### **DEVOPS**

## **DAY 2-TASK**

## **DOCKER COMMANDS:**

# Install Docker

sudo apt install docker.io -y

# Restart Docker service

sudo service docker restart

# Check Docker status

sudo service docker status

# Add current user to the Docker group

sudo usermod -aG docker \$USER

# Verify Docker installation

docker images

docker ps

# Fix permission issues with Docker socket

sudo chmod 666 /var/run/docker.sock

# **MAVEN INSTALLATION:**

- Download Apache Maven from the official website.
- Extract and set environment variables (MAVEN\_HOME, PATH).
- Verify installation using mvn -version.

### **JENKINS:**

## **JENKINS INSTALLATION:**

- Install Java (JDK 8 or higher).
- Download and install Jenkins (WAR or package-based).
- Start Jenkins: java -jar jenkins.war or use a service (systemctl start jenkins).
- Access Jenkins via http://localhost:8080.
- Unlock Jenkins using the admin password from the log.

chirinbanum@ChirinAnifa:~\$ git clone https://github.com/chirinbanum/Jenkins.

git

Cloning into 'Jenkins'...

remote: Enumerating objects: 14, done.

remote: Counting objects: 100% (14/14), done.

remote: Compressing objects: 100% (10/10), done.

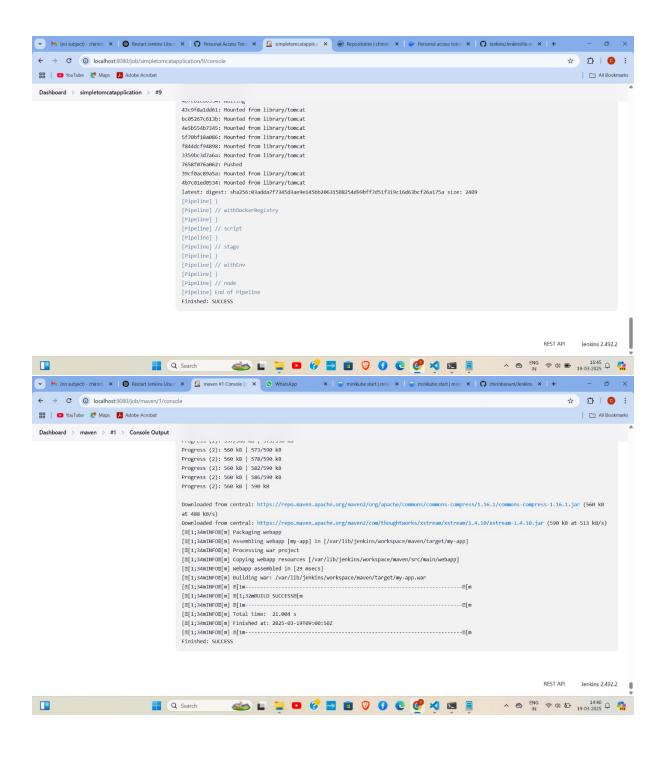
remote: Total 14 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

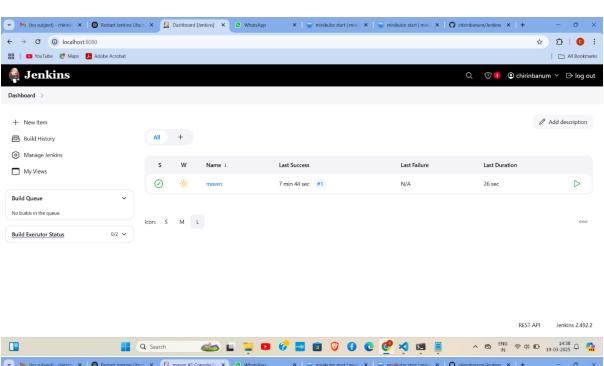
Receiving objects: 100% (14/14), done.

