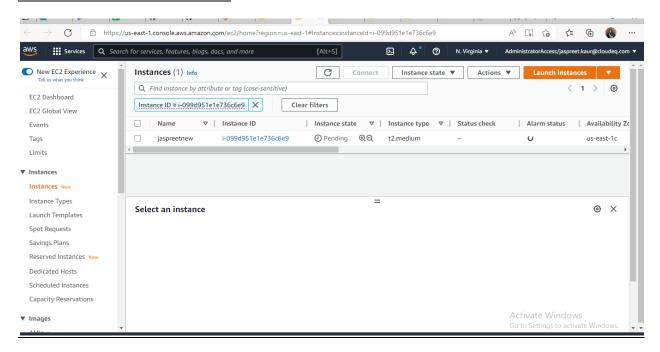
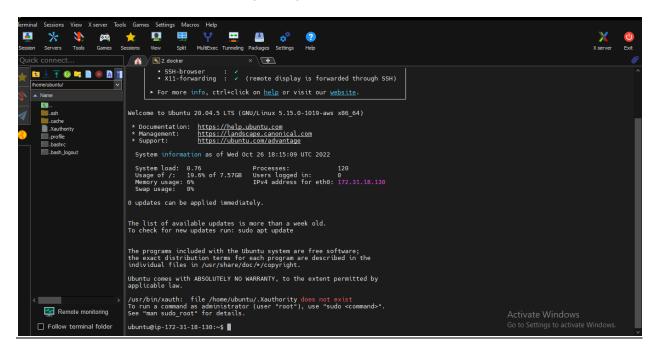
Docker-DAY3

Executing commands in mobaxterm

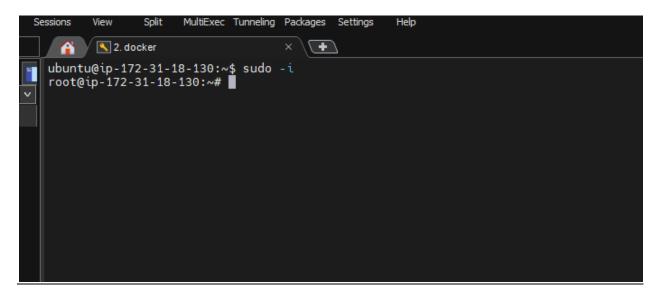
1. First we will create a EC2 instance



2. Next we will create a session use our public ip address



3. We will write "\$ sudo -I" to make our docker route user



4. Next we will adduser by writing "add user docker" and create a docker folder

```
Terminal Sessions View X server Tools Games Settings Macros Help

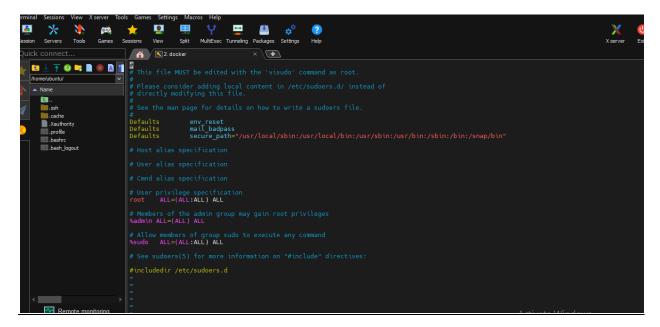
Session Servers Tools Games Sessions Wew Split Multibuter Turneling Padages Settings Help

Washington Sessions Wew Split Multibuter Turneling Padages Settings Help

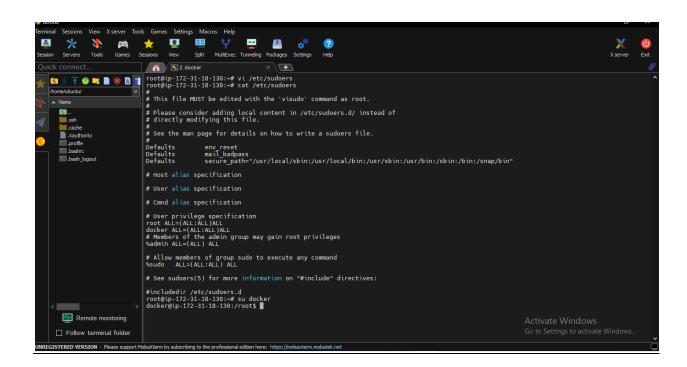
X server Est

Value Concentration of the Concentrat
```

5. We will give our root permissions by "vi /etc/sudoers"



6. Then for checking our permissions assigned by "cat /etc/sudoers



7. Command used fo uninstall old versions" sudo apt-get remove docker docker-engine docker.io containerd runc"

```
docker@ip-172-31-18-130:/root$ sudo apt-get remove docker docker-engine docker.io containerd runc [sudo] password for docker:
Reading package lists ... Done
Building dependency tree
Reading state information ... Done
E: Unable to locate package docker-engine docker@ip-172-31-18-130:/root$
```

