```
CONTAINER ID   IMAGE     COMMAND    CREATED    STATUS     PORTS       NAMES
root@LAPTOP-RQFUSG3F:~# sudo chmod 666 /var/run/docker.sock
root@LAPTOP-RQFUSG3F:~# sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
root@LAPTOP-RQFUSG3F:~# chmod +x kubectl
root@LAPTOP-RQFUSG3F:~# mkdir -p ~/.local/bin
root@LAPTOP-RQFUSG3F:~# mv ./kubectl ~/.local/bin/kubectl
root@LAPTOP-RQFUSG3F:~# kubectl version --client
Client Version: v1.32.3
Kustomize Version: v5.5.0
root@LAPTOP-RQFUSG3F:~#
root@LAPTOP-RQFUSG3F:~# sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
install: cannot stat 'kubectl': No such file or directory
root@LAPTOP-RQFUSG3F:~# sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64
root@LAPTOP-RQFUSG3F:~# minikube start
😄  minikube v1.35.0 on Ubuntu 20.04 (amd64)
✨  Using the none driver based on existing profile
👍  Starting "minikube" primary control-plane node in "minikube" cluster
🔄  Restarting existing none bare metal machine for "minikube" ...

💢  Exiting due to NOT_FOUND_CRI_DOCKERD:

💡  Suggestion:

    The none driver with Kubernetes v1.24+ and the docker container-runtime requires cri-dockerd.

    Please install cri-dockerd using these instructions:

    https://github.com/Mirantis/cri-dockerd

root@LAPTOP-RQFUSG3F:~#
```

```
sam_13@LAPTOP-RQFUSG3F:~$ 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 ...
🏃  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:v5
🌟  Enabled addons: storage-provisioner, default-storageclass
🎉  Done! kubectl is now configured to use "minikube" cluster an
d "default" namespace by default
sam_13@LAPTOP-RQFUSG3F:~$ sudo systemctl restart ssh.service
sudo systemctl restart sshd.service
[sudo] password for sam_13:
Unknown command verb 'restart sshd.service'.
sam_13@LAPTOP-RQFUSG3F:~$ sudo apt update
sudo apt install openssh-server
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
129 packages can be upgraded. Run 'apt list --upgradable' to see
 them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:9.6p1-3ubuntu13.
8).
0 upgraded, 0 newly installed, 0 to remove and 129 not upgraded.
sam_13@LAPTOP-RQFUSG3F:~$ sudo systemctl restart ssh
```

```
 ls /usr/lib/systemd/system/sshd.service
ls: cannot access 'or': No such file or directory
ls: cannot access 'ls': No such file or directory
ls: cannot access '/usr/lib/systemd/system/sshd.service': No suc
h file or directory
/etc/systemd/system/sshd.service
sam_13@LAPTOP-RQFUSG3F:~$ ls /etc/systemd/system/sshd.service
/etc/systemd/system/sshd.service
sam_13@LAPTOP-RQFUSG3F:~$ ls /usr/lib/systemd/system/sshd.servic
e
ls: cannot access '/usr/lib/systemd/system/sshd.service': No suc
h file or directory
sam_13@LAPTOP-RQFUSG3F:~$ sudo systemctl daemon-reload
sam_13@LAPTOP-RQFUSG3F:~$ sudo systemctl status ssh
Unknown command verb 'status ssh', did you mean 'status'?
sam_13@LAPTOP-RQFUSG3F:~$ sudo systemctl status
Unknown command verb 'status ', did you mean 'status'?
