

REST API Jenkins 2.492.2











































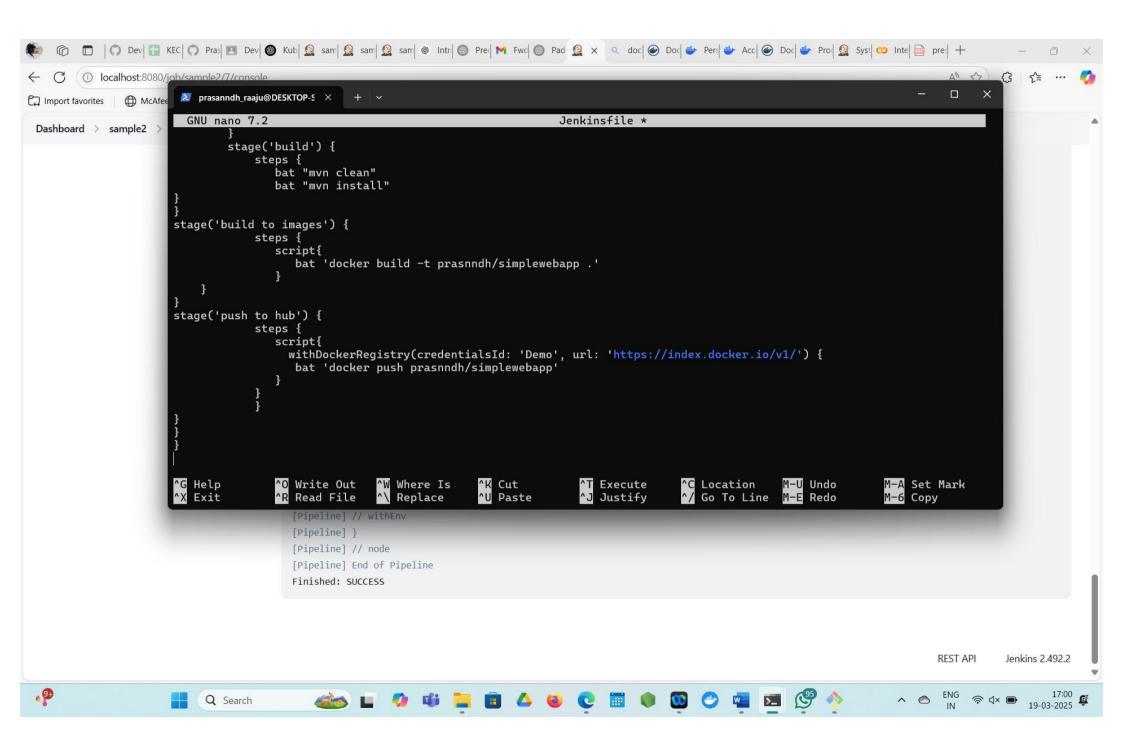


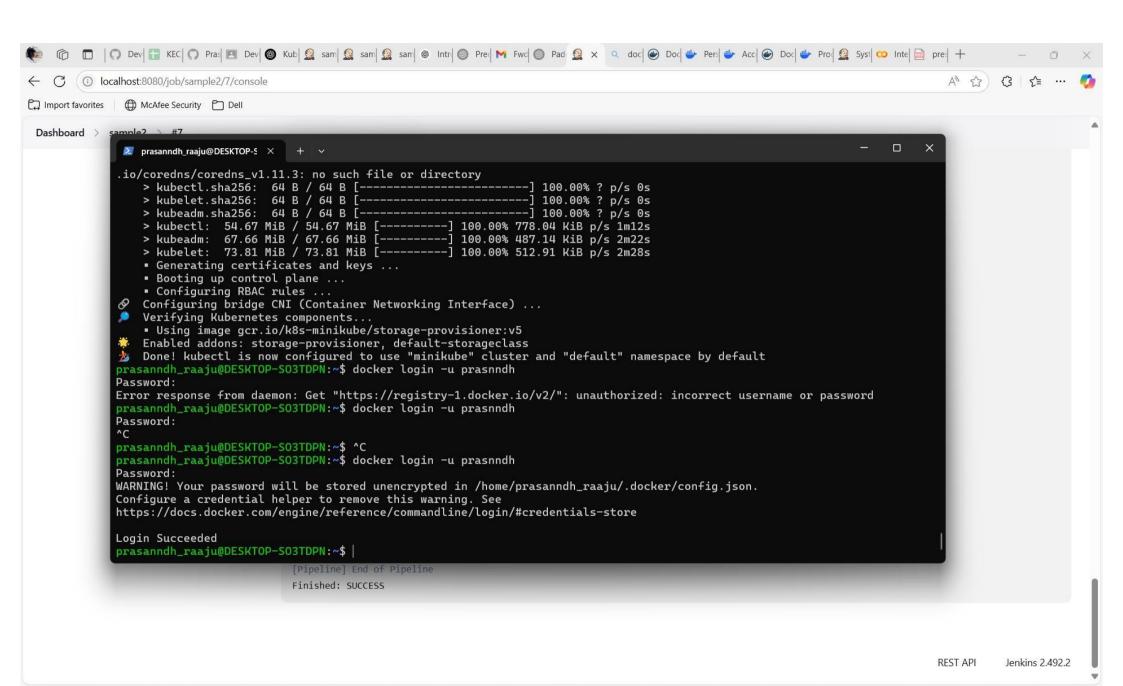
















































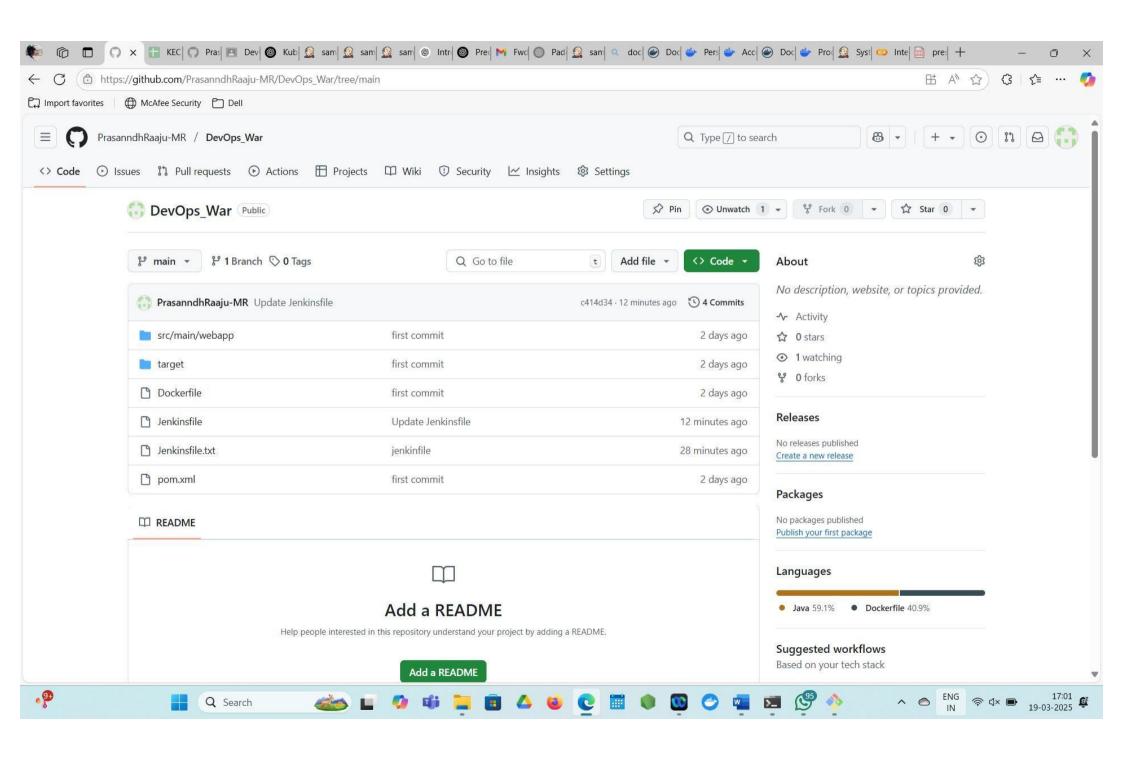








19-03-2025



## DOCKER COMPOSE

Docker Compose is a tool that allows you to define and manage multi-container Docker applications. It simplifies the process of running multiple containers, their configurations, and their interdependencies. Compose uses a YAML file to define the services, networks, and volumes required for your application.

- → Docker Compose is a tool which is used to manage multi container-based applications.
- →Using Docker Compose we can easily setup & deploy multi container-based applications.
- →We will give containers information to Docker Compose using YML file (docker-compose.yml)
- → Docker Compose YML should have all the information related to containers creation.

sudo apt install fontconfig openjdk-17-jre java -version

enkins.io/doc/book/installing/linux/#debianubuntu

https://www.jenkins.io/doc/book/installing/linux/#debianubuntu

sudo service Jenkins restart sudo service Jenkins status

docker

# 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

## **Kubernetes Installation:**

https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/

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

kubectl version -client

https://minikube.sigs.k8s.io/docs/start/?arch=%2Fwindows%2Fx86-64%2Fstable%2F.exe+download

curl -LO https://github.com/kubernetes/minikube/releases/latest/download/minikube-linux-amd64 sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64

```
minikube start
minikube status
kubectl get pod
kubeclt get deploy
kubectl get replica
kubectl get pod -o wide
MySQL with K8s
version: '3'
services:
 web:
  image: nginx:latest
  ports:
   - 80:80
 db:
  image: mysql:latest
  environment:
   - MYSQL_ROOT_PASSWORD=secret
docker exec -it david-db-1 /bin/bash
mysql -u root -p
sudo apt install docker-compose -y
download docker compose
```

sudo curl -L "https://github.com/docker/compose/releases/latest/download/docker-compose-\$(uname -s)-\$(uname -m)" -o /usr/local/bin/docker-compose

Ubuntu Directory: /var/lib/jenkins/workspace/maven/target/my-app.war