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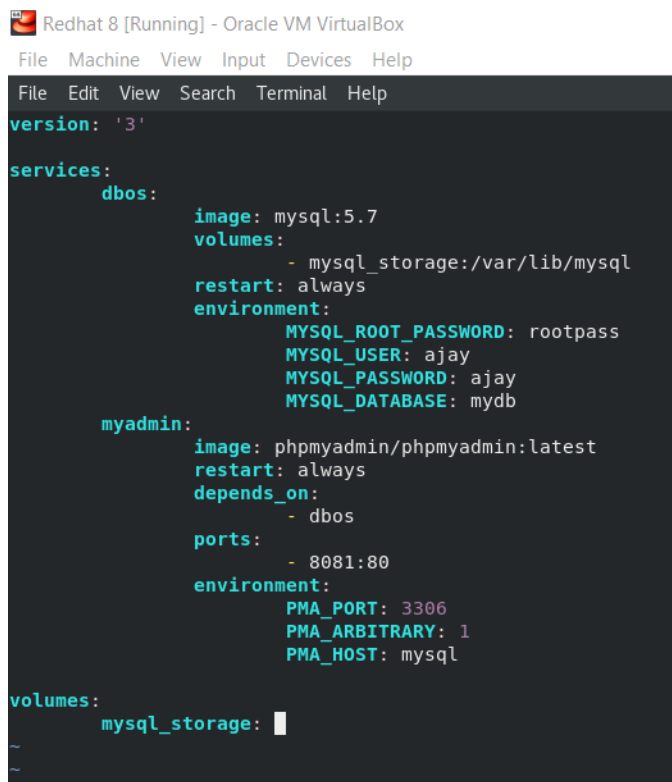
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To create Docker compose file and launch container using it.

Procedure:

1) First create a **docker-compose.yml** file and inside the file write the code as follows:



```
version: '3'

services:
  dbos:
    image: mysql:5.7
    volumes:
      - mysql_storage:/var/lib/mysql
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: rootpass
      MYSQL_USER: ajay
      MYSQL_PASSWORD: ajay
      MYSQL_DATABASE: mydb
  myadmin:
    image: phpmyadmin/phpmyadmin:latest
    restart: always
    depends_on:
      - dbos
    ports:
      - 8081:80
    environment:
      PMA_PORT: 3306
      PMA_ARBITRARY: 1
      PMA_HOST: mysql

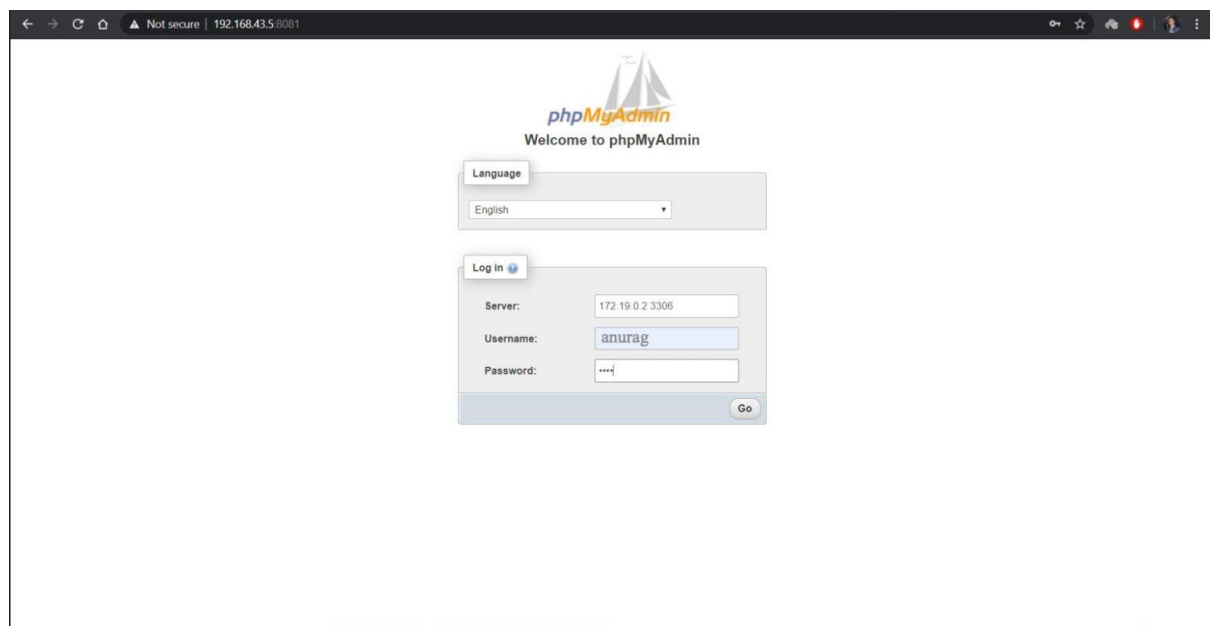
volumes:
  mysql_storage:
```

