

Experiment - 5 (Docker Compose)

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➔ Installing docker-compose

```
vagrant@ubuntu-xenial:~$ docker-compose --version
The program 'docker-compose' is currently not installed. To run 'docker-compose' please ask your administrator to install the package 'docker-compose'
vagrant@ubuntu-xenial:~$ sudo curl -L https://github.com/docker/compose/releases/download/1.21.2/docker-compose-$(uname -s)-$(uname -m) -o /usr/local/bin/docker-compose
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 633 100 633    0     0  641      0 --:--:-- --:--:-- --:--:--  641
100 10.3M 100 10.3M    0     0 4230k      0  0:00:02  0:00:02 --:--:-- 10.2M
vagrant@ubuntu-xenial:~$ sudo chmod +x /usr/local/bin/docker-compose
vagrant@ubuntu-xenial:~$ docker-compose --version
docker-compose version 1.21.2, build a133471
```

➔ Creating docker-compose.yml file

```
vagrant@ubuntu-xenial:~$ sudo mkdir nginx
vagrant@ubuntu-xenial:~$ ls
dockerfile  index.html  nginx
vagrant@ubuntu-xenial:~$ cd nginx
vagrant@ubuntu-xenial:~/nginx$ touch docker-compose.yml
touch: cannot touch 'docker-compose.yml': Permission denied
vagrant@ubuntu-xenial:~/nginx$ sudo touch docker-compose.yml
vagrant@ubuntu-xenial:~/nginx$ ls
docker-compose.yml
vagrant@ubuntu-xenial:~/nginx$ sudo nano docker-compose.yml
vagrant@ubuntu-xenial:~/nginx$ cat docker-compose.yml
version: '3'
services:
  databases:
    image: mysql
    ports:
      - "3307:3306"
    env_file:
      - envs.env
  web:
    image: nginx
    ports:
      - "80:80"
    depends_on:
      - databases
```

➔ Creating envs.env file

```
vagrant@ubuntu-xenial:~/nginx$ touch envs.env
touch: cannot touch 'envs.env': Permission denied
vagrant@ubuntu-xenial:~/nginx$ sudo touch envs.env
vagrant@ubuntu-xenial:~/nginx$ sudo nano envs.env
vagrant@ubuntu-xenial:~/nginx$ cat envs.env
MYSQL_ROOT_PASSWORD=redhat00
MYSQL_DATABASE=nginxdb
MYSQL_USER=root
```

➔ Running “docker-compose up -d” command

```

sagrant@ubuntu-xenial:~/nginx$ docker-compose up -d
Creating network "nginx_default" with the default driver
Pulling databases (mysql:...)
latest: Pulling from library/mysql
45b42c59be33: Pull complete
84f798bd91da: Pull complete
325ae51788e9: Pull complete
adcd9439d751: Pull complete
174c7f016c78: Pull complete
698058ef136c: Pull complete
4698143a669e: Pull complete
f7539a346f06: Pull complete
35a55b46c186: Pull complete
798ac54f4c47: Pull complete
18682acc97a1: Pull complete
365caa3580d8: Pull complete
Digest: sha256:b1ccc887ad31cc6c2f217b12783bd86f583f2837892c8bb128847fe50ff85a189
Status: Downloaded newer image for mysql:latest
Pulling web (nginx:...)
latest: Pulling from library/nginx
45b42c59be33: Already exists
8acc495f1d91: Pull complete
ec3bd7de9ed7: Pull complete
19e1441aeab3: Pull complete
f5a38c5f8d4e: Pull complete
83500d831118: Pull complete
Digest: sha256:f3693fe58d5b10f1ecd311d34813a77afdc56b8245a484855a946574deb6b34fc
Status: Downloaded newer image for nginx:latest
Creating nginx_databases_1 ... done
Creating nginx_web_1 ... done

```

➔ Verifying using curl, that the Nginx server is running on port 80

```

sagrant@ubuntu-xenial:~/nginx$ curl localhost:80
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
  body {
    width: 350px;
    margin: 0 auto;
    font-family: Tahoma, Verdana, Arial, sans-serif;
  }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
a href="http://nginx.org/"nginx.org/</a>.</p>
Commercial support is available at
nginx.com/<a>.</a></p>

<p>Thank you for using nginx.</p>
</body>
</html>

```

➔ Stopping the service with “docker-compose down” command

```

sagrant@ubuntu-xenial:~/nginx$ docker-compose down
Stopping nginx_web_1 ... done
Stopping nginx_databases_1 ... done
Removing nginx_web_1 ... done
Removing nginx_databases_1 ... done
Removing network nginx_default

```