


```

Installed:
containerd-1.7.20-1.amzn2023.0.1.x86_64
iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
libnftnl-1.0.1-19.amzn2023.0.2.x86_64
runc-1.1.13-1.amzn2023.0.1.x86_64

docker-25.0.6-1.amzn2023.0.2.x86_64
libcgroup-3.0-1.amzn2023.0.1.x86_64
libnftnl-1.2.2-2.amzn2023.0.2.x86_64

iptables-libs-1.8.8-3.amzn2023.0.2.x86_64
libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64
pigz-2.5-1.amzn2023.0.3.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 0.0s
=> => transferring dockerfile: 163B 0.0s
=> [internal] load metadata for docker.io/library/nginx:alpine 0.5s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 426B 0.0s
=> [1/2] FROM docker.io/library/nginx:alpine@sha256:2140dad235c130ac861018a4e13a6bc8aea3a35f3a40e20c1b060d51a7efd250 1.5s
=> resolve docker.io/library/nginx:alpine@sha256:2140dad235c130ac861018a4e13a6bc8aea3a35f3a40e20c1b060d51a7efd250 0.0s
=> sha256:43e4d24e0ed91be63b206e17d93e75256a6097070ce643c5e8f0379998044f170 3.62MB / 3.62MB 0.2s
=> sha256:596d53a7de8832c8943cd377bbf19a8a1ca2284c80329e1a1462c4f51035ae8e8 629B / 629B 0.1s
=> sha256:cb8f91112b6b50ead202f48bbf81ceeb34c250417254cf094c803f7dd718045 11.24kB / 11.24kB 0.0s
=> sha256:ae136e431e76e12e5d84979ea5e2ffff4dd95589c2435c8bb9c33e6c3960111d3 2.50kB / 2.50kB 0.0s
=> sha256:d1171b13e41264c85467ed40468d24ab5e9d63c34730790c779da2044e6bc3ca 1.76MB / 1.76MB 0.2s
=> sha256:2140dad235c130ac861018a4e13a6bc8aea3a35f3a40e20c1b060d51a7efd250 9.07kB / 9.07kB 0.0s
=> extracting sha256:43e4d24e0ed91be63b206e17d93e75256a6097070ce643c5e8f0379998044f170 0.2s
=> sha256:f99ac9ba1313c45bf9b3ab78f8de953ef9da22b2563d562afbcfa51cabb47d7c 957B / 957B 0.2s
=> sha256:fd072e74e282316f9f012356a6dfe3d97840535b03de6600ab0cf4c5379fc4d6 404B / 404B 0.2s
=> sha256:45eb579d59b22c5e0595361f49fbeeab137c526f597666eb2cfa7c91c5779349 1.40kB / 1.40kB 0.3s
=> sha256:472934715761932c17e60819e5a424f4a1a527413ac60952d4c72697d7a02f6b 15.10MB / 15.10MB 0.7s
=> sha256:379754eea6a7cab18b781ab577b2668c2a5a6e0181c9712cfb9b4871a7ef1a8e 1.21kB / 1.21kB 0.3s
=> extracting sha256:d1171b13e41264c85467ed40468d24ab5e9d63c34730790c779da2044e6bc3ca 0.1s
=> extracting sha256:596d53a7de8832c8963cd377bbf19a8a1ca2284c80329e1a1462c4f51035ae8e8 0.0s
=> extracting sha256:f99ac9ba1313c45bf9b3ab78f8de953ef9da22b2563d562afbcfa51cabb47d7c 0.0s
=> extracting sha256:fd072e74e282316f9f012356a6dfe3d97840535b03de6600ab0cf4c5379fc4d6 0.0s
=> extracting sha256:45eb579d59b22c5e0595361f49fbeeab137c526f597666eb2cfa7c91c5779349 0.0s
=> extracting sha256:45eb579d59b22c5e0595361f49fbeeab137c526f597666eb2cfa7c91c5779349 0.0s
=> extracting sha256:472934715761932c17e60819e5a424f4a1a527413ac60952d4c72697d7a02f6b 0.6s
=> [2/2] COPY index.html /usr/share/nginx/html/ 0.1s
=> exporting to image 0.0s
=> exporting layers 0.0s
=> writing image sha256:5f984790b4ef7f08b4f1863816c842fedfaf39cc5e8c24d11e1940d2a518648f 0.0s
=> 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
4a09355d806af0c96fcc0b34a21f52482c86eca4e227fd3825097ba5d7e33de
[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]$
```