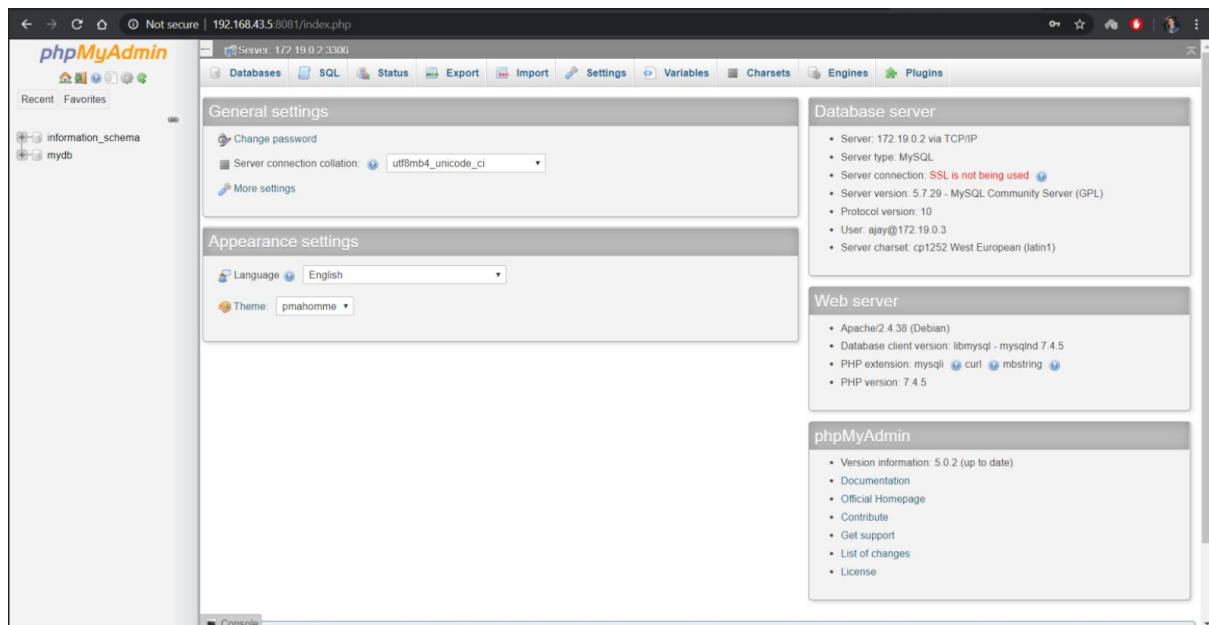
Here under **services**, we can write all the services we want to launch. Under every service, we have to give attributes such as **image**, **volume**, **ports**, **environment variables**, etc. Here environment variables are credentials for MySQL database.

2) After creating docker-compose file, use command **docker-compose up** to launch the architecture in one go. Use option **-d** to hide the terminal output.

```
[root@localhost mycompose]# docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
[root@localhost mycompose]# docker-compose up -d
Creating network "mycompose_default" with the default driver
Creating mycompose_dbos_1 ... done
Creating mycompose_myadmin_1 ... done
[root@localhost mycompose]# docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
b51a4b2d229b   phpmyadmin/phpmyadmin:latest        "/docker-entrypoint..." 12 seconds ago Up 10 seconds 0.0.0.0:8081->80/tcp   mycompose_myadmin_1
7ece63d8ec2b   mysql:5.7                           "docker-entrypoint.s..." 15 seconds ago Up 11 seconds  3306/tcp, 33060/tcp   mycompose_dbos_1
[root@localhost mycompose]#
```

3) At last on your browser, open the container application to see the output.





4) Use command `docker-compose down` to stop all your architecture in one go.

```
[root@localhost mycompose]# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
b51a4b2d4229b	phpmyadmin/phpmyadmin:latest	"docker-entrypoint.s..."	12 seconds ago	Up 10 seconds	0.0.0.0:8081->80/tcp	mycompose_myadmin_
7ec63d8ec2b	mysql:5.7	"docker-entrypoint.s..."	15 seconds ago	Up 11 seconds	3306/tcp, 33060/tcp	mycompose_dbos_1

```
[root@localhost mycompose]# docker-compose down
```

```
Stopping mycompose_myadmin_1 ... done
Removing mycompose_myadmin_1 ... done
Removing mycompose_myadmin_1 ... done
Removing mycompose_dbos_1 ... done
Removing network mycompose_default
```

```
[root@localhost mycompose]# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
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```
[root@localhost mycompose]#
```