Docker Preparation

Image Download

Official: docker image pull <repository>:<tag>
Unofficial: docker image pull username <repository>:<tag>

Image Listing

docker image ls
docker images

Running Container from Image

docker run -it <repository>:<tag> sh
docker exec -it <container-name> sh

Stopping container

docker container stop < container name >
docker container stop < container id >

Starting a Stop Container

docker container start < container name >
docker container start < container id >

Image Removing

docker image rm <image-name>:<tag>

Publishing Port

docker container run -d -p 3000:80 <repository>:<tag>

Custom Name of Container

docker container run -d --name=cont1 -p 3000:80 <repository>:<tag>

Container Listing

Both Command working same to same

docker container ls	**show only running state**	docker ps
docker container ls -a	**show all type of state**	docker ps -a

Removing a Container

docker container rm < container name >
docker container rm < container id >

Container Running in background Mode

docker container run -d <repository>:<tag>

Docker Image Build

using tag if you want
docker image build -t <repository>:<tag> .

Otherwise it will using default (latest tag)
docker image build -t <repository> .

Pushing Images on Docker HUB

There are two option to push image to ***Docker Hub***

First of all you build an image using your docker id name
ahsansabir / <image_name> : <tag>

And the second option is using tag command
docker tag image name ahsansabir / image_name : <tag>

After using this option using this command to push a image

docker push <username/imagename:tagname>

For Example :
docker push ahsansabir/image:latest

Bind Mount Practical :

docker container run -it –name=cont1
-v /home/username/Mount
Folder:/container_Folder <image>:<tag> sh

After -v the path goes to where you want to save files of this particular container And **after semicolon** the path is inside the container using folder name then

image name and container with **sh** create a new files in the Mount Folder and exit Container

Now delete a Container And create a new Container with Mount folder Using the Following Command

docker run -it --name=cont1 -v /home /username /Mounted Folder : / new container Folder <image> : <tag> sh

Your old files automatically inside a new container you create

Docker Permission Denied

sudo chmod 666 /var/run/docker.sock

To Inquire About Images

docker history <image name>:<tag>
docker inspect <image name>:<tag>