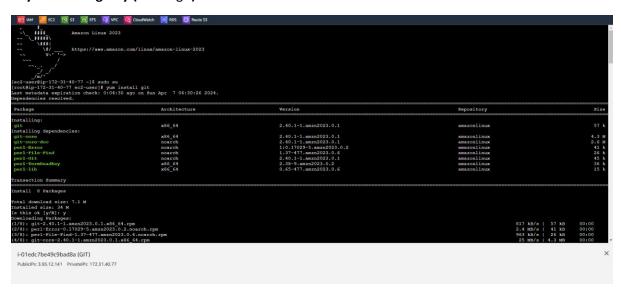
GIT:-

Run an instance and connect it to the terminal.

Then get the root access by giving command

>> sudo su

>>yum install git -y (Install git)



After installing git make a folder

>>mkdir folder-name

>>Is (for checking folder created or not)

>>cd folder-name (to enter inside folder)

Create a file just for demonstrating as a developer file

>>touch file-name

>>git init (to make the normal repository -> local repository)

```
| The content of the
```

>>git add.

>> git commit -m "status/comments"

Now have to connect the github account

>> git remote add origin github-repository-link

>>git remote -v (check the github connection)

```
| Frooting-172-31-60-77 git-folders| git remote and origin https://github.com/Himmshudolankey/temp.git remote remote and origin https://github.com/Himmshudolankey/temp.git remote with remote remote and remote remot
```

Now we have to just push the file into repository.

>>git push origin master (master is the branch-name)

Check the github we have our newly created file successfully pushed into the github.

Now make some changes in the file in github itself. Now we have to try to pull the updated file to our system.

>>git pull origin master

>>cat file

Create other branch instead of master branch

- >>git branch (to check the current or list the branch names)
- >>git branch branch-name (to create new branch)
- >>git checkout branch-name(to change the branch)

>> git add .

```
International Control of the Control
```

>> touch file2

>> git add.

>>git commit -m 'status/comments"

```
The state of the s
```

DOCKER

1. Docker Engine :-

Docker Engine is an open source containerization technology for building and containerizing your applications.

2. Dockerfile

A Dockerfile is a script with instructions on how to make a Docker image. In these instructions, you can find information about the operating system, languages, environment variables, file locations, network ports, and other details needed to run the image.

3. Docker Image:-

Docker image is the building block for containers which contains libraries, tools, dependencies, and additional files to run an application.

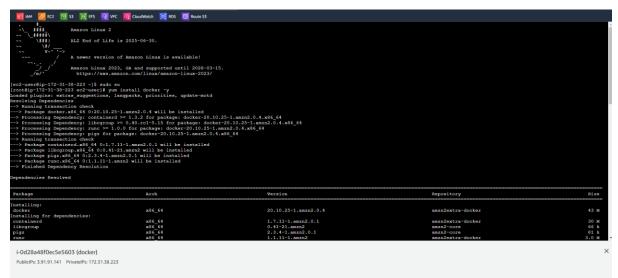
4. Docker containers :-

The active, operational instances of Docker images are known as containers. Docker images are read-only files, whereas containers contain executable, transient content.

Connect instance through shell or open terminal.

>>sudo su

>>yum install docker -y



>>systemctl start docker

>>docker run -it --name himanshu Ubuntu /bin/bash

>>exit

```
ibnfnetlink-1.0.1-19.amzn2023.0.2.x86_64
                                                            libnftnl-1.2.2-2.amzn2023.0.2
  pigz-2.5-1.amzn2023.0.3.x86_64
                                                             runc-1.1.11-1.amzn2023.0.1.x86_64
riggeredBy: • docker.socket
     Docs: https://docs.docker.com
Process: 25058 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
Process: 25076 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, stat>
   Main PID: 25081 (dockerd)
       Tasks: 8
      Memory: 32.4M
          CPU: 322ms
      Apr 08 09:12:27 ip-172-31-27-166.ec2.internal systemd[1]: Starting docker.service - Docker Appl>
Apr 08 09:12:27 ip-172-31-27-166.ec2.internal dockerd[25081]: time="2024-04-08T09:12:27.8136040>
Apr 08 09:12:27 ip-172-31-27-166.ec2.internal dockerd[25081]: time="2024-04-08T09:12:27.8908543>
Apr 08 09:12:28 ip-172-31-27-166.ec2.internal dockerd[25081]: time="2024-04-08T09:12:28.4304185
Apr 08 09:12:28 ip-172-31-27-166.ec2.internal dockerd[25081]: time="2024-04-08T09:12:28.4671030
Apr 08 09:12:28 ip-172-31-27-166.ec2.internal dockerd[25081]: time="2024-04-08T09:12:28.4672195
Apr 08 09:12:28 ip-172-31-27-166.ec2.internal dockerd[25081]: time="2024-04-08T09:12:28.5401030
Apr 08 09:12:28 ip-172-31-27-166.ec2.internal systemd[1]: Started docker.service - Docker Appli
[root@ip-172-31-27-166 ec2-user] # docker run --it --name himanshu ubuntu /bin/bash
unknown flag: --it
See 'docker run --help'.
[root@ip-172-31-27-166 ec2-user]# docker run -it --name himanshu ubuntu /bin/bash
Unable to find image 'ubuntu:latest' locally latest: Pulling from library/ubuntu bccd10f490ab: Pull complete
Digest: sha256:77906da86b60585ce12215807090eb327e7386c8fafb5402369e421f44eff17e
Status: Downloaded newer image for ubuntu:latest root@6edc23edeca5:/#
```

>>docker ps -a

>>docker images

```
[root@ip-172-31-27-166 ec2-user] # docker run --it --name himanshu ubuntu /bin/bash
 ınknown flag: --it
       'docker run --help'.
 [root@ip-172-31-27-166 ec2-user] # docker run -it --name himanshu ubuntu /bin/bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
bccd10f490ab: Pull complete
Digest: sha256:77906da86b60585ce12215807090eb327e7386c8fafb5402369e421f44eff17e
 Status: Downloaded newer image for ubuntu:latest
coot@6edc23edeca5:/# docker ps -a
 eash: docker: command not found
  oot@6edc23edeca5:/# docker show
 bash: docker: command not found root@fedc23edeca5:/# docker images
 oash: docker: command not found
root@6edc23edeca5:/# docker images^C
root@6edc23edeca5:/# docker images
 bash: docker: command not found root@6edc23edeca5:/# ^C
  coot@6edc23edeca5:/# ^C
  oot@6edc23edeca5:/# ^C
 root@6edc23edeca5:/# exit
[root@ip-172-31-27-166 ec2-user] # docker images
REPOSITORY TAG IMAGE ID CREATED
REPOSITORY TAG
ubuntu latest
REPOSITOR:

ubuntu latest ca2b0f26964c 3 weeks ag.

[root@ip-172-31-27-166 ec2-user] # docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS

6edc23edeca5 ubuntu "/bin/bash" About a minute ago Exited (130) 13 seconds ago

[root@ip-172-31-27-166 ec2-user] # docker ps

COMMAND CREATED STATUS PORTS NAMES
                                                                                                                                                                              NAMES
                                                                                                                                                                              himanshu
```

```
CREATED SIZE
5 weeks ago 77.9MB
```

i-Od28a48f0ec5e5603 (docker) PubliciPs: 3.91.91.141 PrivatelPs: 172.31.38.223