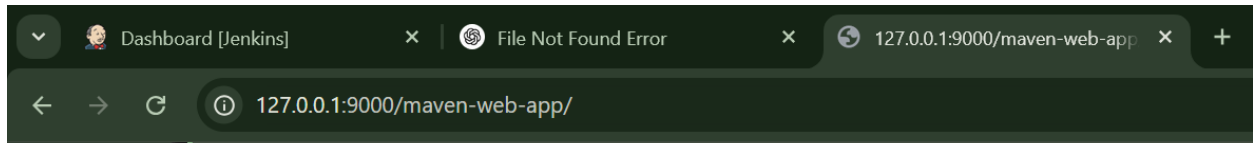


JAVA APPLICATION MINIKUBE DEPLOYMENT



Hello World!

```
service/my-service created
ubuntu@DESKTOP-MJGHIPO:~$ minikube service my-service

```

NAMESPACE	NAME	TARGET PORT	URL
default	my-service	9000	http://192.168.49.2:30002

```

🌟 Starting tunnel for service my-service.
docker@127.0.0.1's password: |-----|-----|-----|-----|

```

NAMESPACE	NAME	TARGET PORT	URL
default	my-service		http://127.0.0.1:37003

```

🌈 Opening service default/my-service in default browser...
👉 http://127.0.0.1:37003
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.

👋 Stopping tunnel for service my-service.
ubuntu@DESKTOP-MJGHIPO:~$ kubectl port-forward svc/my-service 9000:9000
Forwarding from 127.0.0.1:9000 -> 8080
Forwarding from [::1]:9000 -> 8080
Handling connection for 9000
Handling connection for 9000
Handling connection for 9000
Handling connection for 9000

```

DEPLOYMENT.YML

apiVersion: apps/v1

kind: Deployment

metadata:

name: my-deploy

labels:

name: my-deploy

spec:

replicas: 1

selector:

matchLabels:

apptype: web-backend

strategy:

type: RollingUpdate

template:

metadata:

labels:

apptype: web-backend

spec:

containers:

- name: my-app

image: nithya216/image1:latest

ports:

- containerPort: 9000

apiVersion: v1

kind: Service

metadata:

name: my-service

labels:

app: my-service

spec:

type: NodePort

ports:

- port: 9000

targetPort: 8080

nodePort: 30002

selector:

apptype: web-backend

The screenshot shows the Jenkins web interface in a browser. The address bar indicates the URL is `localhost:8080/job/mvn/1/console`. The Jenkins logo and user name 'Nithyaramesh' are visible in the top navigation bar. The breadcrumb trail shows the path: Dashboard > mvn > #1 > Console Output. On the left sidebar, the 'Console Output' option is selected. The main content area displays the build's console output, which includes the following text:

```
Started by user Nithyaramesh
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/mvn
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/nithyasandhu/devops.git
> git init /var/lib/jenkins/workspace/mvn # timeout=10
Fetching upstream changes from https://github.com/nithyasandhu/devops.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
```