sam_13@LAPTOP-RQFUSG3F:~$ sudo systemctl restart ssh.service
sam_13@LAPTOP-RQFUSG3F:~$ cd ~/.kube
sam_13@LAPTOP-RQFUSG3F:~/.kube$ sudo systemctl restart ssh.servi
ce
sudo systemctl restart sshd.service
Unknown command verb 'restart sshd.service'.
sam_13@LAPTOP-RQFUSG3F:~/.kube$ sudo apt update
sudo apt install openssh-server
Hit:1 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
129 packages can be upgraded. Run 'apt list --upgradable' to see
 them.
Reading package lists... Done
```

```
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:9.6p1-3ubuntu13.
8).
0 upgraded, 0 newly installed, 0 to remove and 129 not upgraded.
sam_13@LAPTOP-RQFUSG3F:~/.kube$ sudo systemctl restart ssh
Unknown command verb 'restart ssh', did you mean 'restart'?
sam_13@LAPTOP-RQFUSG3F:~/.kube$ sudo systemctl restart ssh
sam_13@LAPTOP-RQFUSG3F:~/.kube$ sudo systemctl status ssh
Unknown command verb 'status ssh', did you mean 'status'?
sam_13@LAPTOP-RQFUSG3F:~/.kube$ sudo systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/usr/lib/systemd/system/ssh.service; enable
d; preset: enabled)
     Active: active (running) since Fri 2025-03-21 06:44:20 UTC;
 37s ago
TriggeredBy: ● ssh.socket
       Docs: man:sshd(8)
             man:sshd_config(5)
    Process: 15332 ExecStartPre=/usr/sbin/sshd -t (code=exited,
status=0/SUCCESS)
   Main PID: 15334 (sshd)
      Tasks: 1 (limit: 4574)
     Memory: 1.2M ()
     CGroup: /system.slice/ssh.service
             └─15334 "sshd: /usr/sbin/sshd -D [listener] 0 of 10
-100 startups"

Mar 21 06:44:20 LAPTOP-RQFUSG3F systemd[1]: Starting ssh.service
 - OpenBSD Secure Shell server...
Mar 21 06:44:20 LAPTOP-RQFUSG3F sshd[15334]: Server listening on
 :: port 22.
Mar 21 06:44:20 LAPTOP-RQFUSG3F systemd[1]: Started ssh.service
 - OpenBSD Secure Shell server.
sam_13@LAPTOP-RQFUSG3F:~/.kube$ sudo systemctl daemon-reload
```

```
sam_13@LAPTOP-RQFUSG3F:~/.kube$ sudo systemctl status ssh
Unknown command verb 'status ssh', did you mean 'status'?
sam_13@LAPTOP-RQFUSG3F:~/.kube$ sudo systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/usr/lib/systemd/system/ssh.service; enable
d; preset: enabled)
     Active: active (running) since Fri 2025-03-21 06:44:20 UTC
 1min 10s ago
TriggeredBy: ● ssh.socket
       Docs: man:sshd(8)
             man:sshd_config(5)
   Main PID: 15334 (sshd)
      Tasks: 1 (limit: 4574)
     Memory: 1.2M ()
     CGroup: /system.slice/ssh.service
             └─15334 "sshd: /usr/sbin/sshd -D [listener] 0 of 10
-100 startups"

Mar 21 06:44:20 LAPTOP-RQFUSG3F systemd[1]: Starting ssh.service
 - OpenBSD Secure Shell server...
Mar 21 06:44:20 LAPTOP-RQFUSG3F sshd[15334]: Server listening on
 :: port 22.
Mar 21 06:44:20 LAPTOP-RQFUSG3F systemd[1]: Started ssh.service
 - OpenBSD Secure Shell server.
sam_13@LAPTOP-RQFUSG3F:~/.kube$ sudo systemctl restart ssh.servi
ce
sam_13@LAPTOP-RQFUSG3F:~/.kube$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

sam_13@LAPTOP-RQFUSG3F:~/.kube$
