**Docker**

**Running docker as a super user**

**sudo usermod -a -G docker $USER**

**Pull Images**

Pulls images from the docker hub

**docker pull <image name>:<tag>** -- docker pull the image from docker hub

**docker pull –all-tags <package name>** -- Pulls all images with the same name. ex ubuntu

**Build Images**

**Docker Build** – Build an image for the Dockerfile present in the directory

**docker build -t <image\_name>:<tag> .** -- If Dockerfile present in current directory

**docker build -f <dockerfile name> .** -- to build Dockerfile with different name

**docker build <github url without https://>** -- Pulls and build image from remote repo

dockerfile must be present as root

**List Images**

**docker images –all** -- list all docker images present

**docker images -a** -- docker images present, same as above

**docker images <image name>:<tag>** -- list all images with given image name

**List Containers**

**docker ps** -- lists only running containers

**docker ps -a** -- list all running and stopped

**docker ps -a -q** -- list all numeric ids

**Run Images / Containers**

**docker run <image name from local or hub>** -- run a new container with image name

**docker run -it <image name from local or hub>** -- run a new container with interactive mode

if image available locally creates and run a new one. Else pulls from docker hub.

**docker run -it <image id>** -- run a new container with local available image id.

**docker start <container id>** -- starts an already existing container

**Stop Containers**

**docker kill <container id>** -- stops a running container

**docker stop <container id>** -- stops a running container

**Execute in a running container**

**docker exec -it <container\_id> /bin/bash** -- runs a bash shell in the running container

**docker exec -it <container\_id> <command>** -- executes the command inside container

**docker exec -d <container\_id> <command>** -- executes the command in background

**Remove/Delete**

**docker rmi $(docker images -a -q)** -- removes all currently present images

**docker rmi -f $(docker images -a -q)** -- removes if some images needs to be forced.

**docker stop $(docker ps -a -q)** -- Stop all running containers

**docker rm $(docker ps -a -q)** -- remove all running containers

**Create Image of running container**

**docker commit <container id> <new image name:tag>** -- suppose you have made some changes to the running container, you want a image of the container.

Link to docker registry

<https://docs.docker.com/engine/reference/commandline/login/>

Copying file from local system to container

<https://docs.docker.com/engine/reference/commandline/cp/>

**Linux**

Delete Files and Directories

**rm -r <directory name>** -- Delete a directory with all its contents

**rm -rf <directory name>** -- Delete directory with files inside and protected.