

All Docker Commands

1. Docker Basic Command
2. Docker Container Command
3. Docker Image Command
4. Docker Volume Command
5. Docker Network Command
6. Dockerfile Command

1. Docker Basic Command

Check docker version

```
docker -v
```

Or

```
docker --version
```

How to check detailed information about installed docker

```
docker info
```

How to look for help document

```
docker --help
```

How login in Docker hub

```
docker login
```

How to logout from Docker hub

`docker logout`

How to see all running containers

`docker ps`

How to see all running/stopped/exited containers

`docker ps -a`

How to list all Docker images

`docker images`

How to check memory uses on system

`docker stats`

How to check Disk uses of Docker

`docker system df`

How to remove all un-used container and images

`docker system prune`

2.Docker Container Command

How to check all Running Container

```
docker ps
```

How to check all Running and Stopped Container

```
docker ps -a
```

How to create container

```
docker run -it -d image-name
```

How to enter inside the container

```
docker exec -it container-id/name bash
```

How to exit from container

```
Exit
```

How to stop a container

```
docker stop container-id/name
```

How to start a container

```
docker start container-id/name
```

How to restart a container

```
docker restart container-id/name
```

How to kill a Container

```
docker kill container-id/name
```

How to delete a container

```
docker rm container-d/name
```

How to see all details of particular container

```
docker logs container-id/name
```

How to add name to container

```
docker run -it -d --name provide-any-name image-id
```

3.Docker Image Command

How to see all image

```
docker images
```

Download image from Docker hub

```
docker pull image-name
```

Upload image to Docker hub

```
docker push login-username/image-name
```

How to Run the image

```
docker run -it -d image-name
```

How to delete an image

```
docker rmi image-name
```

Delete multiple image by single command

```
docker rmi image1 image2
```

Remove all un-used image

docker prune

4.Docker Volume Command

Show all Volume

docker volume ls

Create a Volume

docker volume create volume-name

Get all details about volume

docker volume inspect volume-name

Delete a volume

docker volume rm volume-name

Remove all volume

docker volume prune

Attach volume to a container

```
docker run -it -d -v volume-name:/volume-location/ image-name
```

5.Docker Network Command

See all network

```
docker network ls
```

Create a new network

```
docker network create network-name
```

Get all details about network

```
docker network inspect network-name
```

Attach a container with network

```
docker run -it -d --net network-name image-name
```

Attach a running container with network

```
docker network connect network-name container-name
```

Remove container from network

```
docker network disconnect network-name container-name
```

Delete a network

```
docker network rm network-name
```

Remove all un-used network

```
docker network prune
```

6.Command to Run Dockerfile

How to run Dockerfile

```
docker build /location-of-dockerfile/ -t any-name
```

How to see the image

```
docker images
```

How to run that image

```
docker run -d -it image-name
```


What is Dockerfile

Dockerfile is use to create Docker custom image.

If we want an image which is containing an operating system and a web server. So for creating this image we have to use Dockerfile.

Create and Save Dockerfile

This file should write in YAML. After that the name of the file should always be save by the name of Dockerfile with always capital D.

Most importantly the Dockerfile file should contain multiple commands. So that we can create custom images.

Inside Dockerfile commands:

- **FROM:** Initialize a new build image and set the base image.
- **ADD:** It is use to add a file to a particular location in the docker image.
- **RUN:** This will execute the command on the docker image.
- **CMD:** Execute at the start of the container.
- **ENTRYPOINT:** Always execute at the run time of the container.