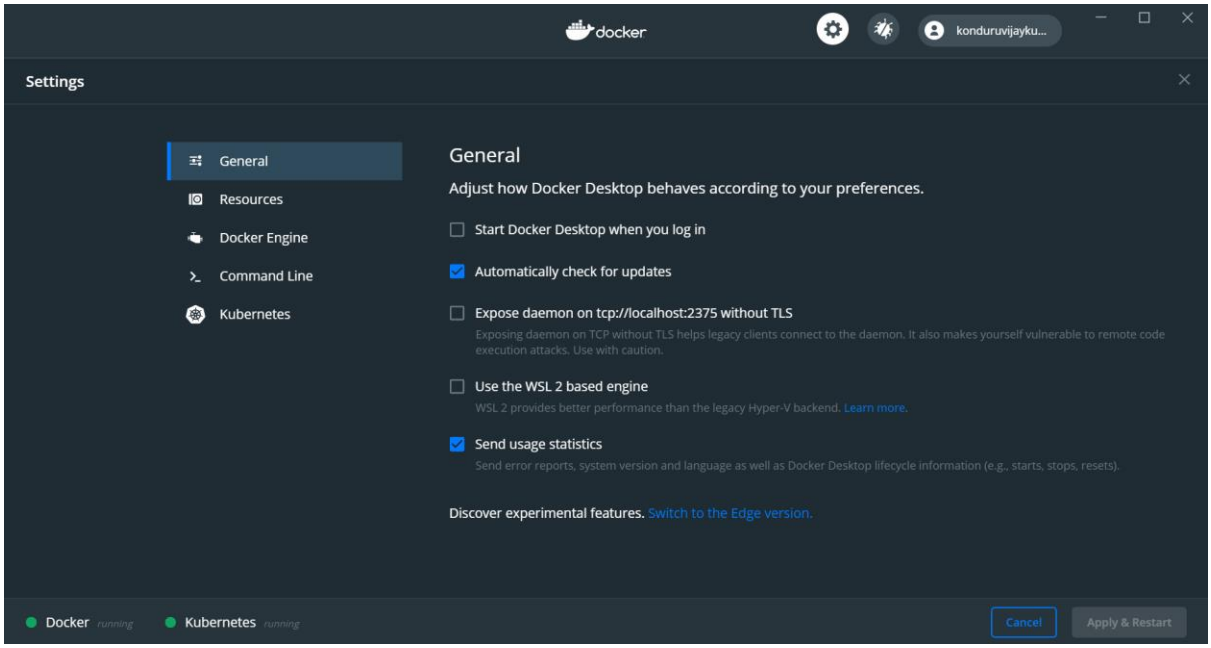
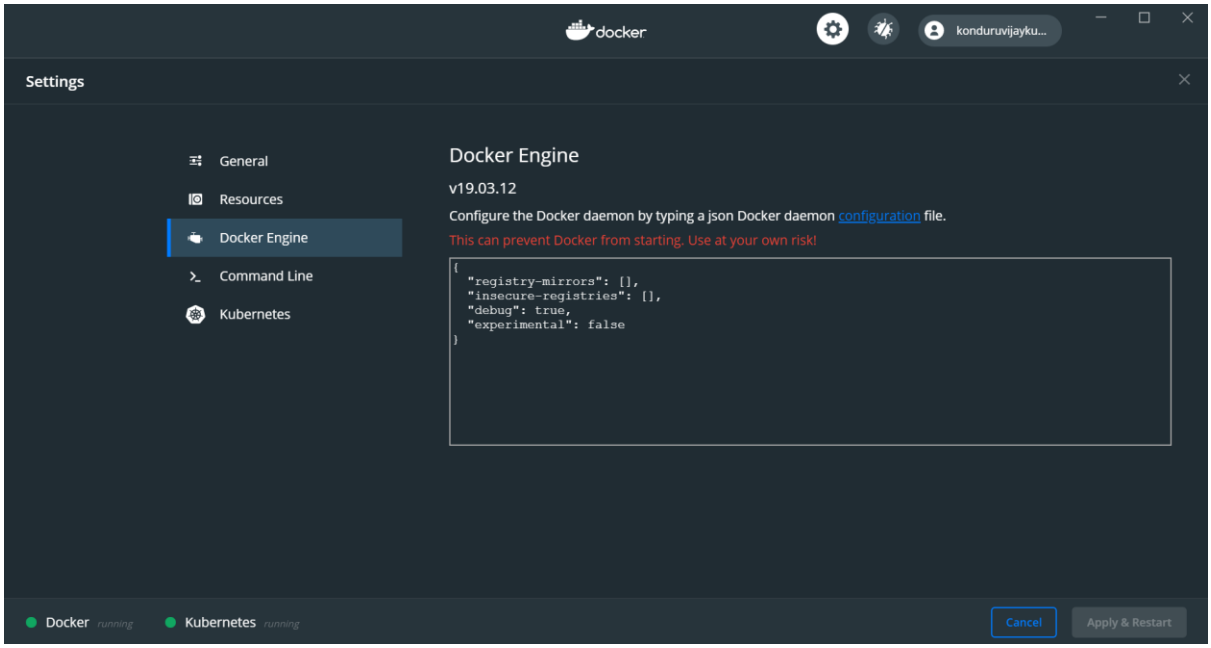
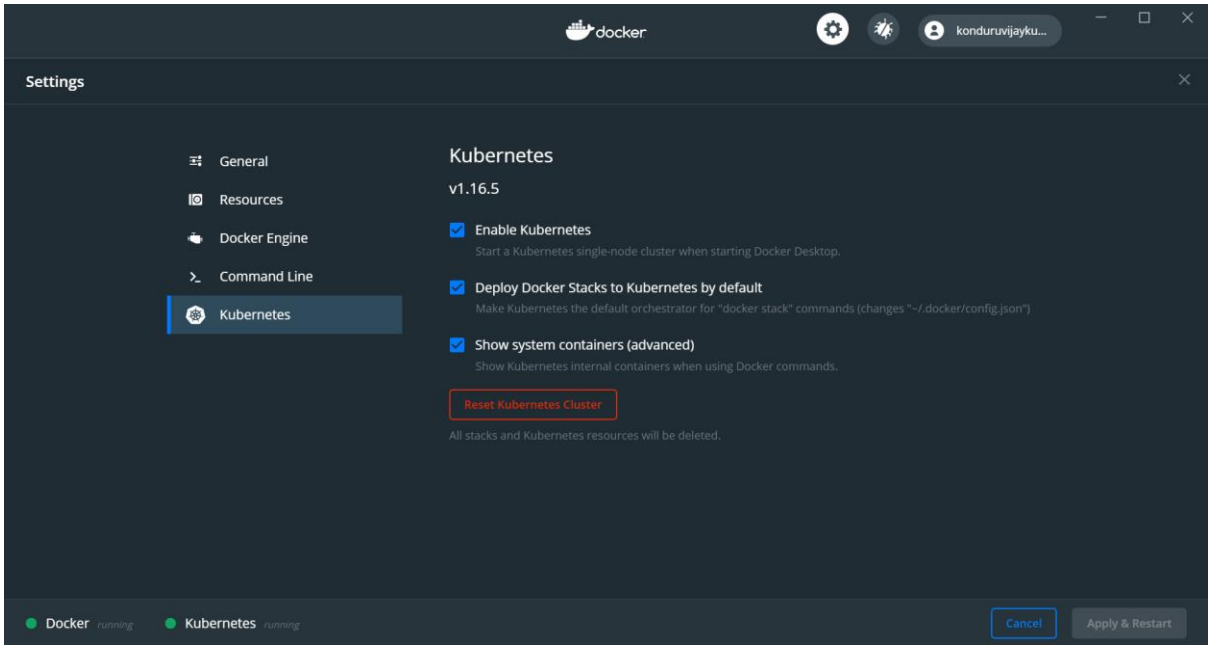
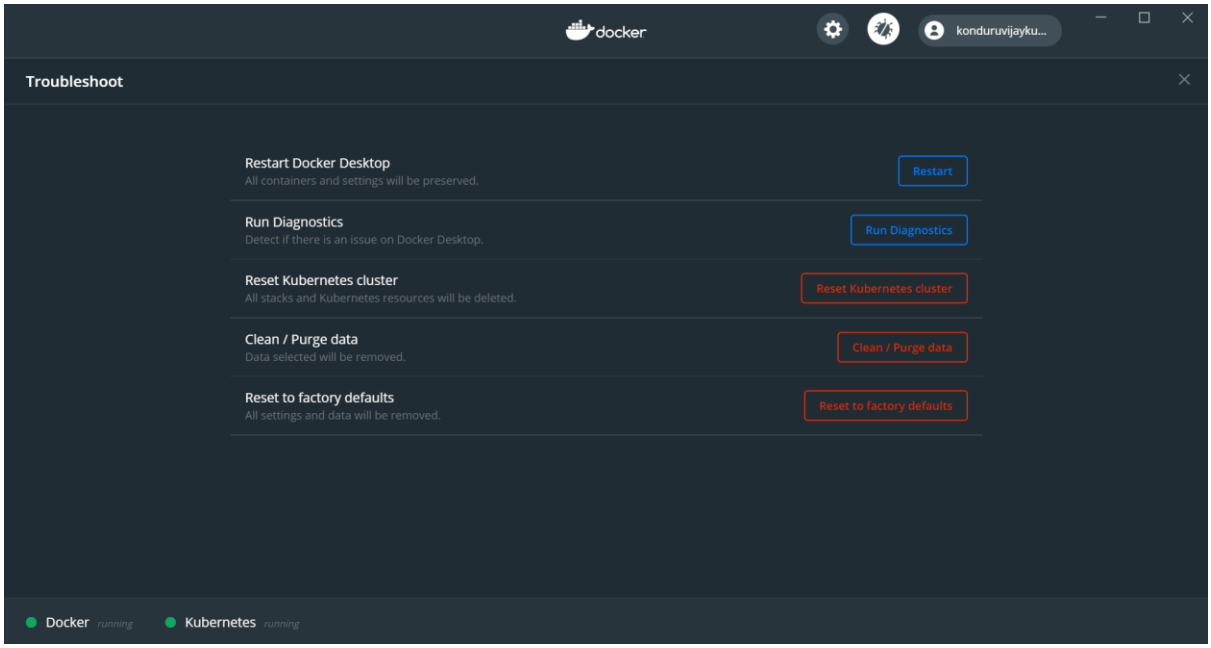
k8s-example1 related document

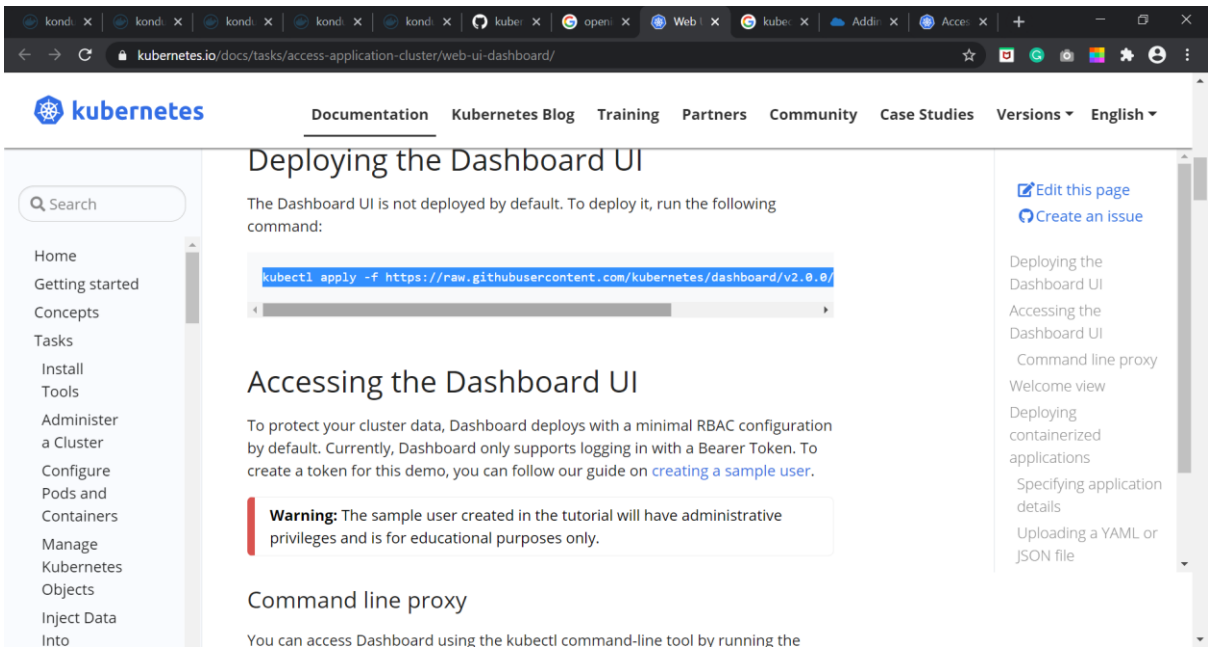


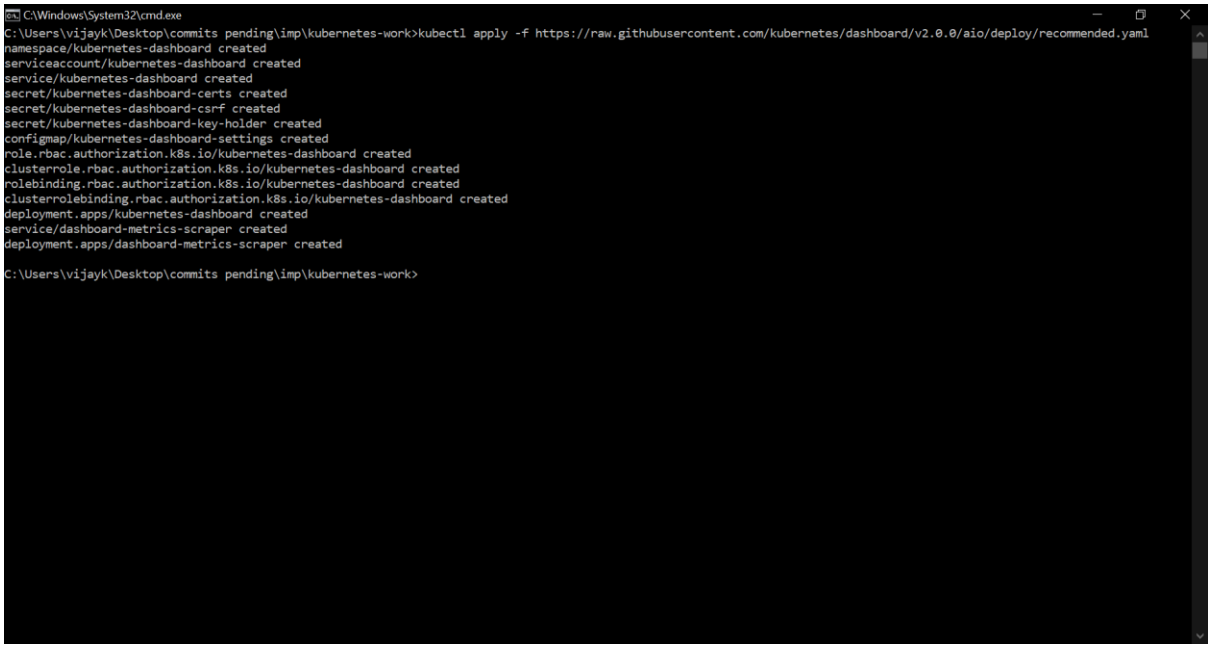

docker
konduruvijayku...
Settings
General
Resources
Docker Engine
Command Line
Kubernetes
Docker Engine
v19.03.12
Configure the Docker daemon by typing a json Docker daemon configuration file.
This can prevent Docker from starting. Use at your own risk!
{
"registry-mirrors": [],
"insecure-registries": [],
"debug": true,
"experimental": false
}
Docker running
Kubernetes running
Cancel
Apply & Restart


docker
konduruvijayku...
Settings
General
Resources
Docker Engine
Command Line
Kubernetes
Kubernetes
v1.16.5
Enable Kubernetes
Start a Kubernetes single-node cluster when starting Docker Desktop.
Deploy Docker Stacks to Kubernetes by default
Make Kubernetes the default orchestrator for "docker stack" commands (changes "~/.docker/config.json")
Show system containers (advanced)
Show Kubernetes internal containers when using Docker commands.
Reset Kubernetes Cluster
All stacks and Kubernetes resources will be deleted.
Docker running
Kubernetes running
Cancel
Apply & Restart



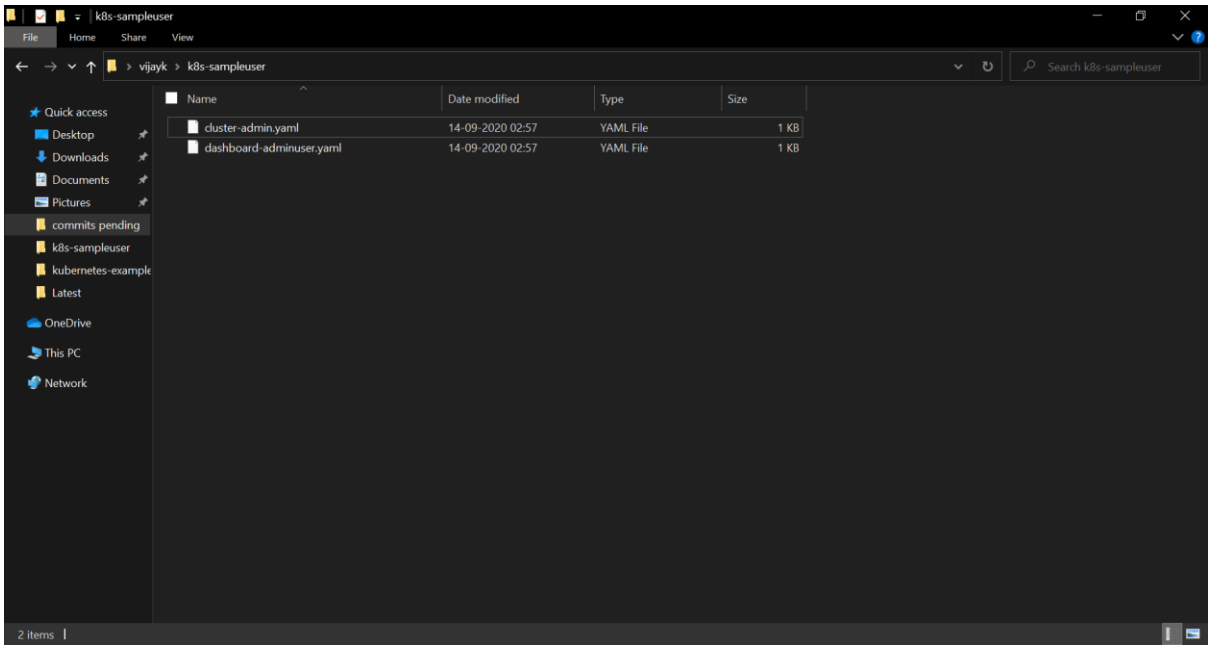
https://kubernetes.io/docs/tasks/access-application-cluster/web-ui-dashboard/





https://github.com/kubernetes/dashboard/blob/master/docs/user/access-control/creating-sample-user.md

https://github.com/kubernetes/dashboard/tree/master/docs



C:\Users\vijayk\k8s-sampleuser\dashboard-adminuser.yaml - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

Citi - 835 • | kubernetes-app1-service.yaml | kubernetes-app1-deployment.yaml | dashboard-adminuser.yaml | cluster-admin.yaml | .gitignore | HelloWorld.java | .txt

```yaml
apiVersion: v1
kind: ServiceAccount
metadata:
  name: admin-user
  namespace: kubernetes-dashboard
```

Line 3, Column 10 Spaces: 2 YAML

C:\Users\vijayk\k8s-sampleuser\cluster-admin.yaml - Sublime Text (UNREGISTERED)

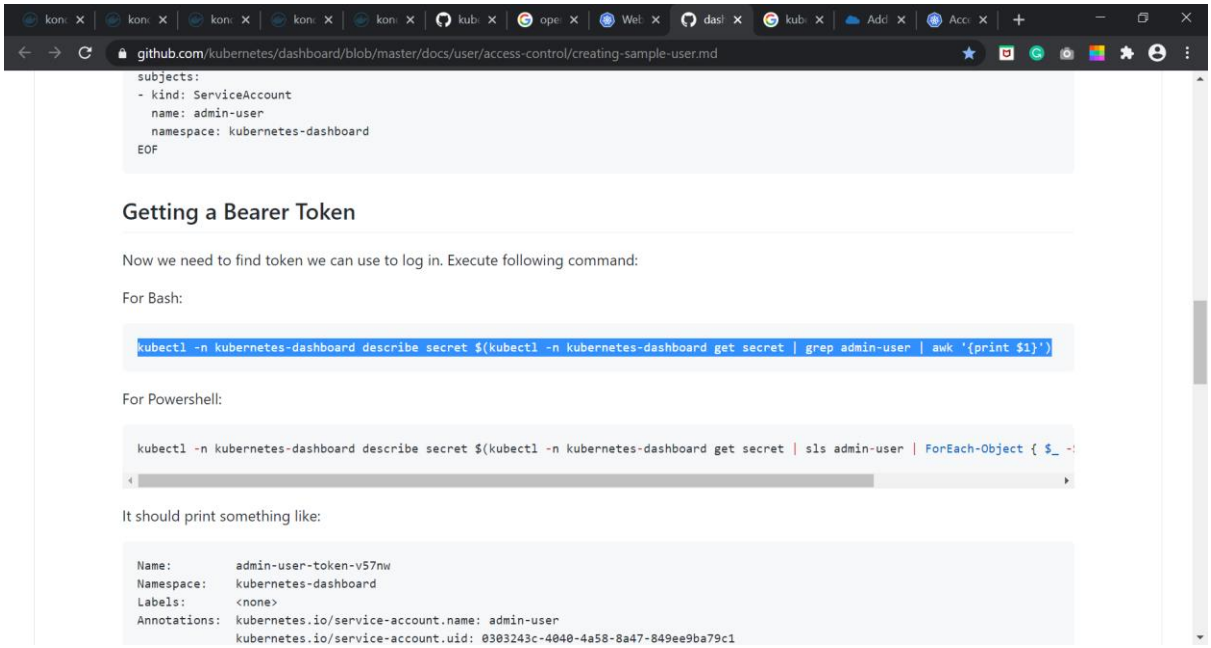
File Edit Selection Find View Goto Tools Project Preferences Help

