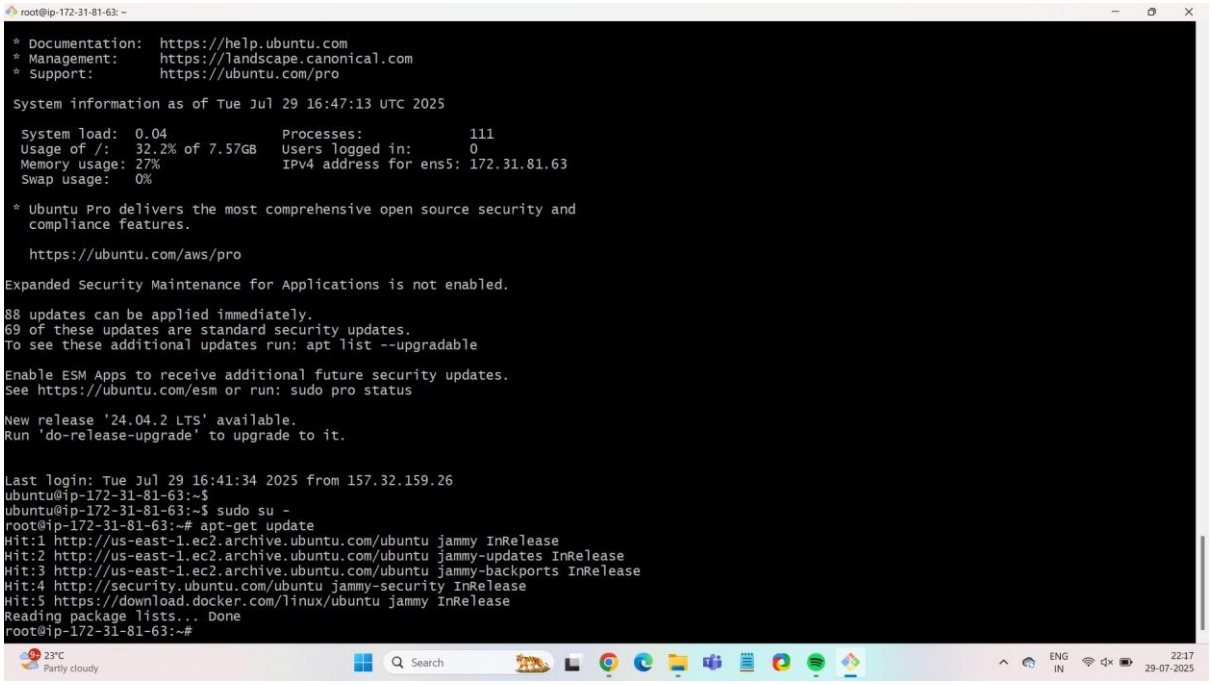
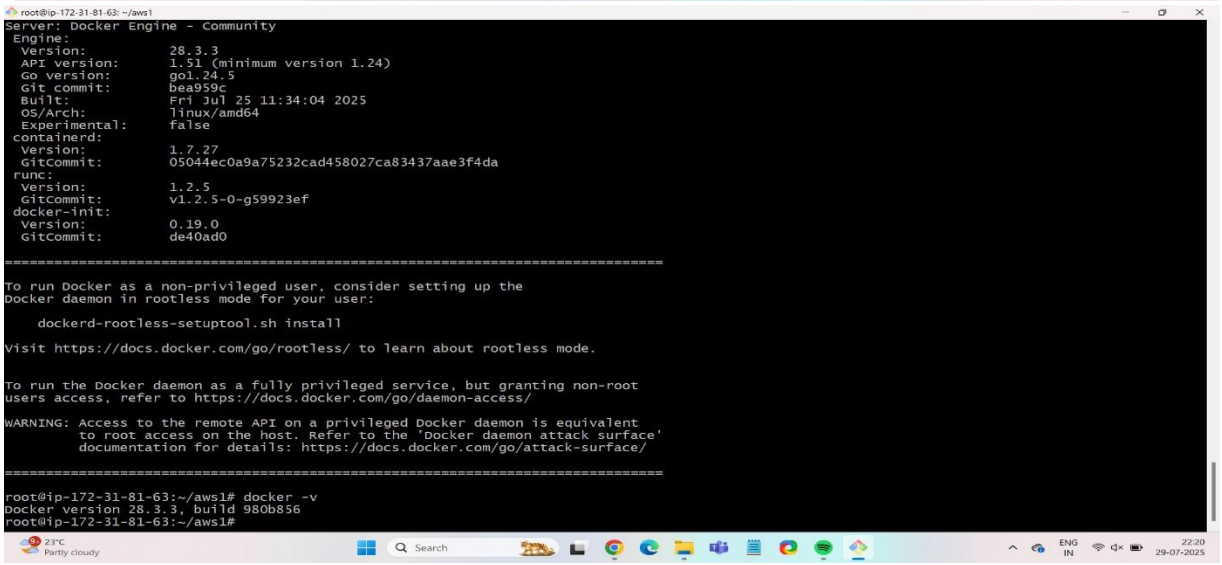
Name :- Laxmi Swami

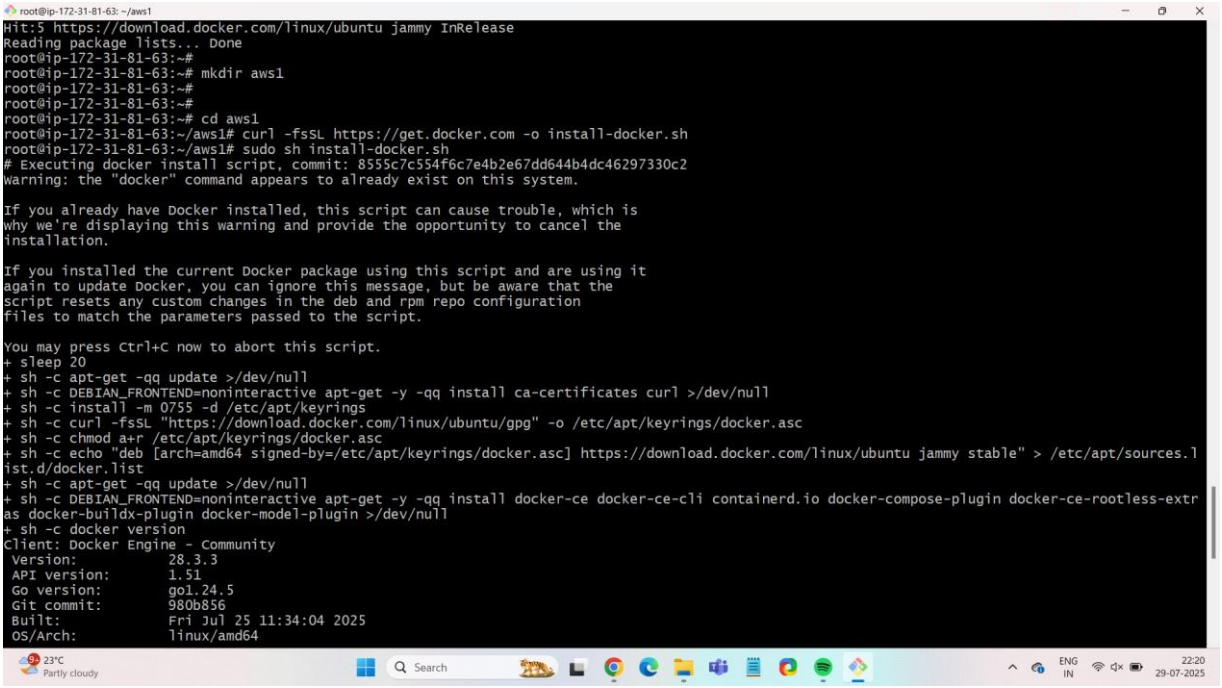
Topic :- Dockerfile

Launch an ec2 instance create a dockerfile and run various command also push images from local to dockerhub.



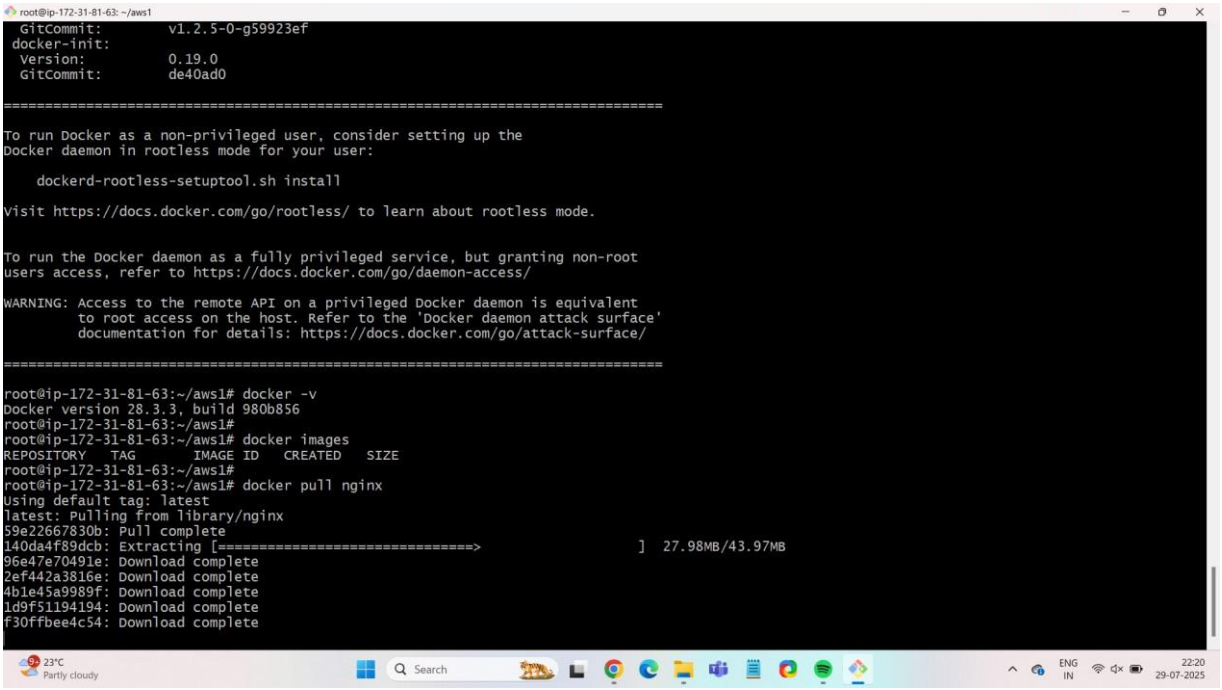


Go to getdocker.com and copy the link for install docker:

