

Basic Docker Commands

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|---------------------------------------|--|
| <code>docker search searchterm</code> | Search Docker Hub for images |
| <code>docker pull user/image</code> | Downloads an image from Docker Hub |
| <code>docker login</code> | Authenticate to Docker Hub (or other Docker registry) |
| <code>docker push user/image</code> | Uploads an image to Docker Hub. <i>You must be authenticated to run this command</i> |
| <code>docker info</code> | Retrieves docker configuration |
| <code>docker version</code> | Retrieves docker versioning |

Image and Container Information

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|--|--|
| <code>docker ps</code> | List all running containers |
| <code>docker ps -a</code> | List all container instances, with their ID and status |
| <code>docker images</code> | Lists all images on the local machine |
| <code>docker history <user>/<image></code> | Lists the history of an image |
| <code>docker logs <container></code> | Displays the logs from a running container |
| <code>docker port <container></code> | Displays the exposed port of a running container |
| <code>docker diff <container></code> | Lists the changes made to a container |
| <code>docker logs [-f] <container></code> | Read container stdout |
| <code>docker top <container></code> | Show running processes |
| <code>docker inspect <container></code> | Show container configuration |
| <code>docker events</code> | Show container events |

<container> can be replaced with container **name** or **ID**

Network Commands

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|---|---|
| <code>docker network ls</code> | List networks |
| <code>docker network inspect <Network></code> | Inspect a network |
| <code>docker network create <Network></code> | Create a network |
| <code>docker network rm <Network></code> | Removes a network |
| <code>docker network connect <Network> <Container></code> | Connect a container to the network |
| <code>docker network connect --ip <IP> <Network> <Container></code> | Specify the IP address of container interface |
| <code>docker network disconnect <Network_ k_Name> <Container></code> | Disconnect container from network |

<Network> can be replaced with the network **ID** or **NAME**

Work With Images and Containers

| | |
|---|--|
| <code>docker run -it user/image</code> | Runs an image, creating a container and changing the terminal to the terminal within the container |
| <code>docker run -p <hostport>:<containerport> -d user/image</code> | Run an image in detached mode with port forwarding |
| <code>docker start <container></code> | Start a container |
| <code>docker exec <container> [shell command]</code> | Executes a command within a running container, e.g. /bin/bash |
| <code>docker attach <container></code> | Changes the command prompt from the host to a running container |
| <code>docker stop <container></code> | Stop a container |
| <code>docker rm -f <container></code> | Delete a container |
| <code>docker create <image>: <tag></code> | Create image |
| <code>docker rmi <image></code> | Delete an image |
| <code>docker tag <user>/<image>:<tag> <user>/<image>:<new tag></code> | Add a new tag to an image |
| <code>ctrl+p then ctrl+q</code> | Changes the command prompt from the host to a running container |

<container> can be replaced with container **name** or **ID**



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 Page 1 of 2.

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Misc. Examples

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|--|---|
| <code>sudo docker commit <i>containerID</i> username/imagename</code> | Commit from container to an image |
| <code>docker push username/imagename</code> | Docker push example (after logging) |
| <code>docker run -it -v /host/directory:/container/directory [options] <i>image</i> [command]</code> | Mount a host directory in a Docker container |
| <code>docker cp /host/directory/file.ext <i>container</i>:/container/directory</code> | Copy file from host machine to docker container |
| <code>docker rmi \$(docker images -a -q)</code> | Delete all Docker images |
| <code>docker rm \$(sudo docker ps -a -q)</code> | Delete all stopped containers |
| <code>docker rm \$(sudo docker ps -a grep Exit cut -d ' ' -f 1)</code> | Delete all containers in Exit state |
| <code>docker save <i>imagename</i> > <i>filename.tar</i></code> | Export image to a file |
| <code>docker load < <i>filename.tar</i></code> | Load image from file |
| <code>docker [command] --help</code> | Command help |

Options Keywords

| | |
|----------------------------|--------------------------------|
| <code>-p, --publish</code> | Host to container port mapping |
| <code>--publish-all</code> | Publish all ports |
| <code>-d, --detach</code> | Run in background |
| <code>-e, --env</code> | Set env vars |
| <code>-v, --volume</code> | Mount files or directories |

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