8. This command "sudo apt-get update Used for Updating the apt package index

```
docker@ip-172-31-18-130:/root$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Reading package lists ... Done
docker@ip-172-31-18-130:/root$
```

This command is used for install packages to allow apt to use a repository over HTTPS

```
> gnupg \
> lsb-release
Reading package lists ... Done
Building dependency tree
Reading state information... Done
lsb-release is already the newest version (11.1.0ubuntu2).
lsb-release set to manually installed.
ca-certificates is already the newest version (20211016~20.04.1).
ca-certificates set to manually installed.
gnupg is already the newest version (2.2.19-3ubuntu2.2).
gnupg set to manually installed.
The following additional packages will be installed:
   libcurl4
The following packages will be upgraded:
  curl libcurl4
2 upgraded, 0 newly installed, 0 to remove and 52 not upgraded.
Need to get 396 kB of archives.
After this operation, 2048 B of additional disk space will be used.
Do you want to continue? [Y/n] y

Get:1 http://security.ubuntu.com/ubuntu focal-security/main amd64 curl amd64 7.68.0-1ubuntu2
Get:2 http://security.ubuntu.com/ubuntu focal-security/main amd64 libcurl4 amd64 7.68.0-1ubu
Fetched 396 kB in 0s (2001 kB/s)
(Reading database ... 61718 files and directories currently installed.)
Preparing to unpack .../curl_7.68.0-1ubuntu2.14_amd64.deb ...
Unpacking curl (7.68.0-1ubuntu2.14) over (7.68.0-1ubuntu2.13) ...
Preparing to unpack .../libcurl4_7.68.0-1ubuntu2.14_amd64.deb ...
Unpacking libcurl4:amd64 (7.68.0-1ubuntu2.14) over (7.68.0-1ubuntu2.13) ...
Setting up libcurl4:amd64 (7.68.0-1ubuntu2.14) ...
Setting up curl (7.68.0-1ubuntu2.14) ...
Processing triggers for man-db (2.9.1-1)
SProcessing triggers for libc-bin (2.31-0ubuntu9.9) ...
```

This command is used for Adding Docker's official GPG key:

```
docker@ip-172-31-18-130:/root$ sudo mkdir -p /etc/apt/keyrings
docker@ip-172-31-18-130:/root$ ■
```

This command is used to set up the repository:

```
docker@ip-172-31-18-130:/root$ sudo mkdir -p /etc/apt/keyrings
docker@ip-172-31-18-130:/root$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.g
pg
docker@ip-172-31-18-130:/root$
```

For Updating the apt package index:

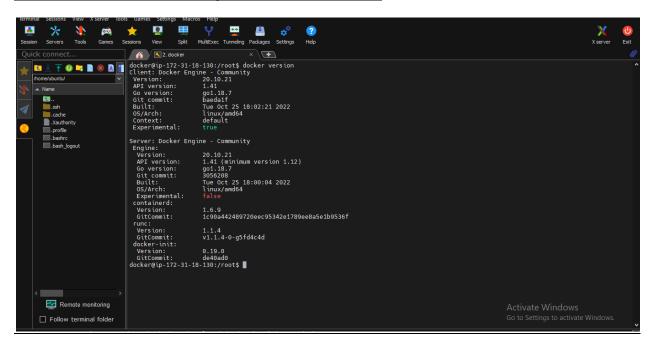
```
docker@ip-172-31-18-130:/root$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:4 https://download.docker.com/linux/ubuntu focal InRelease
First: http://security.ubuntu.com/ubuntu focal-security InRelease
Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [20.8 kB]
Fetched 78.5 kB in 0s (178 kB/s)
Reading package lists ... Done
docker@ip-172-31-18-130:/root$
```

```
docker@ip-172-31-18-130:/root$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:4 https://download.docker.com/linux/ubuntu focal InRelease
Get:5 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [20.8 kB]
Fetched 78.5 kB in 0s (178 kB/s)
Reading package lists ... Done
docker@ip-172-31-18-130:/root$ sudo chmod a+r /etc/apt/keyrings/docker.gpg
docker@ip-172-31-18-130:/root$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:5 http://us-download.docker.com/linux/ubuntu focal InRelease
Hit:5 http://security.ubuntu.com/ubuntu focal InRelease
Hit:5 http://security.ubuntu.com/ubuntu focal InRelease
Reading package lists ... Done
docker@ip-172-31-18-130:/root$
```

