[root@mansi ~] #
```