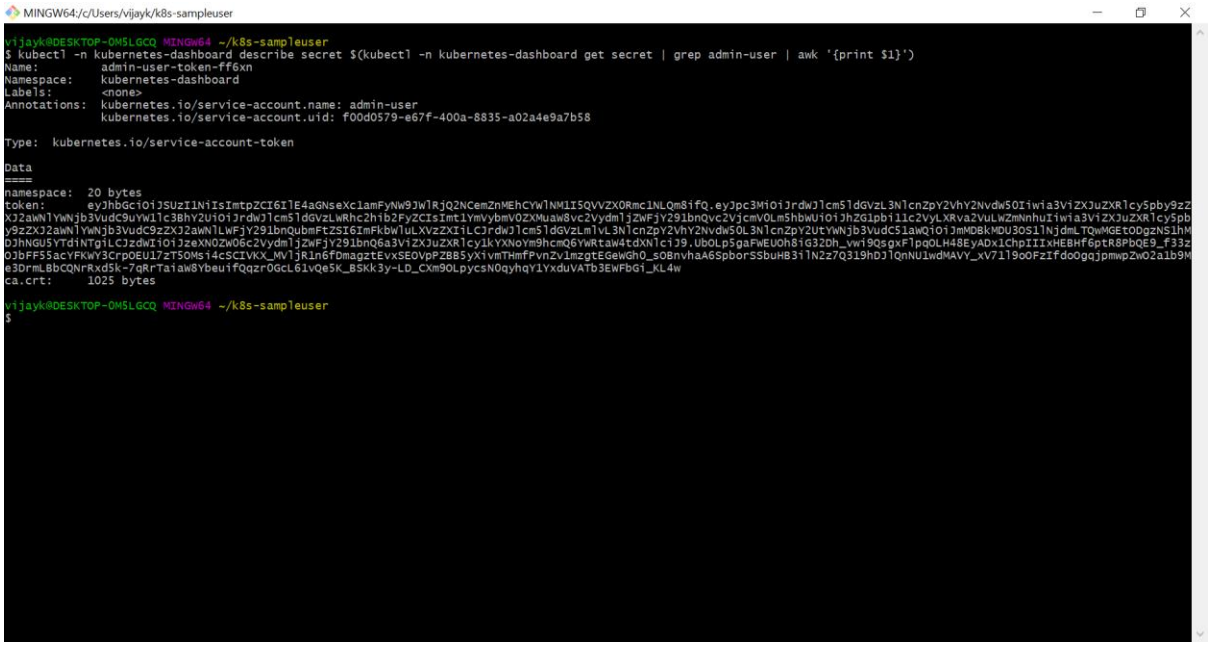
Citi - 835 • | kubernetes-app1-service.yaml | kubernetes-app1-deployment.yaml | dashboard-adminuser.yaml | cluster-admin.yaml | .gitignore | HelloWorld.java | .txt

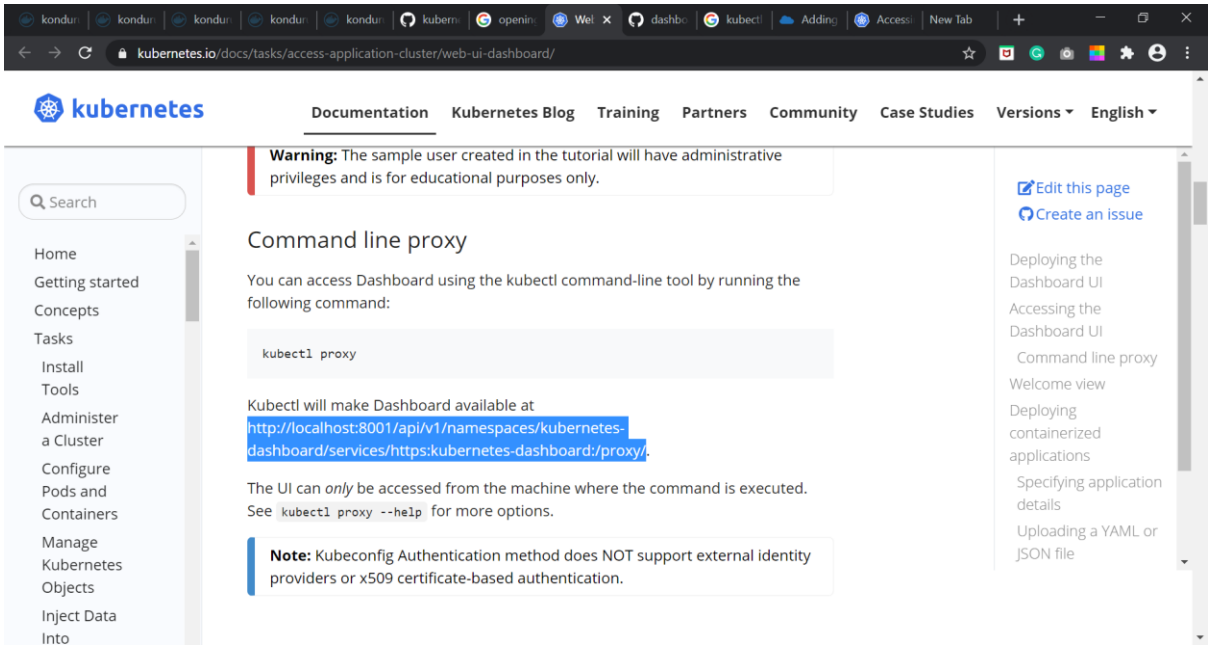
```yaml
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
  name: admin-user
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
  name: cluster-admin
subjects:
- kind: ServiceAccount
  name: admin-user
  namespace: kubernetes-dashboard
```

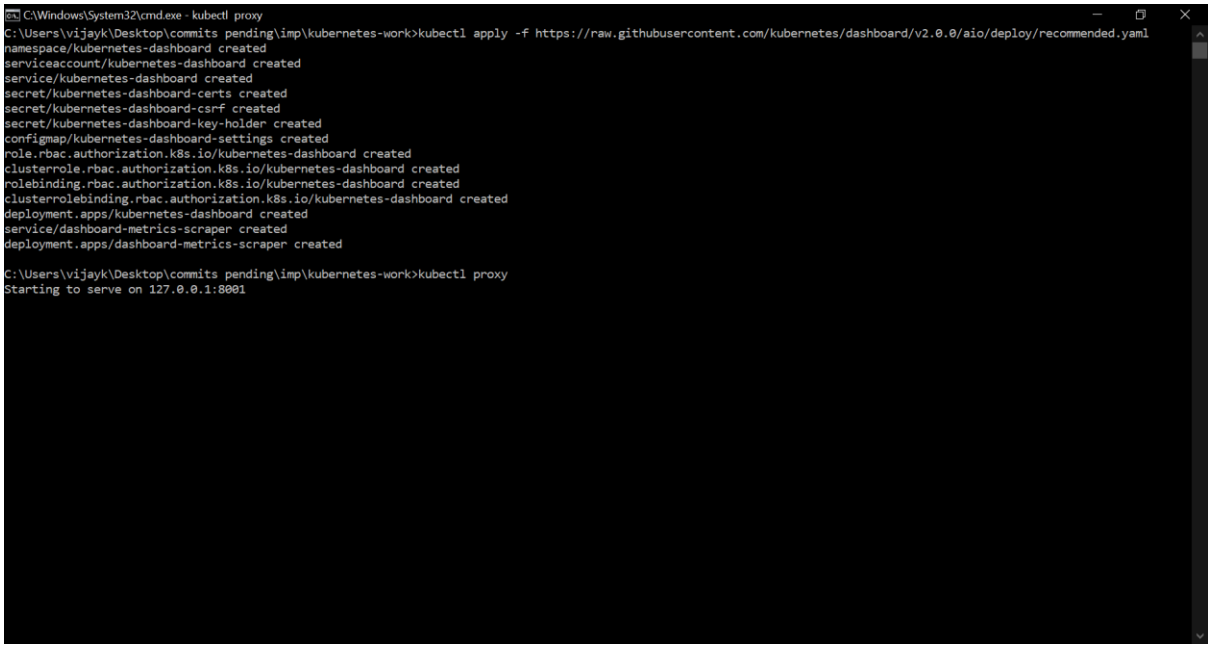
Line 12, Column 34 Spaces: 2 YAML

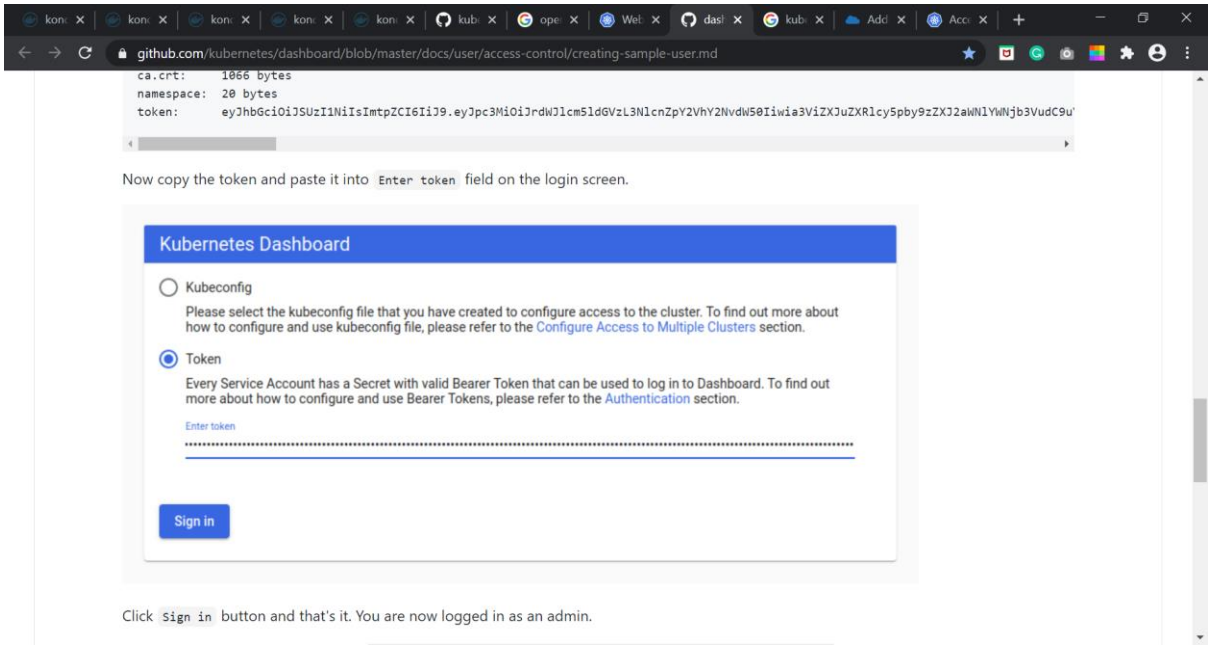

C:\Windows\System32\cmd.exe
C:\Users\vijayk\k8s-sampleuser>kubectl apply -f dashboard-adminuser.yaml
serviceaccount/admin-user created
C:\Users\vijayk\k8s-sampleuser>kubectl apply -f cluster-admin.yaml
clusterrolebinding.rbac.authorization.k8s.io/admin-user created
C:\Users\vijayk\k8s-sampleuser>

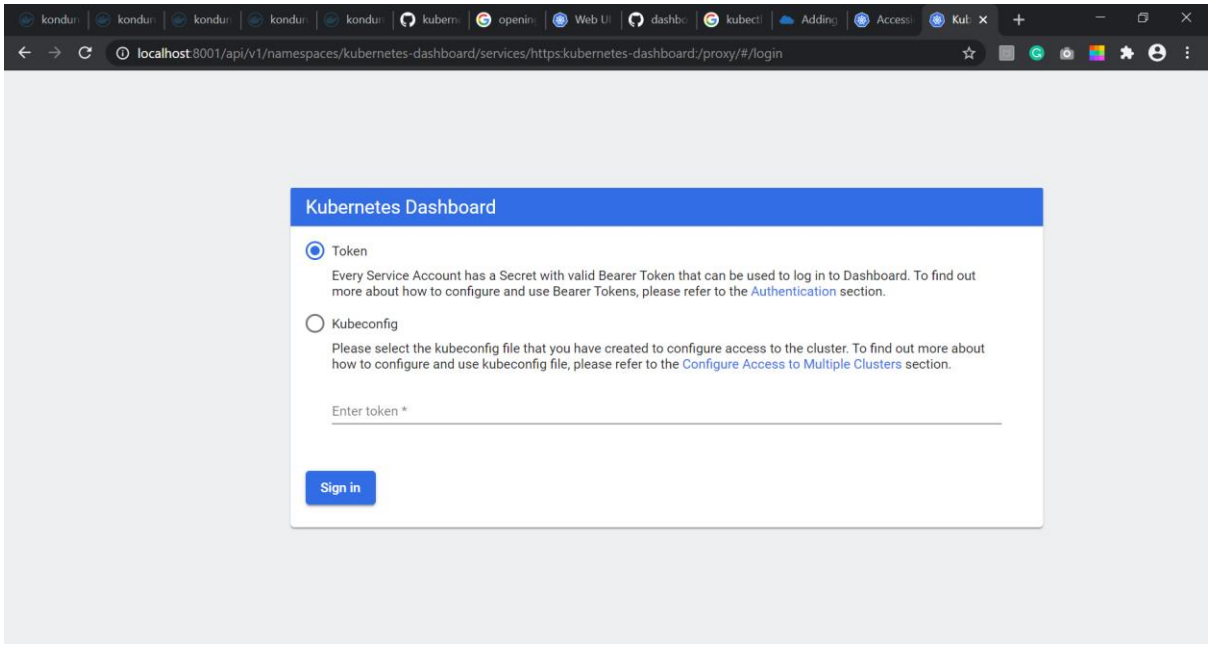

github.com/kubernetes/dashboard/blob/master/docs/user/access-control/creating-sample-user.md
subjects:
- kind: ServiceAccount
name: admin-user
namespace: kubernetes-dashboard
EOF
Getting a Bearer Token
Now we need to find token we can use to log in. Execute following command:
For Bash:
kubectl -n kubernetes-dashboard describe secret $(kubectl -n kubernetes-dashboard get secret | grep admin-user | awk '{print $1}')
For Powershell:
kubectl -n kubernetes-dashboard describe secret $(kubectl -n kubernetes-dashboard get secret | sls admin-user | ForEach-Object { $_ -
It should print something like:
Name: admin-user-token-v57nw
Namespace: kubernetes-dashboard
Labels: <none>
Annotations: kubernetes.io/service-account.name: admin-user
kubernetes.io/service-account.uid: 0303243c-4040-4a58-8a47-849ee9ba79c1

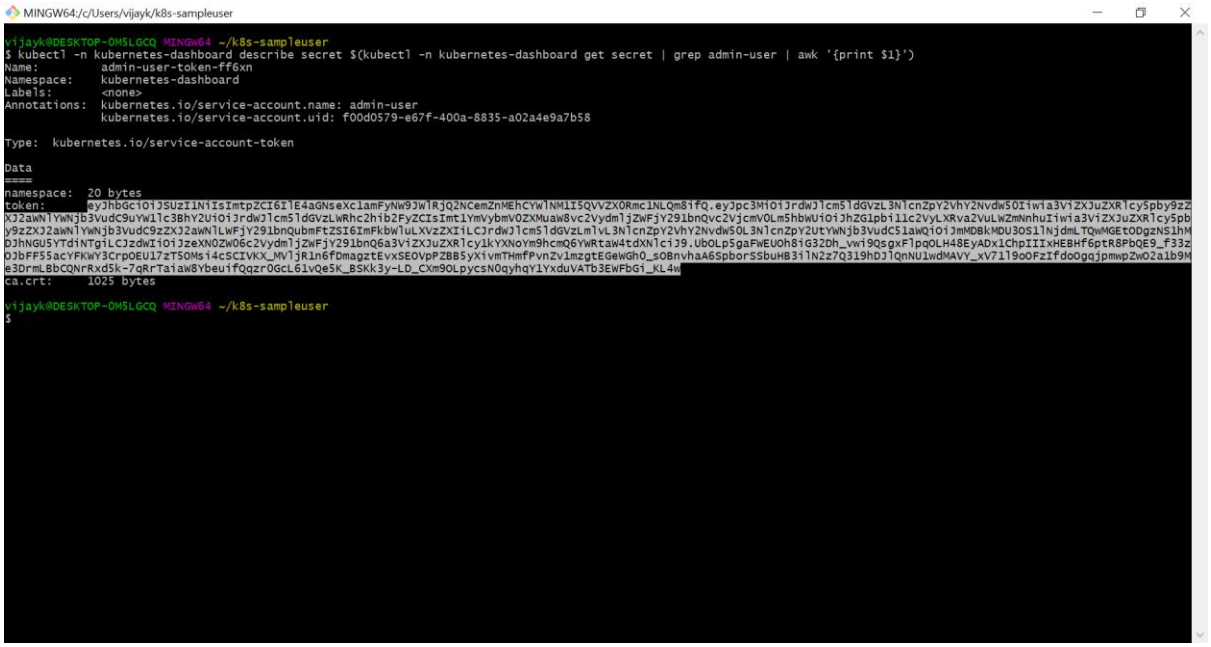

MINGW64:/c/Users/vijayk/k8s-sampleuser
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/k8s-sampleuser
$ kubectl -n kubernetes-dashboard describe secret $(kubectl -n kubernetes-dashboard get secret | grep admin-user | awk '{print $1}')
Name: admin-user-token-ff6xn
Namespace: kubernetes-dashboard
Labels: <none>
Annotations: kubernetes.io/service-account.name: admin-user
kubernetes.io/service-account.uid: f00d0579-e67f-400a-8835-a02a4e9a7b58
Type: kubernetes.io/service-account-token
Data
====
namespace: 20 bytes
token: eyJhbGciOiJSUzI1NiIsImtpZCI6IlE4aGNseXc1amFyNW9JWlRjQ2NCemZnMEhCYWlNM1ISQVVZXORmc1NLQm8ifQ.eyJpc3MiOiJrdWJlcm5ldGVzL3NlcnZpY2VhY2NvdW5OIiwia3ViZXJuZXRlcy5pby9zZ
XJ2aWNlYWNjb3VudC9uYW1lc3BhY2UiOiJrdWJlcm5ldGVzLWRhc2hib2FyZCIsImt1YmVybmV0ZXMuaW8vc2VydmljZWFjY291bnQvc2VjcmV0LmS5hbWUiOiJhZGlpbi1lc2VyLXRva2VuLWZmNnhuIiwia3ViZXJuZXRlcy5pb
y9zZXJ2aWNlYWNjb3VudC9zZXJ2aWNlLWFjY291bnQubmFtZSI6ImFkbWluLXVzZXIiLCJrdWJlcm5ldGVzLmlvL3NlcnZpY2VhY2NvdW5OL3NlcnZpY2UtYWNjb3VudC5uaWQiOiJmMDBkMDU3OS1lNjdmLTQwMGEtODgzNS1hM
DJhNGU5YTdiNTg1LCJzdWIiOiJzeXN0OnNlcnZpY2VhY2NvdW5OjA3ViZXJuZXRlcy1kYXNoYm9hcmQ6YWRtaW4tdXNlci39.UbOLp5gaFwEUOh81G32Oh_vwi9QsgxF1pqOLH48EyADxiChpIIIxHEBHf6ptR8PbQE9_f33z
OJbFF55acYFKWY3CrpOEUl7zT5OMsi4cSCIVkX_MVljRln6fDmagztEvxSEOVpPZB5yXivmTHmfPvnZvlmzgtEGeWGhO_sOBnvhaA6SpborSSbuHB3il N2z7Q3l9hDJlQmNUlwdMAVY_xV7ll9oOFZIfdoOgqjpmwpZwO2alb9M
e3DrmLBbCQNrRxd5k-7qRrTaiaW8YbeuifQqzr0GcL61vQe5K_BSkk3y-LD_CXm9OLpycsNOqyhqY1YxduVATb3EWFbGi_KL4w
ca.crt: 1025 bytes
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/k8s-sampleuser
$

