1. Create a docker hub account : <https://hub.docker.com/>
2. Create Repository
3. Search “ubuntu” Repositories. : you will see the official images of it. You can search many such image contributions and use them.
4. After docker installatiom if you get an error when checking : docker ps -a

*ubuntu@ip-172-31-93-236:~$ docker ps -a*

*Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.38/containers/json?all=1: dial unix /var/run/docker.sock: connect: permission denied*

*sudo groupadd docker*

*sudo usermod -aG docker $USER*

*exit and login back, you will no get the error*

1. Execute : docker run hello-world
2. Check the docker process again (docker ps -a)
3. Let use the official ubuntu image and install it

*ubuntu@ip-172-31-93-236:~$ docker run ubuntu*

*Unable to find image 'ubuntu:latest' locally*

*latest: Pulling from library/ubuntu*

*c64513b74145: Pull complete*

*01b8b12bad90: Pull complete*

*c5d85cf7a05f: Pull complete*

*b6b268720157: Pull complete*

*e12192999ff1: Pull complete*

*Digest: sha256:3f119dc0737f57f704ebecac8a6d8477b0f6ca1ca0332c7ee1395ed2c6a82be7*

*Status: Downloaded newer image for ubuntu:latest*

1. docker run -it -d ubuntu
2. docker exec -it fddaccb42329 bash ( and change the image by creating a mkdir)
3. docker ps – a and take the container and commit it to docker hub : docker commit fddaccb42329 deepak2717/modified-ubuntu
4. docker run -it -d deepak2717/modified-ubuntu bash
5. docker exec -it 188ff5d86972 bash (now the committed container contains the changes that we have made)
6. docker login --username=deepak2717 (To push we need to login to dockerhub)
7. sudo docker push deepak2717/modified-ubuntu ( Sometime we need to tag : sudo docker tag ethans/modified-ubuntu:latest deepak2717/modified-ubuntu:firstimagepush)
8. Now lets remove all the containers and images

*docker rm <container\_id>*

*if a container is running, then stop it before removing*

*docker stop <container id>*

*docker rmi <image id>*

*sometimes due to tagging we have the same image id, that is a problem in docker. To remove such duplicate image id’s*

*docker images | grep 7138e64720bb | awk '{print $1 ":" $2}' | xargs docker rmi*

1. Now we can pull the commited container, which is an image.

*docker run -it -d deepak2717/modified-ubuntu:<tag-name optional>*

*Unable to find image 'deepak2717/modified-ubuntu:firstimagepush' locally*

*firstimagepush: Pulling from deepak2717/modified-ubuntu*

*c64513b74145: Pull complete*

*01b8b12bad90: Pull complete*

*c5d85cf7a05f: Pull complete*

*b6b268720157: Pull complete*

*e12192999ff1: Pull complete*

*18856fc6ca67: Pull complete*

*Digest: sha256:3ae6f0c457846ec3f14483deddc143036d63fcab9faad9c2c6163058f22db91d*

*Status: Downloaded newer image for deepak2717/modified-ubuntu:firstimagepush*

*d107b636a5a0999170880fd1f0ec0c88e1f082466571c20311ba2578a717bf3b*

1. Docker ps -a
2. docker exec -it <container id> bash
3. Now we can check that it is the image we created, by checking the ls command and verifying the same directory we created