

Docker & Compose Cheat Sheet

by Hezart via cheatography.com/214134/cs/46660/

Definitions	
Image	A snapshot or blueprint of an environment (OS + app + dependencies)
Container	A running instance of an image (lightweight, isolated environment)
Dockerfile	A text file with instructions to build a Docker image
Volume	Persistent data storage shared between host and container
Bind Mount	Mounts a specific file or folder from host into the container
Port Mapping	Links container port to host port (e.g., -p 8080:80)
Network	Virtual network for containers to talk to each other or the outside world
Base Image	The starting image in a Dockerfile (e.g., FROM ubuntu)
ENTRYPOINT	Default executable when container starts (used for fixed command behavior)
CMD	Arguments passed to ENTRYPOINT or default command (overridable)
Context	Files sent to the Docker engine when building an image

docker-compose.yml (cont)		
build	Build image from Dockerfile (build: . or build: ./app)	
container- _name	Optional name for the container	
ports	Host-to-container port mapping ("8080:80")	
volumes	Mount host paths or named volumes ("./data:/app/data")	
enviro- nment	Set environment variables (VAR=value)	
command	Override CMD from image/- Dockerfile	
depends_on	Declare startup order between services	
networks	Assign container to network (default if not declared)	
restart	Auto-restart policy (always, on-failure, unless-stopped)	
Dockerfile		
FROM	Sets the base image	
WORKDIR	Sets working directory inside container	
COPY	Copies files into the image	
RUN	Executes a command in the image	
EXPOSE	Declares which port(s) the container uses	
USER	Sets default user inside the container	
	container	

Docker comman	ds
docker ps (-a)	List containers
docker exec - it container bash	Run command in a running container (e.g., open shell)
docker stop container	Gracefully stop a containe
docker rm container	Delete (remove) a stopped container
docker rmi image	Delete an image
docker logs container	View container output logs
Docker Compose	e Commands
docker-compose up	Start services (build if needed)
docker-compose up -d	Start in background (detached mode)
docker-compose	Stop and remove containers + network
docker-compose	Build services from Dockerfile
·	Dockerfile
build docker-compose	Dockerfile List running services
build docker-compose ps docker-compose	Dockerfile List running services View service logs



services

image

docker-compose.yml

container

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Top-level section; defines each

Use an image from registry or

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container

Sets environment variables

ENV

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