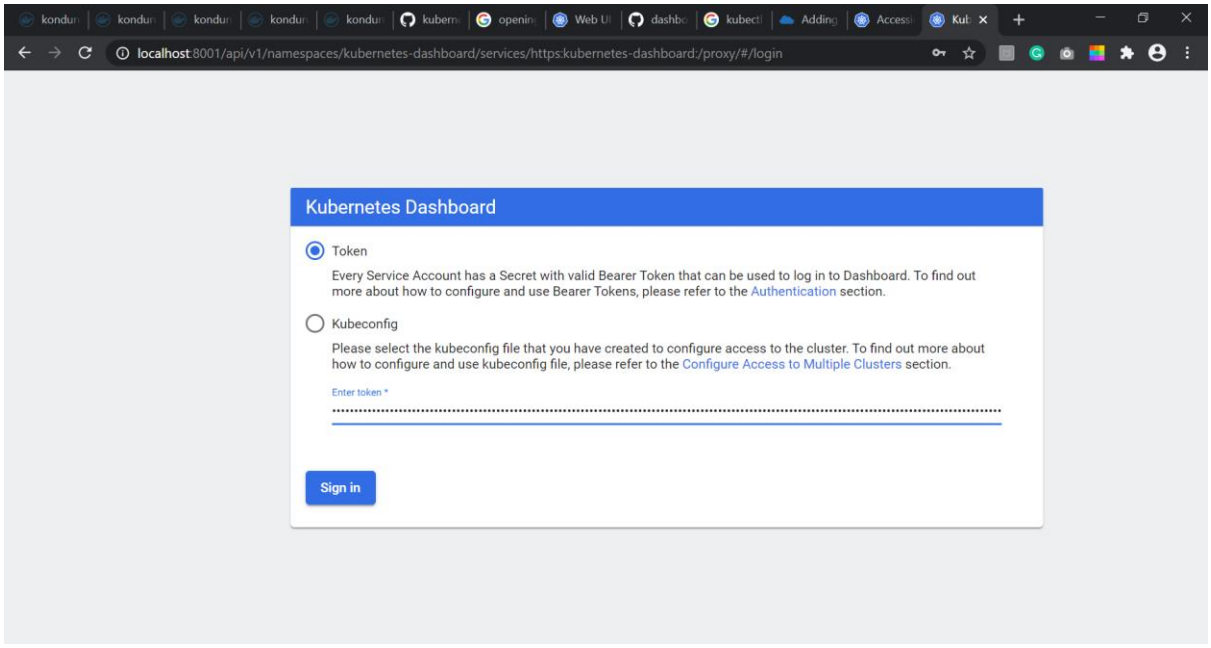

kubernetes.io/docs/tasks/access-application-cluster/web-ui-dashboard/
kubernetes
Documentation
Kubernetes Blog
Training
Partners
Community
Case Studies
Versions
English
Search
Home
Getting started
Concepts
Tasks
Install Tools
Administer a Cluster
Configure Pods and Containers
Manage Kubernetes Objects
Inject Data Into
Warning: The sample user created in the tutorial will have administrative privileges and is for educational purposes only.
Command line proxy
You can access Dashboard using the kubectl command-line tool by running the following command:
kubectl proxy
Kubectl will make Dashboard available at http://localhost:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/.
The UI can only be accessed from the machine where the command is executed. See kubectl proxy --help for more options.
Note: Kubeconfig Authentication method does NOT support external identity providers or x509 certificate-based authentication.
Edit this page
Create an issue
Deploying the Dashboard UI
Accessing the Dashboard UI
Command line proxy
Welcome view
Deploying containerized applications
Specifying application details
Uploading a YAML or JSON file

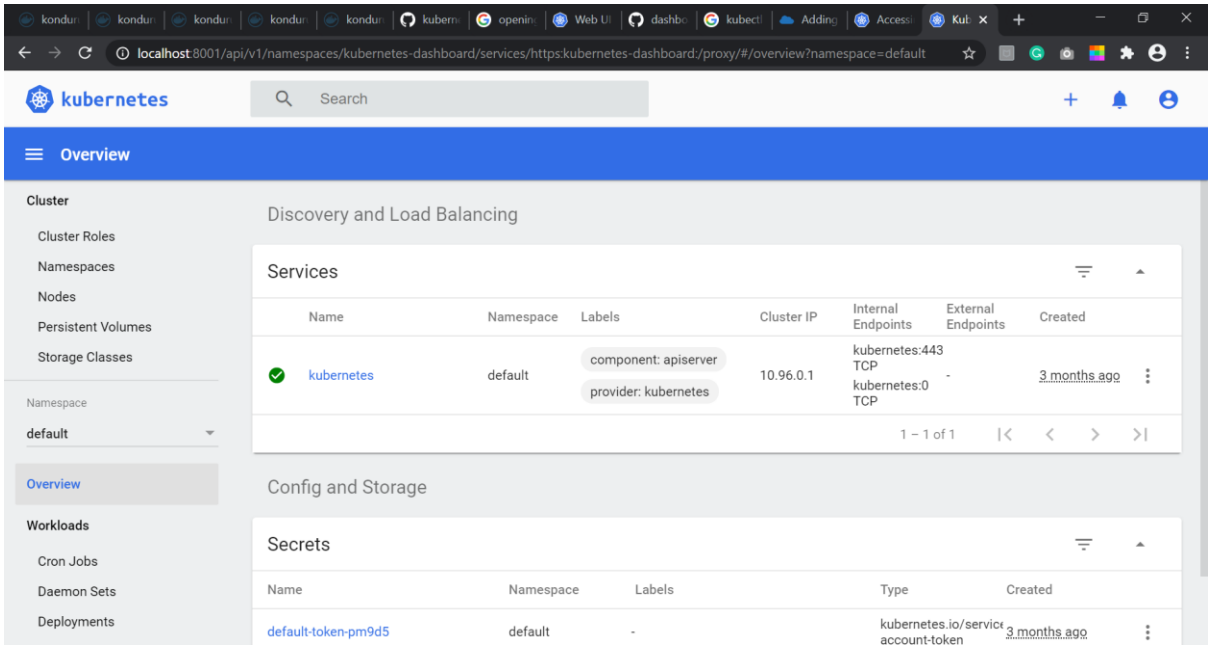

C:\Windows\System32\cmd.exe - kubectl proxy
C:\Users\vijayk\Desktop\commits pending\imp\kubernetes-work>kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/v2.0.0/aio/deploy/recommended.yaml
namespace/kubernetes-dashboard created
serviceaccount/kubernetes-dashboard created
service/kubernetes-dashboard created
secret/kubernetes-dashboard-certs created
secret/kubernetes-dashboard-csrf created
secret/kubernetes-dashboard-key-holder created
configmap/kubernetes-dashboard-settings created
role.rbac.authorization.k8s.io/kubernetes-dashboard created
clusterrole.rbac.authorization.k8s.io/kubernetes-dashboard created
rolebinding.rbac.authorization.k8s.io/kubernetes-dashboard created
clusterrolebinding.rbac.authorization.k8s.io/kubernetes-dashboard created
deployment.apps/kubernetes-dashboard created
service/dashboard-metrics-scraper created
deployment.apps/dashboard-metrics-scraper created
C:\Users\vijayk\Desktop\commits pending\imp\kubernetes-work>kubectl proxy
Starting to serve on 127.0.0.1:8001


github.com/kubernetes/dashboard/blob/master/docs/user/access-control/creating-sample-user.md
ca.crt: 1066 bytes
namespace: 20 bytes
token: eyJhbGciOiJSUzI1NiIsImtpZCI6IiJ9.eyJpc3MiOiJrdWJlcm5ldGVzL3NlcnZpY2VhY2NvdW50Iiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYWNjb3VudC9u
Now copy the token and paste it into Enter token field on the login screen.
Kubernetes Dashboard
Kubeconfig
Please select the kubeconfig file that you have created to configure access to the cluster. To find out more about how to configure and use kubeconfig file, please refer to the Configure Access to Multiple Clusters section.
Token
Every Service Account has a Secret with valid Bearer Token that can be used to log in to Dashboard. To find out more about how to configure and use Bearer Tokens, please refer to the Authentication section.
Enter token
Sign in
Click Sign in button and that's it. You are now logged in as an admin.

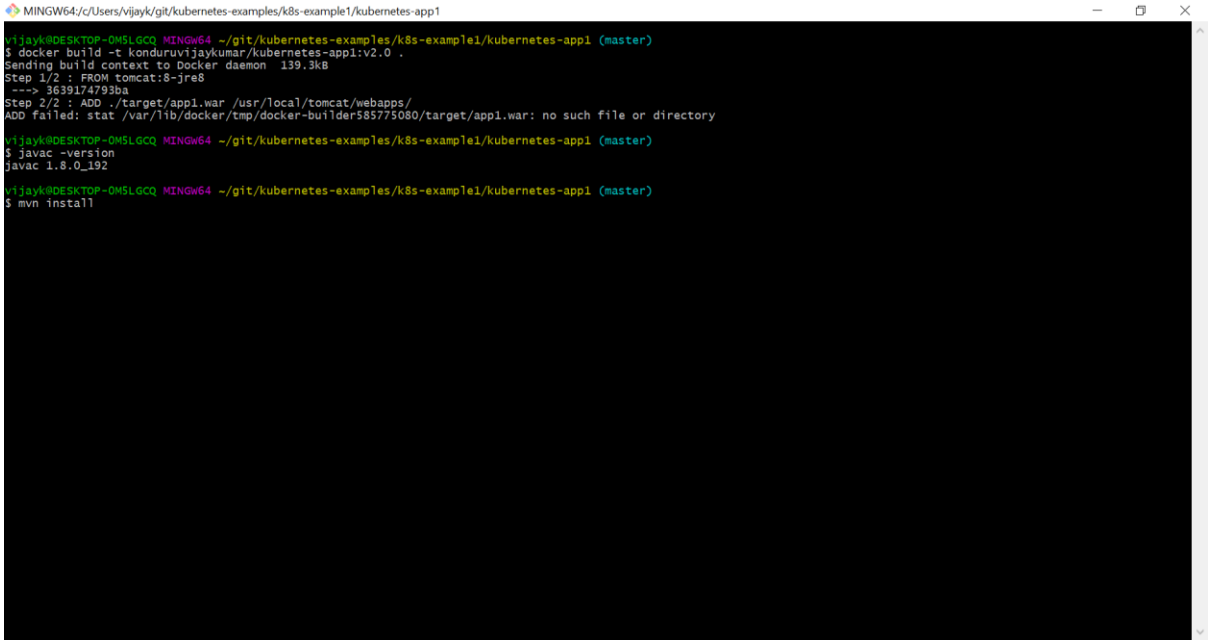

localhost:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/#/login
Kubernetes Dashboard
Token
Every Service Account has a Secret with valid Bearer Token that can be used to log in to Dashboard. To find out more about how to configure and use Bearer Tokens, please refer to the Authentication section.
Kubeconfig
Please select the kubeconfig file that you have created to configure access to the cluster. To find out more about how to configure and use kubeconfig file, please refer to the Configure Access to Multiple Clusters section.
Enter token *
Sign in

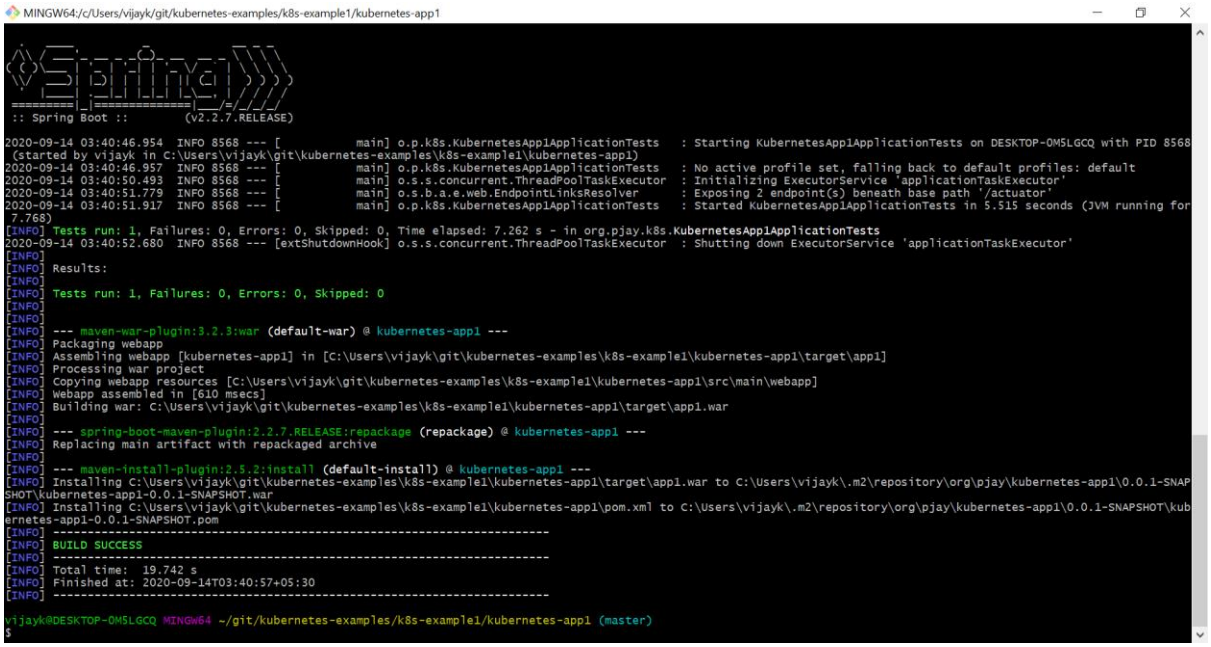

MINGW64:/c/Users/vijayk/k8s-sampleuser
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/k8s-sampleuser
$ kubectl -n kubernetes-dashboard describe secret $(kubectl -n kubernetes-dashboard get secret | grep admin-user | awk '{print $1}')
Name: admin-user-token-ff6xn
Namespace: kubernetes-dashboard
Labels: <none>
Annotations: kubernetes.io/service-account.name: admin-user
kubernetes.io/service-account.uid: f00d0579-e67f-400a-8835-a02a4e9a7b58
Type: kubernetes.io/service-account-token
Data
====
namespace: 20 bytes
token: eyJhbGciOiJSUzI1NiIsImtpZCI6IlE4aGNseXc1amFyNW9JWlRjQ2NCemZnMEhCYWlNMlI5QVVZXORmc1NLQm8ifQ.eyJpc3MiOiJrdWJlcm5ldGVzL3NlcnZpY2VhY2NvdW50Iiwia3ViZXJuZXRlcy5pby9zZ
XJ2aWNlYWNjb3VudC9uYW1lc3BhY2UiOiJrdWJlcm5ldGVzLWRhc2hib2FyZCIsImt1YmVybmV0ZXMuaW8vc2VydmljZWFjY291bnQvc2VjcmV0Lm5hbWUiOiJhZGlpbi1ic2VyLXRva2VuLWZmNnhuIiwia3ViZXJuZXRlcy5pb
y9zZXJ2aWNlYWNjb3VudC9zZXJ2aWNlLWFjY291bnQubmFtZSI6ImFkbWluLXVzZXIiLCJrdWJlcm5ldGVzLmlvL3NlcnZpY2VhY2NvdW50L3NlcnZpY2UtYWNjb3VudC51aWQiOiJmMDBkMDU3OS1lNjdmLTQwMGEtODgzNS1hM
DJhNGU5YTdiNTgiLCJzdWIiOiJzeXN0OlW6c2VydmljZWFjY291bnQ6a3ViZXJuZXRlcy1kYXNoYm9hcmQ6YWRtaW4tdXNlciJ9.UbOLp5gaFWEUOh8iG32Dh_vwi9QsgxFlpqOLH48EyADx1ChpIIIxHEBHf6ptR8PbQE9_f33z
OJbFF55acYFKWY3CrpOEU17zT5OMsi4cSCIVKX_MVljR1n6fDmagztEvxSEOVpPZBB5yXivmTHmfPvnZv1mzgtEGeWGhO_sOBnvhaA6SpborSSbuHB3iln2z7Q319hDJlQnNU1wdMAVY_xV7l19oOFzIfdoOgqjpmwpZwO2a1b9M
e3DrmL8bCQNrRxd5k-7qRrTaiaW8YbeuifQqzr0GcL61vQe5K_BSKk3y-LD_CXm9OLpycsNOqyhqY1YxduVATb3EWFbGi_KL4w
ca.crt: 1025 bytes
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/k8s-sampleuser
$

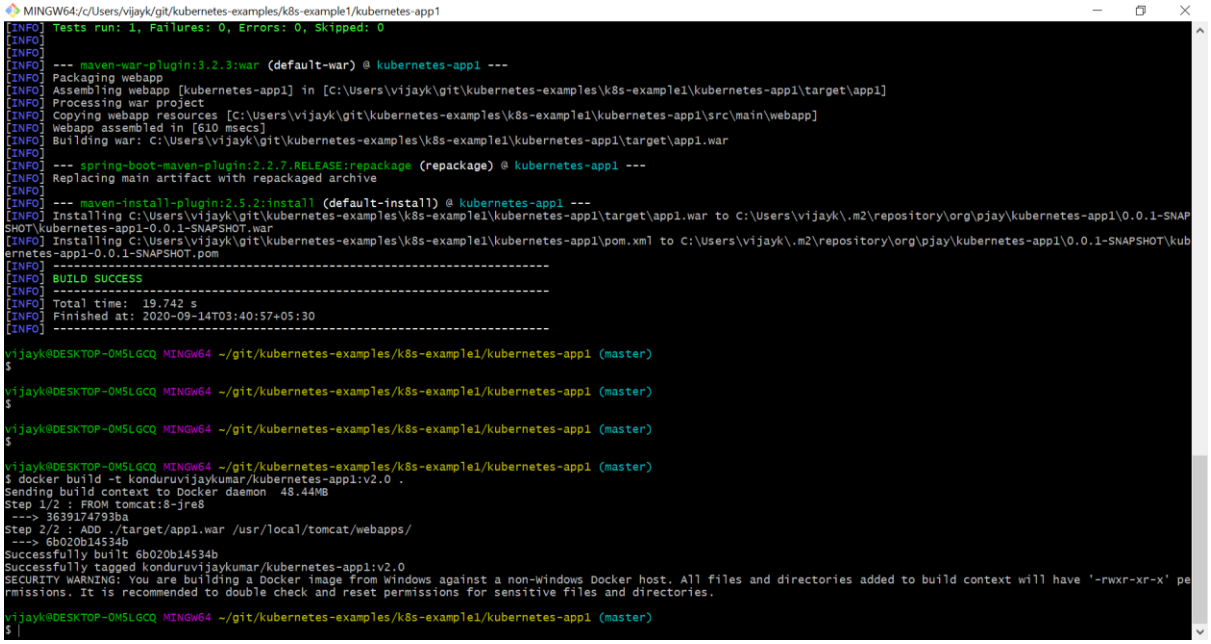

localhost:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/#/login
Kubernetes Dashboard
Token
Every Service Account has a Secret with valid Bearer Token that can be used to log in to Dashboard. To find out more about how to configure and use Bearer Tokens, please refer to the Authentication section.
Kubeconfig
Please select the kubeconfig file that you have created to configure access to the cluster. To find out more about how to configure and use kubeconfig file, please refer to the Configure Access to Multiple Clusters section.
Enter token *
Sign in

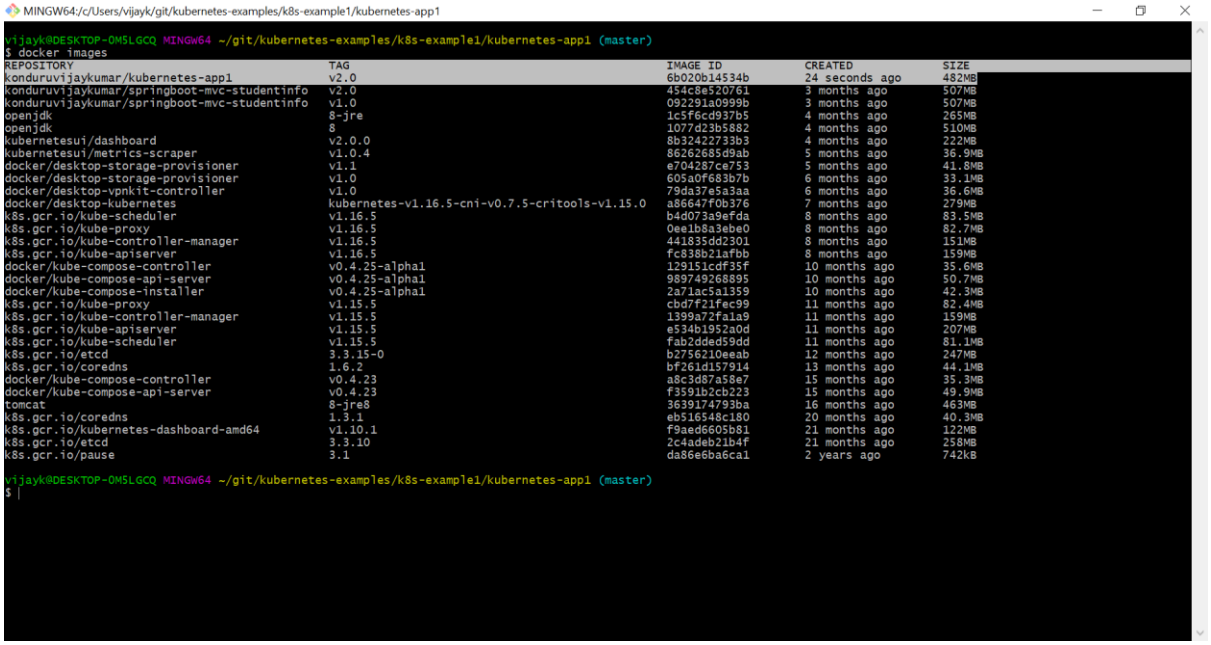

localhost:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/#/overview?namespace=default
kubernetes
Search
Overview
Cluster
Cluster Roles
Namespaces
Nodes
Persistent Volumes
Storage Classes
Namespace
default
Overview
Workloads
Cron Jobs
Daemon Sets
Deployments
Discovery and Load Balancing
Services
Name
Namespace
Labels
Cluster IP
Internal Endpoints
External Endpoints
Created
kubernetes
default
component: apiserver
provider: kubernetes
10.96.0.1
kubernetes:443 TCP
kubernetes:0 TCP
-
3 months ago
1 – 1 of 1
Config and Storage
Secrets
Name
Namespace
Labels
Type
Created
default-token-pm9d5
default
-
kubernetes.io/service account-token
3 months ago

