

# [Guvi Task]

## Day 4 - Containers - Docker Compose

**TASK:** 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.

```
aws Services Search [Alt+S] Mumbai Sumit_aws_11
ubuntu@ip-172-31-46-188:~$ ls
compose
ubuntu@ip-172-31-46-188:~$ cd compose
ubuntu@ip-172-31-46-188:~/compose$ vi docker-compose.yml
ubuntu@ip-172-31-46-188:~/compose$ docker-compose up -d
Creating network "compose_default" with the default driver
Pulling webcontainer (nginx:latest)...
latest: Pulling from library/nginx
efc2b5ad9eec: Pull complete
8fe9a55eb80f: Pull complete
045037a63be8: Pull complete
7111b42b4bfa: Pull complete
3dfc528a4df9: Pull complete
9e891cdb453b: Pull complete
0f11e17345c5: Pull complete
Digest: sha256:6af79ae5de407283dcea8b00d5c37ace95441fd58a8b1d2aa1ed93f5511bb18c
Status: Downloaded newer image for nginx:latest
Creating compose_webcontainer_1 ... done
ubuntu@ip-172-31-46-188:~/compose$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
cea24e58c099   nginx    "/docker-entrypoint..." 2 minutes ago  Up 2 minutes  0.0.0.0:8000->80/tcp, :::8000->80/tcp  compose_webcontainer_1
ubuntu@ip-172-31-46-188:~/compose$
```

i-0a85c05d958a77f56 (docker-)

PublicIPs: 13.126.202.170 PrivateIPs: 172.31.46.188

```
aws Services Search [Alt+S] Mumbai Sumit_aws_11
version: '3.7'
services:
  webcontainer:
    image: nginx
    ports:
      - 8000:80
    volumes:
      - ./webapp:/usr/share/nginx/html
-- INSERT -- 7,13 All
```

i-0a85c05d958a77f56 (docker-)

PublicIPs: 13.126.202.170 PrivateIPs: 172.31.46.188

The screenshot shows an AWS console terminal window with the following output:

```
Creating network "compose_default" with the default driver
Pulling webcontainer (nginx:...)...
latest: Pulling from library/nginx
efc2b5ad9eec: Pull complete
8fe9a55eb80f: Pull complete
045037a63be8: Pull complete
7111b42b4bfa: Pull complete
3dfc528a4df9: Pull complete
9e891cdb453b: Pull complete
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Digest: sha256:6af79ae5de407283dcea8b00d5c37ace95441fd58a8b1d2aa1ed93f5511bb18c
Status: Downloaded newer image for nginx:latest
Creating compose_webcontainer_1 ... done
ubuntu@ip-172-31-46-188:~/compose$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
cea24e58c099   nginx    "/docker-entrypoint...." 2 minutes ago  Up 2 minutes  0.0.0.0:8000->80/tcp, :::8000->80/tcp  compose_webcontainer_1
ubuntu@ip-172-31-46-188:~/compose$
ubuntu@ip-172-31-46-188:~/compose$
ubuntu@ip-172-31-46-188:~/compose$
ubuntu@ip-172-31-46-188:~/compose$ vi docker-compose.yaml
ubuntu@ip-172-31-46-188:~/compose$ vi docker-compose.yaml
ubuntu@ip-172-31-46-188:~/compose$ docker-compose up -d
Recreating compose_webcontainer_1 ... done
ubuntu@ip-172-31-46-188:~/compose$
```

Below the terminal window, the instance details for `i-0a85c05d958a77f56 (docker-)` are shown, with Public IP `13.126.202.170` and Private IP `172.31.46.188`.

The web browser window shows the URL `13.126.202.170:8000` and displays the "Welcome to nginx!" page.

## Welcome to nginx!

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 [nginx.org](http://nginx.org).  
Commercial support is available at [nginx.com](http://nginx.com).

*Thank you for using nginx.*

Services

[Alt+S]

Mumbai ▾
Sumit\_aws\_11 ▾

```

Username (sumitdhal): sumitdhal
Password:
WARNING! Your password will be stored unencrypted in /home/ubuntu/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
ubuntu@ip-172-31-46-188:~/compose$ docker images
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
nginx                latest      a72860cb95fd  5 weeks ago  188MB
sumitdhal/my_task_nginx latest      a72860cb95fd  5 weeks ago  188MB
ubuntu@ip-172-31-46-188:~/compose$ docker push sumitdhal/my_task_nginx
Using default tag: latest
The push refers to repository [docker.io/sumitdhal/my_task_nginx]
60e72fbb314e: Pushed
599e8de62018: Pushed
09581b9299a2: Pushed
a39383416a22: Pushed
a6355e7844d5: Pushed
fcfa12460e7d: Pushed
e0781bc8667f: Pushed
latest: digest: sha256:4ac65f23061de2faef157760fa2125c954b5b064bc25e10655e90bd92bc3b354 size: 1778
ubuntu@ip-172-31-46-188:~/compose$

```

i-0a85c05d958a77f56 (docker-)
PublicIPs: 13.126.202.170 PrivateIPs: 172.31.46.188

Explore
Repositories
Organizations

ctrl+K

sumitdhal / [Repositories](#) / [my\\_task\\_nginx](#) / [General](#)
Using 0 of 1 private repositories.

General
Tags
Builds
Collaborators
Webhooks
Settings

sumitdhal/my\_task\_nginx
Updated 3 minutes ago

This repository does not have a description INCOMPLETE

This repository does not have a category INCOMPLETE

Docker commands
Public View

To push a new tag to this repository:

```
docker push sumitdhal/my_task_nginx:tagname
```

Tags
This repository contains 1 tag(s).

| Tag    | OS | Type  | Pulled        | Pushed        |
|--------|----|-------|---------------|---------------|
| latest |    | Image | 2 minutes ago | 3 minutes ago |

[See all](#)

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read more about automated builds](#)