```
maahij@MOHAMEDMAAHIJ:-$ minkube start
minkube: command not found
maahij@MOHAMEDMAAHIJ:-$ minkube start
minkube 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 ...
Prestarting 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
maahij@MOHAMEDMAAHIJ:-$ sudo nano docker-compose.yml
Surry, try again.
                                                                           || IJ:~$ minkube start
 maanij@moHaneUmAaHIJ:-$ is deploy.ynl docker-compose.yaml jenkinsfile my-app ns.yml pod-ns.yml pod.yml rs.yml web-app maahij@moHaMEDMAAHIJ:-$ is deploy.ynl docker-compose.yaml jenkinsfile my-app ns.yml pod-ns.yml pod.yml rs.yml web-app maahij@moHaMEDMAAHIJ:-$ sudo visudo /etc/sudoers:48:28: expected a fully-qualified path name jenkins ALL=(ALL) NOPASSWD: ALL
  What now? ^X^Cvisudo exiting due to signal: Interrupt
maahij@MOHAMEDMAAHIJ:-$ sudo visudo
/etc/sudoers:48:28: expected a fully-qualified path name
jenkins ALL=(ALL) NOPASSWD: ALL
What now? 'Cvisudo exiting due to signal: Interrupt
manhig@MOHAMEDMAAHIJ:-$ sudo visudo
manhig@MOHAMEDMAAHIJ:-$ sudo visudo
manhig@MOHAMEDMAAHIJ:-$ sudo apt update
Ign:1 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 https://pkg.jenkins.io/debian-stable binary/ Release
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble-security/main amd64 Packages [671 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [922 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8960 B]
                  client-key-data:LSOtLS1CRUdJTiBSU0EgUFJJVkFURSBLRVktLSOtLQpNSUlFcFFJQkFBSONBUUVBM09JRXVzZzNFTy9ZTE9rckVhZwNwYUpVMWVSckZYUnJENzZrUS9rdGUrdEFrbkhKCitCeTgz
  TncvM1VEWG9EUW10WGs4VkJ5SE1kWm5uVGpCOHpYZTdLaS9lcVRCbHUzWkYxYŪdSbEFmYmxXŠTVTVVUKdFRhU1hSOVF3WXpraÉZpdzgra2xvYXpWNEt6SU10ZXhEdEE3dGE3WEpXMDlMdTRXZXFabnpkcXbqblNuczJEMAovUjFobldwM2FPd1NlaEU1aUhpS3lnaWu1Tk04Rnk1ZWurMnJrSElXWVZBM2h6a2ZqZ0trRnQzY1hsd3RYYXNHClhQuGR3YklPeTVsR0dIMW10VklOcEtpbnpuTC96amx6UU9WQlZxVjdHU21pc1UvRy9MVzA3OGpRSTRDcVUwcFcKdTVzb0pKUnFDa0lVd1Z6aGtndDlqS25pREl8d25NN2Y4UFl1MXdJREFRQUJBb0lCQUVna2RnRC9kYVROZ1dDaAp3MVJmMXpUdUFTRmZHbTZHZUpWSzRlSGxsNnA2bXJ0
  NStNcFZzSVcrVmdtUXJSeUJDSDRyRjc0dEZ5YVNhVU1iCmo1VTlDaE5ueClwcmQyTXhTzzlxVGk3VzZuMGg2TFZXMkIyVnRsQTk4eVZVUENyUndQSFpPMVpEMmhNb3U3YUgkWmlm0WNSTVZDT1lMZU1sRU1B
bGRJbGZjUi9ibzB00S91L0IrbHU3aHM2VlBvaWt5dG90TzUmN1F3S2FzRjUvawo2TGNtbU5pRE1PejNkL1MmWTNvekJVYzVVTExtNTV0UFExNTFDDFhScjJZNzYrZ1cyQWZMR0xvenVtSXNVR1I1CmJMQUN2
YjhKWHB0MzN3K2M0enIzcW5xYStK0UFsZTUvVVBEMDUmME5neTl5UFFPS2xBaTN0VU1JWDl6Ly94aGQKM3BHbjFsa0NnWUVBNW1HM3hCUWZCdUJTak1QWGVQbzFvR0Excm1heGh3NXhjdnlpamM2RG5BKzNw
  dGFGN21DUAo3RUhzaERmejduR2xPclJtU0hTUm9ZSHAvWVdsaEmwM1E3dHJmcWYyYU9tNE5rUEx6citzWDEvN1M4VWdqdE8zCjVUUFUyNTJBVDFEZERLUkJudVRvcGljUTBmMHBDR3dFTUNGaTNsaGJTZhNU
dFgzbGtMQnMyUjBDZ1lFQTlYSGwKdHVlK1VRWjZDbVhrdFBObk5kU29NM2lMVS9weHBBZEZ3bGxNRUx1LzRsZTBmekc0LzBQVUJFMTVqOUo2d3Fiago5RytZdGFlb3Q5bkNnTWtMUmtUN2tOTkpNZy9RQWxv
NGJuRHdrHVRlTU5sZXcyNFVuT0xJMXhmNVJFUitnSjdRClJruFNFUkR3WTcxSTdnZWk2NzJjZTZCLytqUzA5K0diRWJab1dZTUNnWUVBdDNvbmdvK0x6a3dsTWxmZVpzak8Kb0xVK3kzQlovamV3ZnFWWlNK
  WESTARDAY OF THE PROPERTY OF T
   aElxemNJK0ovNytNeFlObkdwL3FvN3BzPQotLSOtLUVORCBSU0EgUFJJVkFURSBLRVktLS0tLQo=
                                                                           HIJ:~/.kube$ sudo vi config
    [sudo] password for maahij:
                                                                                     ]:~/.kube$ kubectl get node
   mani STATUS ROLES AGE VERSION
minikube Ready control-plane 2d v1.32.0
maahij@MOHAMEDMAAHIJ:~/.kube$ cd
maahij@MOHAMEDMAAHIJ:~2 cude
                                                                  AAHIJ:~$ sudo chmod 666 /var/run/docker.sock
      [sudo] password for maahij:
      isuooj password for maamij:
maahij@MOHAMEDMAAHIJ:~$ sudo service jenkins restart
maahij@MOHAMEDMAAHIJ:~$ cd ~/.kube
maahij@MOHAMEDMAAHIJ:~/.kube$ sudo vi config
      maahij@MOHAMEDMAAHIJ:~/.<mark>kube$</mark>
maahij@MOHAMEDMAAHIJ:~/.kube$
        aahij@MOHAMEDMAAHIJ:~/.kube$
```

```
Setting up openssh-server (1:9.6p1-3ubuntu13.8)
  Creating config file /etc/ssh/sshd_config with new version
Creating SSH2 RSA key; this may take some time ...
3872 SHA256:gml7nqyVj9VG7fiJAg6KWVBgazDEoC/XmQv78+aRhXk root@MOHAMEDMAAHIJ (RSA)
RSA)

Creating SSH2 ECDSA key; this may take some time ...

256 SHA256:iilyqg0sf2GE8RG2vnIQkL0H386E2oFECRg7RHJ3a0E root@MOHAMEDMAAHIJ (ECDSA)

Creating SSH2 ED25519 key; this may take some time ...

256 SHA256:iilYtqEUQgLw7MSL2wZveI/NBhtXa05xVTZ/2U33GM/M root@MOHAMEDMAAHIJ (ED25519)

Created symlink /etc/systemd/system/sos.ckets.target.wants/ssh.socket → /usr/lib/systemd/system/ssh.socket.

Created symlink /etc/systemd/system/ssh.service.requires/ssh.socket → /usr/lib/systemd/system/ssh.socket.

Processing triggers for man-db (2.12.0-Ubuild2) ...