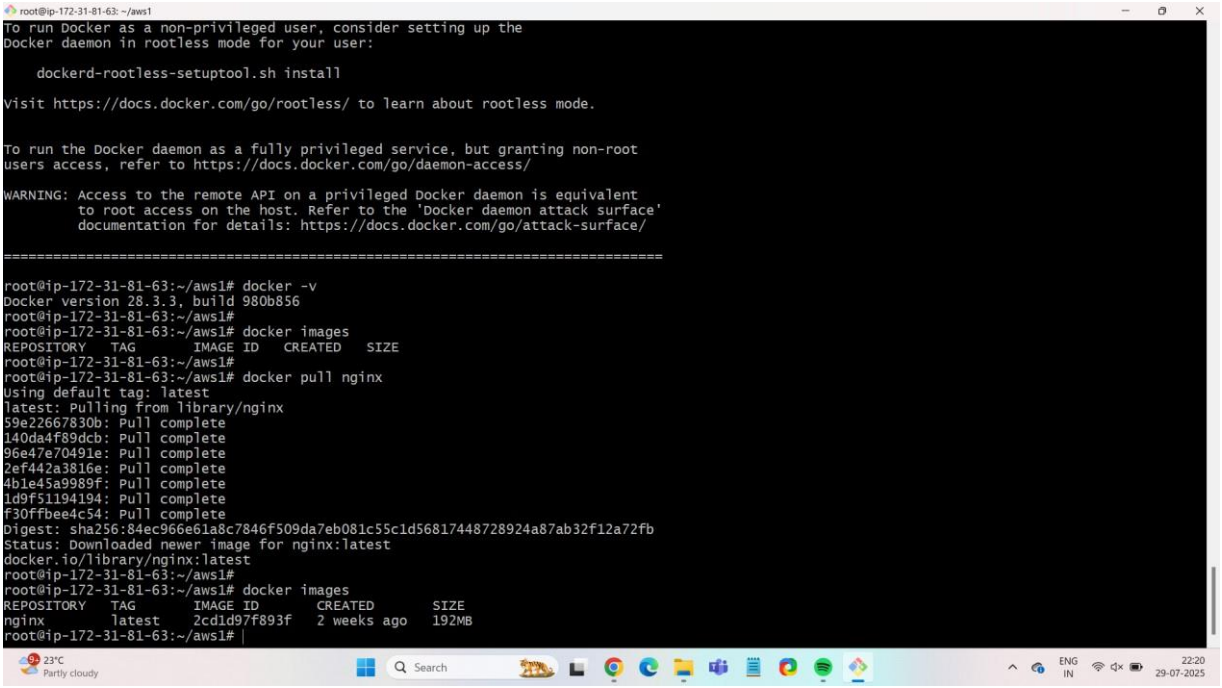


Docker version : 28.3.3

And pull nginx image :docker pull nginx



Use **docker images** for display all images in local

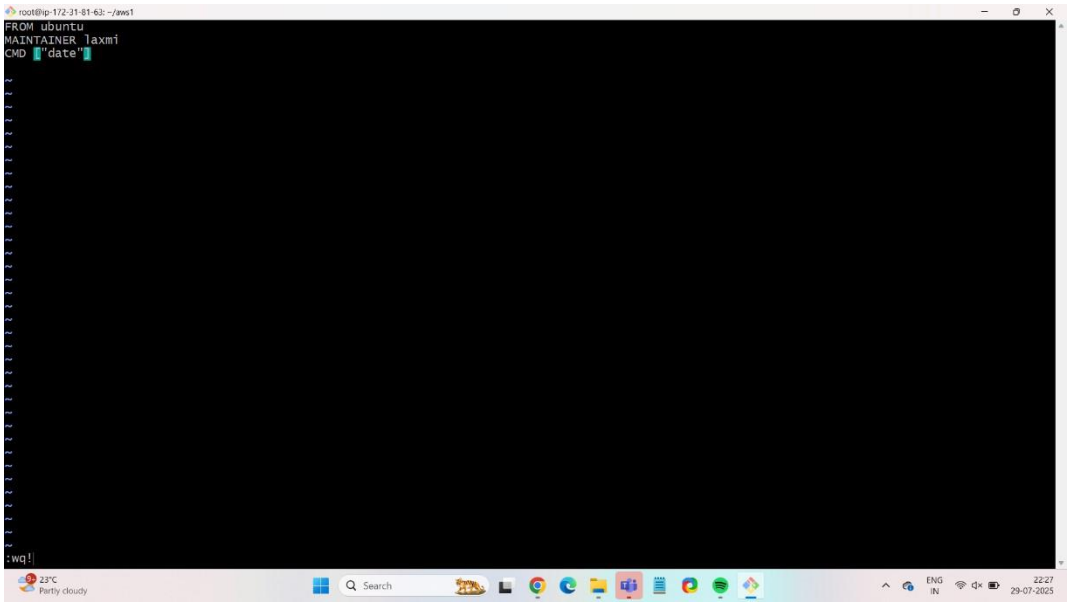


Vi dockerfile

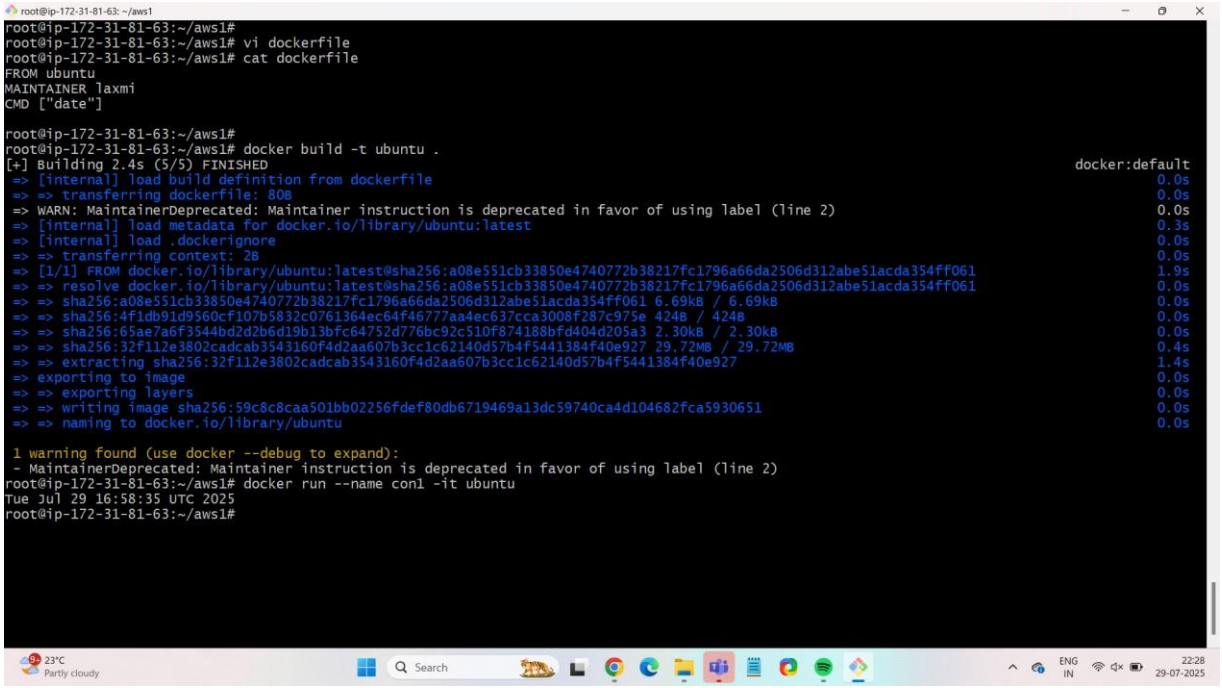
FROM ubuntu

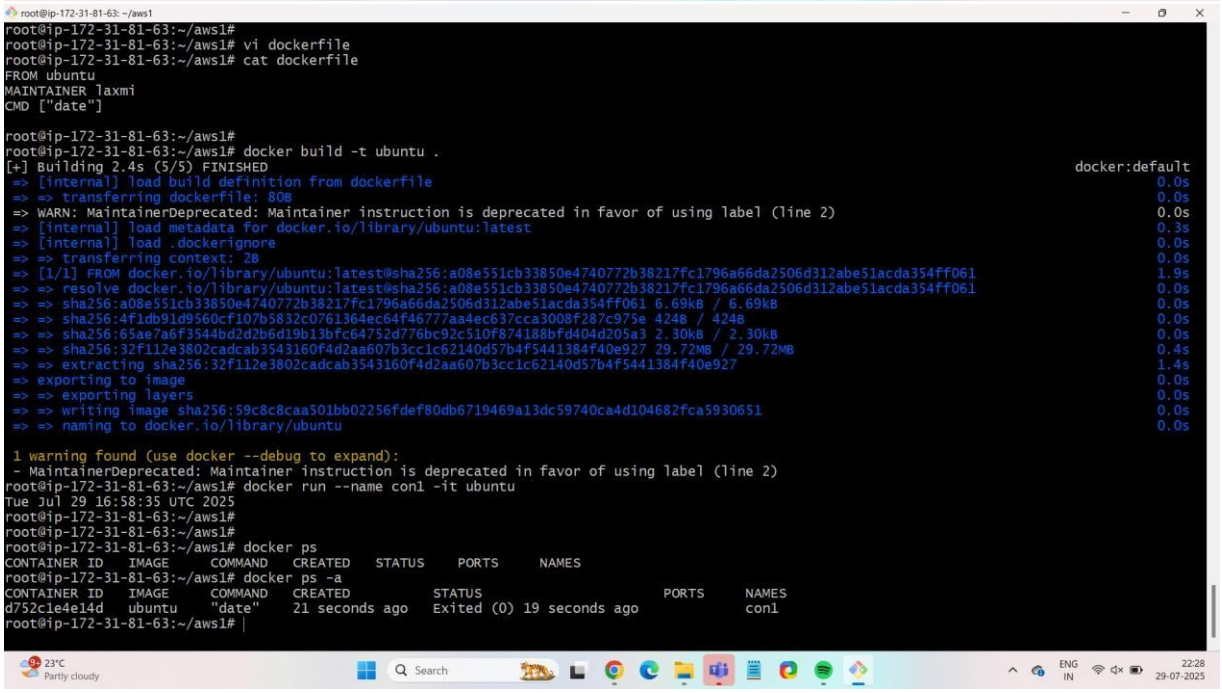
MAINTAINER Laxmi

