


```

Installed:
containerd-1.7.20-1.amzn2023.0.1.x86_64    docker-25.0.6-1.amzn2023.0.2.x86_64    iptables-libs-1.8.8-3.amzn2023.0.2.x86_64
iptables-nft-1.8.8-3.amzn2023.0.2.x86_64    libcgrouper-3.9-1.amzn2023.0.1.x86_64    libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
libnftnl-1.0.1-19.amzn2023.0.2.x86_64       libnftnl-1.2.2-2.amzn2023.0.2.x86_64    pigz-2.5-1.amzn2023.0.3.x86_64
runc-1.1.13-1.amzn2023.0.1.x86_64

Complete!

```

4. Start docker

```

[ec2-user@ip-172-31-22-49 ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
[ec2-user@ip-172-31-22-49 ~]$ |

```

5. Added user in Sudo

```

[ec2-user@ip-172-31-22-49 ~]$ sudo usermod -a -G docker ec2-user
[ec2-user@ip-172-31-22-49 ~]$

```

6. Check docker status

```

[ec2-user@ip-172-31-22-49 ~]$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
[ec2-user@ip-172-31-22-49 ~]$ |

```

7. Created 2 files index.html , dockerfile

Index.html file

```

[ec2-user@ip-172-31-22-49 dockerfolder]$ cat index.html
<!-- index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hello Docker</title>
</head>
<body>
  <h1>Hello, Docker Its is my Website!</h1>
  <p>This is a simple static page served by Nginx.</p>
</body>
</html>

```

```

[ec2-user@ip-172-31-22-49 dockerfolder]$ cat dockerfile
FROM nginx:alpine
COPY index.html /usr/share/nginx/html/
EXPOSE 80

```

8. Build images and run

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ docker build -t ec2image .
[+] Building 2.2s (7/7) FINISHED
=> [internal] load build definition from dockerfile
=> [internal] load metadata for docker.io/library/nginx:alpine
=> [internal] load build context
=> transferring context: 26
=> [internal] load build context
=> transferring context: 426B
=> [1/2] FROM docker.io/library/nginx:alpine@sha256:2340dad235c130ac861018a8e11a8bc8aea1a35f3a00e20c1b000d51a7ef6250
=> resolve docker.io/library/nginx:alpine@sha256:2340dad235c130ac861018a8e11a8bc8aea1a35f3a00e20c1b000d51a7ef6250
=> sha256:0300364ee091be43b28e17d95c75258a899796ce6431e4848379908b0a1170 1.62MB / 1.62MB
=> sha256:596d53a79e8832c0963cd370bf19a0a1ca2284c80329e1a34862c4f81035a0c8 629B / 629B
=> sha256:c68f01132b4b55eac202f48baf81cc0b13c250a1725eaf994c803f7dd7180e5 11.20MB / 11.20MB
=> sha256:a6130e031e70e12a5d80979eaf2ffff0d9589c2435c0bb0c33e6306011d3 2.50MB / 2.50MB
=> sha256:d1171b13e1264c85067ed40068d24ab5e9d63c34730790c779da2000e0bc3ca 1.76MB / 1.76MB
=> sha256:2340dad235c130ac861018a8e11a8bc8aea1a35f3a00e20c1b000d51a7ef6250 9.07MB / 9.07MB
=> extracting sha256:436420e0ed91be43b28e17d95c75258a899796ce6431e4848379908b0a1170
=> sha256:199ac96a111c43f9b3078f8d953ef0a22126c3d602afbcfa51cabb07d7c 907B / 907B
=> sha256:c68f01132b4b55eac202f48baf81cc0b13c250a1725eaf994c803f7dd7180e5 400B / 400B
=> sha256:464579d0b0b22c5e0695361f40fbae8a137c826f597600ab2cfa9c91c3779309 1.40MB / 1.40MB
=> sha256:072930715761932c17e00810e5a420f4a1a527013ac0095204c72697d7a02f6b 15.10MB / 15.10MB
=> sha256:278750ee0a7cab10b701ab577b2608c2a5a6e0181c9712cf0b04071a7ef1a6e 1.21kB / 1.21kB
=> extracting sha256:d1171b13e1264c85067ed40068d24ab5e9d63c34730790c779da2000e0bc3ca
=> extracting sha256:596d53a79e8832c0963cd370bf19a0a1ca2284c80329e1a34862c4f81035a0c8
=> extracting sha256:499ac96a111c43f9b3078f8d953ef0a22126c3d602afbcfa51cabb07d7c
=> extracting sha256:c68f01132b4b55eac202f48baf81cc0b13c250a1725eaf994c803f7dd7180e5
=> extracting sha256:199ac96a111c43f9b3078f8d953ef0a22126c3d602afbcfa51cabb07d7c
=> extracting sha256:464579d0b0b22c5e0695361f40fbae8a137c826f597600ab2cfa9c91c3779309
=> extracting sha256:072930715761932c17e00810e5a420f4a1a527013ac0095204c72697d7a02f6b
[2/2] COPY index.html /usr/share/nginx/html/
=> exporting to image
=> exporting layers
=> writing image sha256:5f90750b0e6770b04f1063816c803fed4a39cc50bc20d11e1900d2a512040f
=> naming to docker.io/library/ec2image
=> 0.0s
```

9. Docker image to verify

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ docker images
REPOSITORY      TAG          IMAGE ID       CREATED        SIZE
ec2image        latest      5f984790b4ef  2 minutes ago  47MB
[ec2-user@ip-172-31-22-49 dockerfolder]$
```

10. Verify container is running

```
[ec2-user@ip-172-31-22-49 dockerfolder]$ docker run -d -p 3000:80 ec2image
4a09355d806af0c96fcc0b34a21f52d82c86eca4e227fdf3825097ba5d7e33de
[ec2-user@ip-172-31-22-49 dockerfolder]$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED    STATUS    PORTS                               NAMES
4a09355d806a   ec2image   "/docker-entrypoint..." 4 seconds ago Up 3 seconds    0.0.0.0:3000->80/tcp, :::3000->80/tcp   unruffled_shamir
[ec2-user@ip-172-31-22-49 dockerfolder]$
```

11. Create volume in Docker

```
[ec2-user@ip-172-31-22-49 ~]$ docker volume create my-vol
my-vol
[ec2-user@ip-172-31-22-49 ~]$ docker volume ls
DRIVER    VOLUME NAME
local     my-vol
```

12. Docker network interface created

```
[ec2-user@ip-172-31-22-49 /]$ docker network create -d bridge my-net
f88893eed982ec9e4df3c629ea79e2d9c935154436f46f2567575f099821b979
```