Processing triggers for libc-bin (2.39-Ubuntu8.4) ...

maahij@MOHAMEDMAAHIJ:-$ sudo systemctl restart ssh

maahij@MOHAMEDMAAHIJ:-$ sudo systemctl restart ssh

maahij@MOHAMEDMAAHIJ:-$ sudo systemctl status ssh

ssh.service - OpenBSD Secure Shell server

Loaded: loaded (/usr/lib/systemd/system/ssh.service; disabled; preset: enabled)

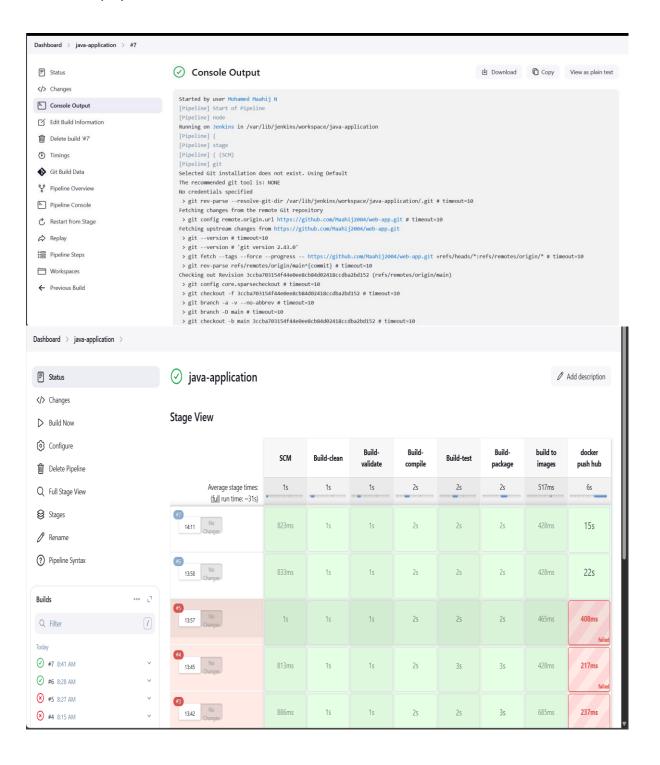
Active: active (running) since Fri 2025-03-21 05:47:50 UTC; 6s ago

TriggeredBy: ssh.socket

Docs: man:sshd(8)

man:sshd_config(5)
  RSA)
        Docs: man:sshd(8)
man:sshd_config(5)
Process: 19881 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
Main PID: 19883 (sshd)
Tasks: 1 (limit: 9115)
Memory: 1.2M ()
CGroup: /system.slice/ssh.service
L19883 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"
  Mar 21 05:47:50 MOHAMEDMAAHIJ systemd[1]: Starting ssh.service - OpenBSD Secure Shell s>
Mar 21 05:47:50 MOHAMEDMAAHIJ sshd[19883]: Server listening on :: port 22.
Mar 21 05:47:50 MOHAMEDMAAHIJ systemd[1]: Started ssh.service - OpenBSD Secure Shell se>
      aahij@MOHAMEDMAAHIJ:~$ ls
 maanij@MOHAMEDNAAHIJ:"$ is
deploy.yml jenkinsfile ns.yml pod.yml web-app
docker-compose.yaml my-app pod-ns.yml rs.yml
maanij@MOHAMEDNAAHIJ:"$ cd "/.kube
maanij@MOHAMEDNAAHIJ:", kube$ sudo vi config
maanij@MOHAMEDNAAHIJ:"/.kube$ kubectl get node
error: error loading config file "/home/maanij/.kube/config": json: cannot unmarshal string into Go struct field NamedAuthInfo.users.user of type v1.AuthInf
     maahij@MOHAMEDMAAHIJ:~/.kube$ cat config
   apiVersion: v1
                                                                                                   4b7c01ed0534: Preparing
                                                                                                   39cf0ac89a5a: Waiting
                                                                                                   f844dcf94898: Waiting
                                                                                                   3359bc3d7a6a: Waiting
                                                                                                   4b7c01ed0534: Waiting
                                                                                                 5f70bf18a086: Laver already exists
                                                                                                  bc05267c613b: Layer already exists
                                                                                                   43c9f8a1dd61: Layer already exists
                                                                                                  4e5b554b7345: Layer already exists
                                                                                                   f844dcf94898: Layer already exists
                                                                                                  3359bc3d7a6a: Layer already exists
                                                                                                   39cf0ac89a5a: Layer already exists
                                                                                                   4b7c01ed0534: Layer already exists
                                                                                                   20753cea2647: Pushed
                                                                                                   latest: digest: sha256:55df9d4580d830be82072c22d8c2c7f0ea52128c71df12d063673103d44e395c size: 2409
                                                                                                    [Pipeline] }
                                                                                                   [Pipeline] // withDockerRegistry
                                                                                                   [Pipeline] }
                                                                                                   [Pipeline] // script
                                                                                                    [Pipeline] }
                                                                                                    [Pipeline] // stage
                                                                                                   [Pipeline] }
                                                                                                   [Pipeline] // node
                                                                                                    [Pipeline] End of Pipeline
                                                                                                   Finished: SUCCESS
```