CMD [“date”] : specify the initial command when image /container is created



- Use command for build the dockerfile :Docker build -t ubuntu .
- Use command for run and create container:Docker run –name con1 -it ubuntu





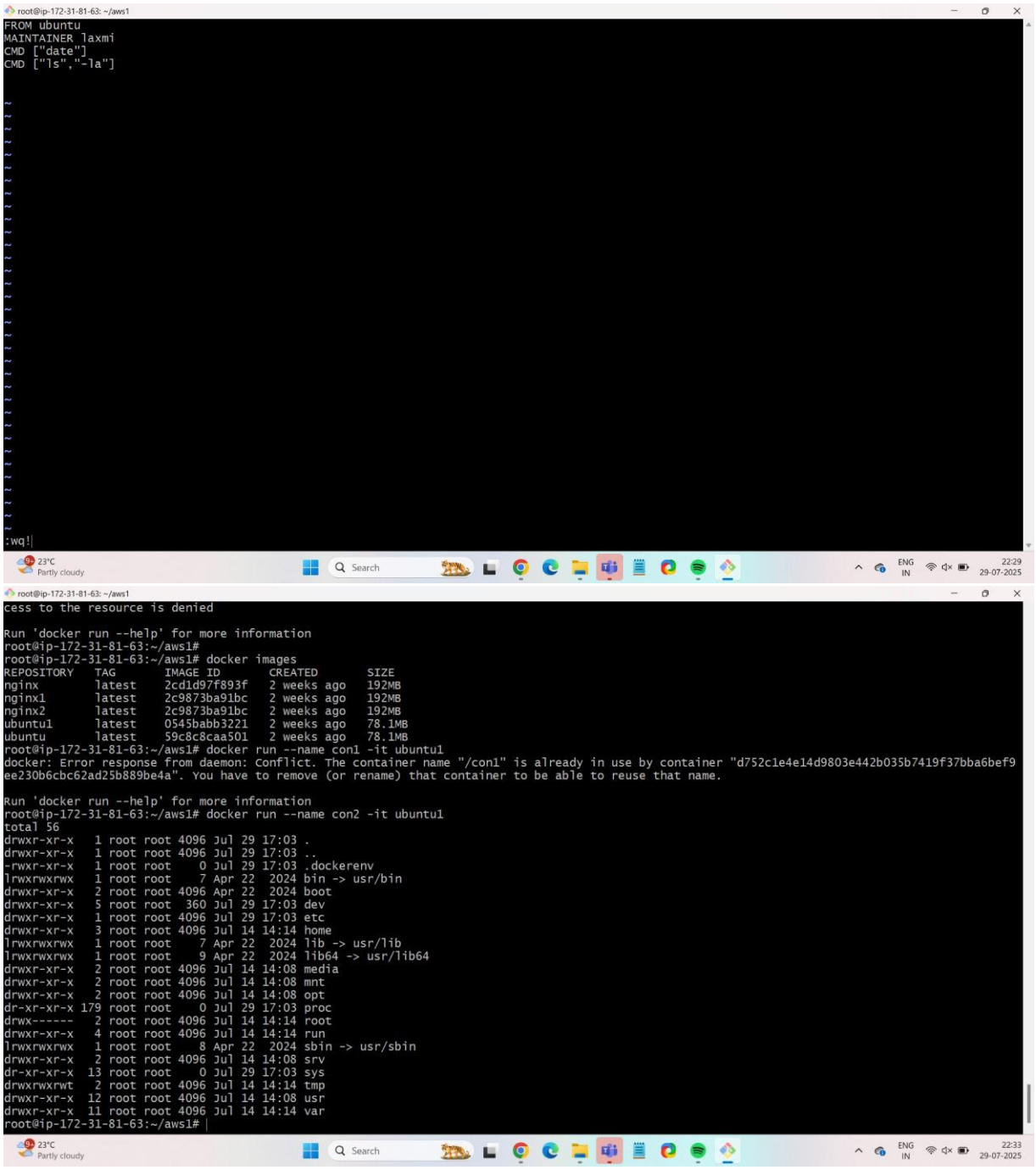
Vi dockerfile:

FROM ubuntu

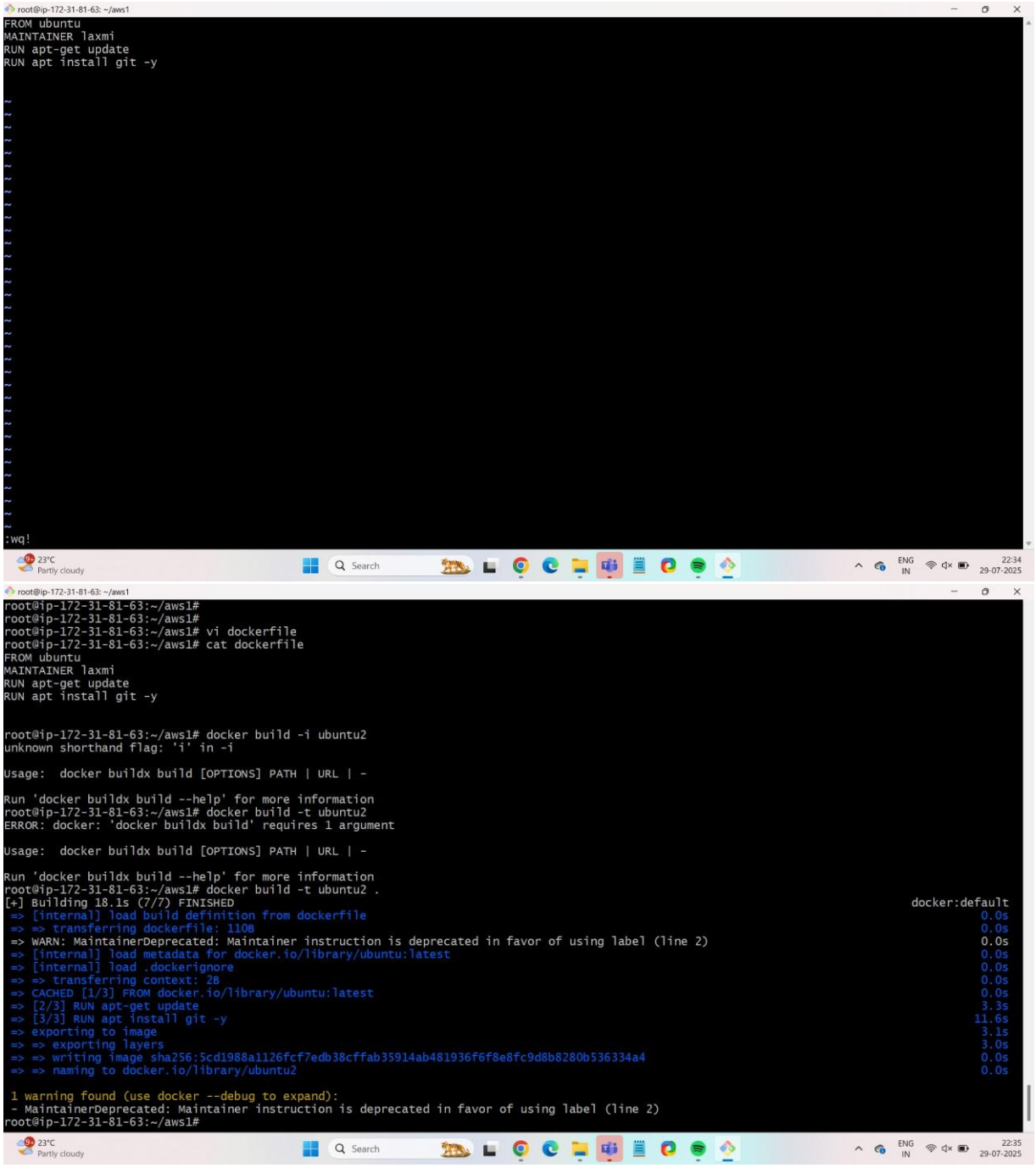
MAINTAINER Laxmi

CMD [“date”]

