



Docker Basic Commands | DevOps Yatri

1. Image Commands

Command	Description	Example
docker pull <image>	Download an image from Docker Hub	docker pull nginx
docker images	List all downloaded images	docker images
docker image inspect <image>	View image details	docker image inspect nginx
docker tag <image> <new-name>	Tag image with a new name	docker tag nginx mynginx:v1
docker rmi <image>	Delete an image	docker rmi nginx
docker image prune	Remove unused images	docker image prune

2. Container Commands

Command	Description	Example
docker run <image>	Run a container from image	docker run nginx
docker run -d -p 8080:80 <image>	Detached mode, map port	docker run -d -p 8080:80 nginx
docker run --name <name> <image>	Name your container	docker run --name webserver nginx
docker exec -it <container> bash	Access shell inside container	docker exec -it webserver bash
docker ps	List running containers	docker ps
docker ps -a	List all containers	docker ps -a

Command	Description	Example
<container> docker logs -f	Show container logs	docker logs webserver
<container> docker stop	Follow live logs	docker logs -f webserver
<container> docker start	Stop running container	docker stop abc123
<container> docker restart	Start stopped container	docker start abc123
<container> docker rm	Restart container	docker restart webserver
<container>	Delete a container	docker rm abc123

3. Dockerfile & Image Building

Command	Description	Example
docker build -t <name> .	Build image from Dockerfile	docker build -t myapp .
docker build -f <path/to/Dockerfile> .	Use specific Dockerfile	docker build -f Dockerfile.dev .
docker history <image>	Show image layer history	docker history nginx

4. Volume Commands

Command	Description	Example
docker volume create <name>	Create new volume	docker volume create mydata
docker volume ls	List volumes	docker volume ls
docker volume inspect <volume>	Volume details	docker volume inspect mydata
docker run -v <volume>:/path <image>	Attach volume to container	docker run -v mydata:/app/data nginx
docker volume rm <volume>	Delete a volume	docker volume rm mydata
docker volume prune	Delete all unused volumes	docker volume prune

5. Network Commands



Command	Description	Example
docker network ls	List networks	docker network ls
docker network create <name>	Create network	docker network create mynetwork
docker network inspect <name>	Show network details	docker network inspect mynetwork
docker run --network <name> <image>	Attach container to network	docker run --network mynetwork nginx
docker network rm <name>	Remove custom network	docker network rm mynetwork
docker network prune	Remove unused networks	docker network prune

6. Clean-Up Commands

Command	Description	Example
docker system prune	Remove all unused containers, images, networks	docker system prune
docker container prune	Remove stopped containers	docker container prune
docker image prune -a	Remove all unused images	docker image prune -a
docker builder prune	Clean build cache	docker builder prune
docker system df	Show disk usage	docker system df

7. Troubleshooting Commands

Command	Description	Example
docker inspect <container>	Show container config/details	docker inspect webserver
docker events	View real-time Docker events	docker events
docker stats	Show real-time resource usage	docker stats
docker top <container>	See processes running in container	docker top webserver



Command	Description	Example
docker exec <container> env	Show environment variables	docker exec webserver env
docker-compose config	Validate docker-compose file	docker-compose config
docker info	View system-wide Docker info	docker info

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