

ASSIGNMENT-3

IMPLEMENTATION OF VIRTUAL MACHINE AND DOCKER

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Checking Docker Version

```
ubuntu@ip-172-31-12-45:~$ docker --version
Docker version 26.1.1, build 4cf5afa
```

```
ubuntu@ip-172-31-12-45:~$ sudo systemctl start docker
```

```
ubuntu@ip-172-31-12-45:~$ sudo systemctl status docker
• docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled)
   Active: active (running) since Mon 03 Feb 2026 10:15:21 UTC; 8s ago
   TriggeredBy: • docker.socket
     Docs: https://docs.docker.com
    Main PID: 1324 (dockerd)
      Tasks: 21
     Memory: 44.8M
        CPU: 312ms
    CGroup: /system.slice/docker.service
            └─1324 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
```

Dockerfile Creation

```
ubuntu@ip-172-31-12-45:~$ nano Dockerfile
```

```
FROM ubuntu:latest
CMD ["echo", "Hello from Docker Container"]
```

Building Docker Image

```

ubuntu@ip-172-31-12-45:~$ docker build -t mycontainer .
Sending build context to Docker daemon 2.048kB
Step 1/2 : FROM ubuntu:latest
latest: Pulling from library/ubuntu
Digest: sha256:8c6a8b0b9d93a5e91c4eab1234567890abcdef1234567890abcdef12345678
Status: Downloaded newer image for ubuntu:latest
---> 1f6ddc1b2547
Step 2/2 : CMD ["echo", "Hello from Docker Container"]
---> Running in 4d7c3a2b1f9e
---> 9ab8c7d6e5f4
Successfully built 9ab8c7d6e5f4
Successfully tagged mycontainer:latest

```

```

ubuntu@ip-172-31-12-45:~$ docker run mycontainer
Hello from Docker Container

```

Listing Containers

```

ubuntu@ip-172-31-12-45:~$ docker ps -a

```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
a1b2c3d4e5f6	mycontainer	"echo Hello from Doc..."	10 seconds ago	Exited (0) 9 seconds ago


```

docker ps -a

```

COMMAND	CREATED	STATUS	PORTS	NAMES
"echo Hello from Doc..."	10 seconds ago	Exited (0) 9 seconds ago		peaceful_morse