

Docker Commands

IMAGES :

List all Local images

docker images

Delete an image

docker rmi <image_name>

Remove unused images

docker image prune

Build an image from a Dockerfile

docker build -t <image_name>:<version> . //version is optional

docker build -t <image_name>:<version> . -no-cache //build without cache

CONTAINER :

List all Local containers (running & stopped)

docker ps -a

List all running containers

docker ps

Create & run a new container

docker run <image_name>

//if image not available locally, it'll be downloaded from DockerHub

Run container in background

docker run -d <image_name>

Run container with custom name

docker run - -name <container_name> <image_name>

Port Binding in container

docker run -p<host_port>:<container_port> <image_name>

Set environment variables in a container

docker run -e <var_name>=<var_value> <container_name> (or <container_id>)

Start or Stop an existing container

docker start|stop <container_name> (or <container_id>)

Inspect a running container

docker inspect <container_name> (or <container_id>)

Delete a container

docker rm <container_name> (or <container_id>)

TROUBLESHOOT :

Fetch logs of a container

docker logs <container_name> (or <container_id>)

Open shell inside running container

docker exec -it <container_name> /bin/bash

docker exec -it <container_name> sh

DOCKER HUB :

Pull an image from DockerHub

docker pull <image_name>

Publish an image to DockerHub

docker push <username>/<image_name>

Login into DockerHub

docker login -u <image_name>

Or

docker login

//also, docker logout to remove credentials

Search for an image on DockerHub

docker search <image_name>

VOLUMES :

List all Volumes

docker volume ls

Create new Named volume

docker volume create <volume_name>

Delete a Named volume

```
docker volume rm <volume_name>
```

Mount Named volume with running container

```
docker run - -volume <volume_name>:<mount_path>
```

//or using - -mount

```
docker run - -mount type=volume,src=<volume_name>,dest=<mount_path>
```

Mount Anonymous volume with running container

```
docker run - -volume <mount_path>
```

To create a Bind Mount

```
docker run - -volume <host_path>:<container_path>
```

//or using - -mount

```
docker run - -mount type=bind,src=<host_path>,dest=<container_path>
```

Remove unused local volumes

```
docker volume prune //for anonymous volumes
```

NETWORK :

List all networks

```
docker network ls
```

Create a network

```
docker network create <network_name>
```

Remove a network

```
docker network rm <network_name>
```

Remove all unused networks

```
docker network prune
```