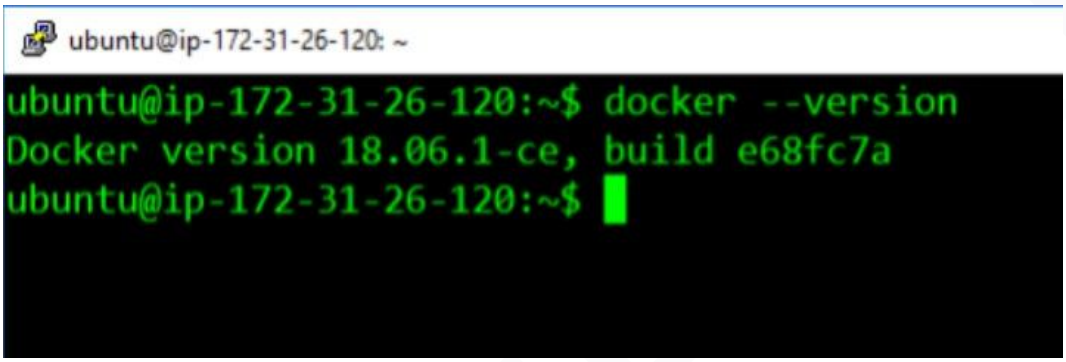
Module 3: Hands-On: Common Docker Commands

Common Docker Commands:

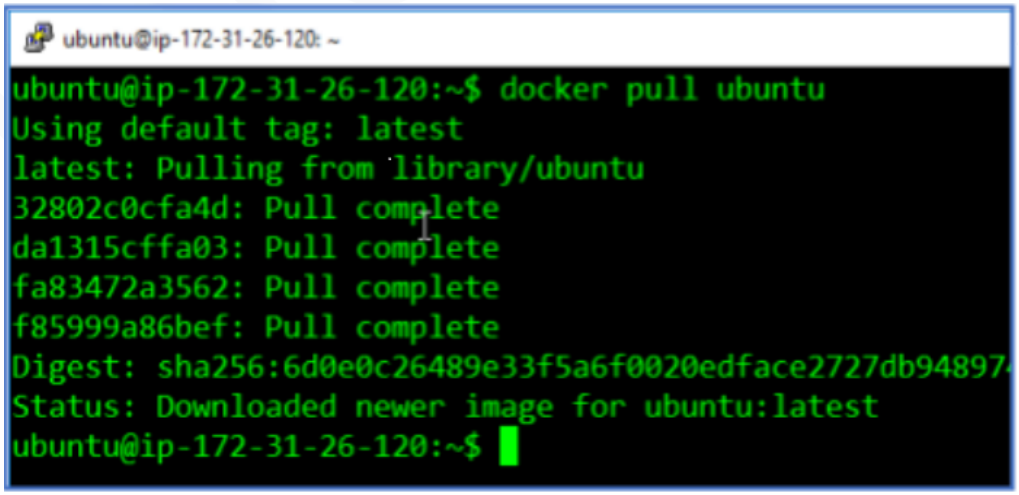
1. This command helps you know the installed version of the Docker software on your system

```
$ docker --version
```



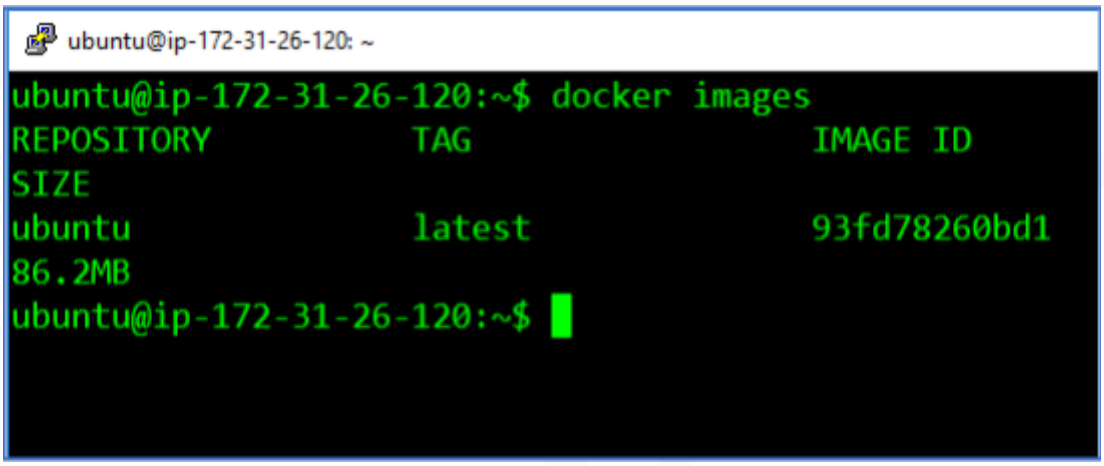
2. This command helps you pull images from the central Docker repository

```
$ docker pull <image-name>
```



