Docker Task -2

Task Description:

Create a dockerfile, docker-compose file which when executed must display your basic details in the website.

```
ubuntu@ip-172-31-12-192:~$ sudo apt install docker.io -y
sudo systemctl start docker
sudo systemctl enable docker
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker.io is already the newest version (28.2.2-0ubuntu1~24.04.1).
0 upgraded, 0 newly installed, 0 to remove and 30 not upgraded.
ubuntu@ip-172-31-12-192:~$ sudo usermod -aG docker ubuntu
newgrp docker
ubuntu@ip-172-31-12-192:~$ docker --version
Docker version 28.2.2, build 28.2.2-0ubuntu1~24.04.1
ubuntu@ip-172-31-12-192:~$
```

```
ubuntu@ip-172-31-12-192:~$ docker --version
Docker version 28.2.2, build 28.2.2-0ubuntu1~24.04.1
ubuntu@ip-172-31-12-192:~$ mkdir docker-task-2
cd docker-task-2
ubuntu@ip-172-31-12-192:~/docker-task-2$ pwd
/home/ubuntu/docker-task-2
ubuntu@ip-172-31-12-192:~/docker-task-2$ cat <<EOF > index.html
<!DOCTYPE html>
<html>
<head>
    <title>Docker Task 2</title>
</head>
<body style="text-align:center; font-family:Arial;">
    <h1>Docker Task - 2</h1>
    <h2>Name: Junaid Ahmed</h2>
    <h3>Role: DevOps Engineer</h3>
    <h3>Email: junaid@example.com</h3>
    <h3>Tech Stack: AWS EC2 | Docker</h3>
</body>
</html>
EOF
ubuntu@ip-172-31-12-192:~/docker-task-2$ cat index.html
<!DOCTYPE html>
<html>
<head>
    <title>Docker Task 2</title>
</head>
<body style="text-align:center; font-family:Arial;">
    <h1>Docker Task - 2</h1>
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    <h3>Tech Stack: AWS EC2 | Docker</h3>
</body>
</html>
ubuntu@ip-172-31-12-192:~/docker-task-2$ cat <<EOF > Dockerfile
FROM nginx:latest
COPY index.html /usr/share/nginx/html/index.html
EXPOSE 80
EOF
ubuntu@ip-172-31-12-192:~/docker-task-2$ cat dockerfile
cat: dockerfile: No such file or directory
ubuntu@ip-172-31-12-192:~/docker-task-2$ cat Dockerfile
FROM nginx:latest
COPY index.html /usr/share/nginx/html/index.html
EXPOSE 80
ubuntu@ip-172-31-12-192:~/docker-task-2$ cat <<EOF > docker-compose.yml
version: '3'
services:
  web:
    build: .
```

```
ubuntu@ip-172-31-12-192:~/docker-task-2$
ubuntu@ip-172-31-12-192:~/docker-task-2$ docker-compose up -d
Command 'docker-compose' not found, but can be installed with:
sudo snap install docker        # version 28.4.0, or
sudo apt  install docker-compose # version 1.29.2-6
See 'snap info docker' for additional versions.
ubuntu@ip-172-31-12-192:~/docker-task-2$ sudo apt update -y
sudo apt install docker-compose -y
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
30 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  python3-compose python3-docker python3-dockerpty python3-docopt python3-dotenv python3-texttable
  python3-websocket
The following NEW packages will be installed:
  docker-compose python3-compose python3-docker python3-dockerpty python3-docopt python3-dotenv
  python3-texttable python3-websocket
0 upgraded, 8 newly installed, 0 to remove and 30 not upgraded.
Need to get 297 kB of archives.
After this operation, 1589 kB of additional disk space will be used.
Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-websocket all 1.7.0-1
[38.1 kB]
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 python3-docker all 5.0
.3-1ubuntu1.1 [89.1 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-dockerpty all 0.4.1-5
[11.4 kB]
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-docopt all 0.6.2-6 [26
.1 kB]
Get:5 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-dotenv all 1.0.1-1 [22
.3 kB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-texttable all 1.6.7-1
[11.0 kB]
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 python3-compose all 1.29.2-6ub
untu1 [84.6 kB]
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 docker-compose all 1.29.2-6ubu
ntu1 [14.0 kB]
Fetched 297 kB in 0s (8981 kB/s)
Selecting previously unselected package python3-websocket.
(Reading database ... 87673 files and directories currently installed.)
Preparing to unpack .../0-python3-websocket_1.7.0-1_all.deb ...
Unpacking python3-websocket (1.7.0-1) ...
Selecting previously unselected package python3-docker.
Preparing to unpack .../1-python3-docker_5.0.3-1ubuntu1.1_all.deb ...
Unpacking python3-docker (5.0.3-1ubuntu1.1) ...
```

```
ubuntu@ip-172-31-12-192: ~/docker-task-2
Setting up python3-websocket (1.7.0-1) ...
Setting up python3-dockerpty (0.4.1-5) ...
Setting up python3-docker (5.0.3-1ubuntu1.1) ...
Setting up python3-compose (1.29.2-6ubuntu1) ...
Setting up docker-compose (1.29.2-6ubuntu1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...

Running kernel seems to be up-to-date.

Restarting services...

Service restarts being deferred:
 systemctl restart networkd-dispatcher.service
 systemctl restart unattended-upgrades.service

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-12-192:~/docker-task-2$ docker-compose --version
docker-compose version 1.29.2, build unknown
ubuntu@ip-172-31-12-192:~/docker-task-2$ docker-compose up -d
Creating network "docker-task-2_default" with the default driver
Building web
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
            Install the buildx component to build images with BuildKit:
            https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  4.096kB
Step 1/3 : FROM nginx:latest
 ---> 4af177a024eb
Step 2/3 : COPY index.html /usr/share/nginx/html/index.html
 ---> ad16fdbc54e5
Step 3/3 : EXPOSE 80
 ---> Running in 723d671ce6b8
 ---> Removed intermediate container 723d671ce6b8
 ---> 60cb88a821b0
Successfully built 60cb88a821b0
Successfully tagged docker-task-2_web:latest
WARNING: Image for service web was built because it did not already exist. To rebuild this image you mus
t use `docker-compose build` or `docker-compose up --build`.
Creating docker-task-2_web_1 ... done
ubuntu@ip-172-31-12-192:~/docker-task-2$ docker ps
CONTAINER ID   IMAGE               COMMAND                  CREATED         STATUS         PORTS
                      NAMES
3a222f7ab44a   docker-task-2_web   "/docker-entrypoint.…"   10 seconds ago  Up 10 seconds  0.0.0.0:80-
>80/tcp, [::]:80->80/tcp   docker-task-2_web_1
ubuntu@ip-172-31-12-192:~/docker-task-2$
```

Docker Task - 2

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Tech Stack: AWS EC2 | Docker