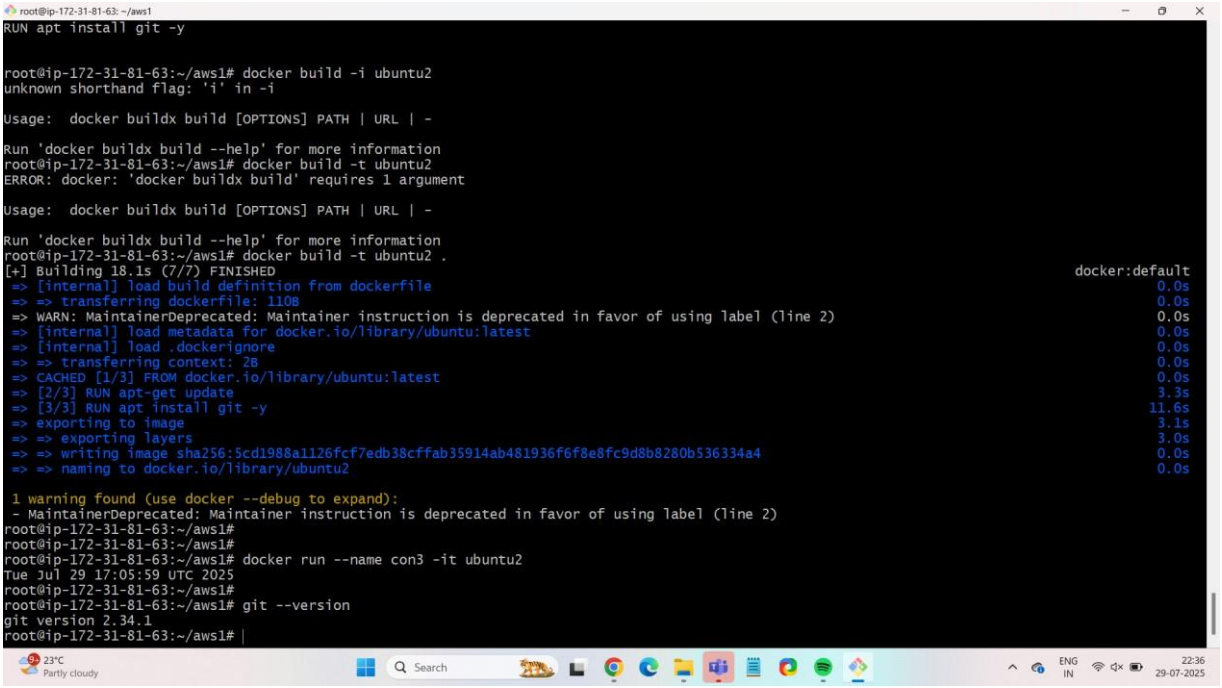
CMD [“ls”, “-la”] : list out all



Vi dockerfile
FROM ubuntu
MAINTAINER Laxmi
RUN apt-get update
RUN apt install git -y
Use for update the operating system(ubuntu) & also install git



