

Docker Command Cheatsheet

Basic Docker Info

`docker --version` # Check Docker version
`docker info` # Display system-wide Docker info

Images

`docker pull nginx` # Download image from Docker Hub
`docker images` # List downloaded images
`docker rmi nginx` # Remove an image
`docker build -t myapp:1.0 .` # Build image from Dockerfile in current dir

Containers

`docker run nginx` # Run container (nginx image)
`docker run -it ubuntu /bin/bash` # Run in interactive terminal mode
`docker run -d -p 80:80 nginx` # Run detached & map port 80
`docker run --name web nginx` # Run container with custom name
`docker ps` # List running containers
`docker ps -a` # List all containers (including stopped)
`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

Volumes

`docker volume create myvol` # Create volume
`docker volume ls` # List volumes
`docker run -v myvol:/data nginx` # Mount volume inside container

Container Management

`docker exec -it <container> bash` # Run command inside running container
`docker logs <container>` # View logs of a container
`docker inspect <container_or_image>` # Low-level details in JSON format

Dockerfile

`FROM python:3.10`

WORKDIR /app

COPY . .

RUN pip install -r requirements.txt

CMD ["python", "app.py"]

docker build -t myapp . # Build image from Dockerfile

Docker Compose

version: "3"

services:

web:

image: nginx

ports:

- "8080:80"

docker-compose up # Start all services

docker-compose down # Stop and remove services

Clean-Up

docker system prune # Remove unused containers, networks, images

docker image prune # Remove unused images

docker volume prune # Remove unused volumes

Run with Environment Variables

docker run -e ENV=prod myapp # Pass environment variable to container

Networking

docker network ls # List networks

docker network create mynet # Create custom network

docker run --network=mynet myapp # Attach container to custom network