

# ■ Docker Instructions / Docker Commands List

## ■ 1. Basic Docker Commands

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

## ■ 2. Working with Images

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

## ■ 3. Working with Containers

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

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

## ■ 4. Docker Networks

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

## ■ 5. Docker Volumes

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

## ■ 6. Docker Compose

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

## ■ 7. Docker System Cleanup

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

## ■ 8. Filtering & Useful Flags

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

## ■ 9. Docker Copy Files

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

## ■ 10. Dockerfile Instructions (very important)

Instruction	Meaning
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