Git version : 2.34.1



Vi dockerfile

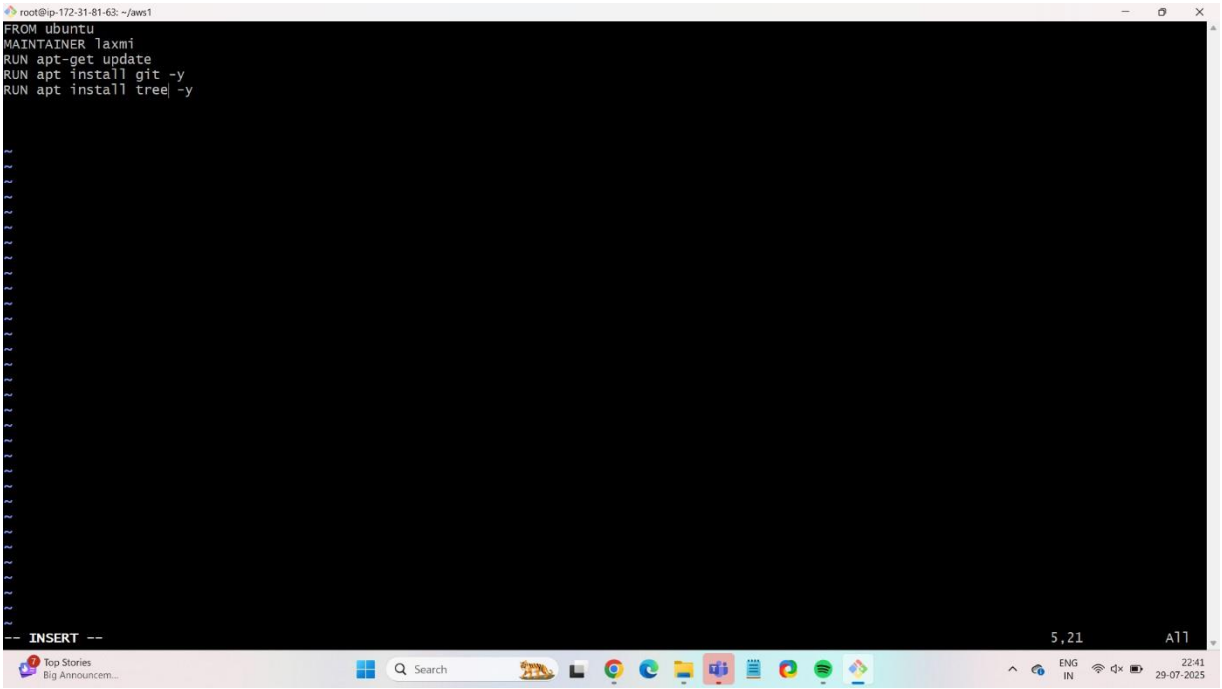
FROM ubuntu

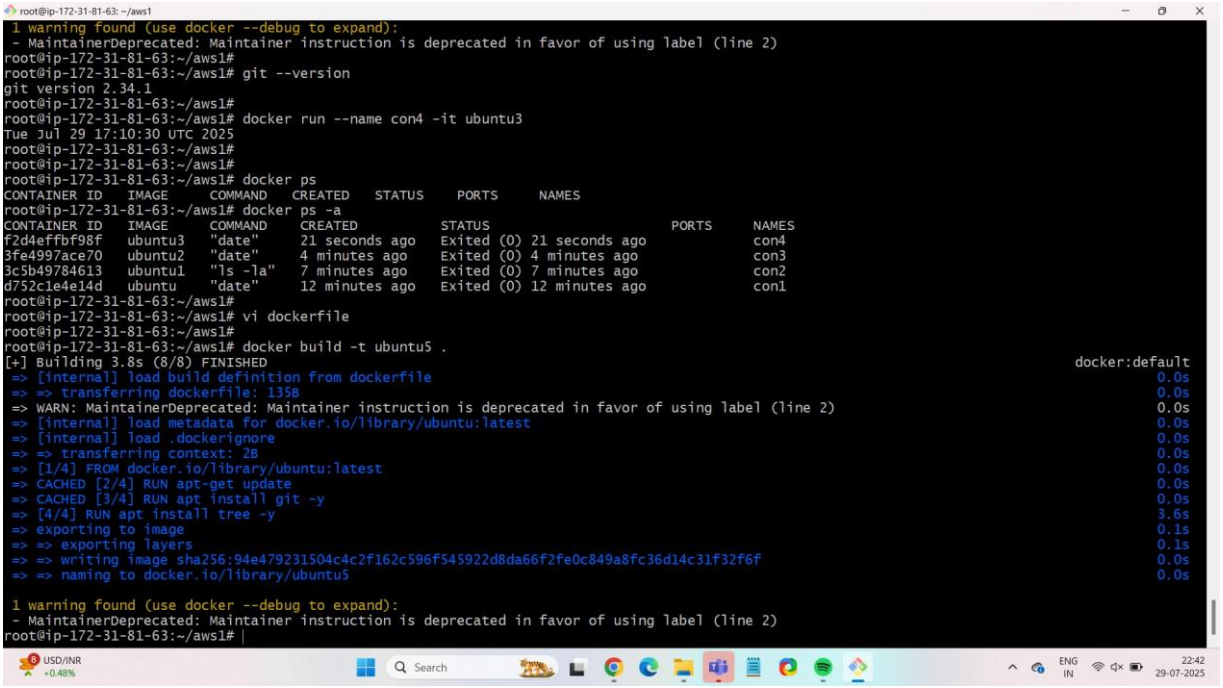
MAINTAINER Laxmi RUN

apt install git -y

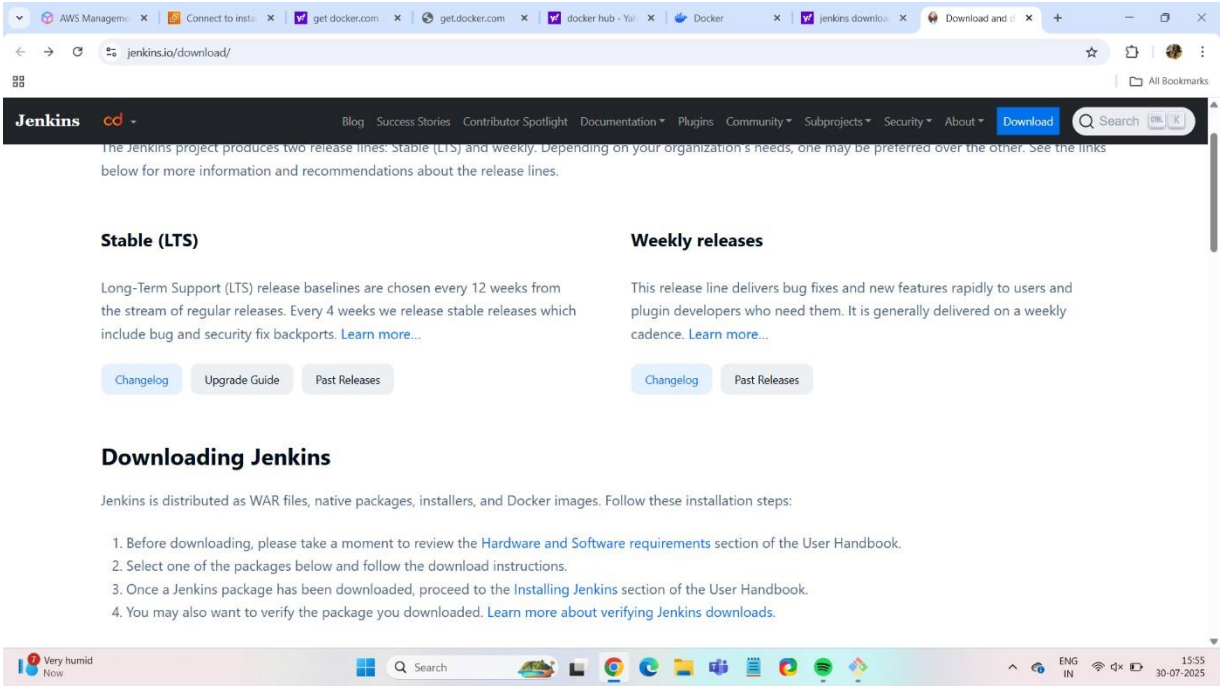
RUN apt install tree -y

In this time git is go to cached





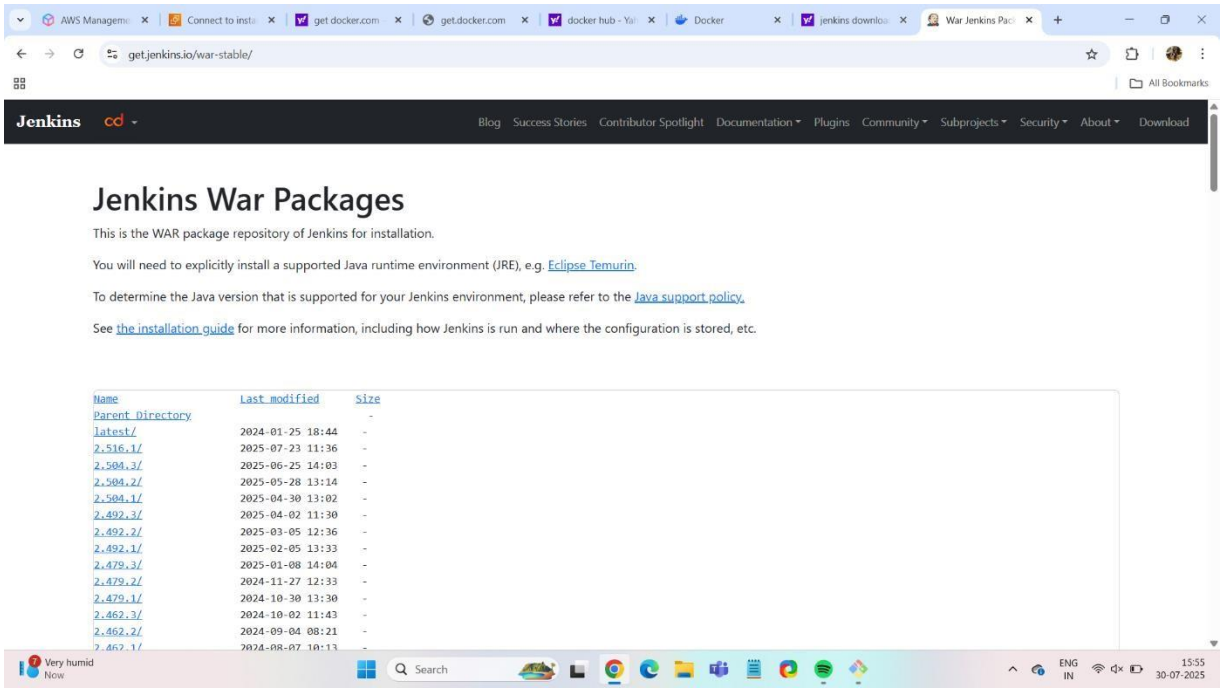
Go to jenkin download site and click on past realses

