```
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 5.15.146.1-microsoft-standard-WSL2 x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

 System information as of Thu Mar 20 04:35:53 UTC 2025

  System load:  0.0                Processes:              65
  Usage of /:   0.6% of 1006.85GB  Users logged in:        0
  Memory usage: 14%                IPv4 address for eth0:  172.20.128.11
  Swap usage:   0%

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

This message is shown once a day. To disable it please create the
/home/nandhu2645/.hushlogin file.
nandhu2645@LAPTOP-1TVBND2B:~$ minikube start
😄  minikube v1.35.0 on Ubuntu 24.04 (amd64)
✨  Using the docker driver based on existing profile
👍  Starting "minikube" primary control-plane node in "minikube" cluster
🚜  Pulling base image v0.0.46 ...
🔄  Restarting existing docker container for "minikube" ...
🔥  Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔎  Verifying Kubernetes components...
    ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟  Enabled addons: storage-provisioner, default-storageclass
🏄  Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
```

Configure

- ⚙ General
- 🕑 Triggers
- 🔀 Pipeline
- 🔧 Advanced

Repositories ?

Repository URL ?

https://github.com/nandhu6804/devops_main.git

Credentials ?

tomcattoken/******

+ Add

Advanced ∨

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/master

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add ∨

Script Path ?

Jenkinsfile

Console Output

Download Copy View as plain text

```
Started by user Nandhitha Prakasan
Obtained Jenkinsfile from git https://github.com/nandhu6804/devops_main.git
[Pipeline] Start of Pipeline
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Status
Changes
Console Output
Edit Build Information
Delete build '#17'
Replay
Pipeline Steps
Workspaces
← Previous Build

#17 (Mar 19, 2025, 5:54:56 PM)

Add description Keep this build forever

Started by user Nandhitha Prakasan

No changes.

Started 55 sec ago
Took 3 sec

Status
Changes
Console Output
Edit Build Information
Delete build '#17'
Replay
Pipeline Steps
Workspaces
← Previous Build

MINIKUBE

-->

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

-->

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

docker ps (check is container is running)

kubectl get node

kubectl get pod (No resources found)

kubectl get pod -o wide (No resources found)

minikube status

kubeclt get deploy

kubectl get replica


JENKINSFILE:

version: '3'


services:
  web:
    image: nginx:latest
    ports:
      - 80:80


  db:
    image: mysql:latest
```

```
environment:

    - MYSQL_ROOT_PASSWORD=secret
```

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

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