Docker work


MINGW64:/c/Users/vijayk/git/kubernetes-examples/k8s-example1/kubernetes-app1
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$ docker build -t konduruvijaykumar/kubernetes-app1:v2.0 .
Sending build context to Docker daemon 139.3kB
Step 1/2 : FROM tomcat:8-jre8
---> 3639174793ba
Step 2/2 : ADD ./target/app1.war /usr/local/tomcat/webapps/
ADD failed: stat /var/lib/docker/tmp/docker-builder585775080/target/app1.war: no such file or directory
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$ javac -version
javac 1.8.0_192
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$ mvn install

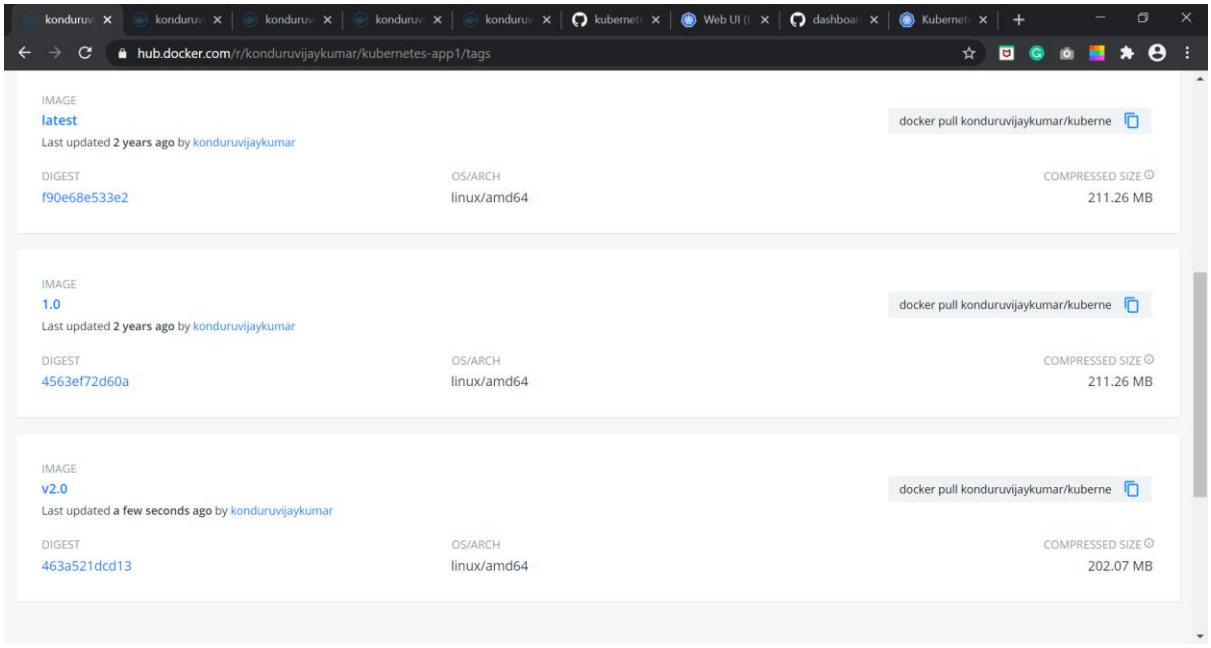

MINGW64:/c/Users/vijayk/git/kubernetes-examples/k8s-example1/kubernetes-app1
:: Spring Boot :: (v2.2.7.RELEASE)
2020-09-14 03:40:46.954 INFO 8568 --- [main] o.p.k8s.KubernetesApp1ApplicationTests : Starting KubernetesApp1ApplicationTests on DESKTOP-OM5LGCQ with PID 8568
(started by vijayk in C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1)
2020-09-14 03:40:46.957 INFO 8568 --- [main] o.p.k8s.KubernetesApp1ApplicationTests : No active profile set, falling back to default profiles: default
2020-09-14 03:40:50.493 INFO 8568 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2020-09-14 03:40:51.779 INFO 8568 --- [main] o.s.b.a.e.web.EndpointLinksResolver : Exposing 2 endpoint(s) beneath base path '/actuator'
2020-09-14 03:40:51.917 INFO 8568 --- [main] o.p.k8s.KubernetesApp1ApplicationTests : Started KubernetesApp1ApplicationTests in 5.515 seconds (JVM running for
7.768)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 7.262 s - in org.pjay.k8s.KubernetesApp1ApplicationTests
2020-09-14 03:40:52.680 INFO 8568 --- [extShutdownHook] o.s.s.concurrent.ThreadPoolTaskExecutor : Shutting down ExecutorService 'applicationTaskExecutor'
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-war-plugin:3.2.3:war (default-war) @ kubernetes-app1 ---
[INFO] Packaging webapp
[INFO] Assembling webapp [kubernetes-app1] in [C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\target\app1]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\src\main\webapp]
[INFO] Webapp assembled in [610 msecs]
[INFO] Building war: C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\target\app1.war
[INFO]
[INFO] --- spring-boot-maven-plugin:2.2.7.RELEASE:repackage (repackage) @ kubernetes-app1 ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ kubernetes-app1 ---
[INFO] Installing C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\target\app1.war to C:\Users\vijayk\.m2\repository\org\pjay\kubernetes-app1\0.0.1-SNAP
SHOT\kubernetes-app1-0.0.1-SNAPSHOT.war
[INFO] Installing C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\pom.xml to C:\Users\vijayk\.m2\repository\org\pjay\kubernetes-app1\0.0.1-SNAPSHOT\kub
ernetes-app1-0.0.1-SNAPSHOT.pom
[INFO] --
[INFO] BUILD SUCCESS
[INFO] --
[INFO] Total time: 19.742 s
[INFO] Finished at: 2020-09-14T03:40:57+05:30
[INFO] --
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$

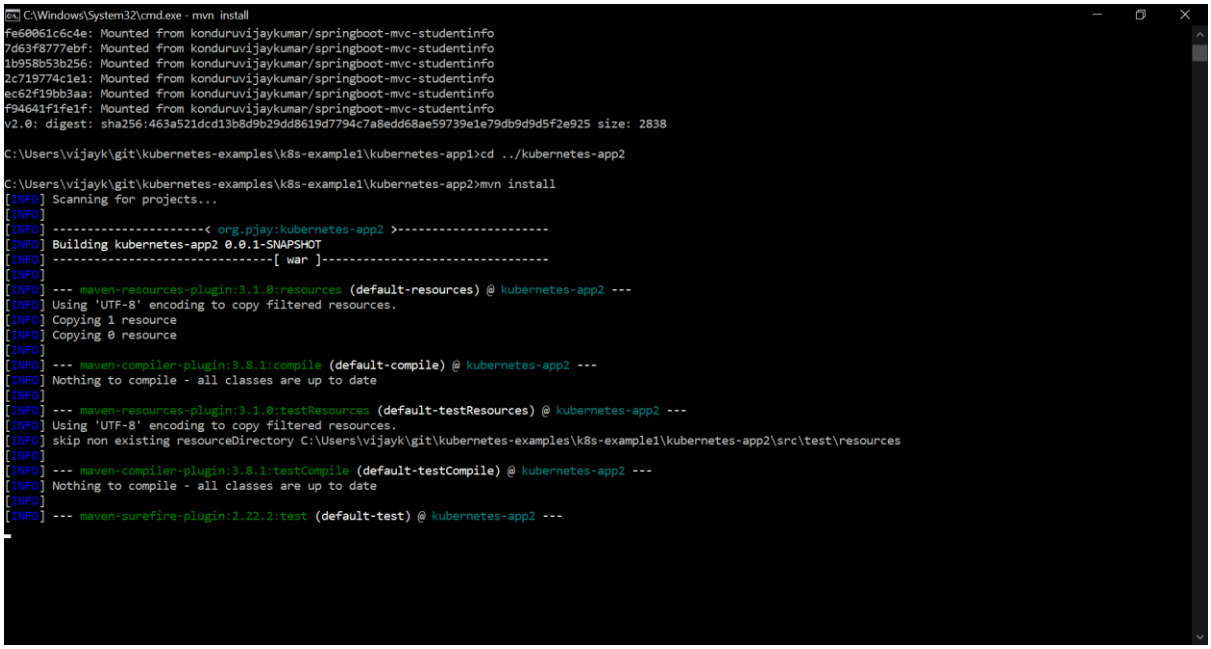

MINGW64:/c/Users/vijayk/git/kubernetes-examples/k8s-example1/kubernetes-app1
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-war-plugin:3.2.3:war (default-war) @ kubernetes-app1 ---
[INFO] Packaging webapp
[INFO] Assembling webapp [kubernetes-app1] in [C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\target\app1]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\src\main\webapp]
[INFO] Webapp assembled in [610 msecs]
[INFO] Building war: C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\target\app1.war
[INFO]
[INFO] --- spring-boot-maven-plugin:2.2.7.RELEASE:repackage (repackage) @ kubernetes-app1 ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ kubernetes-app1 ---
[INFO] Installing C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\target\app1.war to C:\Users\vijayk\.m2\repository\org\pjay\kubernetes-app1\0.0.1-SNAP
SHOT\kubernetes-app1-0.0.1-SNAPSHOT.war
[INFO] Installing C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\pom.xml to C:\Users\vijayk\.m2\repository\org\pjay\kubernetes-app1\0.0.1-SNAPSHOT\kub
ernetes-app1-0.0.1-SNAPSHOT.pom
[INFO] --
[INFO] BUILD SUCCESS
[INFO] --
[INFO] Total time: 19.742 s
[INFO] Finished at: 2020-09-14T03:40:57+05:30
[INFO] --
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$ docker build -t konduruvijaykumar/kubernetes-app1:v2.0 .
Sending build context to Docker daemon 48.44MB
Step 1/2 : FROM tomcat:8-jre8
---> 3639174793ba
Step 2/2 : ADD ./target/app1.war /usr/local/tomcat/webapps/
---> 6b020b14534b
Successfully built 6b020b14534b
Successfully tagged konduruvijaykumar/kubernetes-app1:v2.0
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' pe
rmissions. It is recommended to double check and reset permissions for sensitive files and directories.
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$

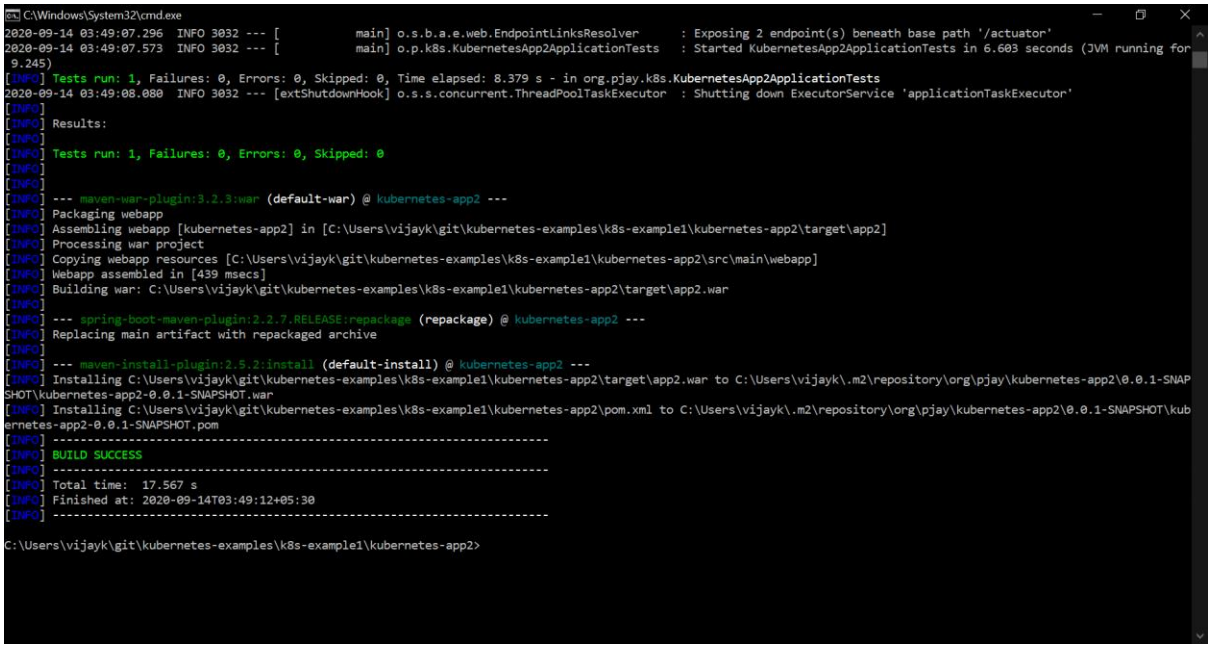

MINGW64:/c/Users/vijayk/git/kubernetes-examples/k8s-example1/kubernetes-app1
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
konduruvijaykumar/kubernetes-app1 v2.0 6b020b14534b 24 seconds ago 482MB
konduruvijaykumar/springboot-mvc-studentinfo v2.0 454c8e52d761 3 months ago 507MB
konduruvijaykumar/springboot-mvc-studentinfo v1.0 092291a0999b 3 months ago 507MB
openjdk 8-jre 1c5f6cd937b5 4 months ago 265MB
openjdk 8 1077d23b5882 4 months ago 510MB
kubernetesui/dashboard v2.0.0 8b32422733b3 4 months ago 222MB
kubernetesui/metrics-scraper v1.0.4 86262685d9ab 5 months ago 36.9MB
docker/desktop-storage-provisioner v1.1 e704287ce753 5 months ago 41.8MB
docker/desktop-storage-provisioner v1.0 605a0f683b7b 6 months ago 33.1MB
docker/desktop-vpnkit-controller v1.0 79da37e5a3aa 6 months ago 36.6MB
docker/desktop-kubernetes kubernetes-v1.16.5-cni-v0.7.5-critools-v1.15.0 a86647f0b376 7 months ago 279MB
k8s.gcr.io/kube-scheduler v1.16.5 b4d073a9efda 8 months ago 83.5MB
k8s.gcr.io/kube-proxy v1.16.5 0ee1b8a3ebe0 8 months ago 82.7MB
k8s.gcr.io/kube-controller-manager v1.16.5 441835dd2301 8 months ago 151MB
k8s.gcr.io/kube-apiserver v1.16.5 fc838b21afbb 8 months ago 159MB
docker/kube-compose-controller v0.4.25-alpha1 129151cdf35f 10 months ago 35.6MB
docker/kube-compose-api-server v0.4.25-alpha1 989749268895 10 months ago 50.7MB
docker/kube-compose-installer v0.4.25-alpha1 2a71ac5a1359 10 months ago 42.3MB
k8s.gcr.io/kube-proxy v1.15.5 cbd7f21fec99 11 months ago 82.4MB
k8s.gcr.io/kube-controller-manager v1.15.5 1399a72fa1a9 11 months ago 159MB
k8s.gcr.io/kube-apiserver v1.15.5 e534b1952a0d 11 months ago 207MB
k8s.gcr.io/kube-scheduler v1.15.5 fab2dded59dd 11 months ago 81.1MB
k8s.gcr.io/etcd 3.3.15-0 b2756210eeab 12 months ago 247MB
k8s.gcr.io/coredns 1.6.2 bf261d157914 13 months ago 44.1MB
docker/kube-compose-controller v0.4.23 a8c3d87a58e7 15 months ago 35.3MB
docker/kube-compose-api-server v0.4.23 f3591b2cb223 15 months ago 49.9MB
tomcat 8-jre8 3639174793ba 16 months ago 463MB
k8s.gcr.io/coredns 1.3.1 eb516548c180 20 months ago 40.3MB
k8s.gcr.io/kubernetes-dashboard-amd64 v1.10.1 f9aed6605b81 21 months ago 122MB
k8s.gcr.io/etcd 3.3.10 2c4adeb21b4f 21 months ago 258MB
k8s.gcr.io/pause 3.1 da86e6ba6ca1 2 years ago 742kB
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples/k8s-example1/kubernetes-app1 (master)
$

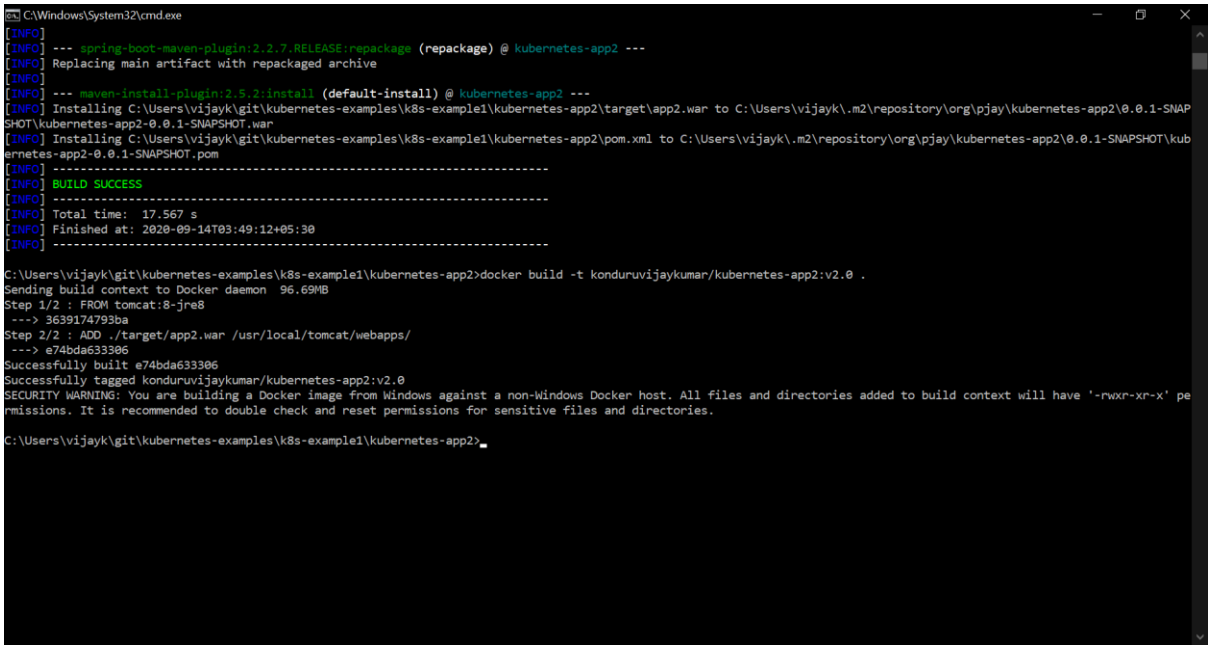
```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19041.508]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1>
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1>docker login -u konduruvijaykumar
Password:
Login Succeeded

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1>
```

