# **DOCKER COMMANDS CHEAT SHEET**

Use this cheat sheet to master Docker quickly. All commands tested on Linux (Ubuntu) \ Keep this handy for Docker project setups, DevOps labs, or container troubleshooting.

# **Installation & Setup**

```
sudo apt update && sudo apt install docker.io
```

Updates the system and installs Docker

### **Container Commands**

```
docker ps  # Show running containers
docker ps -a  # Show all containers (even stopped)
docker run mysql:latest # Run container from image
docker run --name mydb -v mysql-data:/var/lib/mysql mysql
```

Use --name to name your container\ -v is for volume (data persistence)

```
docker stop <id> # Stop container

docker start <id> # Start container

docker restart <id> # Restart container

docker pause <id> # Pause container

docker unpause <id> # Unpause container

docker rm <id> # Remove container

docker kill <id> # Force stop container
```

### **Images**

```
docker pull ubuntu  # Get image from Docker Hub
docker push myimg  # Push image to your registry
docker images  # List all images
docker rmi <image_id>  # Delete an image
docker tag old new:tag  # Tag image
```

### **Build & Dockerfile**

```
docker build -t myapp:latest .
```

Builds image from Dockerfile in current folder

## **Volumes (Data Persistence)**

```
docker volume ls
docker volume create mysql-data
docker volume inspect mysql-data
docker volume rm mysql-data
```

## **Networks**

```
docker network ls
docker network create mynetwork
docker network connect mynetwork <container>
docker network disconnect mynetwork <container>
```

#### Default networks:

- bridge default
- host shares host ports
- none no networking
- custom bridge your own network setup

## **Container Info & Logs**

# Export/Import

```
docker export <id> > file.tar
docker import file.tar
docker save myimg > image.tar
docker load < image.tar</pre>
```

## Monitoring

```
docker stats  # Resource usage (CPU/RAM)

docker top <id> # Processes inside container

docker diff <id> # Files changed inside container

docker events  # Docker event stream

docker history <img> # Image build history
```

### **Other Useful Stuff**

```
docker commit <id> newimg  # Save changes as new image docker login/logout  # Login to Docker Hub docker wait <id> # Wait for container exit docker attach <id> # Attach to container terminal docker system prune  # Clean up everything docker system df  # Show Docker space usage
```

## **Advanced Tools**

```
docker buildx# Multi-platform buildsdocker compose up# Run multi-container apps (docker-compose.yml)docker swarm init# Cluster management (Swarm mode)
```

# **System Info**

```
docker system info
docker system events
```

docker system version
docker system inspect