

# Docker Cheat Sheet

## Docker Commands:

Command	Description	Example
Docker --version	Check Docker version installed on your system.	docker --version
docker pull <image-name>	Download an image from Docker Hub.	docker pull nginx
docker images	List all available Docker images on your machine.	docker images
docker ps	List all running containers.	docker ps
docker ps -a	List all containers (running and stopped).	docker ps -a
docker run <image-name>	Run a Docker container.	docker run nginx
docker run -it <image-name> /bin/bash	Run a container in interactive mode.	docker run -it ubuntu /bin/bash
docker run -d <image-name>	Run a container in detached mode (in the background).	docker run -d nginx
docker stop <container-id>	Stop a running container.	docker stop 123abc
docker start <container-id>	Start a stopped container.	docker start 123abc
docker rm <container-id>	Remove a stopped container.	docker rm 123abc
docker rmi <image-id>	Remove an image from your system.	docker rmi abc123
docker exec -it <container-id> /bin/bash	Access a running container in interactive mode.	docker exec -it 123abc /bin/bash
docker logs <container-id>	Check logs of a running container.	docker logs 123abc
docker inspect <container-id>	View detailed information about a container.	docker inspect 123abc
docker build -t <image-name> .	Build an image from a Dockerfile.	docker build -t myapp .
docker commit <container-id> <new-image-name>	Create a new image from a container's state.	docker commit 123abc newimage
docker network ls	List all Docker networks.	docker network ls
docker volume ls	List all Docker volumes.	docker volume ls
docker system prune	Remove all unused containers, networks, images, and build cache.	docker system prune

## Docker Compose Commands:

Command	Description	Example
docker-compose --version	Check Docker Compose version installed.	docker-compose --version
docker-compose build	Build images for services defined in docker-compose.yml.	docker-compose build
docker-compose up	Start services defined in docker-compose.yml.	docker-compose up
docker-compose up -d	Start services in detached mode.	docker-compose up -d
docker-compose ps	List containers for the services defined in docker-compose.yml.	docker-compose ps
docker-compose stop	Stop all running services.	docker-compose stop
docker-compose restart	Restart the services.	docker-compose restart
docker-compose logs	View logs of running services.	docker-compose logs
docker-compose exec <service-name> <command>	Execute a command in a running service container.	docker-compose exec web /bin/bash
docker-compose down	Stop and remove containers, networks, and volumes created by docker-compose up.	docker-compose down
docker-compose down --volumes	Remove containers, networks, and volumes defined in the docker-compose.yml.	docker-compose down --volumes

## Network & Volume Management Commands:

Command	Description	Example
<code>docker network create &lt;network-name&gt;</code>	Create a custom network.	<code>docker network create mynet</code>
<code>docker network connect &lt;network-name&gt; &lt;container-id&gt;</code>	Connect a container to a network.	<code>docker network connect mynet 123abc</code>
<code>docker volume create &lt;volume-name&gt;</code>	Create a Docker volume.	<code>docker volume create myvol</code>
<code>docker volume rm &lt;volume-name&gt;</code>	Remove a Docker volume.	<code>docker volume rm myvol</code>