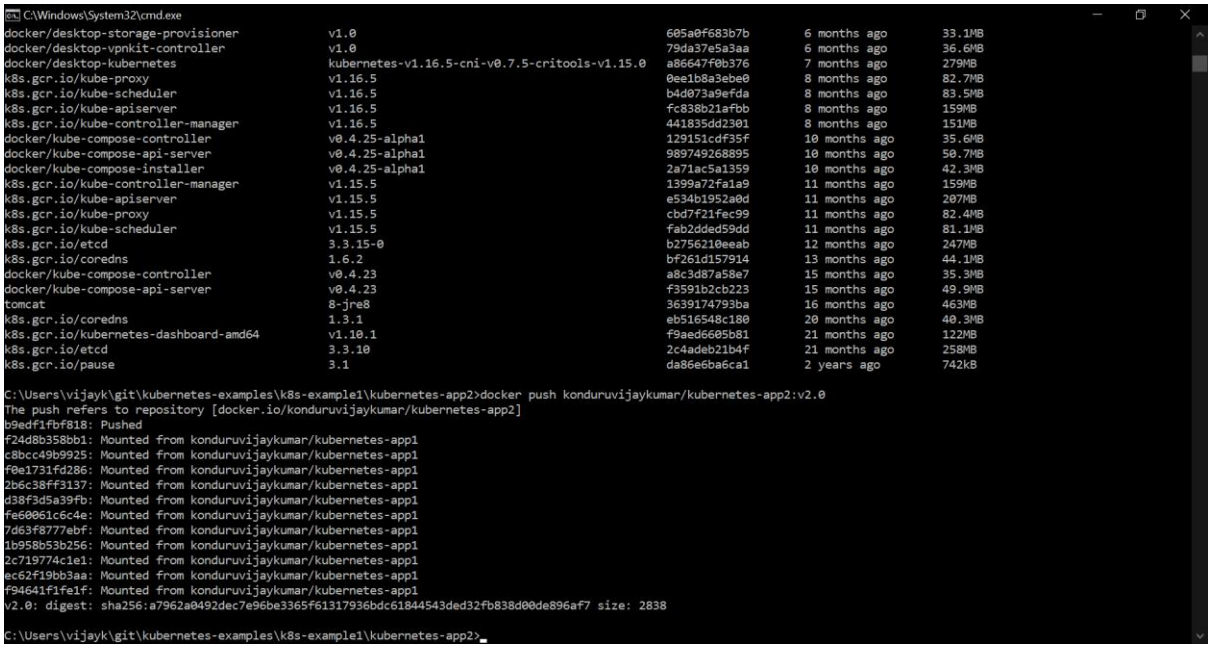
```
C:\Windows\System32\cmd.exe
docker/desktop-storage-provisioner            v1.0                                          605a0f683b7b        6 months ago        33.1MB
docker/desktop-vpnkit-controller              v1.0                                          79da37e5a3aa        6 months ago        36.6MB
docker/desktop-kubernetes                     kubernetes-v1.16.5-cni-v0.7.5-critools-v1.15.0 a86647f0b376        7 months ago        279MB
k8s.gcr.io/kube-controller-manager            v1.16.5                                       441835dd2301        8 months ago        151MB
k8s.gcr.io/kube-proxy                         v1.16.5                                       0ee1b8a3ebe0        8 months ago        82.7MB
k8s.gcr.io/kube-scheduler                     v1.16.5                                       b4d073a9efda        8 months ago        83.5MB
k8s.gcr.io/kube-apiserver                     v1.16.5                                       fc838b21afbb        8 months ago        159MB
docker/kube-compose-controller                v0.4.25-alpha1                                129151cdf35f        10 months ago       35.6MB
docker/kube-compose-api-server                v0.4.25-alpha1                                989749268895        10 months ago       50.7MB
docker/kube-compose-installer                 v0.4.25-alpha1                                2a71ac5a1359        10 months ago       42.3MB
k8s.gcr.io/kube-proxy                         v1.15.5                                       cbd7f21fec99        11 months ago       82.4MB
k8s.gcr.io/kube-apiserver                     v1.15.5                                       e534b1952a0d        11 months ago       207MB
k8s.gcr.io/kube-controller-manager            v1.15.5                                       1399a72fa1a9        11 months ago       159MB
k8s.gcr.io/kube-scheduler                     v1.15.5                                       fab2dded59dd        11 months ago       81.1MB
k8s.gcr.io/etcd                               3.3.15-0                                      b2756210eeab        12 months ago       247MB
k8s.gcr.io/coredns                            1.6.2                                         bf261d157914        13 months ago       44.1MB
docker/kube-compose-controller                v0.4.23                                       a8c3d87a58e7        15 months ago       35.3MB
docker/kube-compose-api-server                v0.4.23                                       f3591b2cb223        15 months ago       49.9MB
tomcat                                        8-jre8                                        3639174793ba        16 months ago       463MB
k8s.gcr.io/coredns                            1.3.1                                         eb516548c180        20 months ago       40.3MB
k8s.gcr.io/kubernetes-dashboard-amd64         v1.10.1                                       f9aed6605b81        21 months ago       122MB
k8s.gcr.io/etcd                               3.3.10                                        2c4adeb21b4f        21 months ago       258MB
k8s.gcr.io/pause                              3.1                                           da86e6ba6ca1        2 years ago         742kB

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1>docker push konduruvijaykumar/kubernetes-app1:v2.0
The push refers to repository [docker.io/konduruvijaykumar/kubernetes-app1]
edd56f3d1aa2: Pushed
f24d8b358bb1: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
c8bcc49b9925: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
f0e1731fd286: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
2b6c38ff3137: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
d38f3d5a39fb: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
fe60061c6c4e: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
7d63f8777ebf: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
1b958b53b256: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
2c719774c1e1: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
ec62f19bb3aa: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
f94641f1fe1f: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
v2.0: digest: sha256:463a521dcd13b8d9b29dd8619d7794c7a8edd68ae59739e1e79db9d9d5f2e925 size: 2838

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1>
```

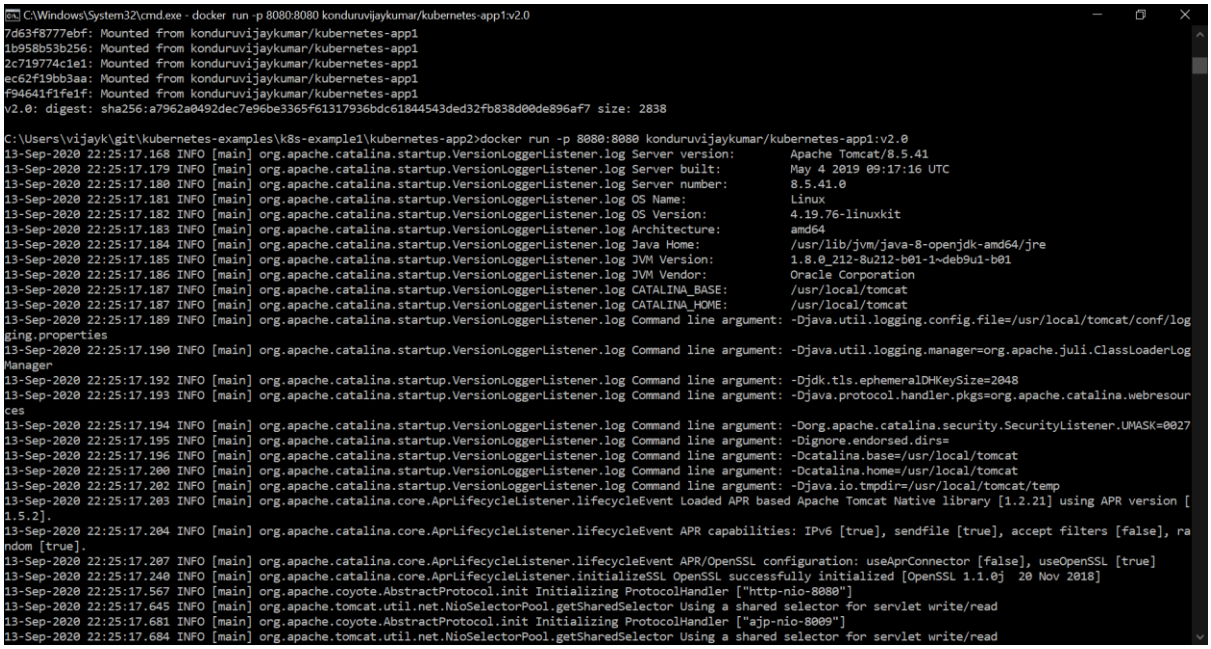

hub.docker.com/r/konduruvijaykumar/kubernetes-app1/tags
IMAGE
latest
Last updated 2 years ago by konduruvijaykumar
docker pull konduruvijaykumar/kuberne
DIGEST
f90e68e533e2
OS/ARCH
linux/amd64
COMPRESSED SIZE
211.26 MB
IMAGE
1.0
Last updated 2 years ago by konduruvijaykumar
docker pull konduruvijaykumar/kuberne
DIGEST
4563ef72d60a
OS/ARCH
linux/amd64
COMPRESSED SIZE
211.26 MB
IMAGE
v2.0
Last updated a few seconds ago by konduruvijaykumar
docker pull konduruvijaykumar/kuberne
DIGEST
463a521dcd13
OS/ARCH
linux/amd64
COMPRESSED SIZE
202.07 MB

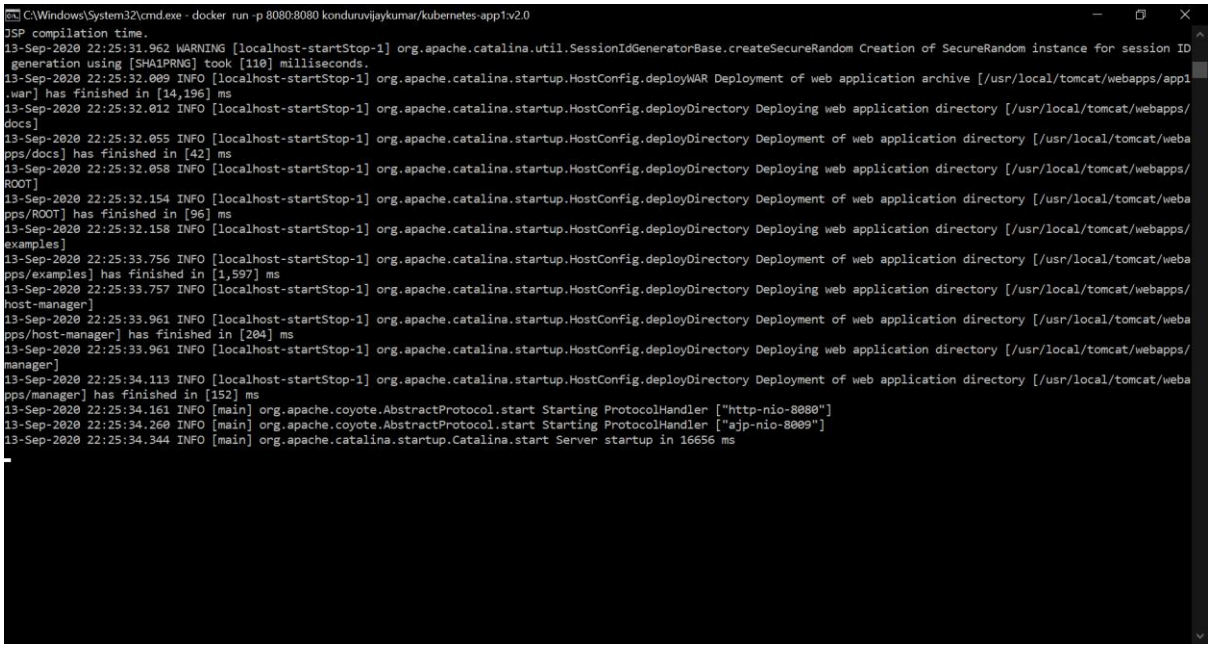

C:\Windows\System32\cmd.exe - mvn install
fe60061c6c4e: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
7d63f8777ebf: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
1b958b53b256: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
2c719774c1e1: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
ec62f19bb3aa: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
f94641f1fe1f: Mounted from konduruvijaykumar/springboot-mvc-studentinfo
v2.0: digest: sha256:463a521dcd13b8d9b29dd8619d7794c7a8edd68ae59739e1e79db9d9d5f2e925 size: 2838
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1>cd ../kubernetes-app2
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>mvn install
[INFO] Scanning for projects...
[INFO] ----------------------< org.pjay:kubernetes-app2 >----------------------
[INFO] Building kubernetes-app2 0.0.1-SNAPSHOT
[INFO] --------------------------------[war]---------------------------------
[INFO] --- maven-resources-plugin:3.1.0:resources (default-resources) @ kubernetes-app2 ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 1 resource
[INFO] Copying 0 resource
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ kubernetes-app2 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:3.1.0:testResources (default-testResources) @ kubernetes-app2 ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\src\test\resources
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ kubernetes-app2 ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ kubernetes-app2 ---

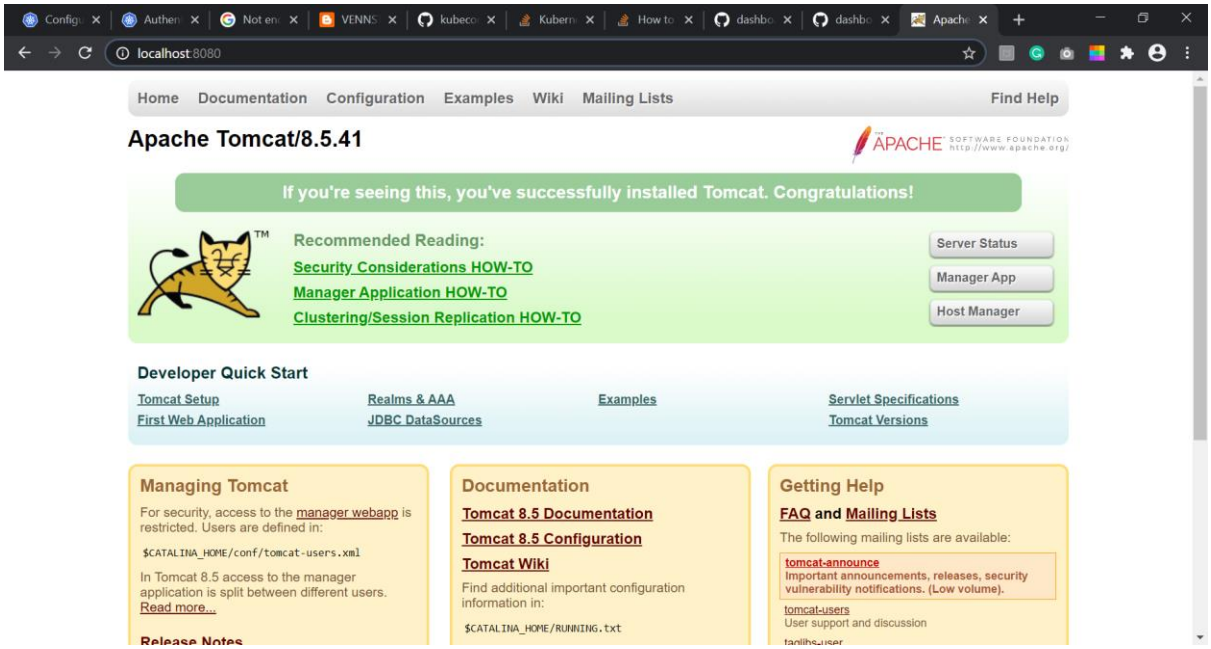

C:\Windows\System32\cmd.exe
2020-09-14 03:49:07.296 INFO 3032 --- [main] o.s.b.a.e.web.EndpointLinksResolver : Exposing 2 endpoint(s) beneath base path '/actuator'
2020-09-14 03:49:07.573 INFO 3032 --- [main] o.p.k8s.KubernetesApp2ApplicationTests : Started KubernetesApp2ApplicationTests in 6.603 seconds (JVM running for 9.245)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 8.379 s - in org.pjay.k8s.KubernetesApp2ApplicationTests
2020-09-14 03:49:08.080 INFO 3032 --- [extShutdownHook] o.s.s.concurrent.ThreadPoolTaskExecutor : Shutting down ExecutorService 'applicationTaskExecutor'
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-war-plugin:3.2.3:war (default-war) @ kubernetes-app2 ---
[INFO] Packaging webapp
[INFO] Assembling webapp [kubernetes-app2] in [C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\target\app2]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\src\main\webapp]
[INFO] Webapp assembled in [439 msecs]
[INFO] Building war: C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\target\app2.war
[INFO]
[INFO] --- spring-boot-maven-plugin:2.2.7.RELEASE:repackage (repackage) @ kubernetes-app2 ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ kubernetes-app2 ---
[INFO] Installing C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\target\app2.war to C:\Users\vijayk\.m2\repository\org\pjay\kubernetes-app2\0.0.1-SNAPSHOT\kubernetes-app2-0.0.1-SNAPSHOT.war
[INFO] Installing C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\pom.xml to C:\Users\vijayk\.m2\repository\org\pjay\kubernetes-app2\0.0.1-SNAPSHOT\kubernetes-app2-0.0.1-SNAPSHOT.pom
[INFO] --
[INFO] BUILD SUCCESS
[INFO] --
[INFO] Total time: 17.567 s
[INFO] Finished at: 2020-09-14T03:49:12+05:30
[INFO] --
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>

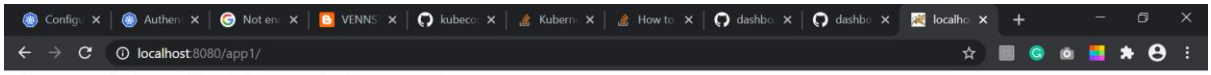

C:\Windows\System32\cmd.exe
[INFO]
[INFO] --- spring-boot-maven-plugin:2.2.7.RELEASE:repackage (repackage) @ kubernetes-app2 ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ kubernetes-app2 ---
[INFO] Installing C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\target\app2.war to C:\Users\vijayk\.m2\repository\org\pjay\kubernetes-app2\0.0.1-SNAPSHOT\kubernetes-app2-0.0.1-SNAPSHOT.war
[INFO] Installing C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\pom.xml to C:\Users\vijayk\.m2\repository\org\pjay\kubernetes-app2\0.0.1-SNAPSHOT\kubernetes-app2-0.0.1-SNAPSHOT.pom
[INFO] --
[INFO] BUILD SUCCESS
[INFO] --
[INFO] Total time: 17.567 s
[INFO] Finished at: 2020-09-14T03:49:12+05:30
[INFO] --
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>docker build -t konduruvijaykumar/kubernetes-app2:v2.0 .
Sending build context to Docker daemon 96.69MB
Step 1/2 : FROM tomcat:8-jre8
---> 3639174793ba
Step 2/2 : ADD ./target/app2.war /usr/local/tomcat/webapps/
---> e74bda633306
Successfully built e74bda633306
Successfully tagged konduruvijaykumar/kubernetes-app2:v2.0
SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>

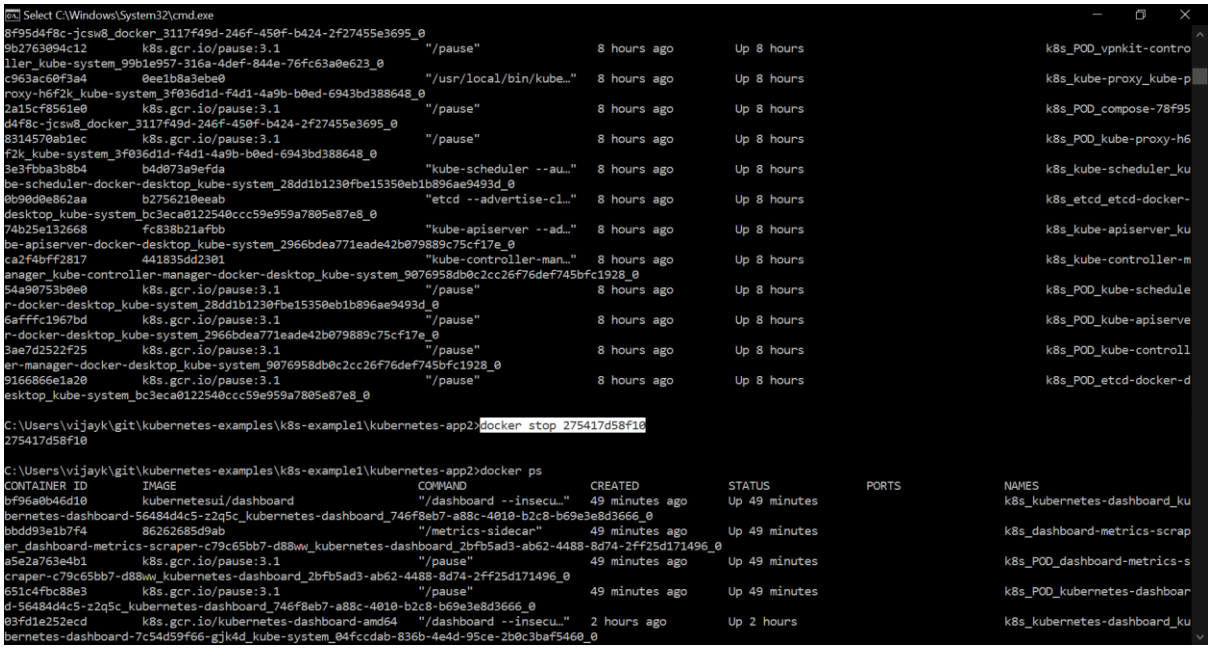

C:\Windows\System32\cmd.exe
docker/desktop-storage-provisioner v1.0 605a0f683b7b 6 months ago 33.1MB
docker/desktop-vpnkit-controller v1.0 79da37e5a3aa 6 months ago 36.6MB
docker/desktop-kubernetes kubernetes-v1.16.5-cni-v0.7.5-critools-v1.15.0 a86647f0b376 7 months ago 279MB
k8s.gcr.io/kube-proxy v1.16.5 0ee1b8a3ebe0 8 months ago 82.7MB
k8s.gcr.io/kube-scheduler v1.16.5 b4d073a9efda 8 months ago 83.5MB
k8s.gcr.io/kube-apiserver v1.16.5 fc838b21afbb 8 months ago 159MB
k8s.gcr.io/kube-controller-manager v1.16.5 441835dd2301 8 months ago 151MB
docker/kube-compose-controller v0.4.25-alpha1 129151cdf35f 10 months ago 35.6MB
docker/kube-compose-api-server v0.4.25-alpha1 989749268895 10 months ago 50.7MB
docker/kube-compose-installer v0.4.25-alpha1 2a71ac5a1359 10 months ago 42.3MB
k8s.gcr.io/kube-controller-manager v1.15.5 1399a72fa1a9 11 months ago 159MB
k8s.gcr.io/kube-apiserver v1.15.5 e534b1952a0d 11 months ago 207MB
k8s.gcr.io/kube-proxy v1.15.5 cbd7f21fec99 11 months ago 82.4MB
k8s.gcr.io/kube-scheduler v1.15.5 fab2dded59dd 11 months ago 81.1MB
k8s.gcr.io/etcd 3.3.15-0 b2756210eeab 12 months ago 247MB
k8s.gcr.io/coredns 1.6.2 bf261d157914 13 months ago 44.1MB
docker/kube-compose-controller v0.4.23 a8c3d87a58e7 15 months ago 35.3MB
docker/kube-compose-api-server v0.4.23 f3591b2cb223 15 months ago 49.9MB
tomcat 8-jre8 3639174793ba 16 months ago 463MB
k8s.gcr.io/coredns 1.3.1 eb516548c180 20 months ago 40.3MB
k8s.gcr.io/kubernetes-dashboard-amd64 v1.10.1 f9aed6605b81 21 months ago 122MB
k8s.gcr.io/etcd 3.3.10 2c4adeb21b4f 21 months ago 258MB
k8s.gcr.io/pause 3.1 da86e6ba6ca1 2 years ago 742kB
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>docker push konduruvijaykumar/kubernetes-app2:v2.0
The push refers to repository [docker.io/konduruvijaykumar/kubernetes-app2]
b9edf1fbf818: Pushed
f24d8b358bb1: Mounted from konduruvijaykumar/kubernetes-app1
c8bcc49b9925: Mounted from konduruvijaykumar/kubernetes-app1
f0e1731fd286: Mounted from konduruvijaykumar/kubernetes-app1
2b6c38ff3137: Mounted from konduruvijaykumar/kubernetes-app1
d38f3d5a39fb: Mounted from konduruvijaykumar/kubernetes-app1
fe60061c6c4e: Mounted from konduruvijaykumar/kubernetes-app1
7d63f8777ebf: Mounted from konduruvijaykumar/kubernetes-app1
1b958b53b256: Mounted from konduruvijaykumar/kubernetes-app1
2c719774c1e1: Mounted from konduruvijaykumar/kubernetes-app1
ec62f19bb3aa: Mounted from konduruvijaykumar/kubernetes-app1
f94641f1fe1f: Mounted from konduruvijaykumar/kubernetes-app1
v2.0: digest: sha256:a7962a0492dec7e96be3365f61317936bdc61844543ded32fb838d00de896af7 size: 2838
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>

