

:: Docker Lifecycle Commands ::

Below are some commonly used Docker Basic commands you will use frequently.

- 1) docker - To check all available Docker Commands
- 2) docker version - To show Docker version
- 3) docker info - Displays system wide information
- 4) docker pull - To pull the docker Images from Docker Hub Repository
- 5) docker build - To Docker Image from Dockerfile
- 6) docker run - Run a container from a docker image.
- 7) docker commit - To commit a changes in container file OR create new Docker Image

8) `docker ps` - List all the running containers. Add the `-a` flag to list all the containers.

9) `docker start` - To start a docker container

10) `docker stop` - To stop a docker container

11) `docker logs` - To view Logs for a Docker Container

12) `docker rename` - To rename Docker Container

13) `docker rm` - To remove the Docker Container, stop it first and then remove it

:: Docker Image Commands ::

Docker Image is a application template including binaries and libraries needed to run a Docker container.

Below are some commonly used Docker Image commands while working with Docker.

- 1) `docker build` - To build Docker Image from Dockerfile
2. `docker pull` - To pull Docker Image from Docker Hub Registry
3. `docker tag` - To add Tag to Docker Image
4. `docker images` - To list Docker Images
5. `docker push` - To push Docker Images to repository
6. `docker history` - To show history of Docker Image

7. docker inspect - To show complete information in JSON format

8. docker save - To save an existing Docker Image

9. docker import - Create Docker Image from Tarball

10. docker export - To export existing Docker container

11. docker load - To load Docker Image from file or archives

12. docker rmi - To remove docker images

:: Docker Container Commands ::

- 1) docker start - To start a Docker container
- 2) docker stop - To stop a running docker container
- 3) docker restart - To restart docker container
- 4) docker pause - To pause a running container
- 5) docker unpause - To unpause a running container
- 6) docker run - Creates a docker container from docker image
- 7) docker ps - To list Docker containers
- 8) docker exec - To Access the shell of Docker Container
- 9) docker logs - To view logs of Docker container

10) docker rename - To rename Docker container

11) docker rm - To remove Docker container

12) docker inspect - Docker container info command

12) docker attach - Attach Terminal to Running container

12) docker kill - To stop and remove Docker containers

13) docker cp - To copy files or folders between a container and from local filesystem.

:: Docker Compose Commands ::

Docker compose is used to run multiple containers in a single application.

- 1) docker-compose build - To build docker compose file
- 2) docker-compose up - To run docker compose file
- 3) docker-compose ls - To list docker images declared inside docker compose file
- 4) docker-compose start - To start containers which are already created using docker compose file
- 5) docker-compose run - To run one of application inside docker-compose.yml
- 6) docker-compose rm - To remove docker containers from docker compose
- 7) docker-compose ps - To check docker container status from docker compose

:: Docker Volume Commands ::

- 1) docker volume create - To create docker volume
- 2) docker volume inspect - To inspect docker volume
- 3) docker volume rm - To remove docker volume

:: Docker Networking Commands ::

1) `docker network create` - To create docker network

2) `docker network ls` - To list docker networks

3) `docker network inspect` - To view network configuration details

:: Docker Logs and Monitoring Commands ::

- 1) `docker ps -a` - To show running and stopped containers
- 2) `docker logs` - To show Docker container logs
- 3) `docker events` - To get all events of docker container
- 4) `docker top` - To show running process in docker container
- 5) `docker stats` - To check cpu, memory and network I/O usage
- 6) `docker port` - To show docker containers public ports

:: Docker Prune Commands ::

1) To clean all resources which are dangling or not associated with any docker containers

- (docker system prune)

2) To remove unused and stopped docker images

- (docker system prune -a)

3) To remove Dangling Docker images

- (docker image prune)

- (docker image prune -a)

4) To remove all unused docker containers

- (docker container prune)

5) To remove all unused docker volumes

- (docker volume prune)

6) To remove all unused docker networks

- (docker network prune)

:: Docker Hub Commands ::

1) To search docker image

- (docker search ubuntu)

2) To pull image from docker hub

- (docker pull ubuntu)

3) Push the Docker Image again

- (docker push fosstechnix/nodejsdocker)

4) To logout from Docker Hub Registry

- (docker logout)