



# 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 ports	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

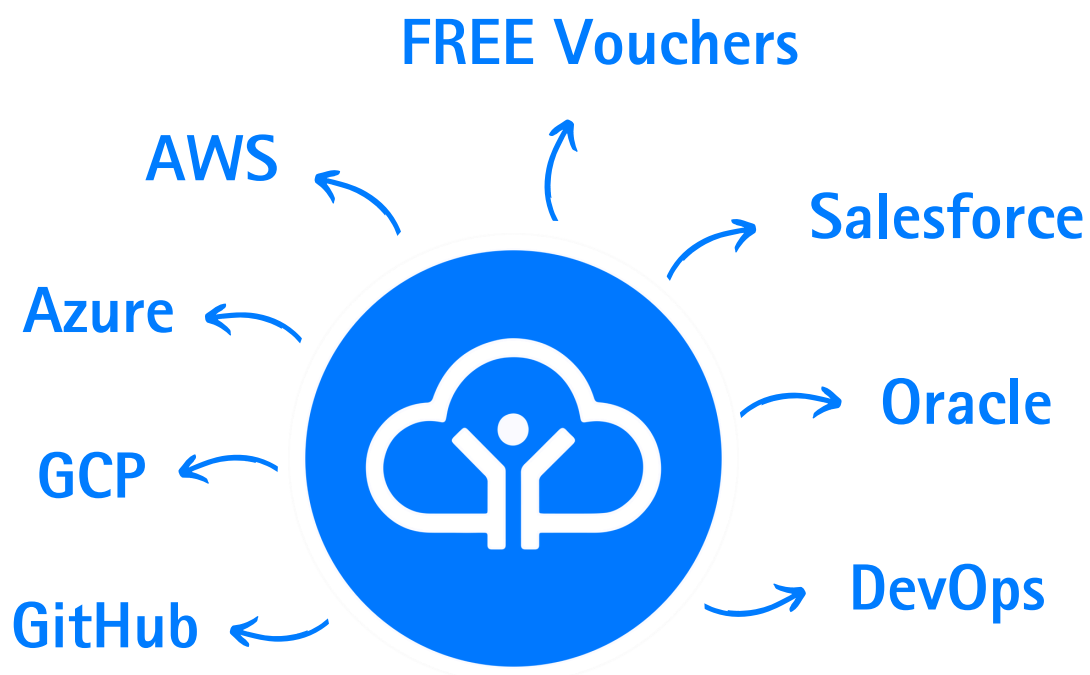
Command	Description	Example
docker system prune	Remove all unused containers, images, networks	docker system prune
docker container prune	Remove stopped containers	docker container prune
docker image prune -a	Remove all unused images	docker image prune -a
docker builder prune	Clean build cache	docker 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
<code>docker exec &lt;container&gt; env</code>	Show environment variables	<code>docker exec webserver env</code>
<code>docker-compose config</code>	Validate docker-compose file	<code>docker-compose config</code>
<code>docker info</code>	View system-wide Docker info	<code>docker info</code>

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