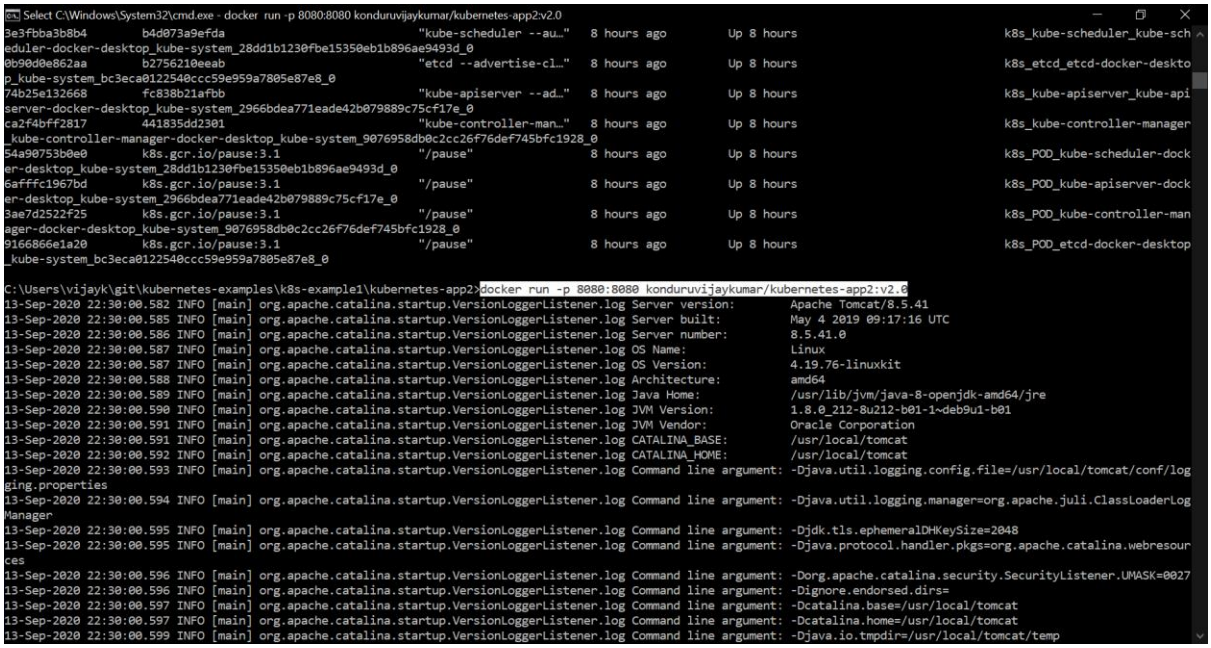

C:\Windows\System32\cmd.exe - docker run -p 8080:8080 konduruvijaykumar/kubernetes-app1:v2.0
7d63f8777ebf: Mounted from konduruvijaykumar/kubernetes-app1
1b958b53b256: Mounted from konduruvijaykumar/kubernetes-app1
2c719774c1e1: Mounted from konduruvijaykumar/kubernetes-app1
ec62f19bb3aa: Mounted from konduruvijaykumar/kubernetes-app1
f94641f1fe1f: Mounted from konduruvijaykumar/kubernetes-app1
v2.0: digest: sha256:a7962a0492dec7e96be3365f61317936bdc61844543ded32fb838d00de896af7 size: 2838
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>docker run -p 8080:8080 konduruvijaykumar/kubernetes-app1:v2.0
13-Sep-2020 22:25:17.168 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version: Apache Tomcat/8.5.41
13-Sep-2020 22:25:17.179 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server built: May 4 2019 09:17:16 UTC
13-Sep-2020 22:25:17.180 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server number: 8.5.41.0
13-Sep-2020 22:25:17.181 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Name: Linux
13-Sep-2020 22:25:17.182 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Version: 4.19.76-linuxkit
13-Sep-2020 22:25:17.183 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Architecture: amd64
13-Sep-2020 22:25:17.184 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Java Home: /usr/lib/jvm/java-8-openjdk-amd64/jre
13-Sep-2020 22:25:17.185 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Version: 1.8.0_212-8u212-b01-1~deb9u1-b01
13-Sep-2020 22:25:17.186 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Vendor: Oracle Corporation
13-Sep-2020 22:25:17.187 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_BASE: /usr/local/tomcat
13-Sep-2020 22:25:17.187 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_HOME: /usr/local/tomcat
13-Sep-2020 22:25:17.189 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.util.logging.config.file=/usr/local/tomcat/conf/logging.properties
13-Sep-2020 22:25:17.190 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager
13-Sep-2020 22:25:17.192 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djdk.tls.ephemeralDHKeySize=2048
13-Sep-2020 22:25:17.193 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.protocol.handler.pkgs=org.apache.catalina.webresources
13-Sep-2020 22:25:17.194 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dorg.apache.catalina.security.SecurityListener.UMASK=0027
13-Sep-2020 22:25:17.195 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dignore.endorsed.dirs=
13-Sep-2020 22:25:17.196 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.base=/usr/local/tomcat
13-Sep-2020 22:25:17.200 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.home=/usr/local/tomcat
13-Sep-2020 22:25:17.202 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.io.tmpdir=/usr/local/tomcat/temp
13-Sep-2020 22:25:17.203 INFO [main] org.apache.catalina.core.AprLifecycleListener.lifecycleEvent Loaded APR based Apache Tomcat Native library [1.2.21] using APR version [1.5.2].
13-Sep-2020 22:25:17.204 INFO [main] org.apache.catalina.core.AprLifecycleListener.lifecycleEvent APR capabilities: IPv6 [true], sendfile [true], accept filters [false], random [true].
13-Sep-2020 22:25:17.207 INFO [main] org.apache.catalina.core.AprLifecycleListener.lifecycleEvent APR/OpenSSL configuration: useAprConnector [false], useOpenSSL [true]
13-Sep-2020 22:25:17.240 INFO [main] org.apache.catalina.core.AprLifecycleListener.initializeSSL OpenSSL successfully initialized [OpenSSL 1.1.0j 20 Nov 2018]
13-Sep-2020 22:25:17.567 INFO [main] org.apache.coyote.AbstractProtocol.init Initializing ProtocolHandler ["http-nio-8080"]
13-Sep-2020 22:25:17.645 INFO [main] org.apache.tomcat.util.net.NioSelectorPool.getSharedSelector Using a shared selector for servlet write/read
13-Sep-2020 22:25:17.681 INFO [main] org.apache.coyote.AbstractProtocol.init Initializing ProtocolHandler ["ajp-nio-8009"]
13-Sep-2020 22:25:17.684 INFO [main] org.apache.tomcat.util.net.NioSelectorPool.getSharedSelector Using a shared selector for servlet write/read

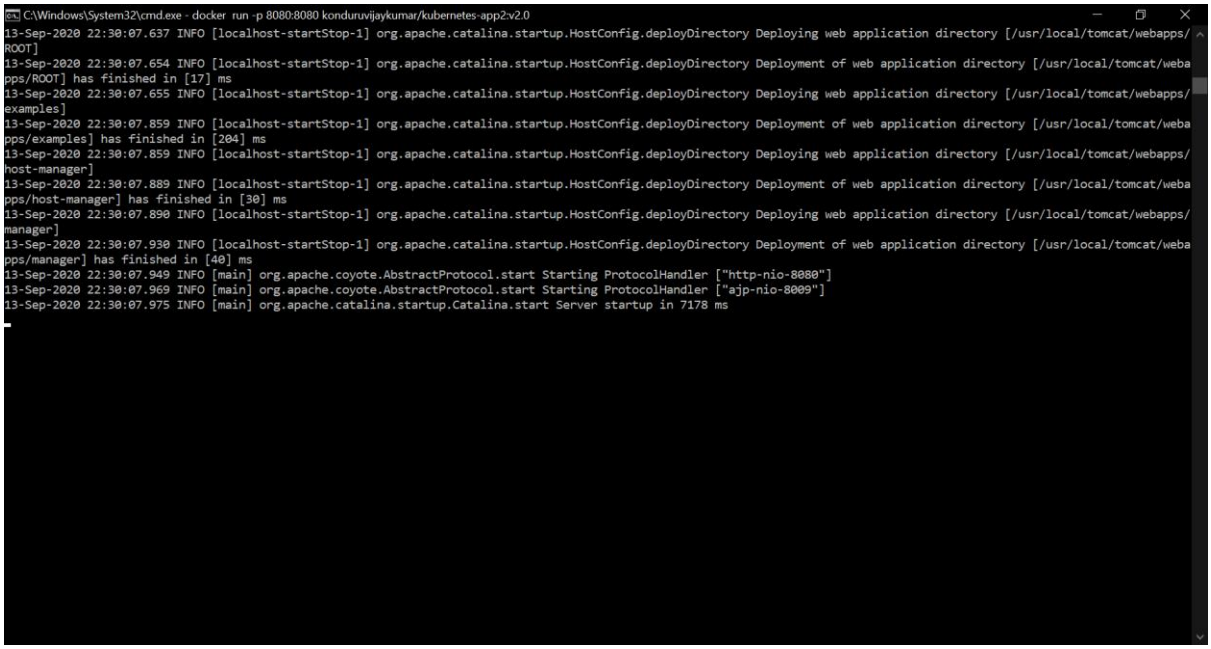

C:\Windows\System32\cmd.exe - docker run -p 8080:8080 konduruvijaykumar/kubernetes-app1:v2.0
JSP compilation time.
13-Sep-2020 22:25:31.962 WARNING [localhost-startStop-1] org.apache.catalina.util.SessionIdGeneratorBase.createSecureRandom Creation of SecureRandom instance for session ID generation using [SHA1PRNG] took [110] milliseconds.
13-Sep-2020 22:25:32.009 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployWAR Deployment of web application archive [/usr/local/tomcat/webapps/app1.war] has finished in [14,196] ms
13-Sep-2020 22:25:32.012 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/docs]
13-Sep-2020 22:25:32.055 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/docs] has finished in [42] ms
13-Sep-2020 22:25:32.058 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/ROOT]
13-Sep-2020 22:25:32.154 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/ROOT] has finished in [96] ms
13-Sep-2020 22:25:32.158 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/examples]
13-Sep-2020 22:25:33.756 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/examples] has finished in [1,597] ms
13-Sep-2020 22:25:33.757 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/host-manager]
13-Sep-2020 22:25:33.961 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/host-manager] has finished in [204] ms
13-Sep-2020 22:25:33.961 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/manager]
13-Sep-2020 22:25:34.113 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/manager] has finished in [152] ms
13-Sep-2020 22:25:34.161 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
13-Sep-2020 22:25:34.260 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["ajp-nio-8009"]
13-Sep-2020 22:25:34.344 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in 16656 ms

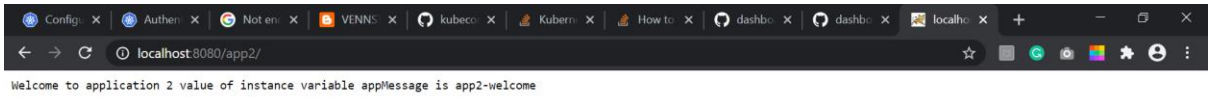

localhost:8080
Home
Documentation
Configuration
Examples
Wiki
Mailing Lists
Find Help
Apache Tomcat/8.5.41
If you're seeing this, you've successfully installed Tomcat. Congratulations!
Recommended Reading:
Security Considerations HOW-TO
Manager Application HOW-TO
Clustering/Session Replication HOW-TO
Server Status
Manager App
Host Manager
Developer Quick Start
Tomcat Setup
First Web Application
Realms & AAA
JDBC DataSources
Examples
Servlet Specifications
Tomcat Versions
Managing Tomcat
For security, access to the manager webapp is restricted. Users are defined in:
$CATALINA_HOME/conf/tomcat-users.xml
In Tomcat 8.5 access to the manager application is split between different users.
Read more...
Release Notes
Documentation
Tomcat 8.5 Documentation
Tomcat 8.5 Configuration
Tomcat Wiki
Find additional important configuration information in:
$CATALINA_HOME/RUNNING.txt
Getting Help
FAQ and Mailing Lists
The following mailing lists are available:
tomcat-announce
Important announcements, releases, security vulnerability notifications. (Low volume).
tomcat-users
User support and discussion


localhost:8080/app1/
Welcome to application 1 value of instance variable appMessage is app1-welcome

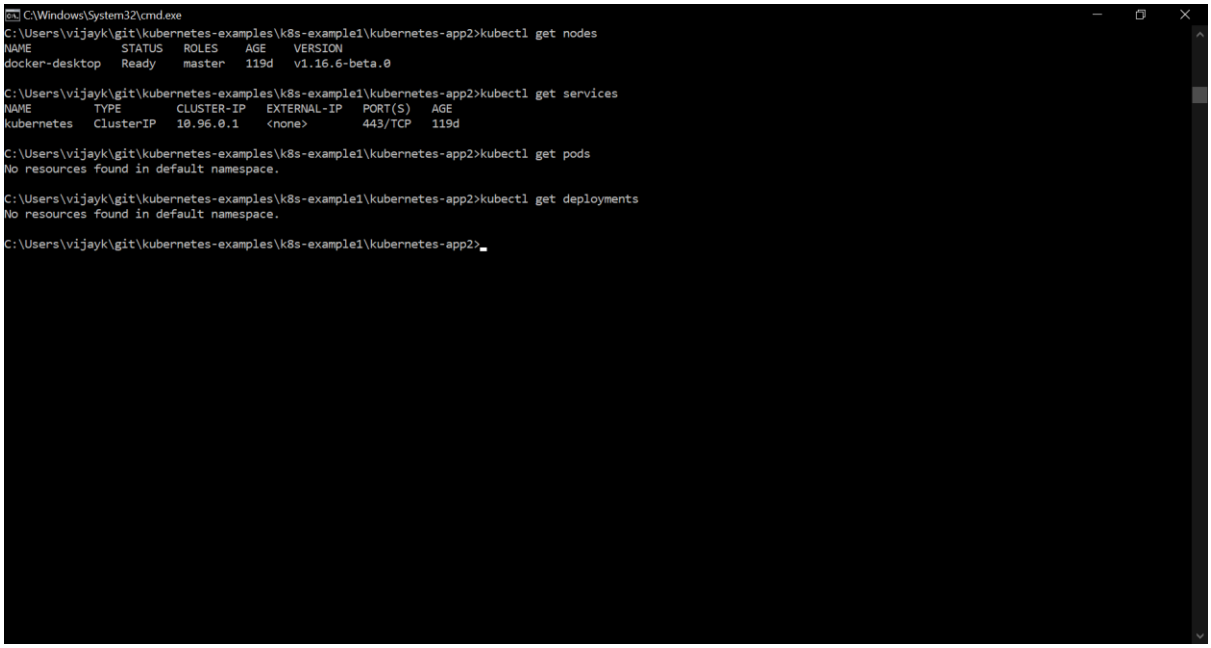

Select C:\Windows\System32\cmd.exe
8f95d4f8c-jcsw8_docker_3117f49d-246f-450f-b424-2f27455e3695_0
9b2763094c12 k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_vpnkit-controller_kube-system_99b1e957-316a-4def-844e-76fc63a0e623_0
c963ac60f3a4 0ee1b8a3ebe0 "/usr/local/bin/kube…" 8 hours ago Up 8 hours k8s_kube-proxy_kube-proxy-h6f2k_kube-system_3f036d1d-f4d1-4a9b-b0ed-6943bd388648_0
2a15cf8561e0 k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_compose-78f95d4f8c-jcsw8_docker_3117f49d-246f-450f-b424-2f27455e3695_0
8314570ab1ec k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_kube-proxy-h6f2k_kube-system_3f036d1d-f4d1-4a9b-b0ed-6943bd388648_0
3e3fbba3b8b4 b4d073a9efda "kube-scheduler --au…" 8 hours ago Up 8 hours k8s_kube-scheduler_kube-scheduler-docker-desktop_kube-system_28dd1b1230fbe15350eb1b896ae9493d_0
0b90d0e862aa b2756210eeab "etcd --advertise-cl…" 8 hours ago Up 8 hours k8s_etcd_etcd-docker-desktop_kube-system_bc3eca0122540ccc59e959a7805e87e8_0
74b25e132668 fc838b21afbb "kube-apiserver --ad…" 8 hours ago Up 8 hours k8s_kube-apiserver_kube-apiserver-docker-desktop_kube-system_2966bdea771eade42b079889c75cf17e_0
ca2f4bff2817 441835dd2301 "kube-controller-man…" 8 hours ago Up 8 hours k8s_kube-controller-manager_kube-controller-manager-docker-desktop_kube-system_9076958db0c2cc26f76def745bfc1928_0
54a90753b0e0 k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_kube-scheduler-docker-desktop_kube-system_28dd1b1230fbe15350eb1b896ae9493d_0
6afffc1967bd k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_kube-apiserver-docker-desktop_kube-system_2966bdea771eade42b079889c75cf17e_0
3ae7d2522f25 k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_kube-controller-manager-docker-desktop_kube-system_9076958db0c2cc26f76def745bfc1928_0
9166866e1a20 k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_etcd-docker-desktop_kube-system_bc3eca0122540ccc59e959a7805e87e8_0
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>docker stop 275417d58f10
275417d58f10
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
bf96a0b46d10 kubernetesui/dashboard "/dashboard --insecu…" 49 minutes ago Up 49 minutes k8s_kubernetes-dashboard_kubernetes-dashboard-56484d4c5-z2q5c_kubernetes-dashboard_746f8eb7-a88c-4010-b2c8-b69e3e8d3666_0
bbdd93e1b7f4 86262685d9ab "/metrics-sidecar" 49 minutes ago Up 49 minutes k8s_dashboard-metrics-scraper_dashboard-metrics-scraper-c79c65bb7-d88ww_kubernetes-dashboard_2bfb5ad3-ab62-4488-8d74-2ff25d171496_0
a5e2a763e4b1 k8s.gcr.io/pause:3.1 "/pause" 49 minutes ago Up 49 minutes k8s_POD_dashboard-metrics-scraper-c79c65bb7-d88ww_kubernetes-dashboard_2bfb5ad3-ab62-4488-8d74-2ff25d171496_0
651c4fbc88e3 k8s.gcr.io/pause:3.1 "/pause" 49 minutes ago Up 49 minutes k8s_POD_kubernetes-dashboard-56484d4c5-z2q5c_kubernetes-dashboard_746f8eb7-a88c-4010-b2c8-b69e3e8d3666_0
03fd1e252ecd k8s.gcr.io/kubernetes-dashboard-amd64 "/dashboard --insecu…" 2 hours ago Up 2 hours k8s_kubernetes-dashboard_kubernetes-dashboard-7c54d59f66-gjk4d_kube-system_04fccdab-836b-4e4d-95ce-2b0c3baf5460_0