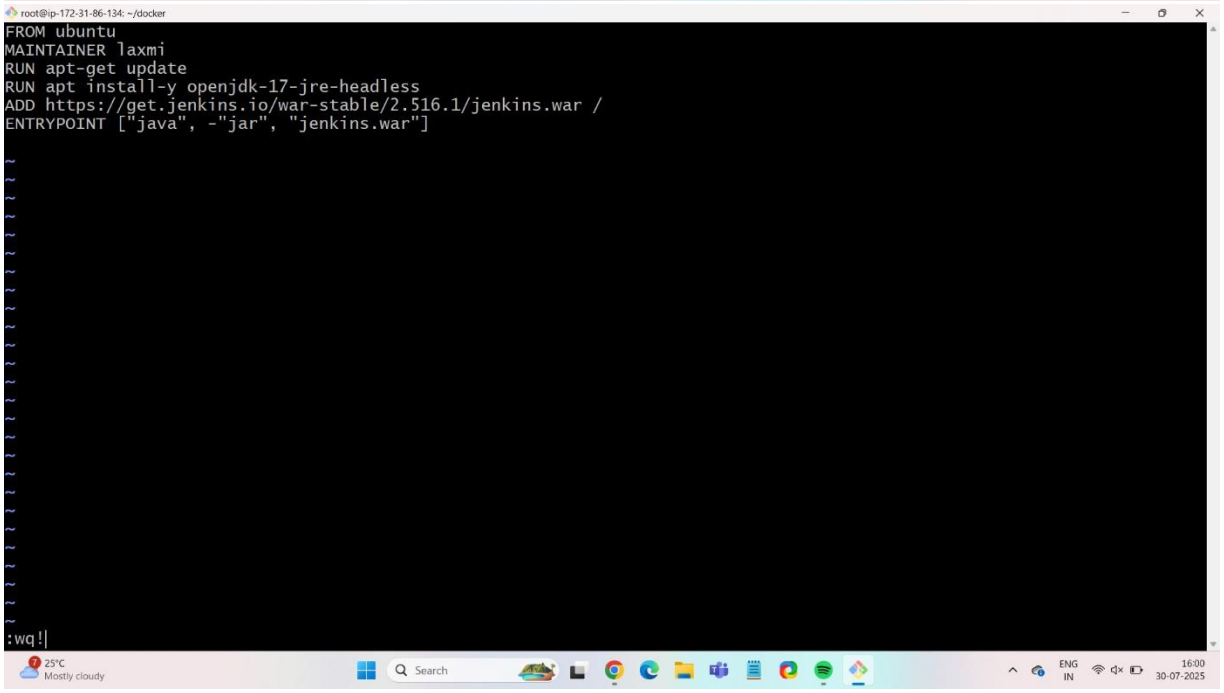


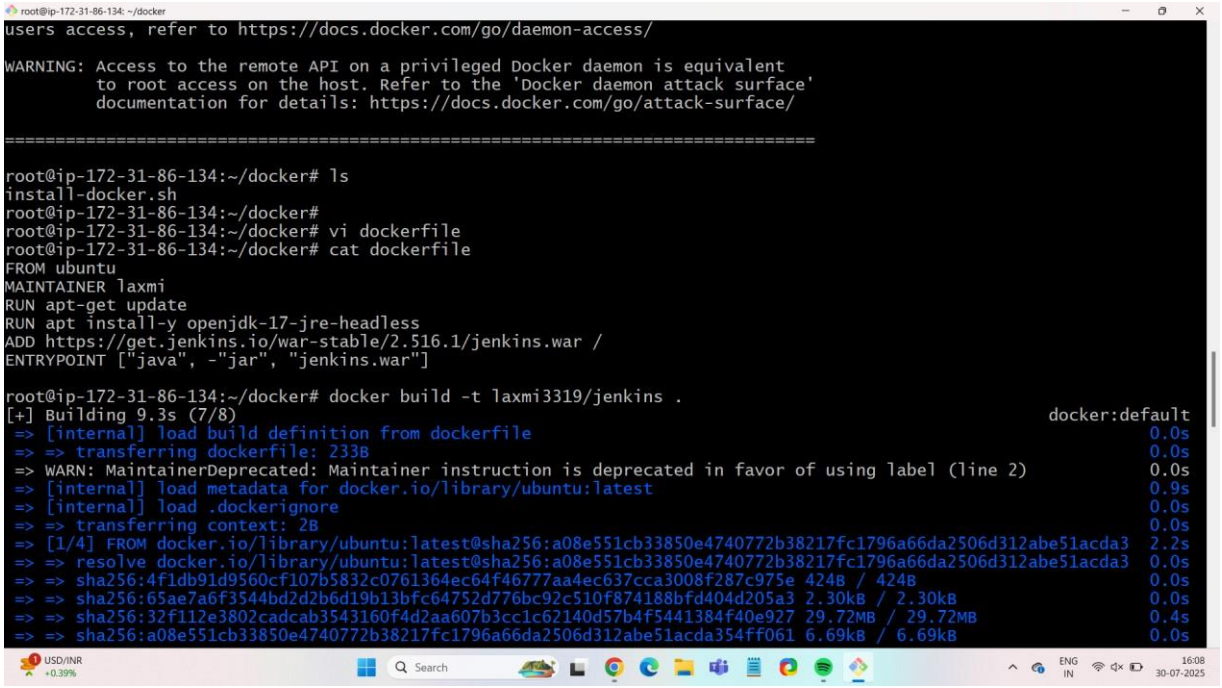
And choose Jenkins 2.516.2 version and right click on war file and paste in dockerfile

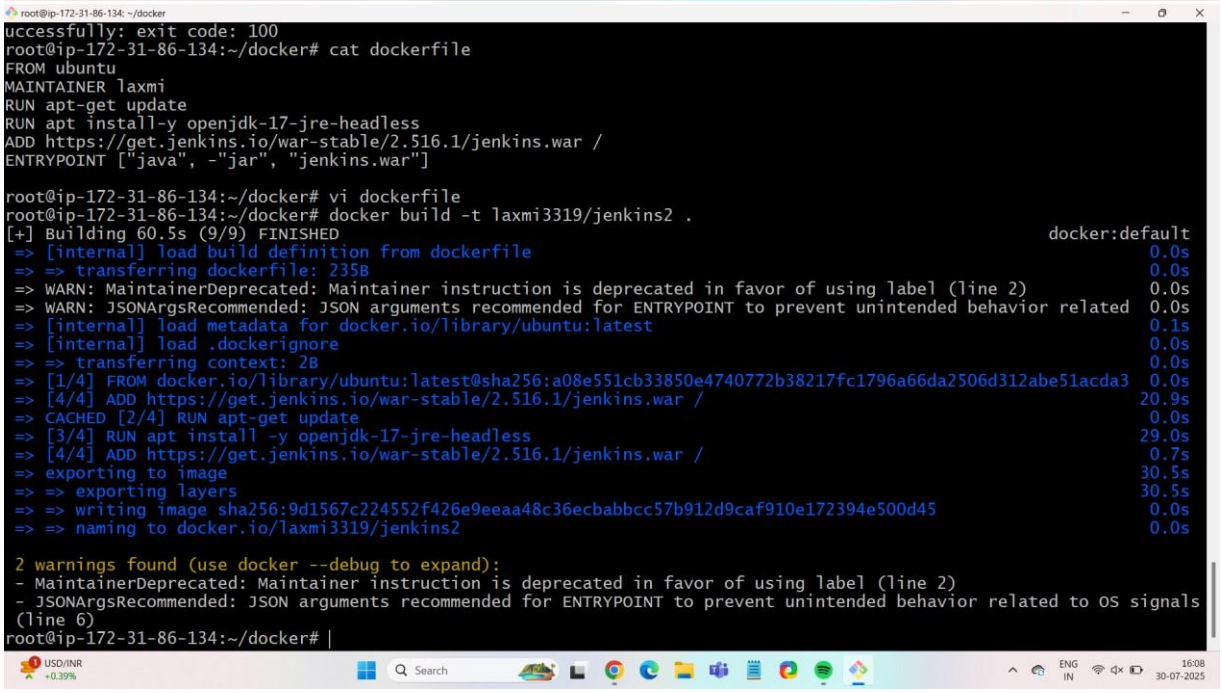
ADD command use for copy the content from host to image/container , download from internet.

ENTRYPOINT use for specify the default process when container will start.


get.jenkins.io/war-stable/
Jenkins
Blog Success Stories Contributor Spotlight Documentation Plugins Community Subprojects Security About Download
Jenkins War Packages
This is the WAR package repository of Jenkins for installation.
You will need to explicitly install a supported Java runtime environment (JRE), e.g. Eclipse Temurin.
To determine the Java version that is supported for your Jenkins environment, please refer to the Java support policy.
See the installation guide for more information, including how Jenkins is run and where the configuration is stored, etc.
Name Last modified Size
Parent Directory -
latest/ 2024-01-25 18:44 -
2.516.1/ 2025-07-23 11:36 -
2.504.3/ 2025-06-25 14:03 -
2.504.2/ 2025-05-28 13:14 -
2.504.1/ 2025-04-30 13:02 -
2.492.3/ 2025-04-02 11:30 -
2.492.2/ 2025-03-05 12:36 -
2.492.1/ 2025-02-05 13:33 -
2.479.3/ 2025-01-08 14:04 -
2.479.2/ 2024-11-27 12:33 -
2.479.1/ 2024-10-30 13:30 -
2.462.3/ 2024-10-02 11:43 -
2.462.2/ 2024-09-04 08:21 -
Very humid
Now
Search
ENG
IN
15:55
30-07-2025


root@ip-172-31-86-134: ~/docker
FROM ubuntu
MAINTAINER laxmi
RUN apt-get update
RUN apt install-y openjdk-17-jre-headless
ADD https://get.jenkins.io/war-stable/2.516.1/jenkins.war /
ENTRYPOINT ["java", -"jar", "jenkins.war"]
:wq!
25°C
Mostly cloudy
Search
ENG
IN
16:00
30-07-2025