```
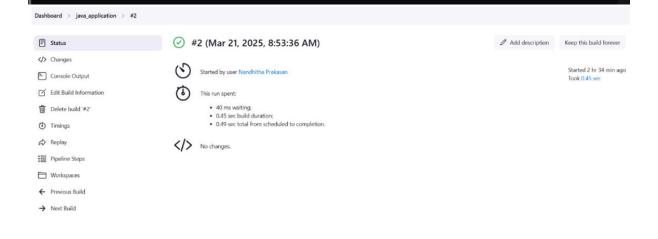
Z1BYTithRFRBcnUvVVg4NUNhM2lsQWJBQ1I5blRwN1FGak4rY1RqUTlUV1NrVERKYlV5SkgkRFZDZklmZHIx
c3ZyNHZIOGtlUHR0VEtaWk9jejIxdE1VenBXRy9QUSt1dEIzcTRhWEZMM2thS2pXeTN2VktCbwo1THI5eEQ3
MEM3S0YyREJzRmZHS3FMOXd6RGExeWl0bmxacUV6QzRtQlp3eFNIaytxbURoQlJFdHFxajJEYk5qCkh3MnFB
bG1LTWJzSG9TeGlLeHVKbTJEbGVYK09QZFA2NGVSOCtKbkVDM1kvOElMeVVramdqMWRTODNQOXlXTEsKWTNB
RzVYZGZkNHpXVmRwcDQ4clpDSEVWTzdtdUFrZEJmUUd5RUdwVTJFU0orV2g4MWc9PQotLS0tLUVORCBDRVJU
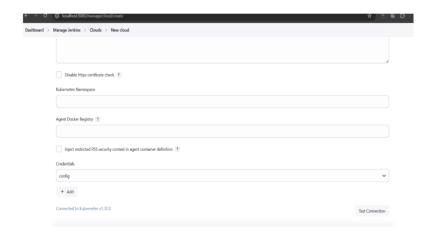SUZJQ0FURS0tLS0tCg==
sam_13@LAPTOP-RQFUSG3F:~$ cat /home/sam_13/.minikube/profiles/minikube/client.key |
base64 -w 0; echo
LS0tLS1CRUdJTiBSU0EgUFJJVkFURSBLRVktLS0tLQpNSUlFb2dJQkFBS0NBUUVBeFNoc3BMSTVWSFhabm14
YVZzjcWZkak5tcW91RUlxa0w2VWh4MU5zc3VOUlJMbXhYzCmFjb1p4UHhSdnhZMFMrdUhYYmmNDT0FhK2FBRmF5
QW1pbTlPY2YVh1VmlwOEtCNXpPZ2cwQ2pTYy84OU1uN3YKczFCMWxKeXVLOVVkNzIwYXXJQbkZxTkhJWjBh
MGxCc2hEMWl3OE84bXFqb0tKZ3NTUTcxbnJrQWFVK1VUMVFraQpVVXpxbDDFyMGo1SEZuSmRCNE1vMmkczYzhE
RkN0V0NYUG5LL0pllUlRPUkRjSTkrdXNTZzZBS3Nic2RQL28rRFd1CjlZcFIwemFvYnR6QklBYStjYlFmN1J4
SGRZT1F2UTM1WG1WRkNjbnZsVDhnaUVxTFMrMmJNRS9pVmthNkh3YzgKSFZzcE1neWZwQVBwYXpDdWZFWHVE
YllMMldMRlpPMK3VVQlY1SndJREFRQUJBb0lCQUMwd043NkQ3dW54M1FBWAptNWpnU1M1QlY3MnRIb3NITGVp
NUp3WC9laitld2tDZWxHV1Y0ZFFwZE44VVNzWS81Slg5TnUvNmM3ZkkzN0xMCnFvNkdzTy9ueGd6QVNxc1JU
UGx2RnQ0L0RRVnpNZWFaKzN5ZzYyYSTFpeUlXeGJhenpoSnBhU2xwYzhKZ0RWR0kkNmtubkxSNzc0V1BReTdT
dWd2QXR3RTdLK0gzVHMyc1BvS29pM3dDSkpySm5JVZ2d3dXV1d0ZQVzZ0S1FhM0RhMQpFZmNQWUJlUlQ3UDZq
V0l1eXNkM0FmbnVTc2gxZUVWUGZKMU11a2o2V1N0NUhmeHFCYURwT2xPNTJnQTVzeEo5Cmhlc2NuTkkwend5
d0YyVFBxNDh6QitEVFI2SXhKeG9RSmpVSzhEV1dGTktmZXpGZVJnaEZ1UG1aR29JNFRxb3YKYThCd3JJoRUNn
WUVBMkpoU0lBLL3dWQ2pxTnFkZkl6Rk9mN2JSZi9MblFYSXpHbFRTK0xVeHp6YWVxc3dvNmtjdjdAppa1Q1ZHRG
a2tBeTdhNGszd3E1R3RVUkRmSUQ2UDVKWXh4ME9RQjJBR2hUTRValI5UjVvaGhmbCtJQmhJM0xEClhGSkFX
VE82S2FoT09tTFo2ZEtjZVJ3WC9MWhzUGtnQ3p5TEZBYVVkbUhkRDRLTFdZSVBUOWtDZ1lFQTZRYlgKZjBC
VVVROUpyUDI0K2JoOS80L2pNVWRtQjc3SWVWNzFPcG83TTRaQU9rQVFyK3FyRUFrS0xEaEQ5aU05WjU5ZApE
cVByaGp6Q09ONG1Qazk5ZnVQcGg3ZXR6ZUdYdVF2QWU3NUlVSmlHT2JHQlUxS0Y3dHpMMU11OHl2RUE4bnNJ
Ci82WHI0WTFWNUk2UVpxOXRuYzJRZGtwV0NqQURPaHY2WXdWV2NQENnWUJRWkhFUEQzdHZjV1JGZHVnY0F1
QVYKRFVGRFVXQStiV25FV3ptWE1JSFZYSHVWLzRNc09kRVFZanVKdTN5czd0emR0Q2VyTGM1MjEyaUpITUpG
dUVjVgpXSmFDZTdDaGZHV2ZDTTFOUXNVZkNGM0dwN2cyVlJGb0FldDZjSFdub3AydWxDUTM0b0ZMZm43MHY5
TkZnYUpBCktXK2h0ak9Db1I1UTlHNU9nYlMzT1FLQmdHVWorQktlUEV2VEM5cE93YU41cFE1d1NGN1NLNEcv
RjhvK0lkZ08KcXhWZzlxMlJzdXgzd1VtVGN0dmdpL2JnTXIyd0dMYkxCT1hkcHpzQmlMM1F5SnB6bDUrMVpI
V1FyY2ErU0F3dAplYnVwaDlDd3IzNFh1bFFEZDJEa0VReFFjR1hPYXdoeTNwK21OWnFmR2lQSGpwOUlZcVJD
MGVaWUVxRTJKWVluCkFlN0hBb0dBSUx6TVZlOFdEUFBBOGhEQitqK1EvUDIvTWJxVVJ3ZVRRdnovZlBqejlj
cVFRZW5tVS8yY3VYYalcKYjlnY0FxZldNSG5nQ2huRjNUNElEeXVleFEzQXdpaVF2c3pGc2ZZdHZHOTlDdUlz
T0dBZ1FIMGdEWXpLSzdDZAozWm8reC95eCt0ckxxtbTdFdWV1UStLUTRoR0UyWWY0KysxV1Y3aGlheFNBQVZQ
bG5WUEE9Ci0tLS0tRU5EIFJTQSBQUklWQVRFIEtFWS0tLS0tCg==
sam_13@LAPTOP-RQFUSG3F:~$