Minikube deployment



Minikube deployment

```
Manhij@MOMAMEDMAANIJ:-$ sudo service jenkins restart
manhij@MOMAMEDMAANIJ:-$ sudo service jenkins restart
manhij@MOMAMEDMAANIJ:-$ cd -/ kube
manhij@MOMAMEDMAANIJ:-$ (d-/ kube)
manhij@MOMAMEDM
```

Commands

```
apt update
sudo apt install openssh-server
sudo systemctl restart ssh
sudo systemctl status ssh
cat /home/david/.minikube/ca.crt | base64 -w 0; echo
sudo chmod 666 /var/run/docker.sock
```

```
PIPELINESCRIPT
```

```
pipeline {
   agent any

stages {
   stage('scm') {
    steps {
    git branch: "
   }
}
```

```
Minikube deployment
```

```
}
    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 .'
```

```
}
  }
}
stage('push to hub') {
      steps {
        script{
         withDockerRegistry(credentialsId: 'Docker_cred', url: 'https://index.docker.io/v1/') {
          sh 'docker push '
        }
      }
      }
}
    stage('Deploy App') {
      steps {
         withKubeConfig(caCertificate: ", clusterName: 'minikube', contextName: 'minikube',
credentialsId: 'cred-1', 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: 'cred-1', namespace: ", restrictKubeConfigAccess: false, serverUrl:
'https://192.168.49.2:8443') {
    sh 'minikube service my-service --url | xargs curl'
 }
}
}
}
```

Minikube deployment

}