Docker task -3

Create a custom docker image for nginx and deploy it using docker compose, where the volume should be at /var/opt/nginx location. Push the created custom docker image to your docker-hub.

Create a custom docker image for nginx and deploy it using docker compose, where the volume should be at /var/opt/nginx location.

install the docker.

install the docker container required plugin.

change the file permission.

```
[ec2-user@ip-172-31-15-15 ~]$ chmod +x docker-compose-linux-x86_64
[ec2-user@ip-172-31-15-15 ~]$ ls
docker-compose-linux-x86_64
```

moving the file location:

```
[ec2-user@ip-172-31-15-15 ~]$ sudo mv docker-compose-linux-x86_64 /usr/local/bin/docker-compose
```

docker compose version:

```
[ec2-user@ip-172-31-15-15 ~]$ docker-compose --version
Docker Compose version v2.29.0
[ec2-user@ip-172-31-15-15 ~]$ |
```

creating the nginx docker image

```
[ec2-user@ip-172-31-15-15 ~]$ touch dockerfile
```

command for docker image.

create the nginx.conf

run the docker image

```
Z-user@ip-172-31-15-15 ~]$ sudo docker build -t your-dockerhub-username/custom-nginx .

Building 6.4s (7/7) FINISHED

[internal] load build definition from dockerfile

> transferring dockerfile: 162B
[internal] load metadata for docker.io/library/nginx:latest
[internal] load metadata for docker.io/library/nginx:latest
[internal] load build context

> transferring context: 28
[internal] load build context

***transferring context: 298

[1/2] FROM docker.io/library/nginx:latest@sha256:6af79ae5de407283dcea8b00d5c37ace95441fd58a8b1d2aaled93f5511bb18c

> resolve docker.io/library/nginx:latest@sha256:6af79ae5de407283dcea8b00d5c37ace95441fd58a8b1d2aaled93f5511bb18c

> sha256:a7286dcb95fd59e9c696c66441c644flee66915fa26b240911e83c2884477cd9a 7.38kb / 7.38kb

> sha256:b45937a65be883c1d44da525943958ea49cd8a8623a5adfdffleb3b2c1638948a4 627B / 627B

> sha256:6af79ae5de407283dcea8b00d5c37ace95441fd58a8b1d2aaled93f5511bb18c 10.27kB / 10.27kB

> sha256:fa479ae5de407283dcea8b00d5c37ace95441fd58a8b1d2aaled93f5511bb18c 10.27kB / 10.27kB

> sha256:fa479ae5de407283dcea8b00d5c37ace95441fd58a8b1d2aaled93f5511bb18c 10.27kB / 10.27kB

> sha256:fa479ae5de407283dcea8b00d5c37ace95441fd58a8b1d2aaled93f051b18c 10.27kB / 10.27kB

> sha256:fa450ab9eec05befa4239d53feeae3569ccbef689aa5e5dbfc25da6c4df559 29.13MB / 29.13MB

> sha256:fa16b4b4b4bfa529349b549fa8de5b4f86de5b1fd2400154a3 11.83MB / 41.83MB

> sha256:f311b424bbfa1b5273abcc4b133983f48f9cb9b5b4f996abc536af3dade8338 958 / 9558

> sha256:96991cdb4bfa1b5273abcdb18db4b955ee71099718f16e68e7010c33662aaa944bf 1.21kB / 1.21kB

> sha256:9691cdb453be97c53e1ddbe4b555ee71099718f16e68e7010c33662aaa944bf 1.21kB / 1.21kB

> sha256:9691cdb453be97c53e3ddbe4b955ee71099718f16e68e7010c33662aaa944bf 1.21kB / 1.21kB

> sha256:9691cdb453be97c53e3ddb4b95256e61099718f16e68e7010c33662aaa944bf 1.21kB / 1.21kB

> sha256:9691cdb453be97c53e3ddb4b95256e61099718f16e68e7010c33662aaa944bf 1.21kB / 1.21kB

> sha256:9691cdb455e987dcdb4558e75cdb540860516640605366cd56587ecf6ed54c 1.40kB / 1.40kB

> extracting sha256:9486cdb54
 [ec2-user@ip-172-31-15-15 ~]$ sudo docker build -t your-dockerhub-username/custom-nginx
[+] Building 6.4s (7/7) FINISHED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           docker:default
-> exporting to image 

>> >= xporting layers 

>> >= writing image sha256:93340275ec81e3f94448fbca3402bc0206a2c160b9937488507ae3348331e5ea 

>> >= naming to docker.io/your-dockerhub-username/custom-nginx 

[ec2-user@ip-172-31-15-15 ~]$ |
```

```
ec2-user@ip-172-31-15-15:~ × + v
 web:
image: your-dockerhub-username/custom-nginx
       ./data:/var/opt/nginx
docker-compose.yml" 10L, 150B
                                                                                                                                                  10,0-1
```

docker compose file creation

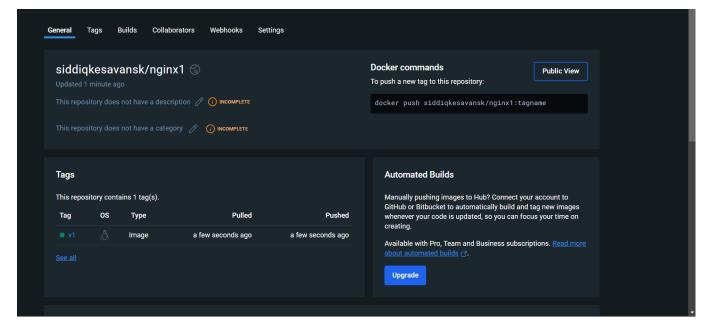
```
.
2-user@ip-172-31-15-15 ~]$ sudo docker-compose up -d
N[0000] /home/ec2-user/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
√Network ec2-user_default Created
√Container ec2-user-web-1 Started
✓Container ec2-user-web-1
```

run the decker compose

```
[ec2-user@ip-172-31-15-15 ~]$ sudo docker container l
CONTAINER ID IMAGE
836597d1e19a your-dockerhub-username/custom-nginx
                                                                                          COMMAND
"/docker-entrypoint..."
                                                                                                                                  CREATED
3 minutes ago
                                                                                                                                                             STATUS
Up 3 minutes
                                                                                                                                                                                       PORTS
0.0.0.0:80->80/tcp, :::80->80/tcp
```

Upload the docker image:

```
[root@ip-172-31-15-15 ec2-user]# docker tag nginx:latest siddiqkesavansk/nginx1:v1
[root@ip-172-31-15-15 ec2-user]# docker push siddiqkesavansk/nginx1:v1
The push refers to repository [docker.io/siddiqkesavansk/nginx1]
5783d0aa52e9: Pushed
60e72fbb314e: Pushed
599e8de62018: Pushed
09581b9299a2: Pushed
a39383416a22: Pushed
a6355e7844d5: Pushed
fcfa12460e7d: Pushed
e0781bc8667f: Pushed
v1: digest: sha256:92568412992b0daf6f96c05d1abae2cb9e5569362c0aa5d2043d150c7b1b6611 size
: 1985
[root@ip-172-31-15-15 ec2-user]# |
```



uploaded into dockerhub