



Advanced Docker Commands | DevOps Yatri

1. Troubleshooting & Debugging Commands

Command	Description
<code>docker logs <container_id></code>	View logs from a running/stopped container
<code>docker inspect <container_id></code>	Show detailed low-level config of container or image
<code>docker events</code>	Real-time events from Docker daemon (useful for monitoring)
<code>docker top <container_id></code>	Show running processes inside a container
<code>docker stats</code>	Live CPU, memory, I/O stats for running containers
<code>docker exec -it <container_id> /bin/bash</code>	Open terminal inside running container
<code>docker attach <container_id></code>	Attach terminal to running container's output

2. Clean-Up & Prune Commands

Command	Description
<code>docker system prune</code>	Remove unused containers, networks, dangling images, and cache
<code>docker system prune -a</code>	Remove all unused images (not just dangling ones)
<code>docker container prune</code>	Remove only stopped containers
<code>docker image prune</code>	Remove dangling (unused) images
<code>docker volume prune</code>	Remove all unused volumes
<code>docker network prune</code>	Remove all unused networks




Note  These are **powerful cleanup tools** → use them carefully.

3. Bulk Deletion of All Containers, Images, Volumes

Task	Command
Remove all containers (stopped & running)	<code>docker rm -f \$(docker ps -aq)</code>
Remove all images	<code>docker rmi -f \$(docker images -q)</code>
Remove all volumes	<code>docker volume rm \$(docker volume ls -q)</code>
Remove all networks	<code>docker network rm \$(docker network ls -q)</code>

4. Container Lifecycle Management

Command	Description
<code>docker rename <old_name> <new_name></code>	Rename a container
<code>docker update <container_id></code>	Change resource limits  CPU, memory)
<code>docker pause <container_id></code>	Pause all processes in a container
<code>docker unpause <container_id></code>	Resume a paused container
<code>docker cp <container_id>:/file ./</code>	Copy file from container to host
<code>docker cp ./file <container_id>:/path</code>	Copy file from host to container

5. Image Management (Advanced)

Command	Description
<code>docker tag <image> <repo>:<tag></code>	Tag an image for pushing
<code>docker push <repo>:<tag></code>	Push image to Docker Registry
<code>docker save -o myimage.tar <image></code>	Save image to tar file
<code>docker load -i myimage.tar</code>	Load image from tar file
<code>docker history <image></code>	Show image layer history
<code>docker diff <container_id></code>	Show what has changed inside a container's filesystem



6. Build & Caching

Command	Description
<code>docker build --no-cache -t <image> .</code>	Build image without using cache
<code>docker build --target <stage> -t <image> .</code>	Build specific stage in multi-stage builds

7. Docker Compose Advanced Commands

Command	Description
<code>docker-compose up -d</code>	Start all services in background
<code>docker-compose down</code>	Stop and remove containers, networks, volumes
<code>docker-compose logs -f</code>	View live logs of all services
<code>docker-compose exec <service> bash</code>	Access a running container
<code>docker-compose config</code>	Validate and view expanded YAML config

8. Docker Login & Registry

Command	Description
<code>docker login</code>	Login to Docker Hub or private registry
<code>docker logout</code>	Logout from registry
<code>docker tag <image> username/image:tag</code>	Tag local image for registry
<code>docker push username/image:tag</code>	Push to Docker Hub or other registry
<code>docker pull image:tag</code>	Pull image from registry

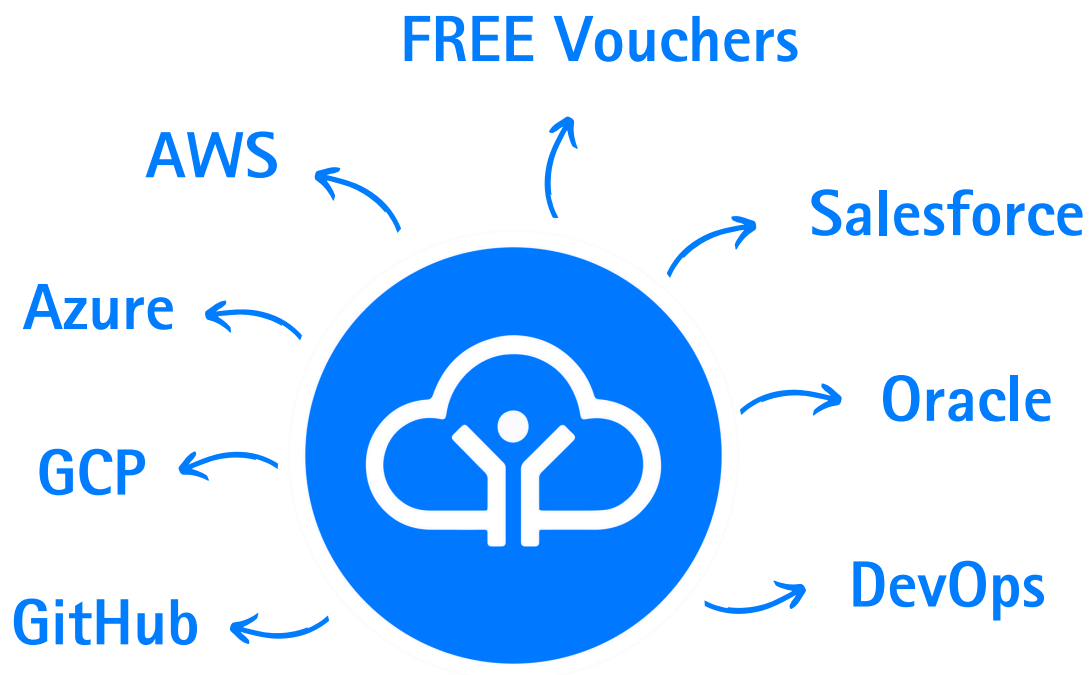
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