Docker Cheat Sheet

Images, Container, Networking, Volumes and logs

Basics & Versions

- docker version — Client & Server
- docker --version — Client only
- docker info — System/daemon info
- docker compose version — Compose plugin v2
- docker buildx version — Buildx plugin

Images

- docker image ls — List images
- docker pull nginx:alpine — Pull image:tag
- docker build -t myapp:1.0 . — Build from Dockerfile (current dir)
- docker tag myapp:1.0 myrepo/myapp:1.0 — Retag for registry
- docker push myrepo/myapp:1.0 — Push to registry
- docker image rm IMAGE_ID — Remove image

Containers

- docker run --name web -d -p 8080:80 nginx:alpine — Detached + port
- docker ps / docker ps -a — Running / All
- docker exec -it web sh — Exec interactive shell
- docker start|stop|restart web — Lifecycle
- docker rm web — Remove stopped container

Volumes & Mounts

- docker volume createdata— Createnamed volume
- docker run -v data:/var/lib/data postgres — Named volume
- Prefer --mount: --mount type=bind,src="$(pwd)",dst=/app
- docker volume prune -f — Remove unused volumes

Networking

- docker network create app-net —Create bridge network
- docker run --network app-net --name api myapi:1.0 — Attach on run
- docker network connect app-net web — Connect existing container
- docker run -p 3000:3000 myapp:1.0 — Publish port

Logs & Monitoring

- docker logs -f web — Followlogs
- docker stats — Live CPU/Mem/IO
- docker top web — Processes
- docker system df — Disk usage

Compose, Buildx & Cleanup — Dockerfile

Compose (v2)

- docker compose up-d — Start services
- docker compose down — Stop & remove
- docker compose build — Build services
- docker compose ps — List services
- docker compose logs -f — Follow logs

Buildx & Advanced

- docker build -t myapp:dev--build-argNODE_ENV=dev .
- docker build -f Dockerfile.prod -t myapp:prod .
- docker build --no-cache -t myapp:clean .
- docker buildx create --use
- docker buildx build --platform linux/amd64,linux/arm64 -t org/app:multi .

Cleanup & Tips

- docker system prune -f — Remove unused data
- docker image prune -a -f — Unused images
- docker container prune -f — Stopped containers
- docker volume prune -f — Unused volumes
- docker builder prune -f — Build cache (layers)