```
pipeline {

    agent any


    stages {

        stage('SCM') {

            steps {

                git branch: 'main', url: 'https://github.com/Maahij2004/web-app.git'

            }

        }

        stage('Build-clean') {

            steps{

                sh 'mvn clean'

            }

        }

            stage('Build-validate') {

            steps{

                        sh 'mvn validate'

            }

        }

            stage('Build-compile') {

            steps{

                        sh 'mvn compile'

            }

        }

            stage('Build-test') {

            steps{

                        sh 'mvn test'

            }
```

```
        }
            stage('Build-package') {
        steps{
                    sh 'mvn package'
        }
    }
    stage('build to images') {
        steps {
        script{
            sh "docker build -t maahij14/simplewebapp2 ."
        }
        }
    }
    stage('docker push hub') {
        steps {
        script{
            withDockerRegistry(credentialsId: 'docker_cred', url: 'https://index.docker.io/v1/') {
            sh 'docker push maahij14/simplewebapp2'
        }
        }
        }


    }
    stage('deploy') {
        steps {
        script{
            withKubeCredentials(kubectlCredentials: [[caCertificate: '', clusterName: 'minikube',
contextName: 'minikube', credentialsId: 'cred_1', namespace: '', serverUrl:
'https://192.168.39.226:8443']]) {
```

```
sh 'kubectl apply -f deploy.yml --validate=false'

        }

                }

                }

                }


        }



}
```
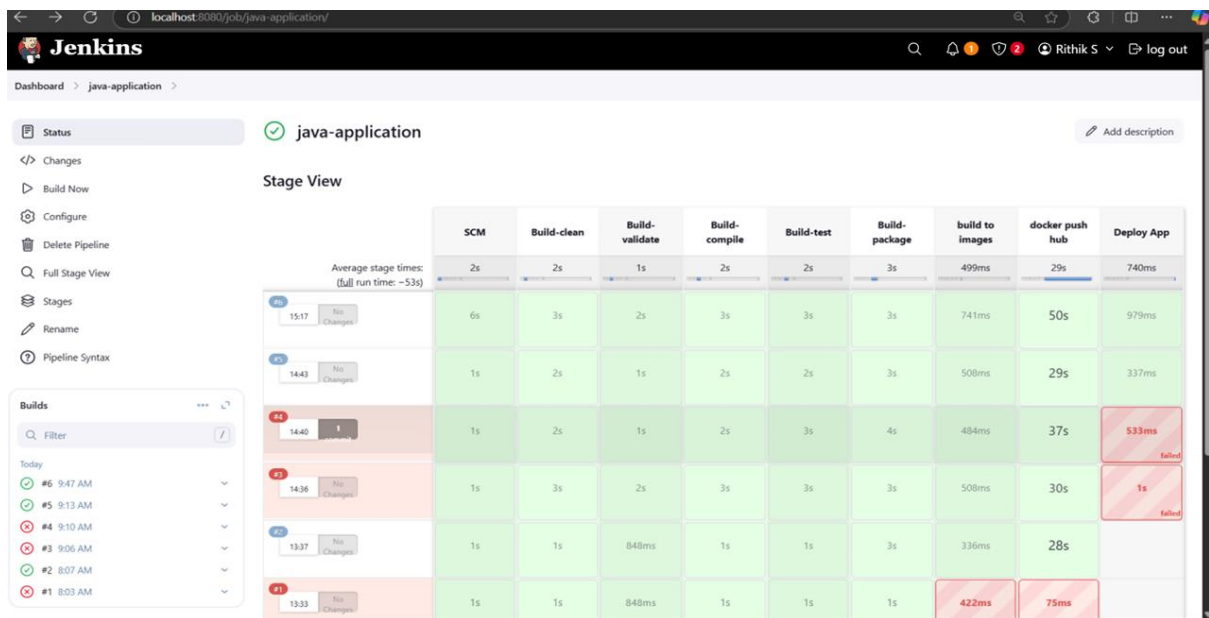
All Bookmarks