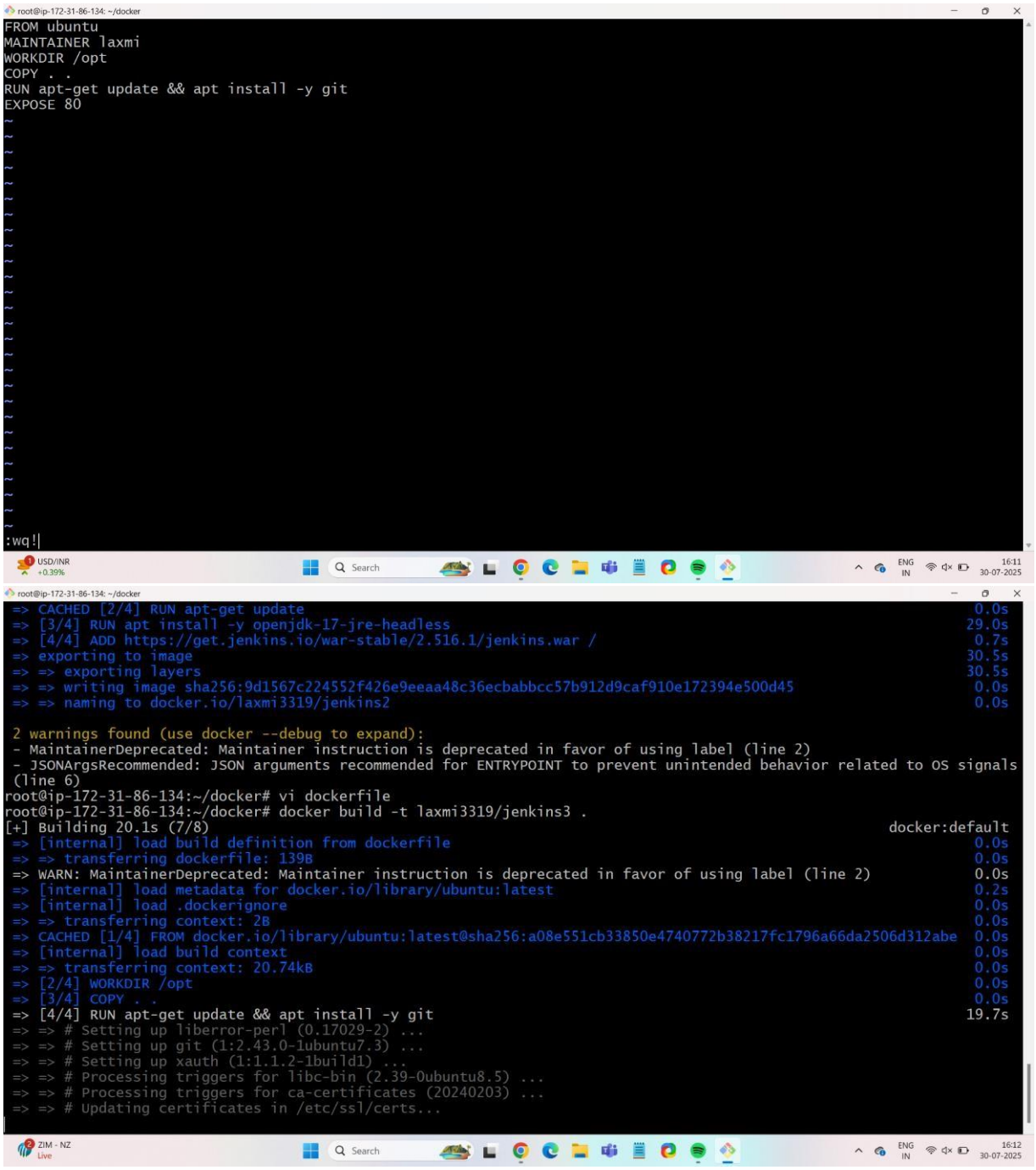


FROM ubuntu

MAINTAINER Laxmi

EXPOSE 80

RUN apt-get update && apt install -y git



Vi dockerfile

FROM ubuntu

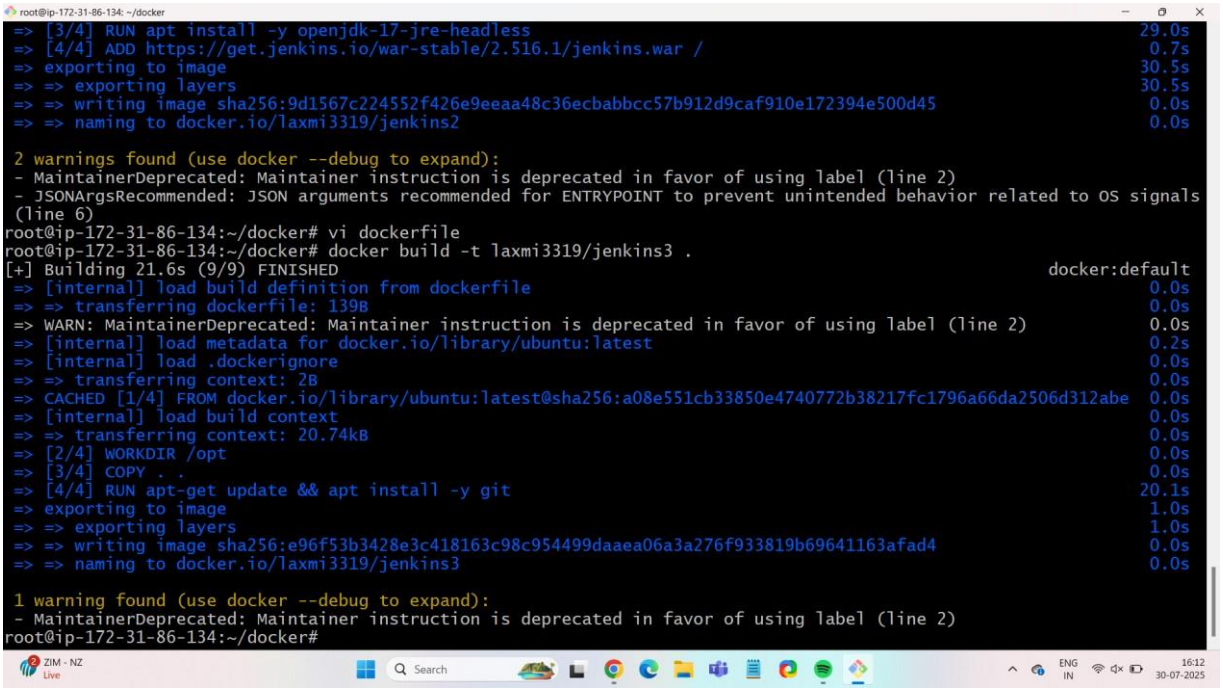
MAINTAINER archit

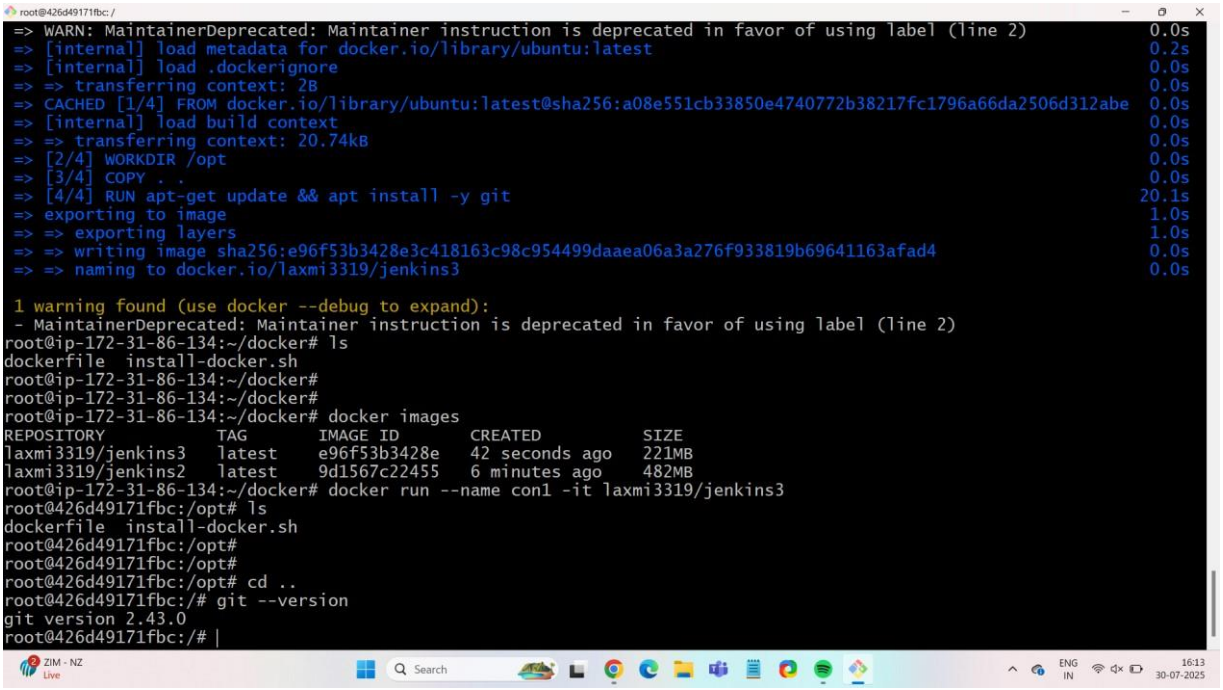
WORKDIR /OPT

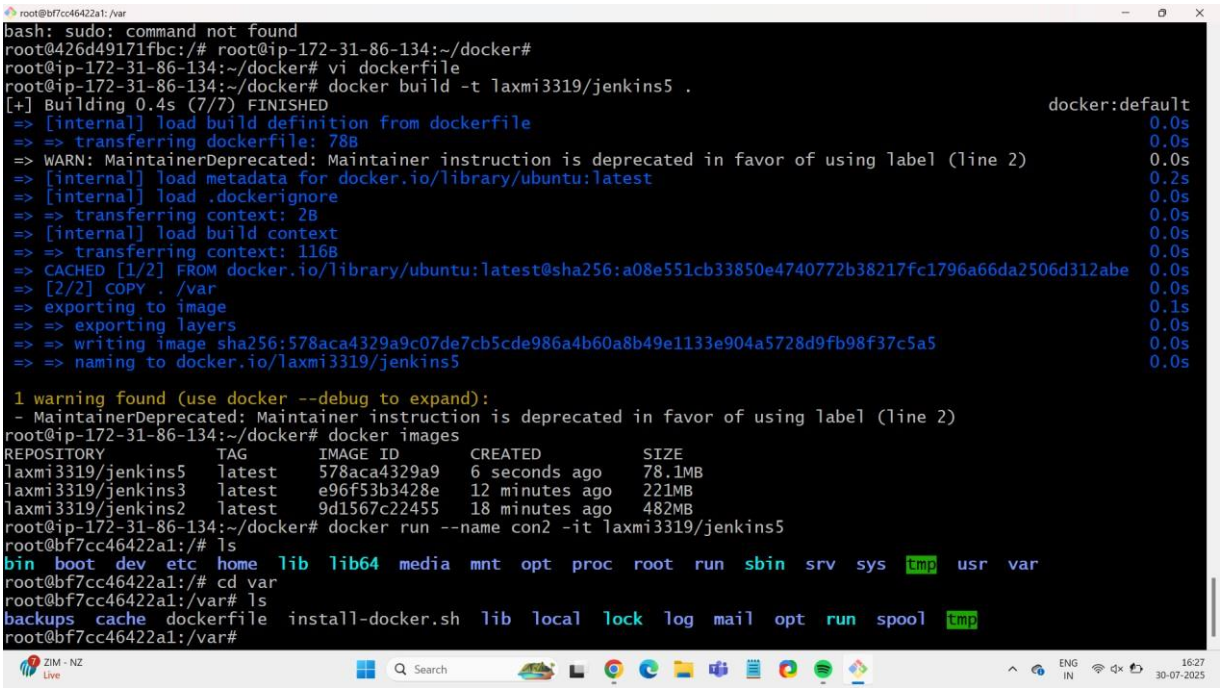
COPY . .