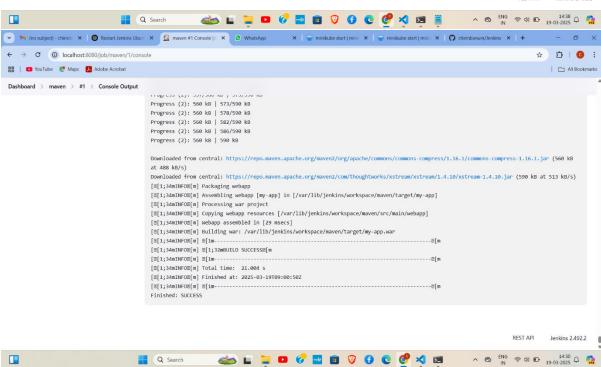
chirinbanum@ChirinAnifa:~\$ Is

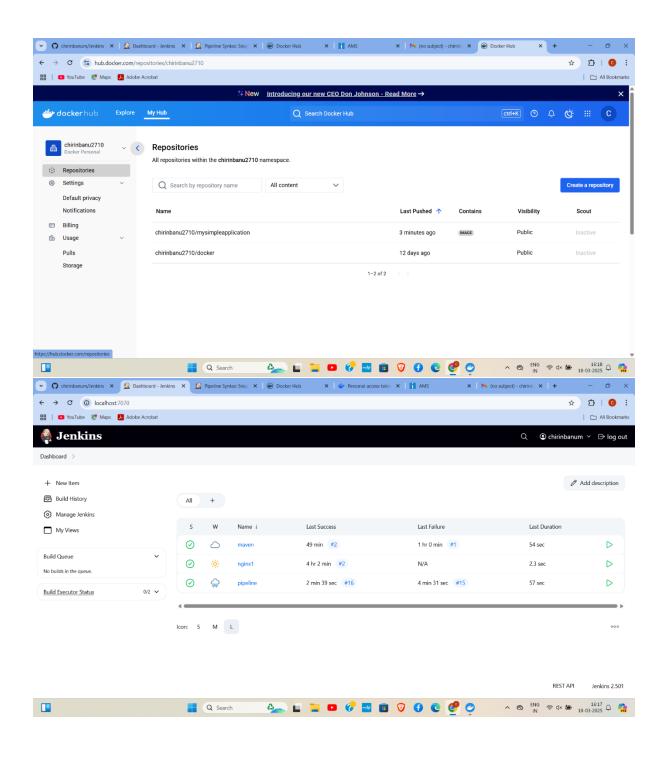
DevOps\_code Jenkins docker-compose.yaml

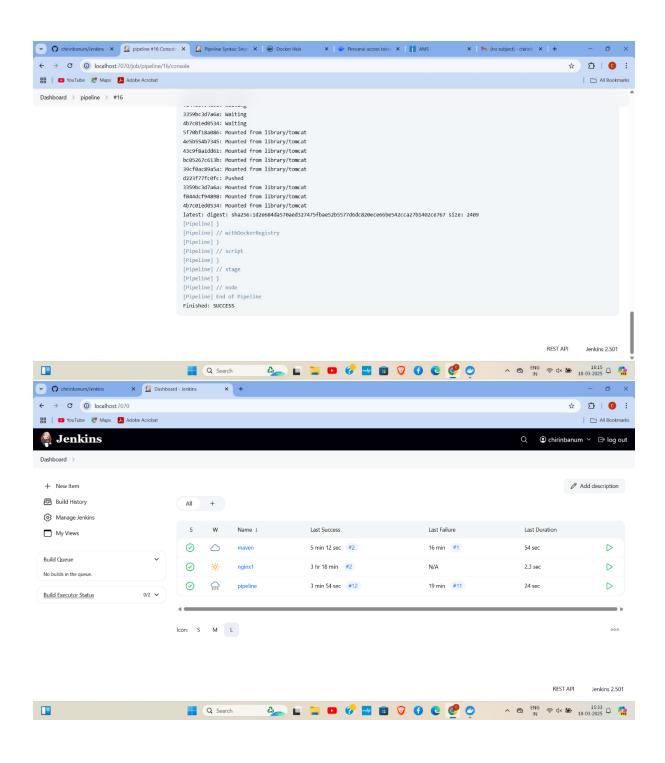
chirinbanum@ChirinAnifa:~/Jenkins\$ mvn clean install

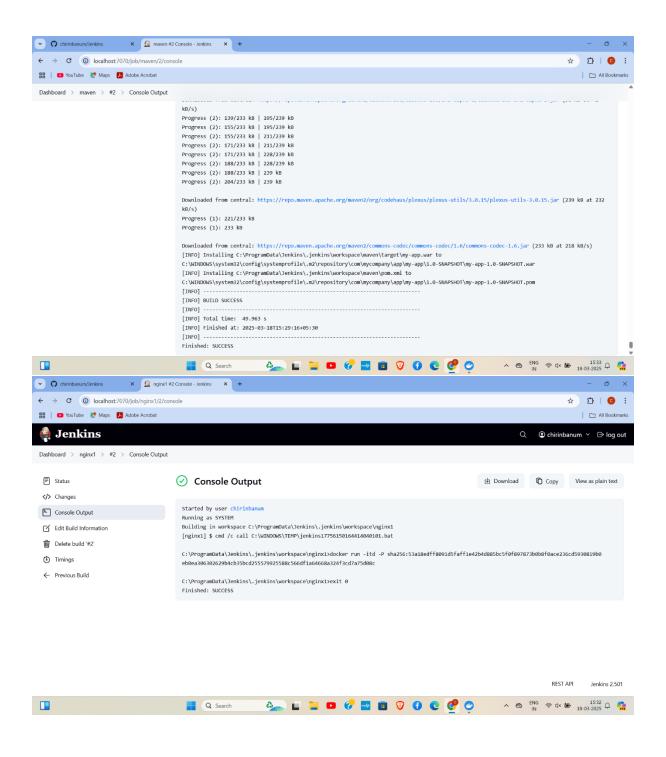


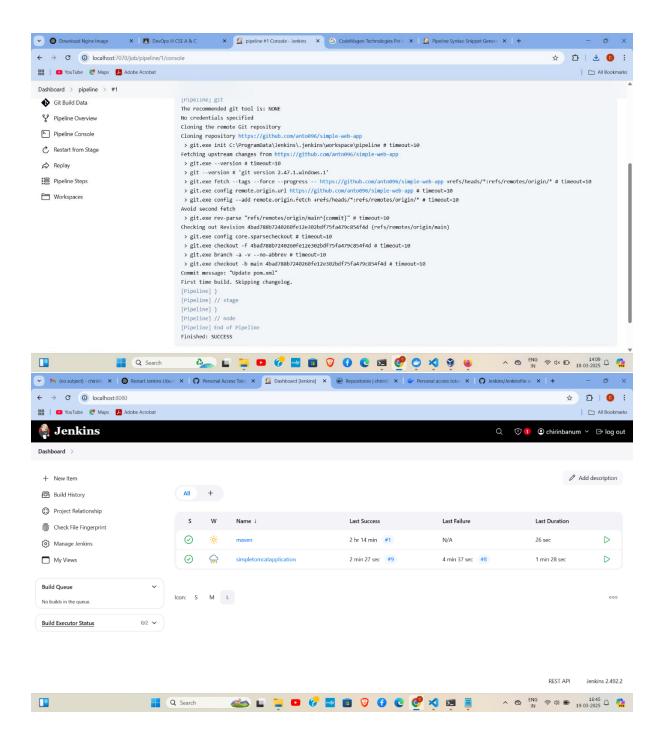












# **KUBERNETES COMMANDS:**

# Download kubectl

curl -LO https://dl.k8s.io/release/v1.32.0/bin/linux/amd64/kubectl

# Install kubectl with correct permissions

sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl

# Make kubectl executable

chmod +x kubectl

# Create a local bin directory if it doesn't exist

mkdir -p ~/.local/bin

# Move kubectl to the local bin directory

mv ./kubectl ~/.local/bin/kubectl

# Verify kubectl installation

kubectl version -client