# **Comprehensive Docker Commands Guide**

#### 1. Docker Basics

docker --version

Check the installed Docker version.

docker info

Display system-wide information about Docker.

docker help

List all Docker commands.

### 2. Working with Images

docker pull <image\_name>

Download an image from Docker Hub.

docker images

List all Docker images.

docker rmi <image\_name>

Remove a Docker image.

docker tag <image\_id> <new\_name>

Tag an image with a new name.

docker save -o <file\_name>.tar <image\_name>

Save an image to a tar archive.

docker load -i <file\_name>.tar

Load an image from a tar archive.

## 3. Working with Containers

docker run <image\_name>

Run a container from an image.

docker ps

List running containers. docker ps -a List all containers, including stopped ones. docker stop <container\_id> Stop a running container. docker start <container\_id> Start a stopped container. docker restart <container\_id> Restart a container. docker rm <container\_id> Remove a container. docker exec -it <container\_id> /bin/bash Open shell access to a container. docker logs <container\_id> Show logs from a container. docker inspect <container\_id> Display detailed information on a container. 4. Docker Volumes docker volume create <volume name> Create a new volume. docker volume Is List all volumes. docker volume inspect <volume\_name> Inspect a specific volume. docker volume rm <volume\_name>

Remove a volume.

#### 5. Docker Networks

docker network Is

List all networks.

docker network create <network\_name>

Create a new network.

docker network inspect <network\_name>

Inspect a specific network.

docker network rm <network name>

Remove a network.

### 6. Dockerfile & Image Building

docker build -t <tag\_name> .

Build an image from a Dockerfile.

docker history <image\_name>

Show the history of an image.

## 7. Docker Compose

docker-compose up

Start services defined in a docker-compose.yml file.

docker-compose down

Stop and remove all services defined in docker-compose.

docker-compose build

Build images as defined in docker-compose.yml.

docker-compose ps

List containers managed by Docker Compose.

## 8. Monitoring & System Commands

docker stats

Display live container resource usage statistics.

docker system df

Show Docker disk usage.

docker system prune

Remove unused data (containers, networks, images, etc.).