Docker Commands and Explanations

docker --version

Check the installed Docker version.

docker pull <image>

Download a Docker image from the repository.

docker images

List all downloaded Docker images.

docker run <image>

Run a container from the specified image.

docker ps

List all running containers.

docker ps -a

List all containers, including stopped ones.

docker stop <container_id>

Stop a running container.

docker rm <container_id>

Remove a stopped container.

docker rmi <image>

Remove an image from the local storage.

docker build -t <image_name> .

Build a Docker image from a Dockerfile.

docker exec -it <container_id> bash

Open an interactive shell inside a running container.

docker logs <container_id>

Show logs of a container.

docker inspect <container_id>

Show detailed information about a container.

docker network ls

List all Docker networks.

docker volume ls

List all Docker volumes.

docker-compose up -d

Start services in the background using docker-compose.

docker-compose down

Stop and remove all containers defined in docker-compose.yml.

docker system prune -a

Remove unused data, including stopped containers and images.

docker login

Log in to Docker Hub.

docker tag <image_id> <repo/image:tag>

Tag an image for pushing to a repository.

docker push <repo/image:tag>

Push an image to a repository.

docker pull <repo/image:tag>

Pull an image from a repository.

docker stats

Show real-time resource usage of running containers.