Docker commands

yum install docker -y To install docker

service docker status To know docker status

service docker start To start a docker service

docker images To know how many images are there in system

docker ps how many docker containers are running

docker ps -a how many docker containers you are having-all

docker --help to get more info and commands related to docker

docker pull tomcat To Pull docker image from docker hub

docker run -d --name tomcat-container -p 8081:8080 tomcat:latest

(-d refers detached mode, --name to mention what to name for container, -p refers to give port number. external:internal, image name:tag as tomcat:latest or can give image id

docker run makes images to convert as containers or create new container.

chk config to start the docker server in boot time or start server manually by using (start docker.service) command

docker exec -it tomcat-container /bin/bash Login to docker container or get inside.

docker stop tomcat-container To stop a container

docker build -t mytomcat.

To build image from docker file and -t refers to give a tag or name of the image then followed by .(dot refers that docker file is in current location or if not specify path of docker file)

docker container prune (to delete all stopped containers)

docker image prune -a (to delete all images)

docker run -itd_Image id (it creates the container as well runs it)

docker ps -aq (only gets containers ID)

docker run -it_image name (created a container and inside of container)

docker rm container id to remove container or delete

docker rm (container id) -f to remove container forcefully with out stopping

docker rmi (image id)

to remove unused images in container

docker run -p 8080:8080 -it --rm image name

Port mapping the address

docker run -p 8080:8080 --rm image name

docker run -d -t --name "myubuntu" ubuntu /bin/bash

docker container Is to get list of container

docker image Is to get list of images

Create a repository in docker hub website first, if u want to push an image to docker hub

docker login To login in docker hub in linux server enter username and password

docker commit container id repository name/image-new-name:tag

convert from container to image

docker push_repository name/image-name:tag (to push docker images to hub give account name)

Docker File

FROM: for a base image the command must be on top of the docker

RUN: To execute Command, it will create a layer in the image.

MAINTAINER: Author/owner/description

COPY: Copy files from the local system (docker VM) we need to provide a source, destination(We cant download file from the internet and any remote directory)

ADD: Similar to copy but, it provides a feature to download files from the internet, also we extract files at the docker image side.

EXPOSE: To Expose ports such as port 8080 for tomcat, port 80 for Nginx, etc.

WORKDIR: To set a working directory for a container.

CMD: Execute commands but during container creation

ENTRYPOINT: Similar to CMD, but has higher priority over CMD, first commands will be executed by ENTRYPOINT only.

ENV: Environment Variables