At the bottom of the screen, the Windows taskbar is visible, showing the search bar, task icons, and system tray with the date and time (2:42 PM, 3/19/2025).

```
^Cubuntu@DESKTOP-MJGHIPO:~$ cat deploy.yml
```

```
apiVersion: apps/v1
```

```
kind: Deployment
```

```
metadata:
```

```
  name: my-deploy
```

```
  labels:
```

```
    name: my-deploy
```

```
spec:
```

```
  replicas: 1
```

```
  selector:
```

```
    matchLabels:
```

```
      apptype: web-backend
```

```
  strategy:
```

```
    type: RollingUpdate
```

```
  template:
```

```
    metadata:
```

```
      labels:
```

```
        apptype: web-backend
```

```
    spec:
```

```
      containers:
```

```
        - name: my-app
```

```
          image: nithya216/image1:latest
```

```
          ports:
```

```
            - containerPort: 9000
```

```
---
```

```
apiVersion: v1
```

```
kind: Service
```

```
metadata:
```

```
  name: my-service
```

```
  labels:
```

```
    app: my-service
```

```
ubuntu@DESKTOP-MJGHIPO: ~$ sudo apt install grafana
Setting up grafana (11.5.2) ...
info: Selecting UID from range 100 to 999 ...

info: Adding system user 'grafana' (UID 107) ...
info: Adding new user 'grafana' (UID 107) with group 'grafana'....
info: Not creating home directory '/usr/share/grafana'.
### NOT starting on installation, please execute the following statements to configure grafana to start automatically using systemd
sudo /bin/systemctl daemon-reload
sudo /bin/systemctl enable grafana-server
### You can start grafana-server by executing
sudo /bin/systemctl start grafana-server
Processing triggers for man-db (2.12.0-4build2) ...
Synchronizing state of grafana-server.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable grafana-server
Created symlink /etc/systemd/system/multi-user.target.wants/grafana-server.service → /usr/lib/systemd/system/grafana-server.service.
■ grafana-server.service - Grafana instance
   Loaded: loaded (/usr/lib/systemd/system/grafana-server.service; vendor preset: enabled)
   Active: active (running) since Sat 2025-03-22 08:29:35 UTC; 1min 10s ago
     Docs: http://docs.grafana.org
   Main PID: 35977 ((grafana))
    Tasks: 1 (limit: 9337)
   Memory: 256.0K
   CGroup: /system.slice/grafana-server.service
           └─35977 "(grafana)"

Mar 22 08:29:35 DESKTOP-MJGHIPO systemd[1]: Started grafana-server.
ubuntu@DESKTOP-MJGHIPO: ~$
```

```

ubuntu@DESKTOP-MJGHIPO: ~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

ubuntu@DESKTOP-MJGHIPO: ~$ sudo useradd \
--system \
--no-create-home \
--shell /bin/false prometheus
[sudo] password for ubuntu:
useradd: user 'prometheus' already exists

ubuntu@DESKTOP-MJGHIPO: ~$ wget https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-2.47.1.linux-amd64.tar.gz
prometheus-2.47.1.linux-amd64.tar.gz
tar -xvf prometheus-2.47.1.linux-amd64.tar.gz
sudo mkdir -p /data /etc/prometheus
cd prometheus-2.47.1.linux-amd64/
sudo mv prometheus promtool /usr/local/bin/
sudo mv consoles/ console_libraries/ /etc/prometheus/
sudo mv prometheus.yml /etc/prometheus/prometheus.yml
sudo chown -R prometheus:prometheus /etc/prometheus/ /data/
--2025-03-22 08:20:55-- https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-2.47.1.linux-amd64.tar.gz
Resolving github.com (github.com)... 20.207.73.82
Connecting to github.com (github.com)|20.207.73.82|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-2e6
82fd743?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F
X-Amz-Date=20250322T082056Z&X-Amz-Expires=300&X-Amz-Signature=8b1e12d49cf5eced2941f

