Docker Commands Cheat Sheet with Examples

Basic Docker Commands

docker --version - Check Docker version.

Example: docker --version

docker info - Display system-wide information.

Example: docker info

Container Management

docker run <image> - Run a container from an image.

Example: docker run ubuntu

docker run -d <image> - Run a container in detached mode (in the background).

Example: docker run -d nginx

docker ps - List running containers.

Example: docker ps

docker ps -a - List all containers (including stopped).

Example: docker ps -a

docker stop <container_id> - Stop a running container.

Example: docker stop 123abc

docker start <container_id> - Start a stopped container.

Example: docker start 123abc

docker restart <container_id> - Restart a container.

Example: docker restart 123abc

docker rm <container_id> - Remove a container.

Example: docker rm 123abc

docker logs <container_id> - View logs of a container.

Example: docker logs 123abc

docker exec -it <container_id> bash - Access the shell of a running container.

Example: docker exec -it 123abc bash

Image Management

docker images - List all Docker images.

Example: docker images

docker pull <image> - Download an image from Docker Hub.

Example: docker pull mysql

docker build -t <image_name> . - Build a Docker image from a Dockerfile.

Example: docker build -t my-app .

docker rmi <image_id> - Remove an image.

Example: docker rmi ubuntu:latest

docker tag <image> <new_image_name> - Tag an image with a new name.

Example: docker tag ubuntu my-ubuntu:latest

Network & Volumes

docker network ls - List all Docker networks.

Example: docker network ls

docker network create <network_name> - Create a new network.

Example: docker network create my-network

docker volume ls - List all Docker volumes.

Example: docker volume ls

docker volume create <volume_name> - Create a new volume.

Example: docker volume create my-volume

Docker Compose

docker-compose up - Start services defined in docker-compose.yml.

Example: docker-compose up -d

docker-compose down - Stop and remove containers, networks, and volumes.

Example: docker-compose down