



# Advanced Docker Commands | DevOps Yatri

## 1. Troubleshooting & Debugging Commands

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

## 2. Clean-Up & Prune Commands

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



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

### 3. Bulk Deletion of All Containers, Images, Volumes

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

### 4. Container Lifecycle Management

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

### 5. Image Management (Advanced)

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



## 6. Build & Caching

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

## 7. Docker Compose Advanced Commands

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

## 8. Docker Login & Registry

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

**YouTube Channel:** <https://www.youtube.com/@yatricloud>

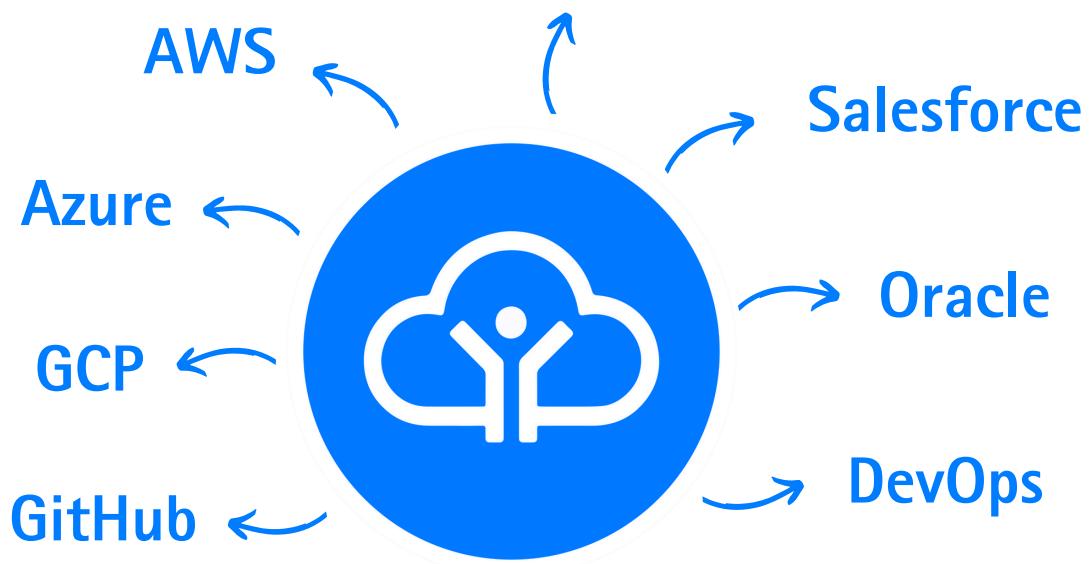


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