

■ Docker Instructions / Docker Commands List

■ 1. Basic Docker Commands

<i>Command</i>	<i>Description</i>
docker --version	Check Docker version
docker info	Show system-wide Docker info
docker help	Show help for commands

■ 2. Working with Images

<i>Command</i>	<i>Description</i>
docker pull	Download image from Docker Hub
docker images	List all images
docker rmi	Remove an image
docker build -t .	Build image from Dockerfile
docker tag	Rename/tag an image
docker save -o file.tar	Save image as tar file
docker load -i file.tar	Load image from tar file

■ 3. Working with Containers

<i>Command</i>	<i>Description</i>
docker ps	List running containers
docker ps -a	List all containers
docker run	Run a container
docker run -it bash	Run container & enter shell
docker run -d	Run in background
docker stop	Stop a running container
docker start	Start a stopped container

docker restart	Restart a container
docker rm	Remove container
docker logs	View logs
docker exec -it bash	Execute command inside container
docker inspect	Show details of container

■ 4. Docker Networks

<i>Command</i>	<i>Description</i>
docker network ls	List networks
docker network create	Create network
docker network inspect	View network details
docker network rm	Remove network

■ 5. Docker Volumes

<i>Command</i>	<i>Description</i>
docker volume ls	List all volumes
docker volume create	Create a volume
docker volume inspect	Inspect volume
docker volume rm	Remove volume

■ 6. Docker Compose

<i>Command</i>	<i>Description</i>
docker compose up	Start all services
docker compose up -d	Start in background
docker compose down	Stop and remove containers
docker compose ps	List compose containers
docker compose logs	View logs
docker compose build	Build images
docker compose stop	Stop services

■ 7. Docker System Cleanup

<i>Command</i>	<i>Description</i>
docker system df	Show disk usage
docker system prune	Remove unused data
docker system prune -a	Remove ALL unused images & data
docker volume prune	Delete unused volumes

■ 8. Filtering & Useful Flags

<i>Command</i>	<i>Description</i>
docker ps -q	Show only container IDs
docker images -q	Show only image IDs
docker ps --filter status=exited	List only stopped containers
docker ps --filter "name=mongo"	Filter by container name

■ 9. Docker Copy Files

<i>Command</i>	<i>Description</i>
docker cp ./path .	Copy from container to host
docker cp file.txt ./path	Copy from host to container

■ 10. Dockerfile Instructions (very important)

<i>Instruction</i>	<i>Meaning</i>
FROM	Base image
RUN	Execute command in build stage
CMD	Default command when container runs
ENTRYPOINT	Main executable for container
COPY	Copy files to image
ADD	Copy files/URLs

WORKDIR	Set working directory
ENV	Set environment variables
EXPOSE	Mention port (documentation only)
VOLUME	Create mount point
USER	Specify user
ARG	Build-time variables
LABEL	Metadata