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

OPen shell
-it -d mode m hum running container ke bash /
shell ko access kerne kliye ye use kerte ha ,
for checking file, dependencies, for
environment variable

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