```

```
Resolving github.com (github.com)... 20.207.73.82
Connecting to github.com (github.com)|20.207.73.82|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/6838921/2f9b7b37-63a0-428b-adb5-02944
32fd743?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250322%2Fus-east-1%2Fs3%2Faws4_request&
X-Amz-Date=20250322T082056Z&X-Amz-Expires=300&X-Amz-Signature=8b1e12d49cf5eced2941f037205aea81a07d8b2204e2e8fb1d193395c96d2b
e2&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dprometheus-2.47.1.linux-amd64.tar.gz&res
ponse-content-type=application%2Foctet-stream [following]
--2025-03-22 08:20:55-- https://objects.githubusercontent.com/github-production-release-asset-2e65be/6838921/2f9b7b37-63a0-
428b-adb5-0294482fd743?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250322%2Fus-east-1%2Fs3%
2Faws4_request&X-Amz-Date=20250322T082056Z&X-Amz-Expires=300&X-Amz-Signature=8b1e12d49cf5eced2941f037205aea81a07d8b2204e2e8f
b1d193395c96d2be2&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dprometheus-2.47.1.linux-a
md64.tar.gz&response-content-type=application%2Foctet-stream
Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.108.133, 185.199.110.133, 185.199.109.133
...
Connecting to objects.githubusercontent.com (objects.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 95713066 (91M) [application/octet-stream]
Saving to: 'prometheus-2.47.1.linux-amd64.tar.gz'

prometheus-2.4 100%[====>] 91.28M  4.54MB/s   in 33s

2025-03-22 08:21:29 (2.80 MB/s) - 'prometheus-2.47.1.linux-amd64.tar.gz' saved [95713066/95713066]

prometheus-2.47.1.linux-amd64/
prometheus-2.47.1.linux-amd64/LICENSE
prometheus-2.47.1.linux-amd64/NOTICE
prometheus-2.47.1.linux-amd64/prometheus.yml
prometheus-2.47.1.linux-amd64/consoles/
prometheus-2.47.1.linux-amd64/consoles/prometheus.html
prometheus-2.47.1.linux-amd64/consoles/prometheus-overview.html
```

🔍 🔒 1 👤 Nithyaramesh 📄 log out

🟢 Console Output

Download

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Started by user [Nithyaramesh](#)

Obtained Jenkinsfile from git <https://github.com/nithyasandhu/devops.git>

[Pipeline] Start of Pipeline

[Pipeline] node

Running on [Jenkins](#) in /var/lib/jenkins/workspace/simpletomcatapp

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Declarative: Checkout SCM)

[Pipeline] checkout

Selected Git installation does not exist. Using Default

The recommended git tool is: NONE

No credentials specified

> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/simpletomcatapp/.git # timeout=10

Fetching changes from the remote Git repository

> git config remote.origin.url <https://github.com/nithyasandhu/devops.git> # timeout=10

Fetching upstream changes from <https://github.com/nithyasandhu/devops.git>

> git --version # timeout=10

> git --version # 'git version 2.43.0'

> git fetch --tags --force --progress -- <https://github.com/nithyasandhu/devops.git> +refs/heads/*:refs/remotes/origin/* #

🔍 Search

ENG IN 🔊 🔌 4:25 PM 3/19/2025 🔔

localhost:7070/job/nginx4/1/console

Jenkins

Dashboard > nginx4 > #1

Status Console Output Changes Edit Build Information Delete build '#1' Timings Git Build Data Pipeline Overview

Console Output

Download Copy View as plain text

```
Started by user Nithya
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\.jenkins\workspace\nginx4
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Hello)
[Pipeline] git
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
```

Sign in - J... System » C... pipeline C... pipeline #... Pipeline S... nithya216... Fwd: - nith... Docker H...

hub.docker.com/repositories/nithya216

dockerhub

Explore My Hub Search Docker Hub ctrl+K

nithya216 Docker Personal

Repositories

All repositories within the nithya216 namespace.

Search by repository name All content Create a repository

Name	Last Pushed	Contains	Visibility	Scout
nithya216/image1	10 minutes ago	IMAGE	Public	Inactive

1-1 of 1

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```
🌟 Enabled addons: storage-provisioner, default-storageclass
🏃 Done! kubectl is now configured to use "minikube" cluster
ubuntu@DESKTOP-MJGHIPO:~$ 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"
🚗 Pulling base image v0.0.46 ...
🏃 Updating the running docker "minikube" container ...
🌐 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔍 Verifying Kubernetes components...
   ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v1
🌟 Enabled addons: default-storageclass, storage-provisioner
🏃 Done! kubectl is now configured to use "minikube" cluster
ubuntu@DESKTOP-MJGHIPO:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

ubuntu@DESKTOP-MJGHIPO:~$ kubectl get pod
No resources found in default namespace.
ubuntu@DESKTOP-MJGHIPO:~$ kubectl get deploy
Command 'kubectl' not found, did you mean:
```