Hello World!


```
pcubuntu@PraneshPC: ~/.kut
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: default-storageclass, storage-provisioner
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
rithik@RITHIK: :~/.kube$ kubectl get pod
NAME                          READY   STATUS    RESTARTS       AGE
my-app                        1/1     Running   1 (127m ago)   5h8m
my-deploy-795d5b5d8c-tpm7h    1/1     Running   0              58m
my-pod                        1/1     Running   1 (127m ago)   5h19m
rithik@RITHIK: :~/.kube$ 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.
|-----------|------------|-------------|-------------------------|
| NAMESPACE |    NAME    | TARGET PORT |           URL           |
|-----------|------------|-------------|-------------------------|
|  default  | my-service |             |   http://127.0.0.1:34781 |
|-----------|------------|-------------|-------------------------|
🎉  Opening service default/my-service in default browser...
👉  http://127.0.0.1:34781
❗  Because you are using a Docker driver on linux, the terminal needs to be open to run it.
^C🛑  Stopping tunnel for service my-service.
rithik@RITHIK: :~/.kube$ curl  http://192.168.49.2:30002
<!doctype html><html lang="en"><head><title>HTTP Status 404 – Not Found</title><style type="text/css">body {font-family:Tahoma,Arial,sans-serif;
} h1, h2, h3, b {color:white;background-color:#525D76;} h1 {font-size:22px;} h2 {font-size:16px;} h3 {font-size:14px;} p {font-size:12px;} a {co
lor:black;} .line {height:1px;background-color:#525D76;border:none;}</style></head><body><h1>HTTP Status 404 – Not Found</h1><hr class="line" />
<p><b>Type</b> Status Report</p><p><b>Description</b> The origin server did not find a current representation for the target resource or is not
willing to disclose that one exists.</p><hr class="line" /><h3>Apache Tomcat/9.0.102</h3></body></html>pcubuntu@PraneshPC:~/.kube$ ^C
rithik@RITHIK: :~/.kube$ curl  http://192.168.49.2:30002/my-app/
<html>
<body>
<h2>Hello World!</h2>
</body>
</html>
```

```
pcubuntu@PraneshPC:~$ sudo apt-get install -y apt-transport-https software-properties-common
wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -
echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee -a /etc/apt/sources.list.d/grafana.list
sudo apt-get update
sudo apt-get -y install grafana
sudo systemctl enable grafana-server
sudo systemctl start grafana-server
sudo systemctl status grafana-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  python3-software-properties
The following NEW packages will be installed:
  apt-transport-https
The following packages will be upgraded:
  python3-software-properties software-properties-common
2 upgraded, 1 newly installed, 0 to remove and 104 not upgraded.
Need to get 33.7 kB/48.1 kB of archives.
After this operation, 35.8 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/universe amd64 apt-transport-https all 2.7.14build2 [3974 B]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 python3-software-properties all 0.99.49.1 [29.7 kB]
Fetched 33.7 kB in 1s (22.6 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 46970 files and directories currently installed.)
Preparing to unpack .../apt-transport-https_2.7.14build2_all.deb ...
Unpacking apt-transport-https (2.7.14build2) ...
Preparing to unpack .../software-properties-common_0.99.49.1_all.deb ...
Unpacking software-properties-common (0.99.49.1) over (0.99.48) ...
Preparing to unpack .../python3-software-properties_0.99.49.1_all.deb ...
Unpacking python3-software-properties (0.99.49.1) over (0.99.48) ...
Setting up apt-transport-https (2.7.14build2) ...
Setting up python3-software-properties (0.99.49.1) ...
Setting up software-properties-common (0.99.49.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for dbus (1.14.10-4ubuntu4.1) ...
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
deb https://packages.grafana.com/oss/deb stable main
Ign:1 https://pkg.jenkins.io/debian-stable binary/ InRelease
```

```
    -f, --inactive INACTIVE        password inactivity period of the new account
    -F, --add-subids-for-system    add entries to sub[ud]id even when adding a system user
    -g, --gid GROUP                name or ID of the primary group of the new
                                   account
    -G, --groups GROUPS            list of supplementary groups of the new
                                   account
    -h, --help                     display this help message and exit
    -k, --skel SKEL_DIR            use this alternative skeleton directory
    -K, --key KEY=VALUE            override /etc/login.defs defaults
    -l, --no-log-init              do not add the user to the lastlog and
                                   faillog databases
    -m, --create-home              create the user's home directory
    -M, --no-create-home           do not create the user's home directory
    -N, --no-user-group            do not create a group with the same name as
                                   the user
    -o, --non-unique               allow to create users with duplicate
                                   (non-unique) UID
    -p, --password PASSWORD        encrypted password of the new account
    -r, --system                   create a system account
    -R, --root CHROOT_DIR          directory to chroot into
    -P, --prefix PREFIX_DIR        prefix directory where are located the /etc/* files
    -s, --shell SHELL              login shell of the new account
    -u, --uid UID                  user ID of the new account
    -U, --user-group               create a group with the same name as the user
