

Docker Cheatsheet

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Quick reference for Docker commands and concepts

Docker is a platform for building, shipping, and running applications in containers. This cheatsheet covers essential Docker commands for managing containers, images, volumes, networks, and Docker Compose. A handy quick reference for daily Docker workflows.

Container Lifecycle

Create, start, stop, and remove containers.

docker run image	Create and start a container
<code>docker run -d image</code>	Run container in background
<code>docker run -it image sh</code>	Run with interactive shell
<code>docker run --name myapp image</code>	Run with a custom name
<code>docker run -p 8080:80 image</code>	Map host port to container port
<code>docker run -v /host:/container image</code>	Mount a volume
<code>docker start container</code>	Start a stopped container
<code>docker stop container</code>	Gracefully stop a container
<code>docker restart container</code>	Restart a container
docker rm container	Remove a stopped container
<code>docker rm -f container</code>	Force remove a running container
<code>docker kill container</code>	Kill a container (SIGKILL)
<code>docker pause container</code>	Pause a running container
<code>docker unpause container</code>	Unpause a container

Container Inspection

Monitor and inspect running containers.

docker ps	List running containers
docker ps -a	List all containers
docker logs container	View container logs
docker logs -f container	Follow log output
docker inspect container	Detailed container info (JSON)
docker top container	List running processes
docker stats	Live resource usage for all containers
docker stats container	Live resource usage for one container
docker port container	Show port mappings
docker diff container	Show filesystem changes

Images

Pull, build, and manage Docker images.

docker pull image:tag	Pull image from registry
docker push image:tag	Push image to registry
docker build -t name .	Build image from Dockerfile
docker build -f Dockerfile.dev .	Build with custom Dockerfile
docker images	List local images
docker rmi image	Remove an image
docker tag source target:tag	Tag an image
docker save image > file.tar	Save image to tar archive
docker load < file.tar	Load image from tar archive
docker history image	Show image layer history

Dockerfile Instructions

Key instructions for writing Dockerfiles.

FROM image:tag	Base image
RUN command	Execute command during build
CMD ["executable"]	Default command at runtime
ENTRYPOINT ["executable"]	Fixed command at runtime
COPY src dest	Copy files from host
ADD src dest	Copy files (supports URLs, tar)
WORKDIR /path	Set working directory
EXPOSE 80	Document container port
ENV KEY=value	Set environment variable
ARG KEY=value	Build-time variable
VOLUME ["/data"]	Create mount point
USER username	Set runtime user

Volumes

Manage persistent data with volumes.

docker volume create vol	Create a named volume
docker volume ls	List volumes
docker volume inspect vol	Volume details
docker volume rm vol	Remove a volume
docker volume prune	Remove unused volumes
docker run -v vol:/data image	Mount named volume
docker run -v /host:/data image	Bind mount host directory
docker run --tmpfs /tmp image	Mount tmpfs (in-memory)

Networks

Create and manage container networks.

<code>docker network create net</code>	Create a network
<code>docker network ls</code>	List networks
<code>docker network inspect net</code>	Network details
<code>docker network rm net</code>	Remove a network
<code>docker network connect net container</code>	Connect container to network
<code>docker network disconnect net container</code>	Disconnect from network
<code>docker run --network net image</code>	Run container on network

Docker Compose

Manage multi-container apps with Docker Compose .

<code>docker compose up</code>	Create and start services
<code>docker compose up -d</code>	Start in background
<code>docker compose down</code>	Stop and remove services
<code>docker compose down -v</code>	Also remove volumes
<code>docker compose build</code>	Build service images
<code>docker compose ps</code>	List running services
<code>docker compose logs</code>	View service logs
<code>docker compose logs -f service</code>	Follow logs for a service
<code>docker compose exec service sh</code>	Shell into running service
<code>docker compose pull</code>	Pull service images
<code>docker compose restart</code>	Restart all services

System & Cleanup

Monitor disk usage and clean up resources.

<code>docker system df</code>	Show Docker disk usage
<code>docker system prune</code>	Remove unused data
<code>docker system prune -a</code>	Remove all unused data
<code>docker image prune</code>	Remove dangling images
<code>docker image prune -a</code>	Remove all unused images
<code>docker container prune</code>	Remove stopped containers
<code>docker volume prune</code>	Remove unused volumes
<code>docker network prune</code>	Remove unused networks

Exec & Copy

Run commands in containers and copy files.

<code>docker exec -it container sh</code>	Open shell in container
<code>docker exec container command</code>	Run command in container
<code>docker exec -u root container cmd</code>	Run as specific user
<code>docker cp container:/path ./local</code>	Copy from container
<code>docker cp ./local container:/path</code>	Copy to container
<code>docker attach container</code>	Attach to running container
<code>docker wait container</code>	Wait for container to stop

Registry & Login

Authenticate and interact with registries.

<code>docker login</code>	Log in to Docker Hub
<code>docker login registry.example.com</code>	Log in to private registry
<code>docker logout</code>	Log out from registry
<code>docker search term</code>	Search Docker Hub
<code>docker push user/image:tag</code>	Push image to registry
<code>docker pull user/image:tag</code>	Pull image from registry