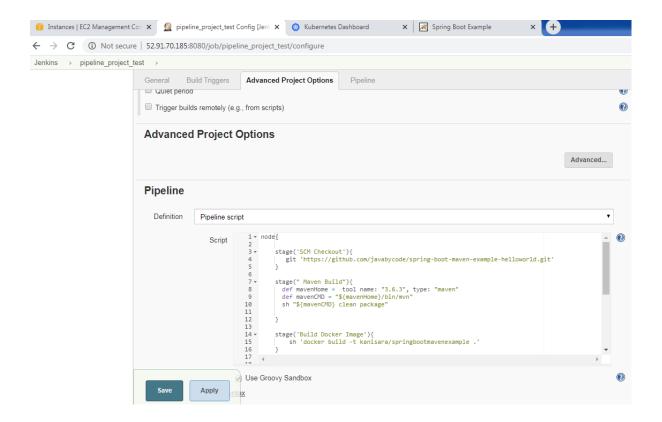
------ Pre-request software Installation updates . [ec2-user@ip-172-31-88-127 ~] **minikube version** minikube version: v1.6.2 commit: 54f28ac5d3a815d1196cd5d57d707439ee4bb392 [ec2-user@ip-172-31-88-127 ~] **kubectl get nodes** STATUS ROLES AGE **VERSION** minikube Ready master 13m v1.17.0[ec2-user@ip-172-31-88-127 ~] **kubectl get pod --all**namespaces NAMESPACE NAME **READY** STATUS **RESTARTS AGE** kube-system coredns-6955765f44-f28gg 1/1 13m Running kube-system coredns-6955765f44-kd76n 1/1Running 13m kube-system etcd-minikube 1/113m Running kube-addon-manager-minikube 1/1kube-system Running 0 13m kube-system kube-apiserver-minikube 1/1Running 13m kube-controller-manager-minikube kube-system 1/1 13m Running kube-system kube-proxy-h56pz 1/1 Running 0 13m kube-scheduler-minikube 1/1 kube-system Running 13m 0 storage-provisioner 1/1 kube-system Running 0 13m [ec2-user@ip-172-31-88-127 ~]\$ docker version Client: Version: 18.09.9-ce 1.39 API version: go1.10.3 Go version: Git commit: 039a7df Built: Fri Nov 1 19:26:49 2019 OS/Arch: linux/amd64 Experimental: false Server: Engine: 18.09.9-ce Version: API version: 1.39 (minimum version 1.12) qo1.10.3 Go version: Git commit:
Built: 039a7df Fri Nov 1 19:28:24 2019 os/arch: linux/amd64 Experimental: false [ec2-user@ip-172-31-88-127 ~] **java -version** java version "1.8.0_131" Java(TM) SE Runtime Environment (build 1.8.0_131-b11) Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed mode) [ec2-user@ip-172-31-88-127 ~] **git version**

```
git version 2.23.1
[ec2-user@ip-172-31-88-127 ~]$ cd /var/lib/jenkins
[ec2-user@ip-172-31-88-127 jenkins]$ pwd
/var/lib/jenkins
[ec2-user@ip-172-31-88-127 jenkins]$
[ec2-user@ip-172-31-88-127 jenkins]$ sudo systemctl status
jenkins

    jenkins.service - LSB: Jenkins Automation Server

   Loaded: loaded (/etc/rc.d/init.d/jenkins; bad; vendor
preset: disabled)
   Active: active (running) since Mon 2020-02-03 07:29:56 UTC;
9s ago
     Docs: man:systemd-sysv-generator(8)
  Process: 31120 ExecStart=/etc/rc.d/init.d/jenkins start
(code=exited, status=0/SUCCESS)
    Tasks: 41
   Memory: 463.1M
   CGroup: /system.slice/jenkins.service
            └31172 /etc/alternatives/java -
Dcom.sun.akuma.Daemon=daemonized -Djava.awt.headless=true -
DJENKINS_HOME=/var/lib/jenkin...
Feb 03 07:29:55 ip-172-31-88-127.ec2.internal systemd[1]:
Starting LSB: Jenkins Automation Server...
Feb 03 07:29:55 ip-172-31-88-127.ec2.internal runuser[31154]:
pam_unix(runuser:session): session opened for user jenkins by
(uid=0)
Feb 03 07:29:56 ip-172-31-88-127.ec2.internal runuser[31154]:
pam_unix(runuser:session): session closed for user jenkins
Feb 03 07:29:56 ip-172-31-88-127.ec2.internal jenkins[31120]:
Starting Jenkins [ OK
Feb 03 07:29:56 ip-172-31-88-127.ec2.internal systemd[1]:
Started LSB: Jenkins Automation Serve
[ec2-user@ip-172-31-88-127 pipeline_project_test]$ sudo
service sonar status
SonarQube is running (32422).
```