<u>This</u>" sudo apt-get install docker-ce docker-ce-cli containerd.io docker-compose-plugin" is Installed for Docker Engine, containerd, and Docker Compose.

```
ocker@ip-172-31-18-130:/root$ sudo apt-get update
it:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
it:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
it:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
et:4 https://download.docker.com/linus/ubuntu focal InRelease [57.7 kB]
it:5 http://download.docker.com/linus/ubuntu focal InRelease [57.7 kB]
it:5 http://download.docker.com/linus/ubuntu focal-security InRelease
et:6 https://download.docker.com/linus/ubuntu focal-security InRelease
et:6 https://download.docker.com/linus/ubuntu focal/stable amd64 Packages [20.8 kB]
etched 78.5 kB in 08 (178 kB/s)
eading package lists... Done
ocker@ip-172-31-18-130:/root$ sudo apt-get update
ocker@ip-172-31-18-130:/root$ sudo apt-get update
it:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal updates InRelease
it:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal updates InRelease
it:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal updates InRelease
it:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal updates InRelease
it:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal updates InRelease
ocker@ip-172-31-130:/root$ sudo apt-get install docker-ce-cc-ci containerd.io docker-compose-plugin
adding dependency tree
eading state information ... Done
he following additional packages will be installed:
docker-ce-rootless-extras docker-scan-plugin pigz slirp4netns
uggested packages:
aufs-tools groupfs-mount | cgroup-lite
he following NEW packages will be installed:
containerd.io docker-ce-clotedocker-ce-cli docker-ce-crootless-extras docker-compose-plugin docker-scan-plugin pigz slirp4netns
uggested packages:
aufs-tools groupfs-mount | cgroup-lite
he following NEW packages will be installed:
containerd.io docker-ce-clotedoc
```

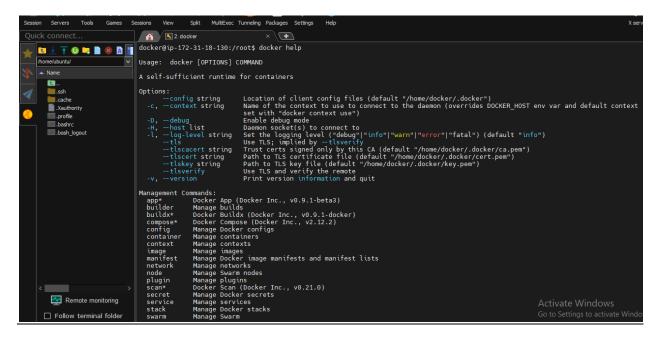
This command is used for checking the version used in docker



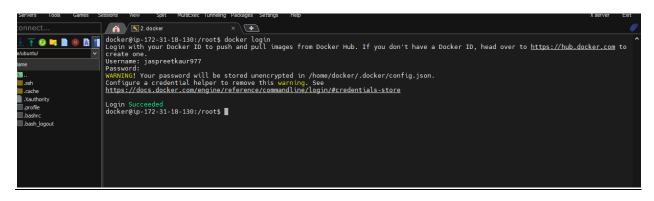
"docker info" command is used for checking the info

```
de40ad0
  GitCommit:
docker@ip-172-31-18-130:/root$ docker info
Client:
 Context:
              default
 Debug Mode: false
 Plugins:
  app: Docker App (Docker Inc., v0.9.1-beta3)
  buildx: Docker Buildx (Docker Inc., v0.9.1-docker)
  compose: Docker Compose (Docker Inc., v2.12.2)
  scan: Docker Scan (Docker Inc., v0.21.0)
Server:
 Containers: 0
  Running: 0
  Paused: 0
  Stopped: 0
 Images: 0
 Server Version: 20.10.21
 Storage Driver: overlay2
  Backing Filesystem: extfs
  Supports d_type: true
 Native Overlay Diff: true userxattr: false
 Logging Driver: json-file
 Cgroup Driver: cgroupfs
 Cgroup Version: 1
 Plugins:
  Volume: local
 Network: bridge host ipvlan macvlan null overlay
Log: awslogs fluentd gcplogs gelf journald json-file local logentries splunk syslog
 Swarm: inactive
```

This"docker help" command is used for takin help from docker



"docker login "command is used for login in the docker hub account



```
docker@ip-172-31-18-130:/root$ docker run mysql
Unable to find image 'mysql:latest' locally
latest: Pulling from library/mysql
Sobche8860a5: Pull complete
92ca853f7184: Pull complete
92ca85f9f184: P
```

To know about the image of our machine we use docker images

```
docker@ip-172-31-18-130:/root$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mysql latest 8fad08b3c84b 4 days ago 535MB
docker@ip-172-31-18-130:/root$
```