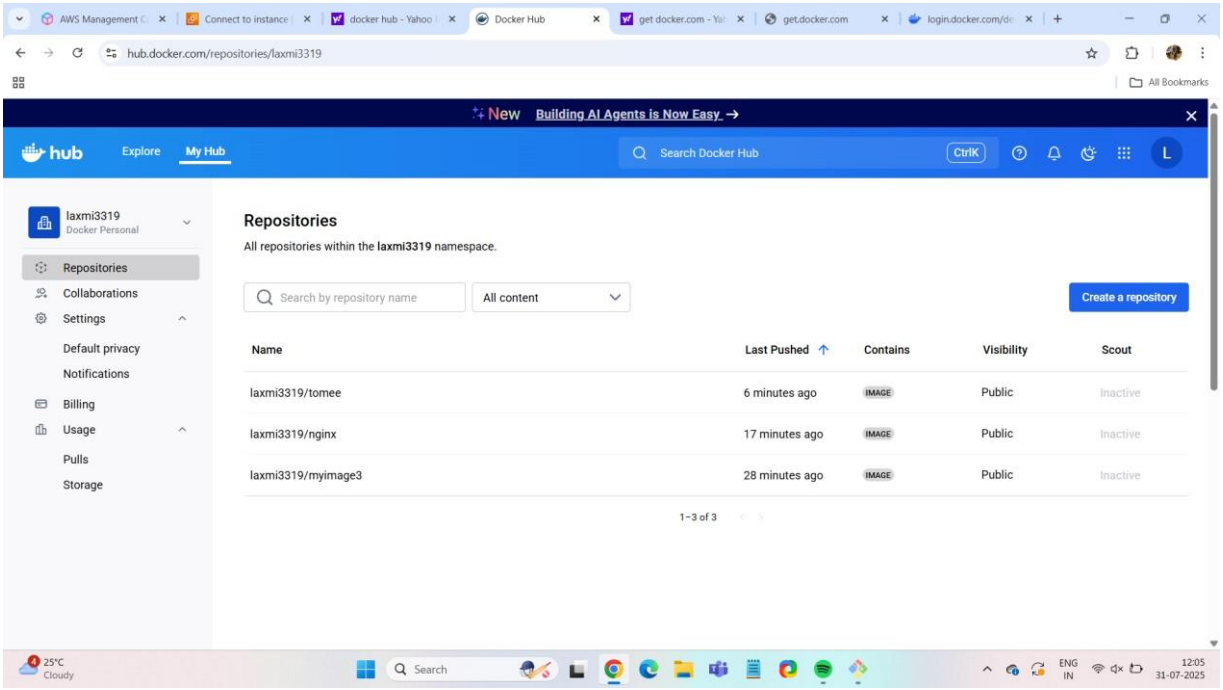
RUN apt update && apt install -y git

EXPOSE 80


root@ip-172-31-86-134: ~/docker
=> [3/4] RUN apt install -y openjdk-17-jre-headless 29.0s
=> [4/4] ADD https://get.jenkins.io/war-stable/2.516.1/jenkins.war / 0.7s
=> exporting to image 30.5s
=> => exporting layers 30.5s
=> => writing image sha256:9d1567c224552f426e9eeaa48c36ecbabbcc57b912d9caf910e172394e500d45 0.0s
=> => naming to docker.io/laxmi3319/jenkins2 0.0s
2 warnings found (use docker --debug to expand):
- MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 2)
- JSONArgsRecommended: JSON arguments recommended for ENTRYPOINT to prevent unintended behavior related to OS signals (line 6)
root@ip-172-31-86-134:~/docker# vi dockerfile
root@ip-172-31-86-134:~/docker# docker build -t laxmi3319/jenkins3 .
[+] Building 21.6s (9/9) FINISHED docker:default
=> [internal] load build definition from dockerfile 0.0s
=> => transferring dockerfile: 139B 0.0s
=> WARN: MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 2) 0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest 0.2s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> CACHED [1/4] FROM docker.io/library/ubuntu:latest@sha256:a08e551cb33850e4740772b38217fc1796a66da2506d312abe 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 20.74kB 0.0s
=> [2/4] WORKDIR /opt 0.0s
=> [3/4] COPY . . 0.0s
=> [4/4] RUN apt-get update && apt install -y git 20.1s
=> exporting to image 1.0s
=> => exporting layers 1.0s
=> => writing image sha256:e96f53b3428e3c418163c98c954499daaea06a3a276f933819b69641163afad4 0.0s
=> => naming to docker.io/laxmi3319/jenkins3 0.0s
1 warning found (use docker --debug to expand):
- MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 2)
root@ip-172-31-86-134:~/docker#
ZIM - NZ
Live
Search
ENG
IN
16:12
30-07-2025


root@426d49171fbc: /
=> WARN: MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 2) 0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest 0.2s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> CACHED [1/4] FROM docker.io/library/ubuntu:latest@sha256:a08e551cb33850e4740772b38217fc1796a66da2506d312abe 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 20.74kB 0.0s
=> [2/4] WORKDIR /opt 0.0s
=> [3/4] COPY . . 0.0s
=> [4/4] RUN apt-get update && apt install -y git 20.1s
=> exporting to image 1.0s
=> => exporting layers 1.0s
=> => writing image sha256:e96f53b3428e3c418163c98c954499daaea06a3a276f933819b69641163afad4 0.0s
=> => naming to docker.io/laxmi3319/jenkins3 0.0s
1 warning found (use docker --debug to expand):
- MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 2)
root@ip-172-31-86-134:~/docker# ls
dockerfile install-docker.sh
root@ip-172-31-86-134:~/docker#
root@ip-172-31-86-134:~/docker#
root@ip-172-31-86-134:~/docker# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
laxmi3319/jenkins3 latest e96f53b3428e 42 seconds ago 221MB
laxmi3319/jenkins2 latest 9d1567c22455 6 minutes ago 482MB
root@ip-172-31-86-134:~/docker# docker run --name con1 -it laxmi3319/jenkins3
root@426d49171fbc:/opt# ls
dockerfile install-docker.sh
root@426d49171fbc:/opt#
root@426d49171fbc:/opt#
root@426d49171fbc:/opt# cd ..
root@426d49171fbc:/# git --version
git version 2.43.0
root@426d49171fbc:/#
ZIM - NZ
Live
Search
ENG
IN
16:13
30-07-2025


root@bf7cc46422a1: /var
bash: sudo: command not found
root@426d49171fbc:/# root@ip-172-31-86-134:~/docker#
root@ip-172-31-86-134:~/docker# vi dockerfile
root@ip-172-31-86-134:~/docker# docker build -t laxmi3319/jenkins5 .
[+] Building 0.4s (7/7) FINISHED docker:default
=> [internal] load build definition from dockerfile 0.0s
=> => transferring dockerfile: 78B 0.0s
=> WARN: MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 2) 0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest 0.2s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 116B 0.0s
=> CACHED [1/2] FROM docker.io/library/ubuntu:latest@sha256:a08e551cb33850e4740772b38217fc1796a66da2506d312abe 0.0s
=> [2/2] COPY . /var 0.0s
=> exporting to image 0.1s
=> => exporting layers 0.0s
=> => writing image sha256:578aca4329a9c07de7cb5cde986a4b60a8b49e1133e904a5728d9fb98f37c5a5 0.0s
=> => naming to docker.io/laxmi3319/jenkins5 0.0s
1 warning found (use docker --debug to expand):
- MaintainerDeprecated: Maintainer instruction is deprecated in favor of using label (line 2)
root@ip-172-31-86-134:~/docker# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
laxmi3319/jenkins5 latest 578aca4329a9 6 seconds ago 78.1MB
laxmi3319/jenkins3 latest e96f53b3428e 12 minutes ago 221MB
laxmi3319/jenkins2 latest 9d1567c22455 18 minutes ago 482MB
root@ip-172-31-86-134:~/docker# docker run --name con2 -it laxmi3319/jenkins5
root@bf7cc46422a1:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
root@bf7cc46422a1:/# cd var
root@bf7cc46422a1:/var# ls
backups cache dockerfile install-docker.sh lib local lock log mail opt run spool tmp
root@bf7cc46422a1:/var#


hub.docker.com/repositories/laxmi3319
New Building AI Agents is Now Easy →
hub
Explore
My Hub
Search Docker Hub
CtrlK
laxmi3319
Docker Personal
Repositories
Collaborations
Settings
Default privacy
Notifications
Billing
Usage
Pulls
Storage
Repositories
All repositories within the laxmi3319 namespace.
Search by repository name
All content
Create a repository
Name
Last Pushed
Contains
Visibility
Scout
laxmi3319/tomee
6 minutes ago
IMAGE
Public
Inactive
laxmi3319/nginx
17 minutes ago
IMAGE
Public
Inactive
laxmi3319/myimage3
28 minutes ago
IMAGE
Public
Inactive
1–3 of 3