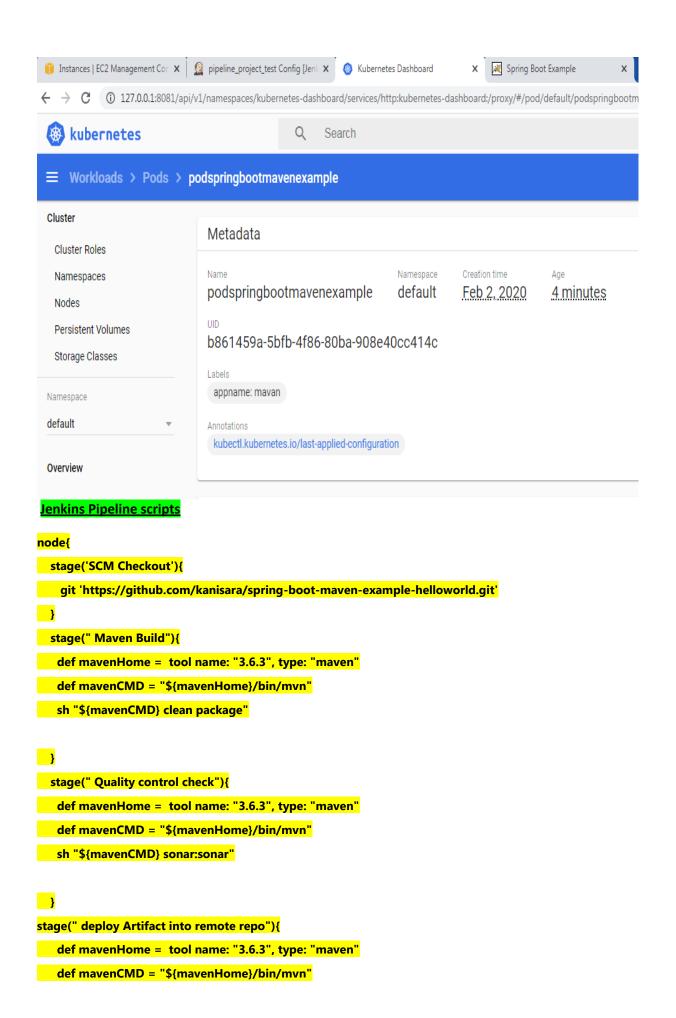
Finally application was able access now. Please see the screenshot.



Spring Boot Example

Click me to say Hello

Kubernetes console management



```
sh "${mavenCMD} deploy"
stage('Build Docker Image'){
sh 'docker build -t kanisara/springbootmavenexample .'
}
stage('Push Docker Image'){
 withCredentials([string(credentialsId: 'Docker_Hub_Pwd', variable: 'Docker_Hub_Pwd')]) {
sh "docker login -u kanisara -p ${Docker_Hub_Pwd}"
 sh 'docker push kanisara/springbootmavenexample'
stage("Deploy To Kuberates Cluster"){
 sh 'kubectl apply -f springbootmavenexample.yml'
}
*********** Docker file *****
FROM tomcat:8.0.20-jre8
COPY target/SpringBootMavenExample-1.3.5.RELEASE.war
apiVersion: v1
kind: Pod
metadata:
name: podspringbootmavenexample
labels:
appname: mavan
spec:
containers:
 - name: springbootmavenexample-container
```

```
image: kanisara/springbootmavenexample
  ports:
 - containerPort: 8080
apiVersion: v1
kind: Service
metadata:
name: httpdnodeportservice
spec:
selector:
 appname: mavan
                         #-- > Label of pod
type: NodePort
ports:
- port: 80
                     #--> Service Port
 targetPort: 8080
                         #--> Container Port
```

nodePort: 30300