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Docker Commands

Most Used Docker Commands

docker --version

docker --help

docker pull

docker run

docker build

docker login

docker push

docker ps

docker images

docker stop

docker kill

docker rm

docker rmi

docker exec

docker commit

docker import

docker export

docker container

docker compose

docker swarm

docker service

Basic Docker Commands

docker --version

This command returns the version of Docker which is installed

Basic Docker Commands

`docker --help`

This command returns a list of commands available in Docker along with the possible flags (options)

Basic Docker Commands

| docker pull | `$ docker pull ubuntu` |

This command pulls a new Docker image from the Docker Hub

PULL

Basic Docker Commands

docker images

```
$ docker images
```

This command lists down all the images in your local repo

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Basic Docker Commands

docker run

```
$ docker run ubuntu
```

This command executes a Docker image on your local repo & creates a running Container out of it

Basic Docker Commands

| docker build | `$ docker build -t MyUbuntuImage .` |

This command is used to compile the Dockerfile, for building custom Docker images based on the

Basic Docker Commands

docker container

> This command is used to perform various operations on the container. Refer to www.docs.docker.com for more info.


```
$ docker container logs
```

```
$ docker container kill
```

```
$ docker container rm
```

```
$ docker container run
```

```
$ docker container start
```

And so on..

Basic Docker Commands

| docker login | `$ docker login` |

This command is used to Login to Docker Hub repo from the CLI

User Login

Basic Docker Commands

docker push

```
$ docker push vardhanns/MyUbuntuImage
```

This command pushes a Docker image on your local repo to the Docker Hub

PUSH

Basic Docker Commands

docker ps

```
$ docker ps
```

> This command lists all the running containers in the host
> If '–a' flag is specified, shutdown containers are also displayed

```
$ docker ps -a
```

Basic Docker Commands

| docker stop | `$ docker stop fe6e370a1c9c` |

This command shuts down the container whose Container ID is specified in arguments. Container is shut down gracefully by waiting for other dependencies to shut

Basic Docker Commands

docker kill

```
$ docker kill fe6e370a1c9c
```

This command kills the container by stopping its execution immediately. Its similar to force kill

Basic Docker Commands

docker rm

```
$ docker rm fe6e370a1c9c
```

This command removes the container whose Container ID is specified in arguments

Basic Docker Commands

| docker rmi | `$ docker rmi MyUbuntuImage` |

This command removes the image whose name has been specified in arguments

Basic Docker Commands

docker exec

```
$ docker exec -it fe6e370a1c9c bash
```

This command is used to access an already running container and perform operations inside the container

Basic Docker Commands

docker commit

```
$ docker commit fe6e370a1c9c vardhanns/MyModifiedImage
```

This command creates a new image of an edited container on the local repo

Basic Docker Commands

docker export

```
$ docker export --output="latest.tar" mycontainer
```

This command is used to export a Docker image into a tar file in your local system

Basic Docker Commands

docker import

```
$ docker import /home/edureka/Downloads/demo.tgz
```
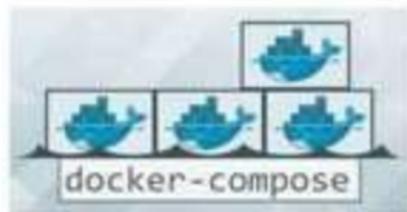
This command is used to import the contents of a tar file (usually a Docker image) into your local repo

Advanced Docker Commands

docker compose

This command is used to power multi-container applications where various services will be hosted inside different containers

docker-compose

```
$ docker-compose build
```
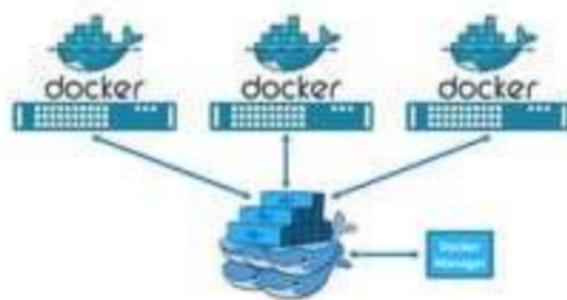
```
$ docker-compose up
```

Note: This command is executed in the directory where YAML file is present for building the Compose.

Advanced Docker Commands

docker swarm

```
$ docker swarm init --advertise-addr 192.168.1.100
```

This command creates a network of Docker engines/ hosts to execute containers in parallel (for scaling up & high availability)

```
$ docker swarm join
```

```
$ docker swarm join-token
```

```
$ docker swarm leave
```

And so on..

Advanced Docker Commands

docker service

This command is used to control any existing Docker service (Containers/Compose/Swarm/Others..)

```
$ docker service ls
```

```
$ docker service ps
```

```
$ docker service scale
```

```
$ docker service stop
```

```
$ docker service logs
```

```
$ docker service rm
```

And so on..

Thank You

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