

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

Cloned the repository using “git clone https://github.com/Surya-hu/my-nodejs-app.git”

And created Dockerfile “vi Dockerfile”

```
root@ip-172-31-34-48: ~/my-web-ser
root@ip-172-31-34-48:~/my-web-ser# cat Dockerfile
FROM nginx:latest
COPY . /usr/share/nginx/html
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
root@ip-172-31-34-48:~/my-web-ser# |
```

main

1 Branch

0 Tags

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Code

Surya-hu

Add files via upload

1a1d32a · 6 minutes ago

1 Commits

Dockerfile

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README.md

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app.js

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package-lock.json

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package.json

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Created docker image using: “docker build -t my-node-img .”

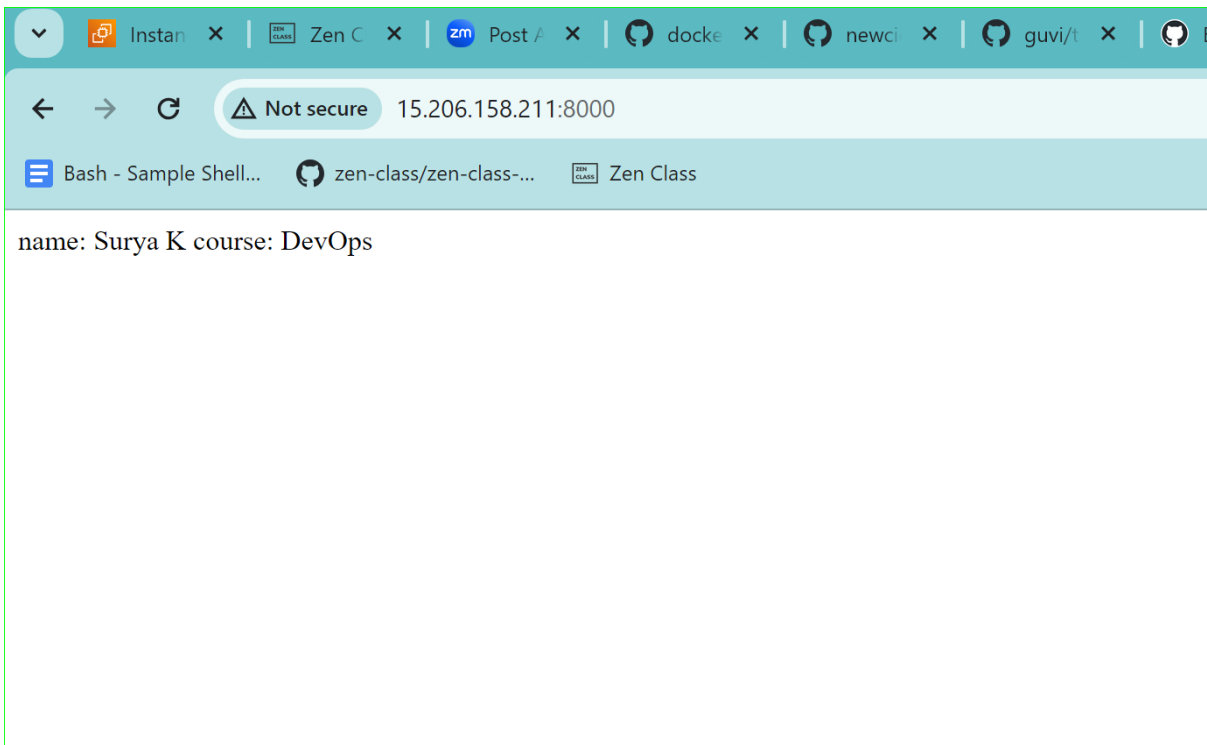
And listed the images available using “docker images”

To create the container and run: “docker run -itd -p 8000:8000 --name my-node-app my-node-img” as shown below

```
root@ip-172-31-34-48: ~/my-to-do-cicd
root@ip-172-31-34-48:~/my-to-do-cicd# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
my-node-img    latest    11f0ea36025f   13 minutes ago 104MB
node          12.2.0-alpine f391dabf9dce   4 years ago    77.7MB
root@ip-172-31-34-48:~/my-to-do-cicd# docker start my-node-app
my-node-app
root@ip-172-31-34-48:~/my-to-do-cicd# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
fb495282a620   my-node-img    "node app.js"           10 minutes ago  up 5 seconds  0.0.0.0:8000->8000/tcp, :::8000->8000/tcp  my-node-app
root@ip-172-31-34-48:~/my-to-do-cicd# |
```

```
root@ip-172-31-34-48: ~/my-web-ser
root@ip-172-31-34-48:~/my-web-ser# vi Dockerfile
root@ip-172-31-34-48:~/my-web-ser# docker build -t my-nginx-image .
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/

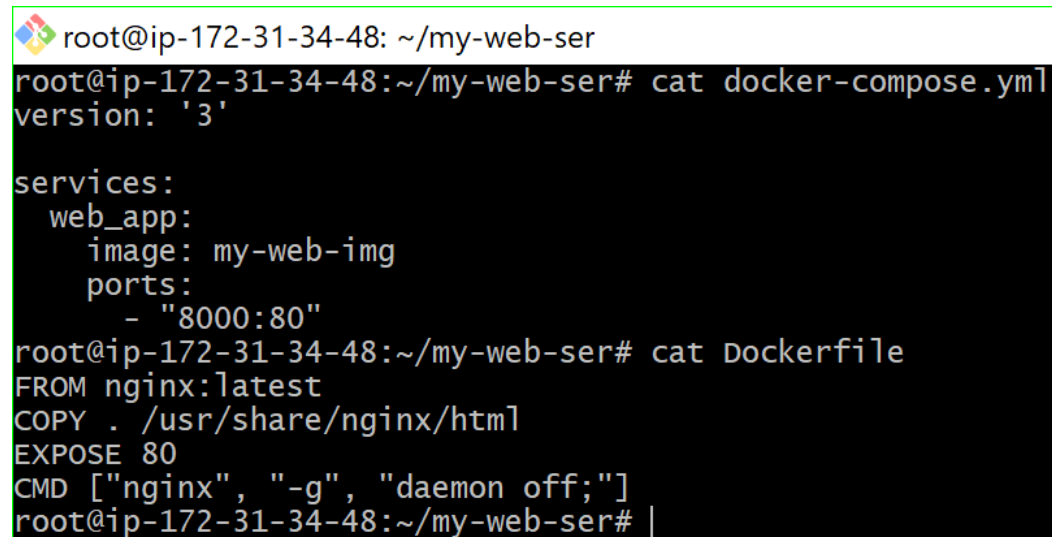
Sending build context to Docker daemon  3.072kB
Step 1/4 : FROM nginx:latest
--> b690f5f0a2d5
Step 2/4 : COPY . /usr/share/nginx/html
--> ff182aae11a9
Step 3/4 : EXPOSE 80
--> Running in e619d8bale5f
Removing intermediate container e619d8bale5f
--> a3c82b64ac20
Step 4/4 : CMD ["nginx", "-g", "daemon off;"]
--> Running in 25d9e7623eea
Removing intermediate container 25d9e7623eea
--> 02dc66bffb66
Successfully built 02dc66bffb66
Successfully tagged my-nginx-image:latest
root@ip-172-31-34-48:~/my-web-ser# docker run -itd -p 8000:80 --name my-basic-web1 my-nginx-image
cf08c191c21510c7679392b794c769f96557d2147e9dd9d6dc66fc7e59dc25ee
root@ip-172-31-34-48:~/my-web-ser# cat Dockerfile
FROM nginx:latest
COPY . /usr/share/nginx/html
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
root@ip-172-31-34-48:~/my-web-ser# |
```



