



## 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*

Your paragraph text

### **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`