3. This command helps you in listing all the Docker images downloaded on your system

```
$ docker images
```



4. This command helps in running containers from their image name

```
$ docker container run <image-name>
```

```
ubuntu@ip-172-31-45-253:~$ sudo docker container run -itd --name new ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
ea362f368469: Pull complete
Digest: sha256:b5a61709a9a44284d88fb12e5c48db0409cfad5b69d4ff8224077c57302df9cf
Status: Downloaded newer image for ubuntu:latest
fb1cfe0ad6f0d6ece9d24f935d52021f9352620bfb2e381ed5ba515a01afa287
```

5. This command helps in listing all the containers which are running in the system

```
$ docker container ls
```



```
ubuntu@ip-172-31-45-253:~$ sudo docker container ls
CONTAINER ID   IMAGE     COMMAND   CREATED         STATUS         PORTS     NAMES
fb1cfe0ad6f0   ubuntu    "bash"    2 minutes ago   Up 2 minutes             new
```

6. If there are any stopped containers, they can be seen by adding the “--all” flag in this command

```
$ docker container ls --all
```

```
ubuntu@ip-172-31-45-253:~$ sudo docker container ls --all
CONTAINER ID   IMAGE     COMMAND   CREATED          STATUS                      PORTS     NAMES
244afb19377f   ubuntu    "bash"    20 seconds ago   Exited (0) 5 seconds ago              new1
fb1cfe0ad6f0   ubuntu    "bash"    10 minutes ago   Up 10 minutes                         new
```

7. For logging into/accessing the container, one can use the exec command

```
$ docker exec <container-id>
```

```
root@233e926091f3: /
ubuntu@ip-172-31-26-120:~$ docker exec -it 233e926091f3 bash
root@233e926091f3:/#
```

8. For stopping a running container, we use the “stop” command

```
$ docker container stop <container-id>
```

```
ubuntu@ip-172-31-45-253:~$ sudo docker container stop fb1cfe0ad6f0
fb1cfe0ad6f0
```


9. This command kills the container by stopping its execution immediately. The difference between ‘docker kill’ and ‘docker stop’. ‘docker stop’ gives the container time to shutdown gracefully. In situations when it is taking too much time for getting the container to stop, one can opt to kill it.

```
$ docker container kill <container-id>
```

```
ubuntu@ip-172-31-45-253:~$ sudo docker container kill fb1cfe0ad6f0
fb1cfe0ad6f0
```

10. To remove a stopped container from the system, we use the “rm” command

```
$ docker rm <container-id>
```

```
ubuntu@ip-172-31-45-253:~$ sudo docker container rm fb1cfe0ad6f0
fb1cfe0ad6f0
```

11. To remove an image from the system we use the command “rmi

```
$ docker rmi <image-id>
```

```
ubuntu@ip-172-31-45-253:~$ sudo docker rmi ubuntu
Untagged: ubuntu:latest
Untagged: ubuntu@sha256:b5a61709a9a44284d88fb12e5c48db0409cfad5b69d4ff8224077c57302df9cf
Deleted: sha256:d13c942271d66cb0954c3ba93e143cd253421fe0772b8bed32c4c0077a546d4d
Deleted: sha256:0eba131dffd015134cb310c284b776c1e44d330146cd2f0e30c4e464d0b76d24
```