Docker compose procedure:

Vi Docker-compose.yml and Dockerfile:

Note: I used the same docker file that was created above and created an image as shown below:

A terminal window with a black background and green text. The prompt is root@ip-172-31-34-48: ~/my-web-ser. The user runs 'cat docker-compose.yml' and the output is: version: '3' services: web_app: image: my-web-img ports: - "8000:80". Then the user runs 'cat Dockerfile' and the output is: FROM nginx:latest COPY . /usr/share/nginx/html EXPOSE 80 CMD ["nginx", "-g", "daemon off;"].

```
root@ip-172-31-34-48: ~/my-web-ser
root@ip-172-31-34-48:~/my-web-ser# cat docker-compose.yml
version: '3'

services:
  web_app:
    image: my-web-img
    ports:
      - "8000:80"
root@ip-172-31-34-48:~/my-web-ser# cat Dockerfile
FROM nginx:latest
COPY . /usr/share/nginx/html
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
root@ip-172-31-34-48:~/my-web-ser# |
```

Created image using “ docker build -t my-web-img .”

Using docker-compose file ran “docker-compose up -d”

As shown below services started fine

```
root@ip-172-31-34-48: ~/my-web-ser
total 20
drwxr-xr-x 2 root root 4096 Feb 10 07:10 ./
drwx----- 6 root root 4096 Feb 10 07:10 ../
-rw-r--r-- 1 root root  92 Feb  9 07:48 Dockerfile
-rw-r--r-- 1 root root  88 Feb 10 07:00 docker-compose.yml
-rw-r--r-- 1 root root  29 Feb  9 07:33 index.html
root@ip-172-31-34-48:~/my-web-ser# docker build -t my-web-img .
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 1/4 : FROM nginx:latest
latest: Pulling from library/nginx
c57ee5000d61: Pull complete
9b0163235c08: Pull complete
f24a6f652778: Pull complete
9f3589a5fc50: Pull complete
f0bd99a47d4a: Pull complete
398157bc5c51: Pull complete
1ef1c1a36ec2: Pull complete
Digest: sha256:84c52dfd55c467e12ef85cad6a252c0990564f03c4850799bf41dd738738691f
Status: Downloaded newer image for nginx:latest
--> b690f5f0a2d5
Step 2/4 : COPY . /usr/share/nginx/html
--> 1af3b9fa697e
Step 3/4 : EXPOSE 80
--> Running in 59e3d37c5e23
Removing intermediate container 59e3d37c5e23
--> 517706c8d7c8
Step 4/4 : CMD ["nginx", "-g", "daemon off;"]
--> Running in 6dec7f4af77
Removing intermediate container 6dec7f4af77
--> 1efcf1ffbea
Successfully built 1efcf1ffbea
Successfully tagged my-web-img:latest
root@ip-172-31-34-48:~/my-web-ser# docker images
REPOSITORY   TAG       IMAGE ID       CREATED        SIZE
my-web-img   latest    1efcf1ffbea    7 seconds ago  187MB
nginx        latest    b690f5f0a2d5   3 months ago   187MB
root@ip-172-31-34-48:~/my-web-ser# vi docker-compose.yml
root@ip-172-31-34-48:~/my-web-ser# vi docker-compose.yml
root@ip-172-31-34-48:~/my-web-ser# docker-compose up -d
[+] Running 1/2
   Network my-web-ser_default      Created
   Container my-web-ser-web_app-1  Started
root@ip-172-31-34-48:~/my-web-ser# docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                               NAMES
dd36cb84f087   my-web-img "/docker-entrypoint..." 3 minutes ago  Up 3 minutes  0.0.0.0:8000->80/tcp, :::8000->80/tcp  my-web-ser-web_app-1
root@ip-172-31-34-48:~/my-web-ser#
```

Output:

