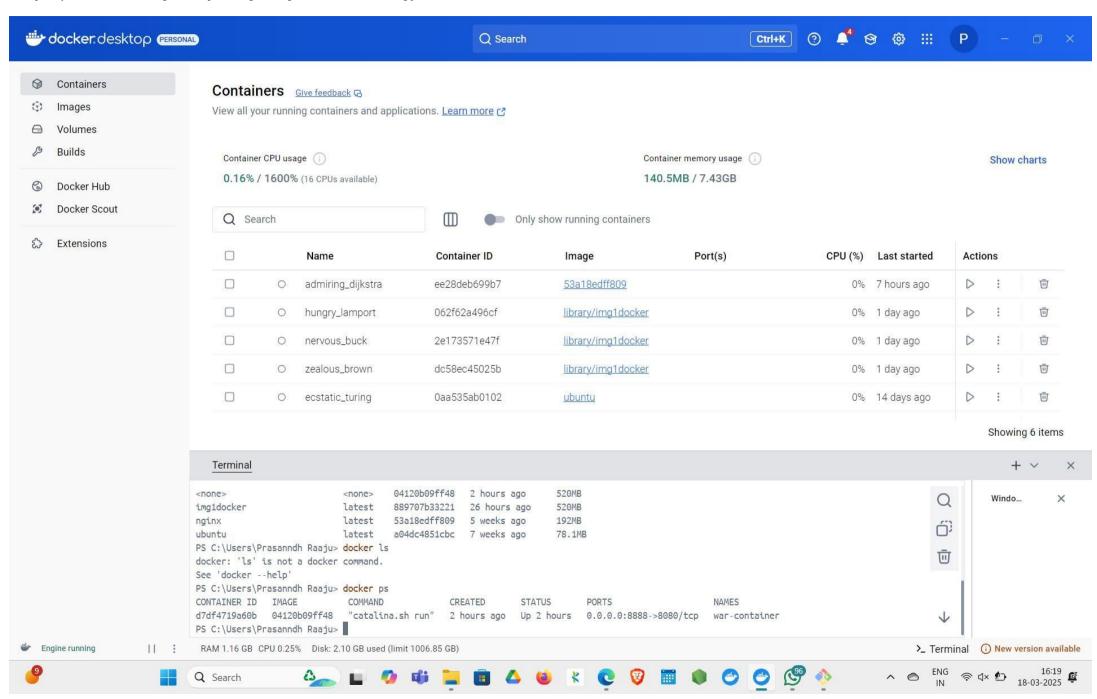
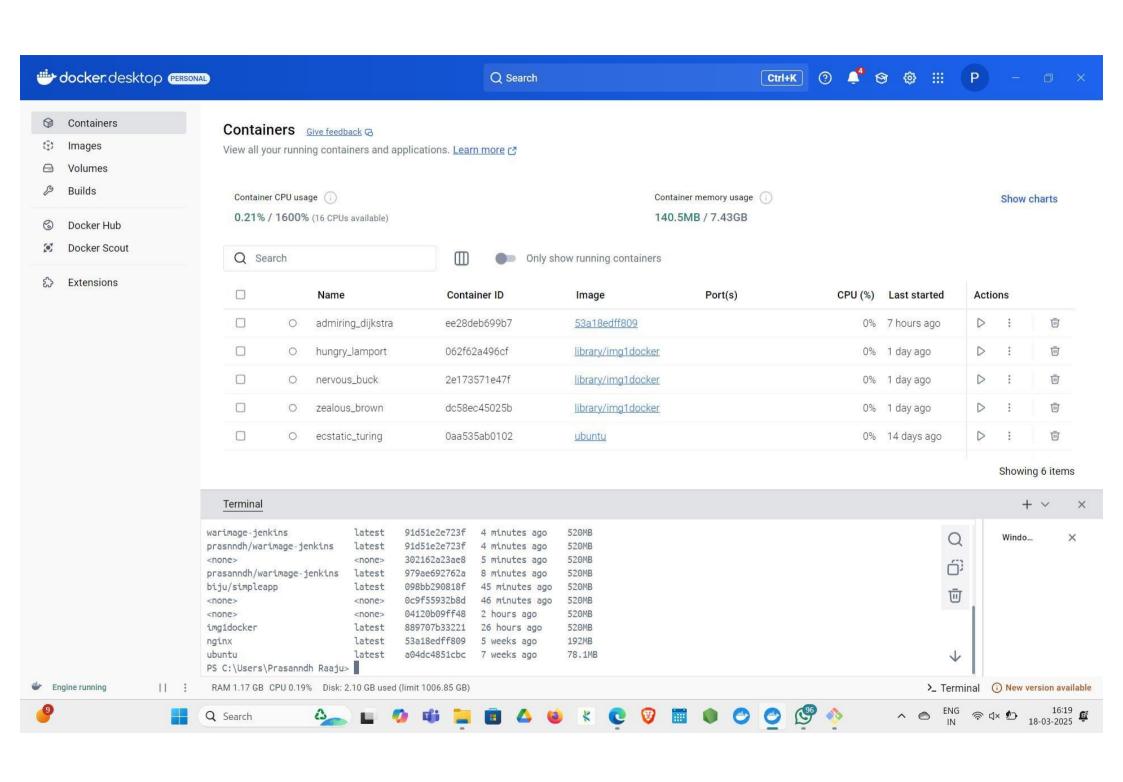
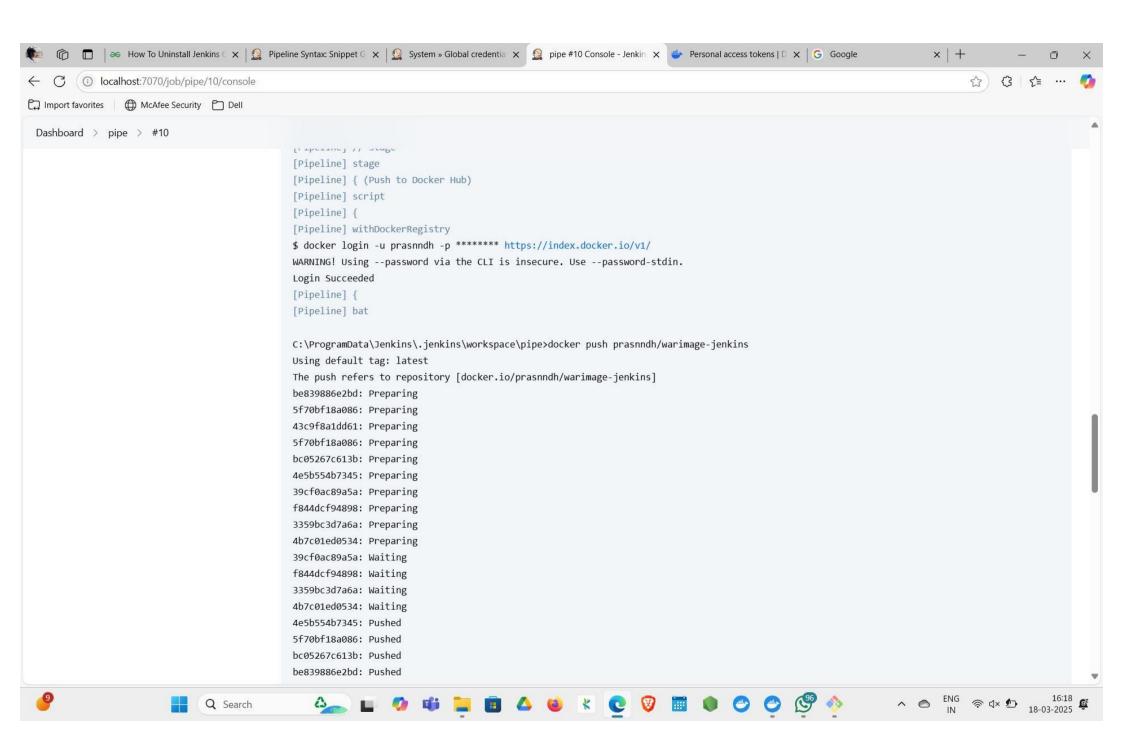
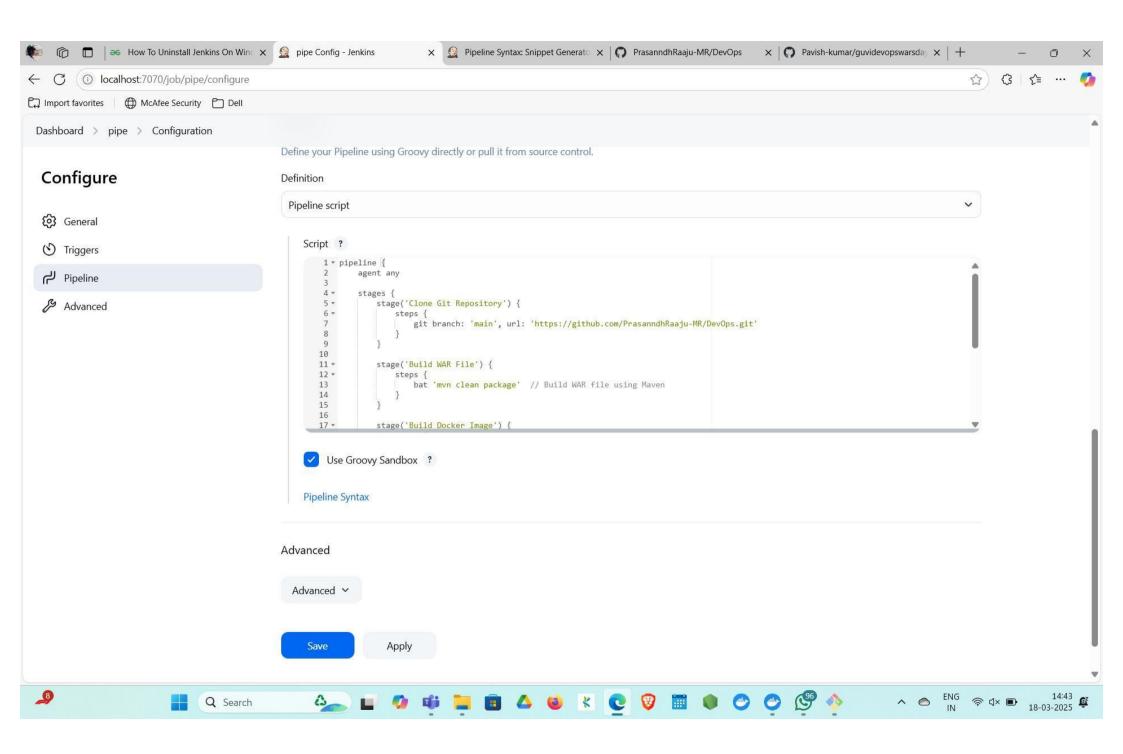
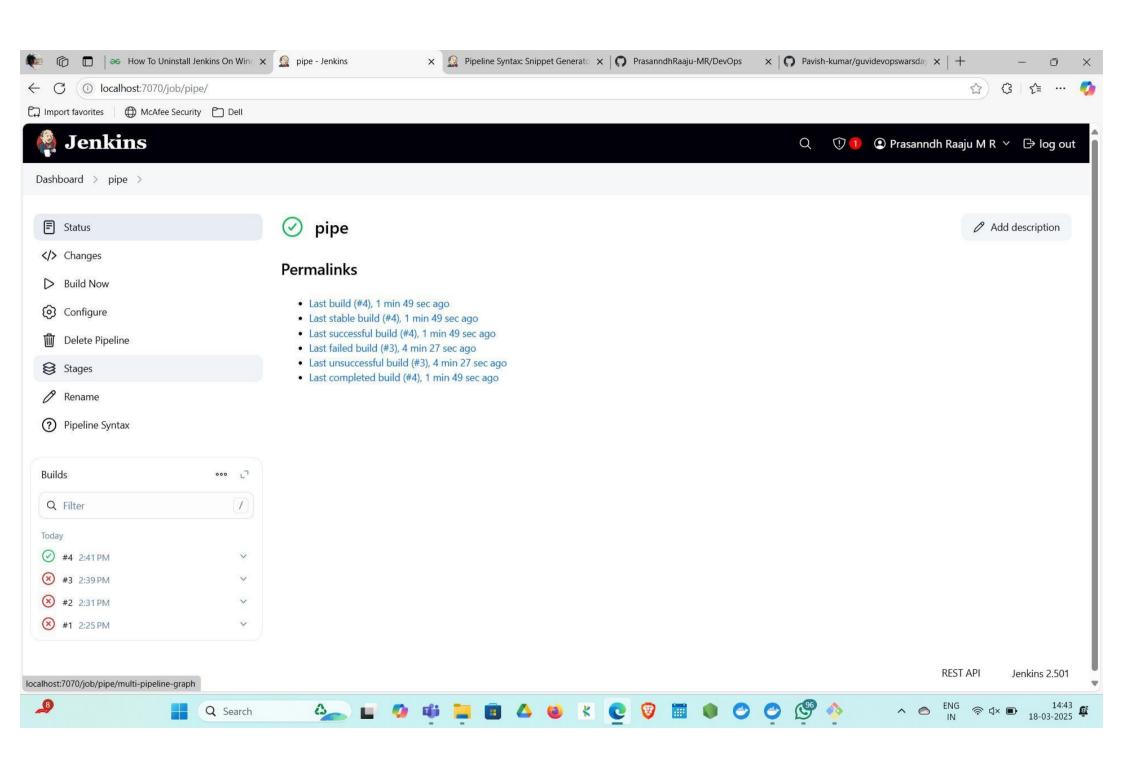
DevOps Day 2 - Automation using Jenkins push image from github to docker hub using jenkins automation

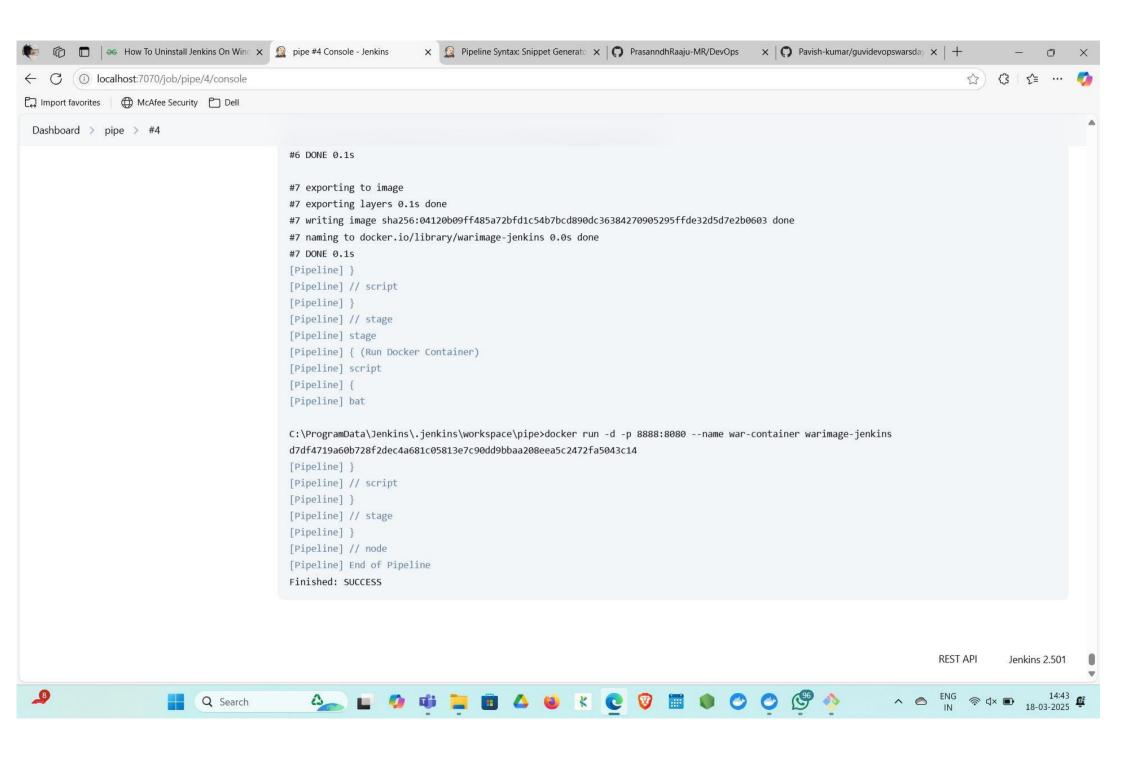












JENKINS

docker

Jenkins is an open-source automation tool written in Java programming language that allows continuous integration. Jenkins offers a straightforward way to set up a continuous integration or continuous delivery environment for almost any combination of languages and source code repositories using pipelines, as well as automating other routine development tasks.

The following are the main or most popular Jenkins use cases:

- Continuous Integration: With Jenkins pipelines, we can achieve CI for both applications and infrastructure as code.
- Continuous Delivery: You can set up well-defined and automated application delivery workflows with Jenkins pipelines.

Jenkins achieves CI (Continuous Integration) and CD (Continuous Deployment) with the help of plugins. Plugins are used to allow the integration of various DevOps stages. If you want to integrate a particular tool, you must install the plugins for that tool.

```
# sudo apt install docker.io -y
# sudo service docker restart
# sudo service docker status
# sudo usermod -aG docker $USER
docker images
docker ps
# sudo chmod 666 /var/run/docker.sock
curl -LO https://dl.k8s.io/release/v1.32.0/bin/linux/amd64/kubectl
sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
chmod +x kubectl
mkdir -p ~/.local/bin
my ./kubectl ~/.local/bin/kubectl
kubectl version -client
udo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
chmod +x kubectl
mkdir -p ~/.local/bin
mv ./kubectl ~/.local/bin/kubectl
kubectl version -client
Pipeline code
pipeline {
  agent any
  tools {maven "maven"}
  stages {
     stage('SCM') {
       steps {
          git branch: 'master', url: 'https://github.com/PrasanndhRaaju-MR/DevOps.git'
     stage('Build') {
       steps {
          sh 'mvn clean package'
```