Docker in ubuntu 16.04:

**1.Connecting to the ubuntu instance:**

DigientMacs-MacBook-Air-3:Downloads digientmaclap24$ chmod 400 ubuntunewone.pem

DigientMacs-MacBook-Air-3:Downloads digientmaclap24$ ssh -i "ubuntunewone.pem" ubuntu@ec2-13-59-72-18.us-east-2.compute.amazonaws.com

**ubuntu@ip-172-31-24-86**:**~**$ sudo su

root@ip-172-31-24-86:/home/ubuntu# sudo apt-get update

Do you want to continue? [Y/n] Y

**2.Facilitating file transfer via https:**

root@ip-172-31-24-86:/home/ubuntu# curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -

**3.updating the system**:

root@ip-172-31-24-86:/home/ubuntu# sudo apt-get update

**4.Verifying the key:**

root@ip-172-31-24-86:/home/ubuntu# sudo apt-key fingerprint 0EBFCD88

pub 4096R/0EBFCD88 2017-02-22

Key fingerprint = 9DC8 5822 9FC7 DD38 854A E2D8 8D81 803C 0EBF CD88

uid Docker Release (CE deb) <docker@docker.com>

sub 4096R/F273FCD8 2017-02-22

**5.Updating the docker file in the repo:**

root@ip-172-31-24-86:/home/ubuntu# sudo add-apt-repository \

> "deb [arch=amd64] https://download.docker.com/linux/ubuntu \

> $(lsb\_release -cs) \

> stable"

root@ip-172-31-24-86:/home/ubuntu# sudo apt-get update

**6.Installing Docker:**

root@ip-172-31-24-86:/home/ubuntu# sudo apt-get install docker-ce

**7.Running a sample hello world image in docker**

root@ip-172-31-24-86:/home/ubuntu# sudo docker run hello-world

Hello from Docker!

This message shows that your installation appears to be working correctly.

root@ip-172-31-24-86:/home/ubuntu#

**8.This command searches for the image locally or searches in dockerhub and pulls it to the OS:**

root@ip-172-31-24-86:/home/ubuntu# docker pull mysql

Using default tag: latest

latest: Pulling from library/mysql

Digest: sha256:e42cbb3afa80aa210aa1245b930619c12641a8de57a486e6f1b11858307bd378

Status: Image is up to date for mysql:latest

**9.Shows the images:**

root@ip-172-31-24-86:/home/ubuntu# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

centos latest 5182e96772bf 7 days ago 200MB

mysql latest 7bbe2074ef0a 10 days ago 484MB

hello-world latest 2cb0d9787c4d 4 weeks ago 1.85kB

**10.Running the mysql image and running the command bin/bash:.**

root@ip-172-31-24-86:/home/ubuntu# docker run -it mysql /bin/bash

root@1cd5723fb489:/# exit

exit

root@ip-172-31-24-86:/home/ubuntu# docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

1cd5723fb489 mysql "docker-entrypoint.s…" 13 seconds ago Exited (0) 4 seconds ago trusting\_hawking

7963c6eb9916 centos "/bin/bash" 20 minutes ago Exited (0) About a minute ago kind\_curie

e9271493e8e0 hello-world "/hello" About an hour ago Exited (0) About an hour ago goofy\_thompson

**11. Deleted the mysql container.:**

Docker rm <the container id>

After that installed mysql in centos image:

[root@7963c6eb9916 /]# mysqld --version

mysqld Ver 5.7.23 for Linux on x86\_64 (MySQL Community Server (GPL))

**12 deleting a downloaded image:**

root@ip-172-31-24-86:/home/ubuntu# docker rmi c82521676580