

Created a folder named project and placed config files:

```
root@ip-172-31-9-141:~/Project# ls -rlt
total 16
-rw-r--r-- 1 root root 173 Nov 30 06:45 Dockerfile
-rw-r--r-- 1 root root 160 Nov 30 06:45 nginx.conf
drwxr-xr-x 2 root root 4096 Nov 30 06:55 data
-rw-r--r-- 1 root root 159 Nov 30 07:07 docker-compose.yml
root@ip-172-31-9-141:~/Project#
```

Created dockerfile,docker-compose file and nginx config file under this folder.

Mentioned to create custom volume location:

```
root@ip-172-31-9-141:~/Project# cat Dockerfile
FROM nginx:latest

# Create custom directory for bind mount
RUN mkdir -p /var/opt/nginx

# Copy custom config
COPY nginx.conf /etc/nginx/nginx.conf

# Expose port
EXPOSE 80
root@ip-172-31-9-141:~/Project#
```

Default volume data has to be copied to the custom folder.

```
root@ip-172-31-9-141:~/Project# cat docker-compose.yml
version: '3.8'

services:
  custom-nginx:
    image: dockerhub-nginx:latest
    build: .
    ports:
      - "80:80"
    volumes:
      - ./data:/var/opt/nginx
root@ip-172-31-9-141:~/Project#
```

```
root@ip-172-31-9-141:~/Project# cat nginx.conf
events {}

http {
    server {
        listen 80;

        location / {
            root /usr/share/nginx/html;
            index index.html;
        }
    }
}
root@ip-172-31-9-141:~/Project#
```

```
root@ip-172-31-9-141:~/Project# docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
dockerhub-nginx  latest   3acb34dc1a35  7 hours ago  152MB
nginx           latest   60adc2e137e7  12 days ago  152MB
```

Pushed code to the dockerhub:

```
root@ip-172-31-9-141:~/Project# docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
dockerhub-nginx  latest   3acb34dc1a35  7 hours ago  152MB
tamililan/staticweb v1      3acb34dc1a35  7 hours ago  152MB
nginx           latest   60adc2e137e7  12 days ago  152MB
root@ip-172-31-9-141:~/Project# ls -rlt
```

tamililan/staticweb



Last pushed less than a minute ago · Repository size: 58 MB · ⭐ 0 · ⏺ 0

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Tag	OS	Type	Pulled	Pushed
v1		Image	less than 1 day	2 minutes

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```
root@ip-172-31-9-141:~/Project# docker service ls
ID          NAME      MODE      REPLICAS  IMAGE
j560gsuhd36n  flamboyant_buck  replicated  4/4    tamililan/staticweb:v1  *:80->80/tcp
root@ip-172-31-9-141:~/Project# sudo docker service ps j560gsuhd36n
ID          NAME      IMAGE      NODE      DESIRED STATE  CURRENT STATE      ERROR      PORTS
mojxv5inl60a  flamboyant_buck.1  tamililan/staticweb:v1  ip-172-31-4-150  Running     Running  4 minutes ago
h98os66ub98a  flamboyant_buck.2  tamililan/staticweb:v1  ip-172-31-9-141  Running     Running  4 minutes ago
pr9gayqueycy  flamboyant_buck.3  tamililan/staticweb:v1  ip-172-31-13-209  Running     Running  4 minutes ago
hw5abvfu0uem  flamboyant_buck.4  tamililan/staticweb:v1  ip-172-31-10-67   Running     Running  4 minutes ago
root@ip-172-31-9-141:~/Project#
```