create instance on AWS with ubuntu 20.01 OS

once the instance started connect it with the help of MobaXterm

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Docker installation on Ubuntu OS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

> sudo apt-get update

> sudo apt-get install ca-certificates curl gnupg lsb-release

>curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg

> echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu $(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

\*\*\*\*\* Install Docker Engine \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

> sudo apt-get update

> sudo apt-get install docker-ce docker-ce-cli containerd.io

\*\*\*\*\*\*\*\*\* let's check docker installed or not \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

> sudo docker -v or sudo docker --version

> sudo docker info

there is a docker hub which is a repository for docker image

from there we can pull the images and use the same

ex. let pull my sql image

> sudo docker pull mysql

> sudo docker images

\*\*\* structure of docker conatiner \*\*\*\*\*\*\*

> sudo ls (to check no of files available in folder)

\*\*\*\*\*\*\*\* let's create our code image \*\*\*\*\*\*\*\*\*\*\*\*\*

clone repository

>git clone https://github.com/sonam-niit/docker\_master.git

>cd docker\_master

>sudo ls (check list of files)

>sudo docker build -t myimage . (to build the image based on docker file available in the root)

>sudo docker images (check the available images)

>sudo docker run -d --name myconatainer -p 80:80 myimage (run image on conatainer named myconatainer)

>sudo docker ps -a (check the running containers)

>curl localhost:80 (check html code which is running on port 80)

also you can see the running php file

your instance ip : 80 (<http://3.83.213.128:80>)

create account on https://hub.docker.com/

once the account create go to your mobaxterm

execute >docker login

enter username and password (password not visible just enter, it will take it)

if getting error of permission denied then execute below command

> sudo chmod 666 /var/run/docker.sock

next create tag for push image on hub

(docker tag imageWhichYouPush <username>/anyNamewhichyouWanttoGiveForRepoImage)

>docker tag myimage sonamsoni/firstimage

execute below command to push image

>docker push sonamsoni/firstimage

Install ELK:

>sudo docker run -p 5601:5601 -p 9200:9200 -p 5044:5044 -it --name elk sebp/elk

Monitor the output on browser