

COMMON DOCKER COMMANDS

- 1: This command helps you know the installed version of the docker software on your system

```
$ docker --version
```

```
ubuntu@ip-172-31-26-120: ~  
ubuntu@ip-172-31-26-120:~$ docker --version  
Docker version 18.06.1-ce, build e68fc7a  
ubuntu@ip-172-31-26-120:~$ █
```

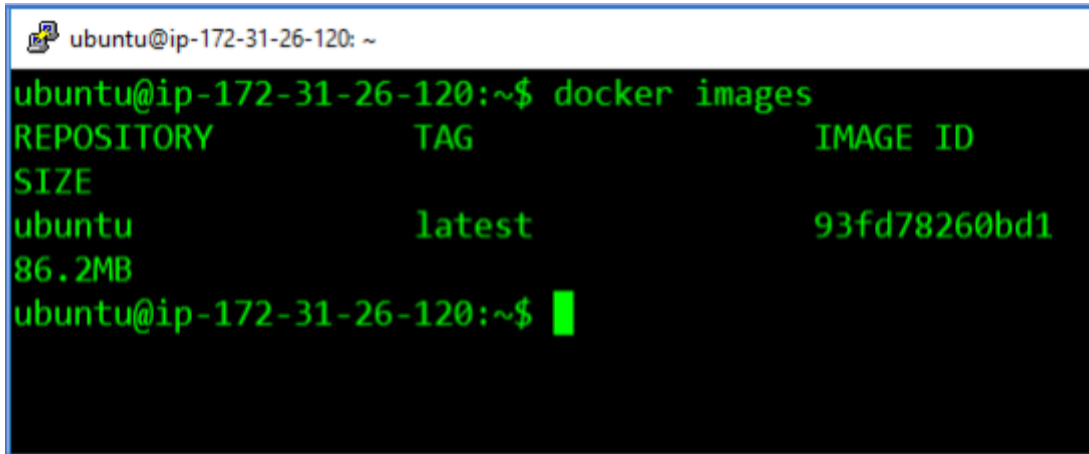
- 2: This command helps you pull images from the central docker repository.

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

```
ubuntu@ip-172-31-26-120: ~  
ubuntu@ip-172-31-26-120:~$ docker pull ubuntu  
Using default tag: latest  
latest: Pulling from library/ubuntu  
32802c0cfa4d: Pull complete  
da1315cffa03: Pull complete  
fa83472a3562: Pull complete  
f85999a86bef: Pull complete  
Digest: sha256:6d0e0c26489e33f5a6f0020edface2727db948974  
Status: Downloaded newer image for ubuntu:latest  
ubuntu@ip-172-31-26-120:~$ █
```

3: This command helps you in listing all the docker images, downloaded on your system.

```
$ docker images
```



```
ubuntu@ip-172-31-26-120: ~  
ubuntu@ip-172-31-26-120:~$ docker images  
REPOSITORY          TAG                 IMAGE ID  
SIZE  
ubuntu               latest             93fd78260bd1  
86.2MB  
ubuntu@ip-172-31-26-120:~$
```

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

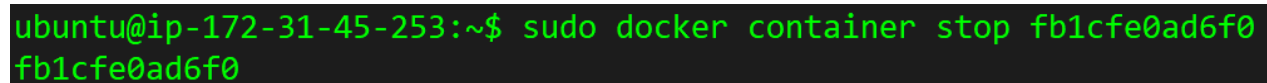
```
$ docker exec <container-id>
```

A terminal window with a blue border. The title bar shows a terminal icon and the text "root@233e926091f3: /". The terminal content shows a green prompt "ubuntu@ip-172-31-26-120:~\$" followed by the command "docker exec -it 233e926091f3 bash" in green. The next line shows a green prompt "root@233e926091f3:/#" followed by a green cursor block.

```
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>
```

A terminal window with a black background. The prompt is "ubuntu@ip-172-31-45-253:~\$" in green. The command "sudo docker container stop fb1cfe0ad6f0" is entered in green. The output "fb1cfe0ad6f0" is shown in green on the next line.

```
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
```