Dashboard > java_application > #2

Status	✓ #2 (Mar 21, 2025, 8:53:36 AM)	Add description Keep this build forever
Changes		
Console Output	🕐 Started by user Nandhitha Prakasan	Started 2 hr 34 min ago
Edit Build Information		Took 0.45 sec
Delete build '#2'	⏱ This run spent:	
Timings	• 40 ms waiting;	
Replay	• 0.45 sec build duration;	
Pipeline Steps	• 0.49 sec total from scheduled to completion.	
Workspaces		
← Previous Build	</> No changes.	
→ Next Build		

☐ Disable https certificate check ?

Kubernetes Namespace

Agent Docker Registry ?

☐ Inject restricted PSS security context in agent container definition ?

Credentials

config ▼

+ Add

Connected to Kubernetes v1.32.0   Test Connection

PIPELINE: pipeline { agent any stages { stage('scm') { steps { git branch: 'master', url:'https://github.com/nandhu6804/devops_main.git' } } stage('builb-clean') { steps { sh "mvn clean" } } stage('build-validate') { steps { sh "mvn validate" } } stage('build-com') { steps { sh "mvn compile" } } stage('build-test') { steps { sh "mvn test" } } stage('build-install') { steps { sh "mvn package" } } stage('build to images') { steps { script{ sh 'docker build -t nandhita22cse126/mysimplewebapp .' } } } stage('push to hub') { steps { script{ withDockerRegistry(credentialsId: 'Docker_cred', url: 'https://index.docker.io/v1/') { sh 'docker push nandhita22cse126/mysimplewebapp' } } } } stage('Deploy App') { steps { withKubeConfig(caCertificate: '', clusterName: 'minikube', contextName: 'minikube', credentialsId: 'mukubeconfig_011', namespace: '', restrictKubeConfigAccess: false, serverUrl: 'https://192.168.49.2:8443') { sh 'kubectl apply -f deployment.yml --validate=false' } } } stage('Test') { steps { withKubeConfig(caCertificate: '', clusterName: 'minikube', contextName: 'minikube', credentialsId: 'mukubeconfig_011', namespace: '', restrictKubeConfigAccess: false, serverUrl: 'https://192.168.49.2:8443') { sh 'minikube service my-service --url | xargs curl' } } } } }