    -Z, --selinux-user SEUSER      use a specific SEUSER for the SELinux user mapping
        --extrausers               Use the extra users database
pcubuntu@PraneshPC:~$ wget https://github.com/prometheus/prometheus/releases/download/v2.47.1/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 06:29:34--  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-2e65be/6838921/2f9b7b37-63a0-428b-adb5-0294482fd743?X-Amz-Algori
```

```
Starting tunnel for service my-service.
|-----------|------------|--------------|------------------------|
| NAMESPACE |    NAME    | TARGET PORT  |          URL           |
|-----------|------------|--------------|------------------------|
|  default  | my-service |              | http://127.0.0.1:43755 |
|-----------|------------|--------------|------------------------|
🎉 Opening service default/my-service in default browser...
👉 http://127.0.0.1:43755
❗ Because you are using a Docker driver on linux, the terminal needs to be open to run it.
^C🖐 Stopping tunnel for service my-service.
pcubuntu@PraneshPC:~$ 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.
|-----------|------------|--------------|------------------------|
| NAMESPACE |    NAME    | TARGET PORT  |          URL           |
|-----------|------------|--------------|------------------------|
|  default  | my-service |              | http://127.0.0.1:36329 |
|-----------|------------|--------------|------------------------|
🎉 Opening service default/my-service in default browser...
👉 http://127.0.0.1:36329
❗ Because you are using a Docker driver on linux, the terminal needs to be open to run it.
^C🖐 Stopping tunnel for service my-service.
pcubuntu@PraneshPC:~$ kubectl delete all --all
pod "my-app" deleted
pod "my-deploy-795d5b5d8c-tpm7h" deleted
pod "my-pod" deleted
service "kubernetes" deleted
service "my-service" deleted
deployment.apps "my-deploy" deleted
pcubuntu@PraneshPC:~$ sudo apt update
[sudo] password for pcubuntu:
Sorry, try again.
[sudo] password for pcubuntu:
sudo: 1 incorrect password attempt
pcubuntu@PraneshPC:~$ sudo useradd \
    --system \
```

```
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
prometheus-2.47.1.linux-amd64/consoles/node-cpu.html
prometheus-2.47.1.linux-amd64/consoles/index.html.example
prometheus-2.47.1.linux-amd64/consoles/node.html
prometheus-2.47.1.linux-amd64/consoles/node-disk.html
prometheus-2.47.1.linux-amd64/consoles/node-overview.html
prometheus-2.47.1.linux-amd64/promtool
prometheus-2.47.1.linux-amd64/console_libraries/
prometheus-2.47.1.linux-amd64/console_libraries/prom.lib
prometheus-2.47.1.linux-amd64/console_libraries/menu.lib
prometheus-2.47.1.linux-amd64/prometheus
chown: invalid user: 'prometheus:prometheus'
pcubuntu@PraneshPC:~/prometheus-2.47.1.linux-amd64$ cd
rm -rf prometheus-2.47.1.linux-amd64.tar.gz
prometheus --version
prometheus, version 2.47.1 (branch: HEAD, revision: c4d1a8beff37cc004f1dc4ab9d2e73193f51aaeb)
  build user:       root@4829330363be
  build date:       20231004-10:31:16
  go version:       go1.21.1
  platform:         linux/amd64
  tags:             netgo,builtinassets,stringlabels
pcubuntu@PraneshPC:~$ sudo vim /etc/systemd/system/prometheus.service
pcubuntu@PraneshPC:~$ sudo systemctl enable prometheus
sudo systemctl start prometheus
sudo systemctl status prometheus
journalctl -u prometheus -f --no-pager
Created symlink /etc/systemd/system/multi-user.target.wants/prometheus.service → /etc/systemd/system/prometheus.service.
● prometheus.service - Prometheus
     Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
     Active: activating (auto-restart) (Result: exit-code) since Sat 2025-03-22 06:40:08 UTC; 60ms ago
    Process: 43366 ExecStart=/usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --storage.tsdb.path=/data --web.console.temp
   Main PID: 43366 (code=exited, status=217/USER)

Mar 22 06:40:08 PraneshPC systemd[1]: prometheus.service: Failed with result 'exit-code'.
...skipping...
● prometheus.service - Prometheus
```

```
pcubuntu@PraneshPC:~$ sudo apt-get install -y apt-transport-https software-properties-common
wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -
echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee -a /etc/apt/sources.list.d/grafana.list
sudo apt-get update
sudo apt-get -y install grafana
sudo systemctl enable grafana-server
sudo systemctl start grafana-server
sudo systemctl status grafana-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
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Need to get 33.7 kB/48.1 kB of archives.
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Unpacking software-properties-common (0.99.49.1) over (0.99.48) ...
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Setting up apt-transport-https (2.7.14build2) ...
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Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
deb https://packages.grafana.com/oss/deb stable main
Ign:1 https://pkg.jenkins.io/debian-stable binary/ InRelease
```

Skip to content

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🔍 🔔**2** ⛊**1** 👤 Rithik ∨ 🡢 log out

Dashboard ›

+ New Item

🖼 Build History

⚙ Manage Jenkins

⬜ My Views

Build Queue ∨

No builds in the queue.

Build Executor Status 0/2 ∨

| All | + |

S	W	Name ↓	Last Success	Last Failure	Last Duration		Coverage
⊘	☔	java-application	6 min 17 sec #7	20 min #5	27 sec	▷	n/a
⊘	☀	maven	1 day 23 hr #1	N/A	1 min 34 sec	▷	n/a
⊘	☀	samplewsl	22 hr #15	1 day 20 hr #10	43 sec	▷	n/a

Icon: S M L

∘∘∘

REST API   Jenkins 2.492.2

localhost:8080/#skip2content