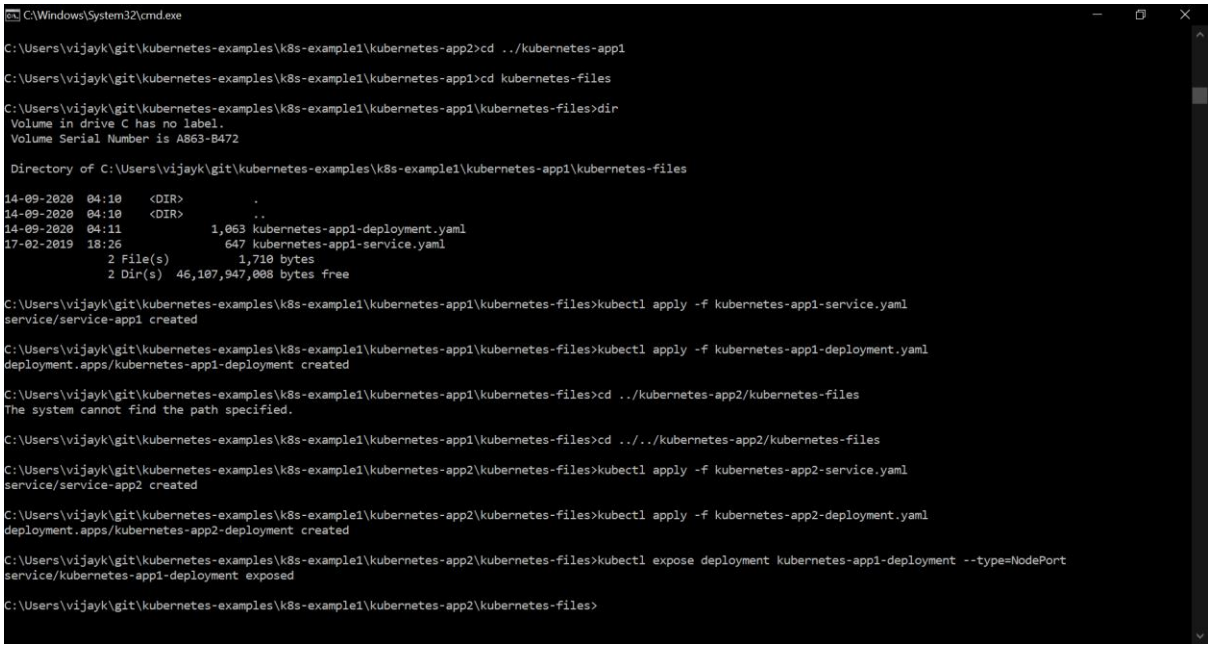

Select C:\Windows\System32\cmd.exe - docker run -p 8080:8080 konduruvijaykumar/kubernetes-app2:v2.0
3e3fbba3b8b4 b4d073a9efda "kube-scheduler --au…" 8 hours ago Up 8 hours k8s_kube-scheduler_kube-scheduler-docker-desktop_kube-system_28dd1b1230fbe15350eb1b896ae9493d_0
0b90d0e862aa b2756210eeab "etcd --advertise-cl…" 8 hours ago Up 8 hours k8s_etcd_etcd-docker-desktop_kube-system_bc3eca0122540ccc59e959a7805e87e8_0
74b25e132668 fc838b21afbb "kube-apiserver --ad…" 8 hours ago Up 8 hours k8s_kube-apiserver_kube-apiserver-docker-desktop_kube-system_2966bdea771eade42b079889c75cf17e_0
ca2f4bff2817 441835dd2301 "kube-controller-man…" 8 hours ago Up 8 hours k8s_kube-controller-manager_kube-controller-manager-docker-desktop_kube-system_9076958db0c2cc26f76def745bfc1928_0
54a90753b0e0 k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_kube-scheduler-docker-desktop_kube-system_28dd1b1230fbe15350eb1b896ae9493d_0
6afffc1967bd k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_kube-apiserver-docker-desktop_kube-system_2966bdea771eade42b079889c75cf17e_0
3ae7d2522f25 k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_kube-controller-manager-docker-desktop_kube-system_9076958db0c2cc26f76def745bfc1928_0
9166866e1a20 k8s.gcr.io/pause:3.1 "/pause" 8 hours ago Up 8 hours k8s_POD_etcd-docker-desktop_kube-system_bc3eca0122540ccc59e959a7805e87e8_0
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>docker run -p 8080:8080 konduruvijaykumar/kubernetes-app2:v2.0
13-Sep-2020 22:30:00.582 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version: Apache Tomcat/8.5.41
13-Sep-2020 22:30:00.585 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server built: May 4 2019 09:17:16 UTC
13-Sep-2020 22:30:00.586 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server number: 8.5.41.0
13-Sep-2020 22:30:00.587 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Name: Linux
13-Sep-2020 22:30:00.587 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Version: 4.19.76-linuxkit
13-Sep-2020 22:30:00.588 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Architecture: amd64
13-Sep-2020 22:30:00.589 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Java Home: /usr/lib/jvm/java-8-openjdk-amd64/jre
13-Sep-2020 22:30:00.590 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Version: 1.8.0_212-8u212-b01-1~deb9u1-b01
13-Sep-2020 22:30:00.591 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Vendor: Oracle Corporation
13-Sep-2020 22:30:00.591 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_BASE: /usr/local/tomcat
13-Sep-2020 22:30:00.592 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_HOME: /usr/local/tomcat
13-Sep-2020 22:30:00.593 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.util.logging.config.file=/usr/local/tomcat/conf/logging.properties
13-Sep-2020 22:30:00.594 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager
13-Sep-2020 22:30:00.595 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djdk.tls.ephemeralDHKeySize=2048
13-Sep-2020 22:30:00.595 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.protocol.handler.pkgs=org.apache.catalina.webresources
13-Sep-2020 22:30:00.596 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dorg.apache.catalina.security.SecurityListener.UMASK=0027
13-Sep-2020 22:30:00.596 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dignore.endorsed.dirs=
13-Sep-2020 22:30:00.597 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.base=/usr/local/tomcat
13-Sep-2020 22:30:00.597 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.home=/usr/local/tomcat
13-Sep-2020 22:30:00.599 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.io.tmpdir=/usr/local/tomcat/temp


C:\Windows\System32\cmd.exe - docker run -p 8080:8080 konduruvijaykumar/kubernetes-app2:v2.0
13-Sep-2020 22:30:07.637 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/ROOT]
13-Sep-2020 22:30:07.654 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/ROOT] has finished in [17] ms
13-Sep-2020 22:30:07.655 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/examples]
13-Sep-2020 22:30:07.859 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/examples] has finished in [204] ms
13-Sep-2020 22:30:07.859 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/host-manager]
13-Sep-2020 22:30:07.889 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/host-manager] has finished in [30] ms
13-Sep-2020 22:30:07.890 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/manager]
13-Sep-2020 22:30:07.930 INFO [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/manager] has finished in [40] ms
13-Sep-2020 22:30:07.949 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
13-Sep-2020 22:30:07.969 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["ajp-nio-8009"]
13-Sep-2020 22:30:07.975 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in 7178 ms

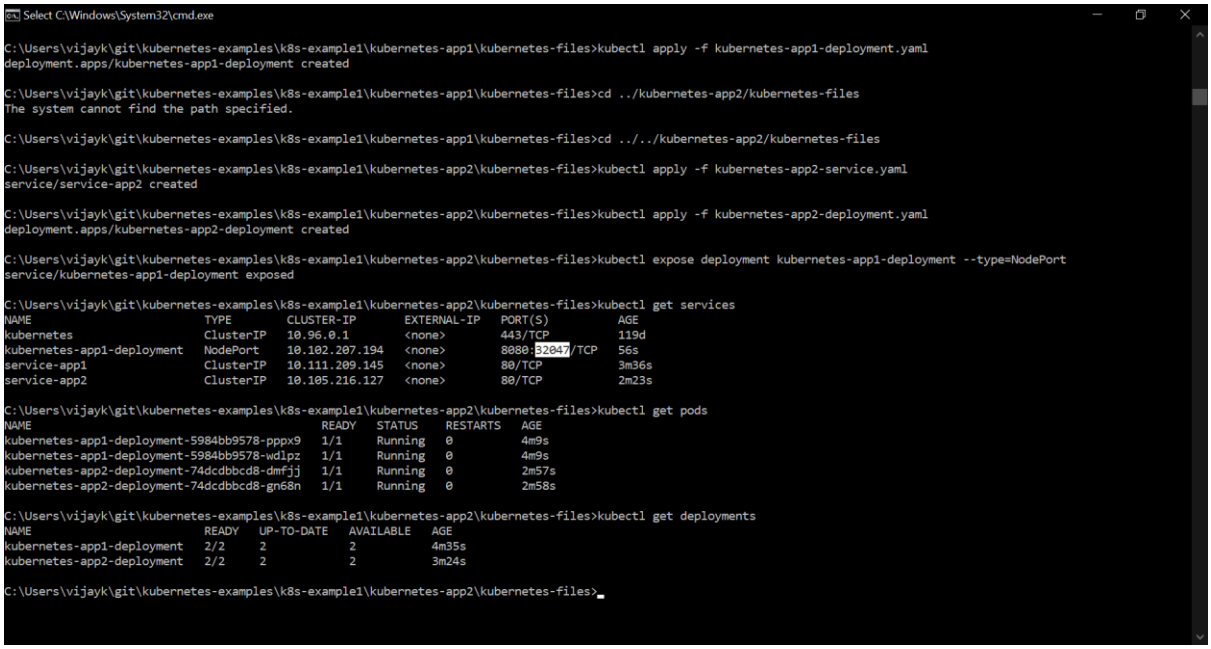


Kubernetes Work



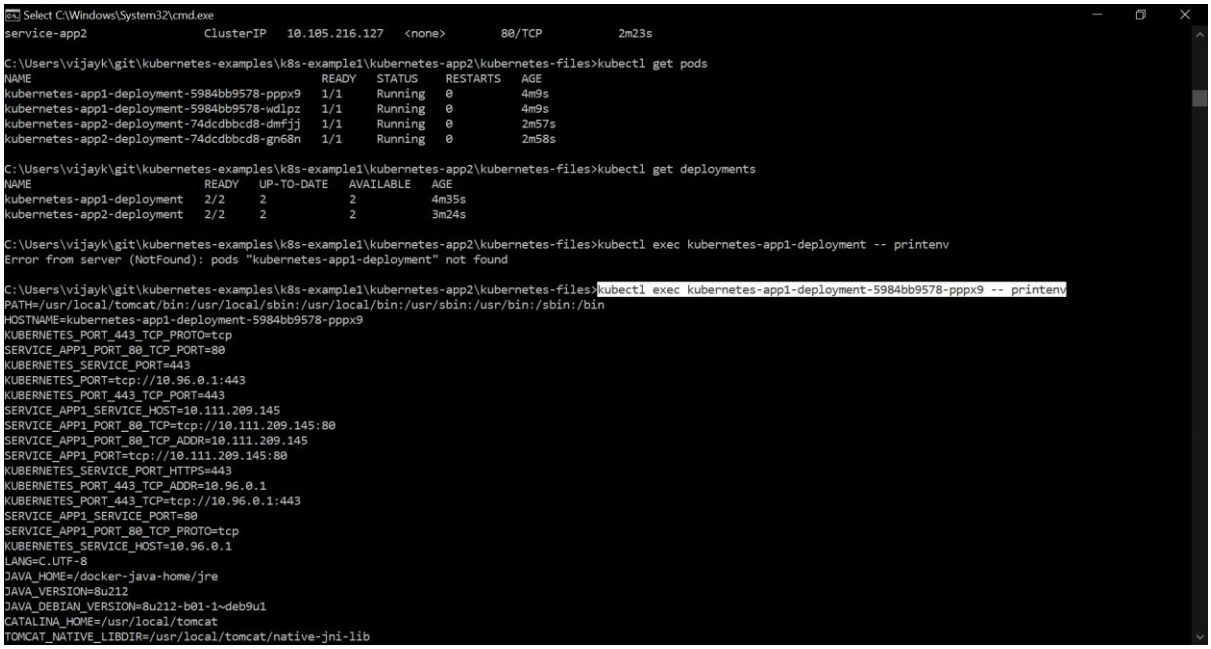


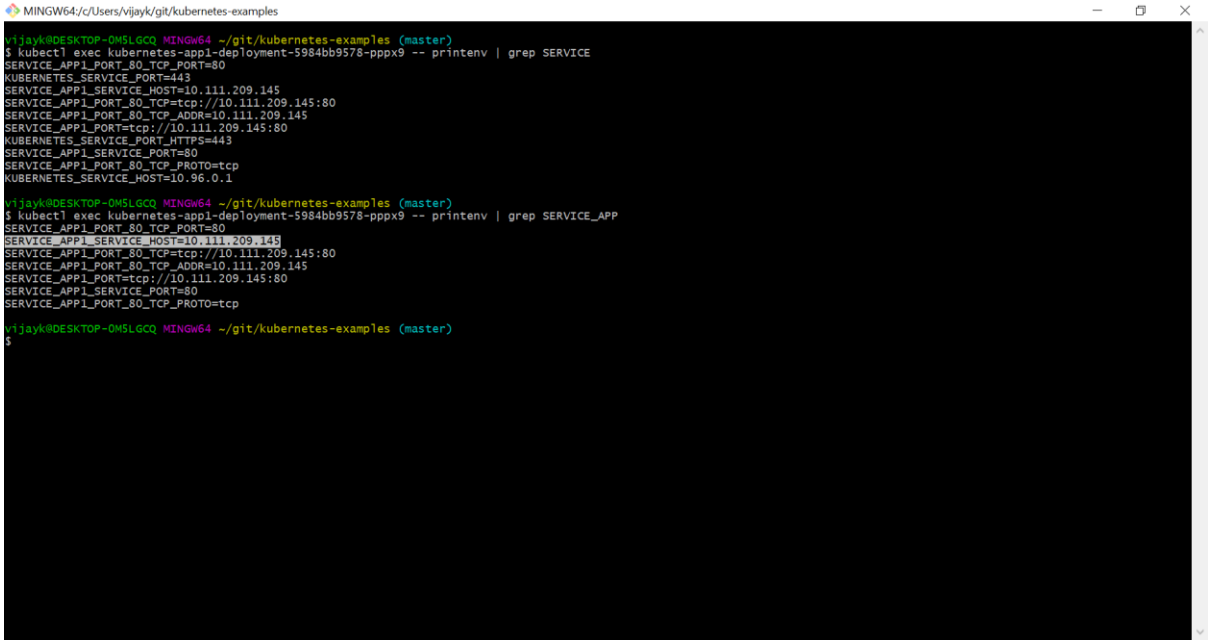
```
C:\Windows\System32\cmd.exe

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>cd ../kubernetes-app1

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1>cd kubernetes-files

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files>dir
 Volume in drive C has no label.
 Volume Serial Number is A863-B472

 Directory of C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files

14-09-2020  04:10    <DIR>          .
14-09-2020  04:10    <DIR>          ..
14-09-2020  04:11             1,063 kubernetes-app1-deployment.yaml
17-02-2019  18:26               647 kubernetes-app1-service.yaml
               2 File(s)          1,710 bytes
               2 Dir(s)  46,107,947,008 bytes free

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files>kubectl apply -f kubernetes-app1-service.yaml
service/service-app1 created

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files>kubectl apply -f kubernetes-app1-deployment.yaml
deployment.apps/kubernetes-app1-deployment created

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files>cd ../kubernetes-app2/kubernetes-files
The system cannot find the path specified.

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files>cd ../../kubernetes-app2/kubernetes-files

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl apply -f kubernetes-app2-service.yaml
service/service-app2 created

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl apply -f kubernetes-app2-deployment.yaml
deployment.apps/kubernetes-app2-deployment created

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl expose deployment kubernetes-app1-deployment --type=NodePort
service/kubernetes-app1-deployment exposed

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>
```

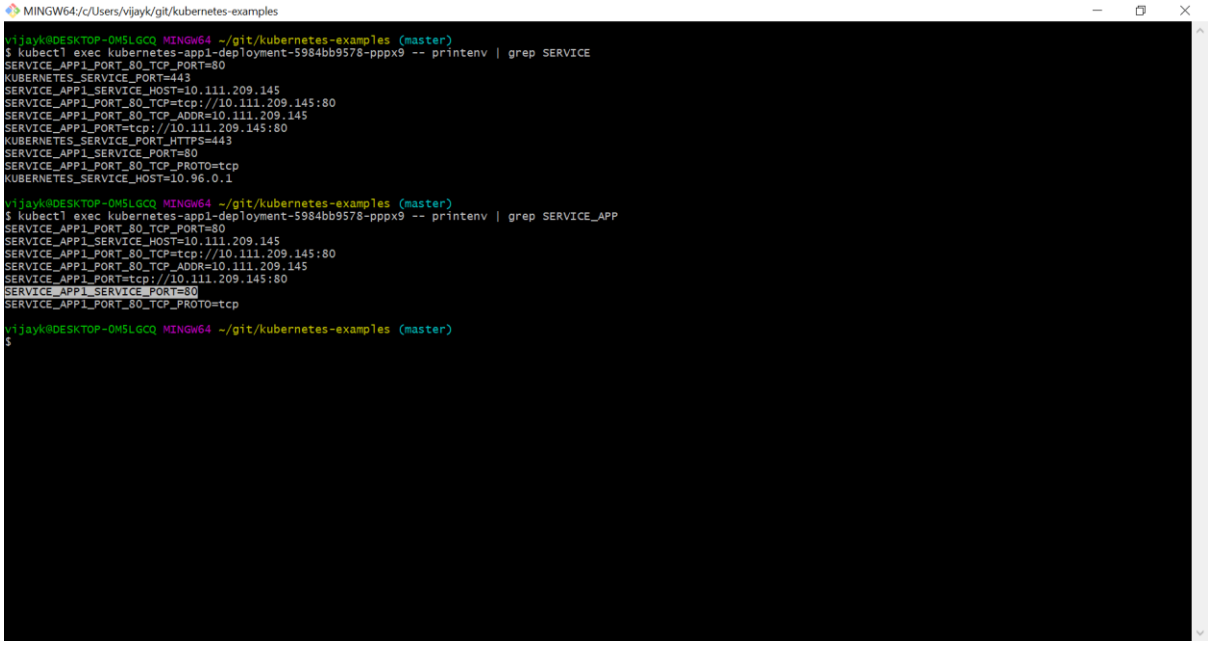


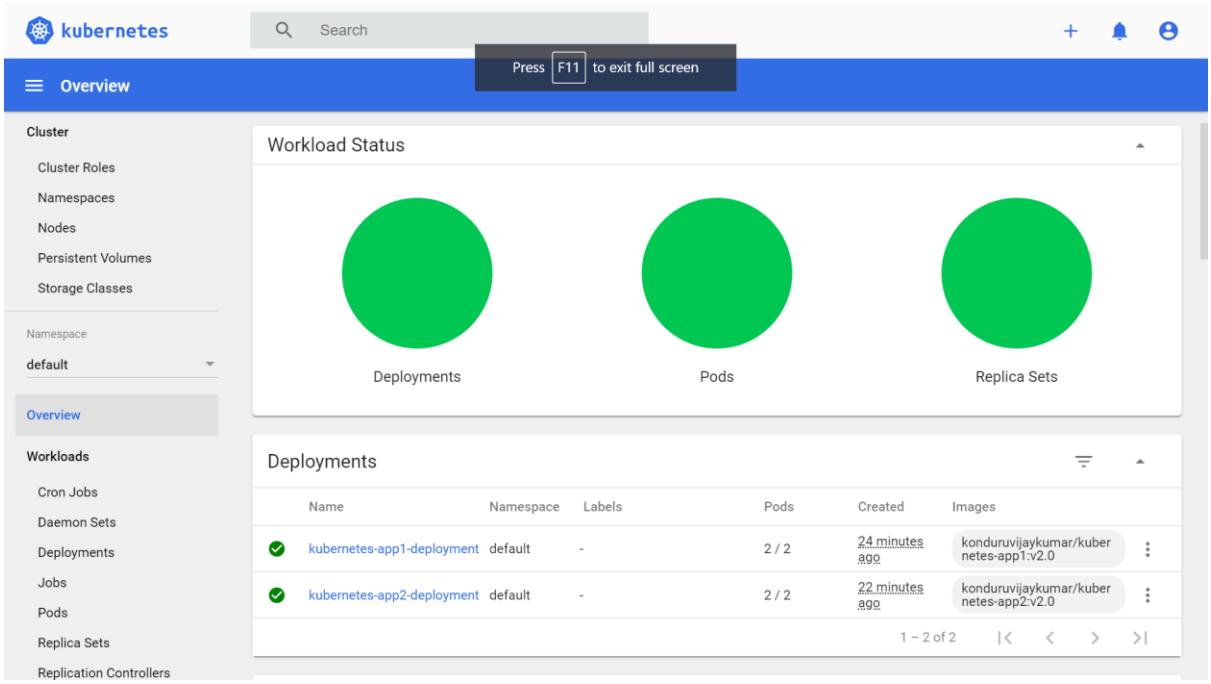
```
Select C:\Windows\System32\cmd.exe

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files>kubectl apply -f kubernetes-app1-deployment.yaml
deployment.apps/kubernetes-app1-deployment created

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files>cd ../kubernetes-app2/kubernetes-files
The system cannot find the path specified.

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files>cd ../../kubernetes-app2/kubernetes-files

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl apply -f kubernetes-app2-service.yaml
service/service-app2 created

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl apply -f kubernetes-app2-deployment.yaml
deployment.apps/kubernetes-app2-deployment created

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl expose deployment kubernetes-app1-deployment --type=NodePort
service/kubernetes-app1-deployment exposed

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl get services
NAME                         TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)          AGE
kubernetes                   ClusterIP   10.96.0.1        <none>        443/TCP          119d
kubernetes-app1-deployment   NodePort    10.102.207.194   <none>        8080:32047/TCP   56s
service-app1                 ClusterIP   10.111.209.145   <none>        80/TCP           3m36s
service-app2                 ClusterIP   10.105.216.127   <none>        80/TCP           2m23s

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl get pods
NAME                                         READY   STATUS    RESTARTS   AGE
kubernetes-app1-deployment-5984bb9578-pppx9   1/1     Running   0          4m9s
kubernetes-app1-deployment-5984bb9578-wdlpz   1/1     Running   0          4m9s
kubernetes-app2-deployment-74dcdbbcd8-dmfjj   1/1     Running   0          2m57s
kubernetes-app2-deployment-74dcdbbcd8-gn68n   1/1     Running   0          2m58s

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl get deployments
NAME                         READY   UP-TO-DATE   AVAILABLE   AGE
kubernetes-app1-deployment   2/2     2            2           4m35s
kubernetes-app2-deployment   2/2     2            2           3m24s

C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>
```

