* **Docker Image commands**
* docker search <image\_name:tag>

// search for images in terminal

* docker pull <image\_name:tag>

// pull images to local machine from docker hub

* docker image ls (or) docker images

// list all downloaded docker images in local system

* docker image inspect <image\_name:tag>

// display detailed information on one or more images

* docker image history <image\_name:tag>

// show the history of an image

* docker image prune

// remove all unused images from local machine

* docker push <image\_name:tag>

// push images to docker hub/registry

* docker image rm <image\_name:tag> (or) docker rmi

<image\_name:tag>

// do delete one or multiple docker images

* **Docker container commands**
* docker ps

// list all running container

* docker ps -a

// list all containers info (running + stopped)

* docker ps -l

// last effected container details

* docker stop <container\_name/id> (or) docker kill

<container\_name/id>

// stop running container

* docker rename <container\_name> <new\_name>

// change name of running container

* docker rm <container\_name/id>

// delete container from local machine

* docker inspect <container\_name/id>

// to see detailed info about a container

* docker cp /source/path

<container\_name/id>:/destination/path

// copy files from local host to container

* docker container prune

//Remove all stopped containers

* **Running Containers**

Syntax: docker run [OPTIONS] <image\_name:tag>

* -it

// launch container with interactive mode

// docker run -itd centos

* -d

// launch containers with detach mode (run in background)

// docker run -d tomcat

* -itd

// launch containers with detach mode

// docker run -itd centos

* --name

// provide name to container when you are launching it

// docker run -itd --name <container\_name>

<image\_name:tag>

* -v

// used to attach volumes

* --volumes-from

// for creating and attaching reusables volumes

* --network

// use for attaching a network to a container

* -p

// use for port mapping (if you want to go with a specific port for port mapping)

//docker run -d -p <defalut\_port\_of \_app/tool>:<your\_port>

<image\_name/id:tag>

// docker run -d -p 8080:80 tomcat

* -P

// Used for port mapping (docker daemon will pick a free port for port mapping, generally docker daemon will pick from 32768 range)

// docker run -d -P tomcat

* -e

// Used for specifying the environment variables of a container

* --cpu

// used to specify the processors that the container should use

* **To enter into a container environment which is running in background**
* docker exec -it <container\_name/id> bash

// docker exec -it container1 bash

* **Docker Networking**
* docker network ls

// list all available docker networks

* docker network inspect <network\_name/id>

// shows detailed info about a docker network

* docker network create <network\_name>

// to create docker network with default values

* docker network create --driver <driver\_name>

<network\_name>

// to create docker network with specific driver

* docker network create --driver <driver\_name> --subnet

<subnet\_range> <network\_name>

* // to create docker network with specific driver and subnet range
* docker network connect <network\_name/network\_id>

<container\_name/id>

// to connect container to specific docker network

* docker network connect <network\_name/network\_id> --ip

<ipadd> <container\_name/id>

// to connect container to specific docker network with specific ip

* docker network rm <network\_name/network\_id>

// to delete one or multiple docker networks

* docker network prune

// to delete all unused all docker networks

* docker network disconnect <network\_name/network\_id>

<container\_name/id>

// disconnect container from docker network

* **Docker Volumes**
* docker volume ls

// to list available docker volumes in local machine

* docker volume inspect <volume\_name/id>

// shows detailed info about a docker volume

* docker volume create <volume\_name>

// to create docker volume

* docker volume rm <volume\_name/id>

// to remove one or multiple docker volumes

* docker volume prune

// to delete all unused docker volumes

* -v

// create a docker volume and attach a docker volume to container

// docker run -itd -v /data centos

* --mount

// to attach a docker local volume( which is already created ) to container

// docker run -itd --mount “source=<docker\_local\_volume\_name/path>,destination

<destination\_dir/path/in/container>” <image\_name/id:tag>