

## DOCKER

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### What is Docker?

- Docker is an open platform for developing, shipping, and running applications.
- Docker enables you to separate your applications from your infrastructure so you can deliver software quickly.
- With Docker, you can manage your infrastructure in the same ways you manage your applications.
- By taking advantage of Docker's methodologies for shipping, testing, and deploying code quickly, you can significantly reduce the delay between writing code and running it in production.

COMMANDS that we use in Docker are:

- a) **docker build [OPTIONS] PATH | URL |** : The docker build command builds Docker images from a Dockerfile and a "context"
- b) **docker run [OPTIONS] IMAGE [COMMAND] [ARG...]** : Create and run a new container from an image
- c) **docker ps** : List running containers
- d) **docker exec -it <container name> /bin/sh** : SSH into container
- e) **docker start**: starts one or more stopped containers.
- f) **Docker stop <container\_ID>** : stop the running container.
- g) **docker restart <container name>** : Restart a container
- h) **docker stats** : Show running container stats
- i) **docker system df** : Check docker daemon disk space usage
- j) **docker system prune -af** : Remove images, networks, containers, and volumes
- k) **Docker images/ Container**: The docker images and container commands grant access to the images and containers.
- l) **Docker rm <Container id>** : to remove container.
- m) **Docker logs <container id>** : shows information logged by a running container.
- n) **docker attach [OPTIONS] CONTAINER** : Attach local standard input, output, and error streams to a running container
- o) **docker commit [OPTIONS] CONTAINER [REPOSITORY[:TAG]]** : Create a new image from a container's changes
- p) **docker rename CONTAINER NEW\_NAME**: Rename a container.

- q) **docker unpause CONTAINER [CONTAINER...]** : Unpause all processes within one or more containers
- r) **docker version [OPTIONS]** : Show the Docker version information
- s) **docker volume create [OPTIONS] [VOLUME]** : Creates a new volume that containers can consume and store data in. If a name is not specified, Docker generates a random name.
- t) **docker push [OPTIONS] NAME[:TAG]** : Use docker image push to share your images to the Docker Hub registry or to a self-hosted one.

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