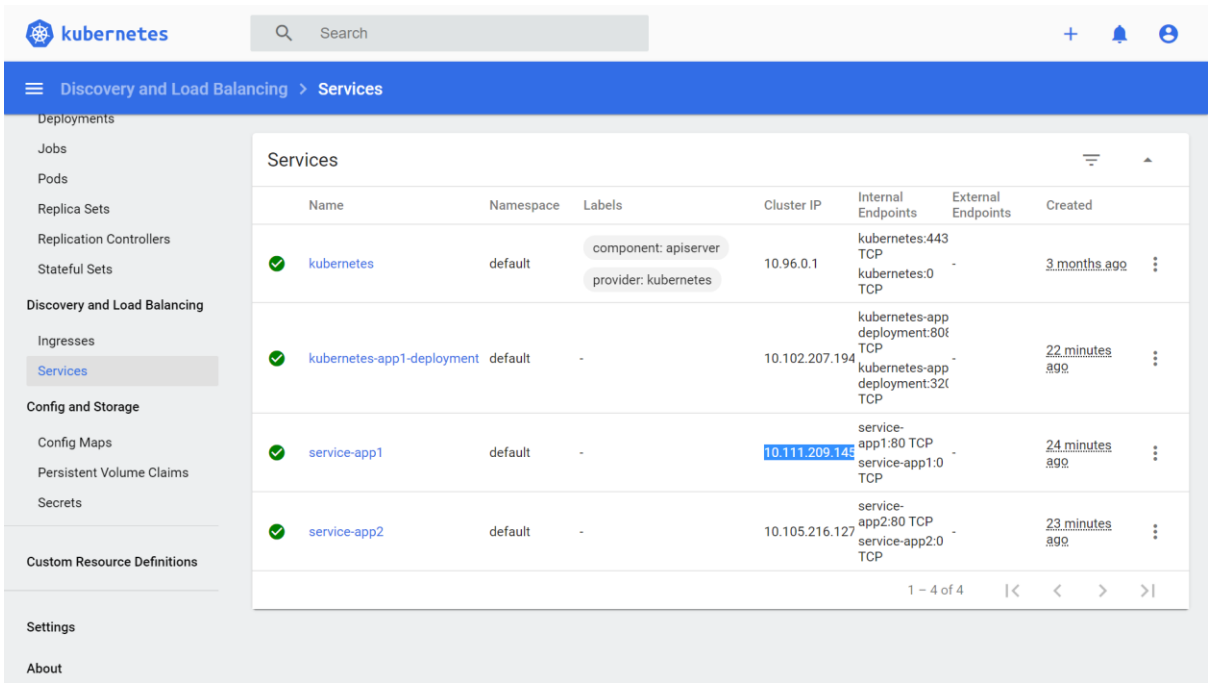

localhost:32047/app1/
localhost:32047/app1/
Welcome to application 1 value of instance variable appMessage is app1-welcome

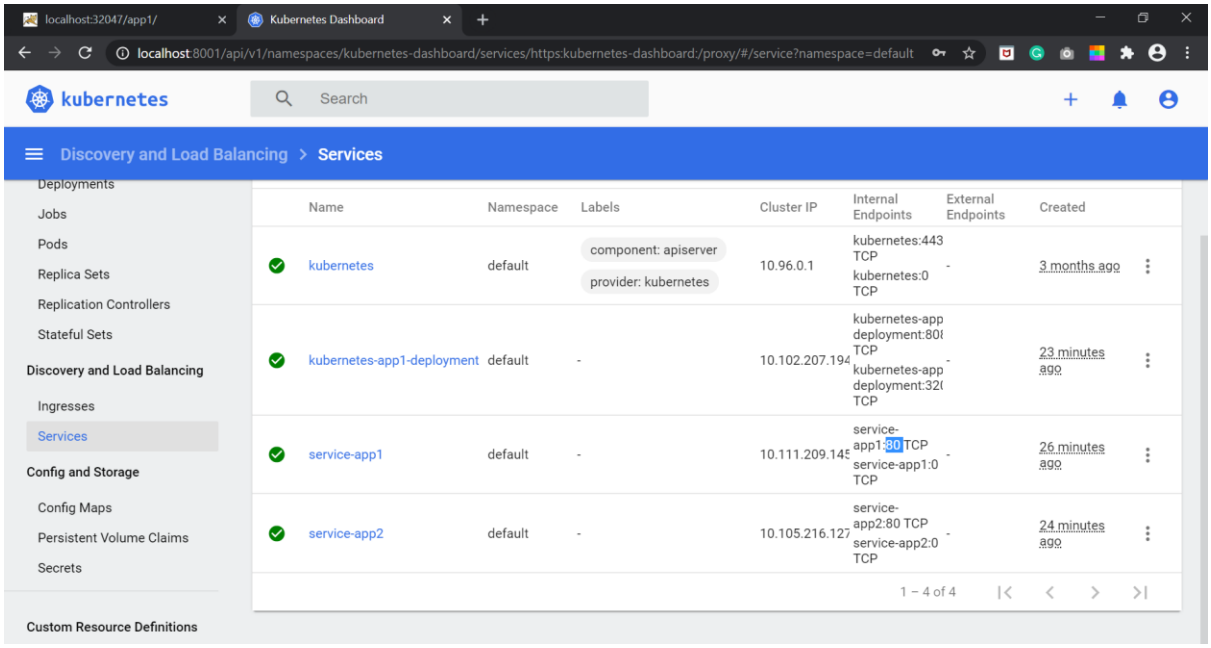

Select C:\Windows\System32\cmd.exe
service-app2 ClusterIP 10.105.216.127 <none> 80/TCP 2m23s
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl get pods
NAME READY STATUS RESTARTS AGE
kubernetes-app1-deployment-5984bb9578-pppx9 1/1 Running 0 4m9s
kubernetes-app1-deployment-5984bb9578-wdlpz 1/1 Running 0 4m9s
kubernetes-app2-deployment-74dcdbbcd8-dmfjj 1/1 Running 0 2m57s
kubernetes-app2-deployment-74dcdbbcd8-gn68n 1/1 Running 0 2m58s
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
kubernetes-app1-deployment 2/2 2 2 4m35s
kubernetes-app2-deployment 2/2 2 2 3m24s
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl exec kubernetes-app1-deployment -- printenv
Error from server (NotFound): pods "kubernetes-app1-deployment" not found
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl exec kubernetes-app1-deployment-5984bb9578-pppx9 -- printenv
PATH=/usr/local/tomcat/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
HOSTNAME=kubernetes-app1-deployment-5984bb9578-pppx9
KUBERNETES_PORT_443_TCP_PROTO=tcp
SERVICE_APP1_PORT_80_TCP_PORT=80
KUBERNETES_SERVICE_PORT=443
KUBERNETES_PORT=tcp://10.96.0.1:443
KUBERNETES_PORT_443_TCP_PORT=443
SERVICE_APP1_SERVICE_HOST=10.111.209.145
SERVICE_APP1_PORT_80_TCP=tcp://10.111.209.145:80
SERVICE_APP1_PORT_80_TCP_ADDR=10.111.209.145
SERVICE_APP1_PORT=tcp://10.111.209.145:80
KUBERNETES_SERVICE_PORT_HTTPS=443
KUBERNETES_PORT_443_TCP_ADDR=10.96.0.1
KUBERNETES_PORT_443_TCP=tcp://10.96.0.1:443
SERVICE_APP1_SERVICE_PORT=80
SERVICE_APP1_PORT_80_TCP_PROTO=tcp
KUBERNETES_SERVICE_HOST=10.96.0.1
LANG=C.UTF-8
JAVA_HOME=/docker-java-home/jre
JAVA_VERSION=8u212
JAVA_DEBIAN_VERSION=8u212-b01-1~deb9u1
CATALINA_HOME=/usr/local/tomcat
TOMCAT_NATIVE_LIBDIR=/usr/local/tomcat/native-jni-lib

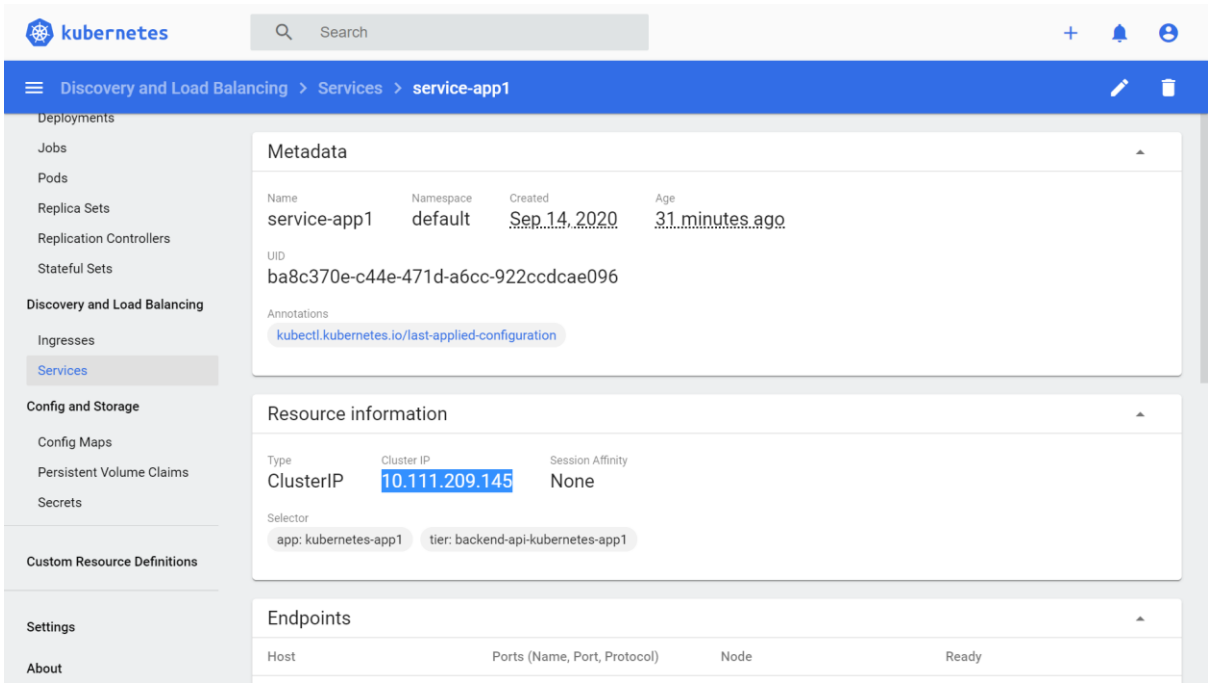

MINGW64:/c/Users/vijayk/git/kubernetes-examples
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl exec kubernetes-app1-deployment-5984bb9578-pppx9 -- printenv | grep SERVICE
SERVICE_APP1_PORT_80_TCP_PORT=80
KUBERNETES_SERVICE_PORT=443
SERVICE_APP1_SERVICE_HOST=10.111.209.145
SERVICE_APP1_PORT_80_TCP=tcp://10.111.209.145:80
SERVICE_APP1_PORT_80_TCP_ADDR=10.111.209.145
SERVICE_APP1_PORT=tcp://10.111.209.145:80
KUBERNETES_SERVICE_PORT_HTTPS=443
SERVICE_APP1_SERVICE_PORT=80
SERVICE_APP1_PORT_80_TCP_PROTO=tcp
KUBERNETES_SERVICE_HOST=10.96.0.1
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl exec kubernetes-app1-deployment-5984bb9578-pppx9 -- printenv | grep SERVICE_APP
SERVICE_APP1_PORT_80_TCP_PORT=80
SERVICE_APP1_SERVICE_HOST=10.111.209.145
SERVICE_APP1_PORT_80_TCP=tcp://10.111.209.145:80
SERVICE_APP1_PORT_80_TCP_ADDR=10.111.209.145
SERVICE_APP1_PORT=tcp://10.111.209.145:80
SERVICE_APP1_SERVICE_PORT=80
SERVICE_APP1_PORT_80_TCP_PROTO=tcp
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$

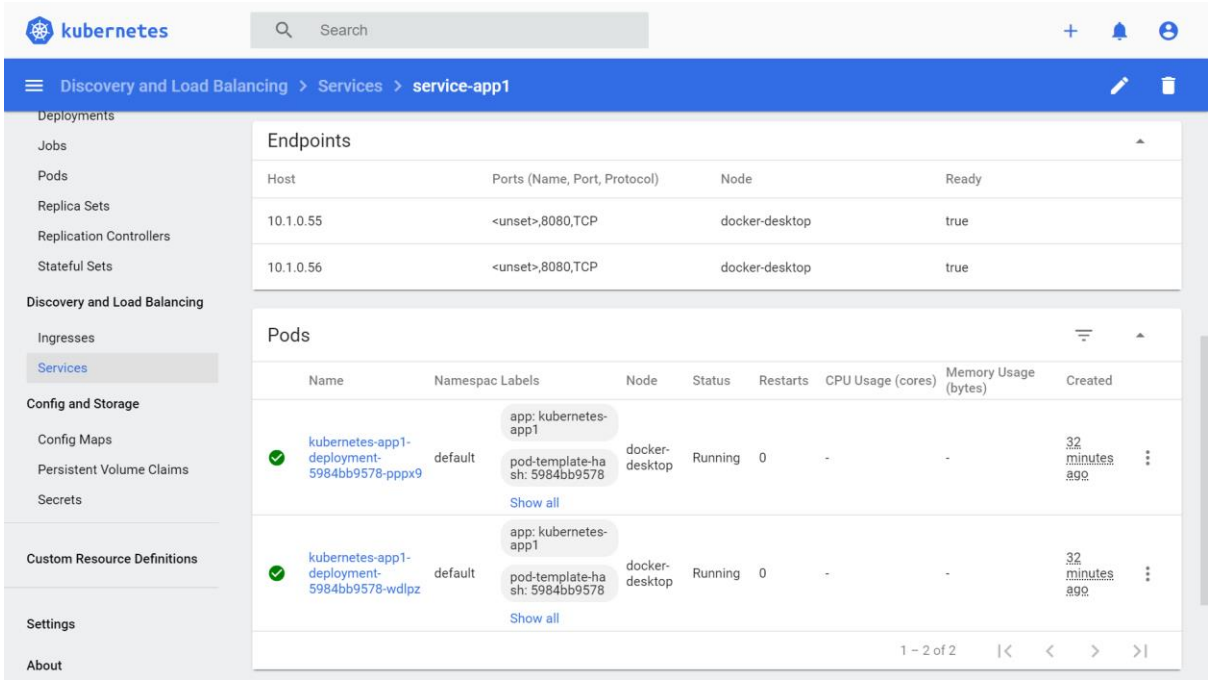

MINGW64:/c/Users/vijayk/git/kubernetes-examples
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl exec kubernetes-app1-deployment-5984bb9578-pppx9 -- printenv | grep SERVICE
SERVICE_APP1_PORT_80_TCP_PORT=80
KUBERNETES_SERVICE_PORT=443
SERVICE_APP1_SERVICE_HOST=10.111.209.145
SERVICE_APP1_PORT_80_TCP=tcp://10.111.209.145:80
SERVICE_APP1_PORT_80_TCP_ADDR=10.111.209.145
SERVICE_APP1_PORT=tcp://10.111.209.145:80
KUBERNETES_SERVICE_PORT_HTTPS=443
SERVICE_APP1_SERVICE_PORT=80
SERVICE_APP1_PORT_80_TCP_PROTO=tcp
KUBERNETES_SERVICE_HOST=10.96.0.1
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl exec kubernetes-app1-deployment-5984bb9578-pppx9 -- printenv | grep SERVICE_APP
SERVICE_APP1_PORT_80_TCP_PORT=80
SERVICE_APP1_SERVICE_HOST=10.111.209.145
SERVICE_APP1_PORT_80_TCP=tcp://10.111.209.145:80
SERVICE_APP1_PORT_80_TCP_ADDR=10.111.209.145
SERVICE_APP1_PORT=tcp://10.111.209.145:80
SERVICE_APP1_SERVICE_PORT=80
SERVICE_APP1_PORT_80_TCP_PROTO=tcp
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$

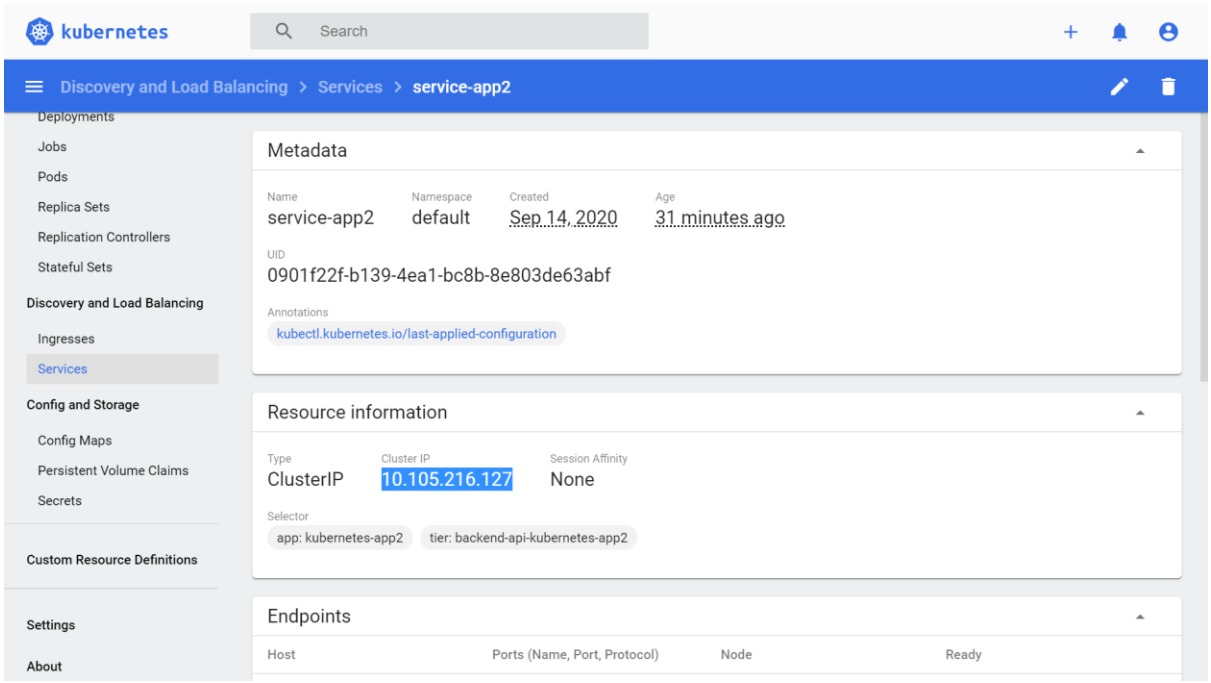

kubernetes
Search
Press F11 to exit full screen
Overview
Cluster
Cluster Roles
Namespaces
Nodes
Persistent Volumes
Storage Classes
Namespace
default
Overview
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Workload Status
Deployments
Pods
Replica Sets
Deployments
Name
Namespace
Labels
Pods
Created
Images
kubernetes-app1-deployment
default
-
2 / 2
24 minutes ago
konduruvijaykumar/kubernetes-app1:v2.0
kubernetes-app2-deployment
default
-
2 / 2
22 minutes ago
konduruvijaykumar/kubernetes-app2:v2.0
1 – 2 of 2

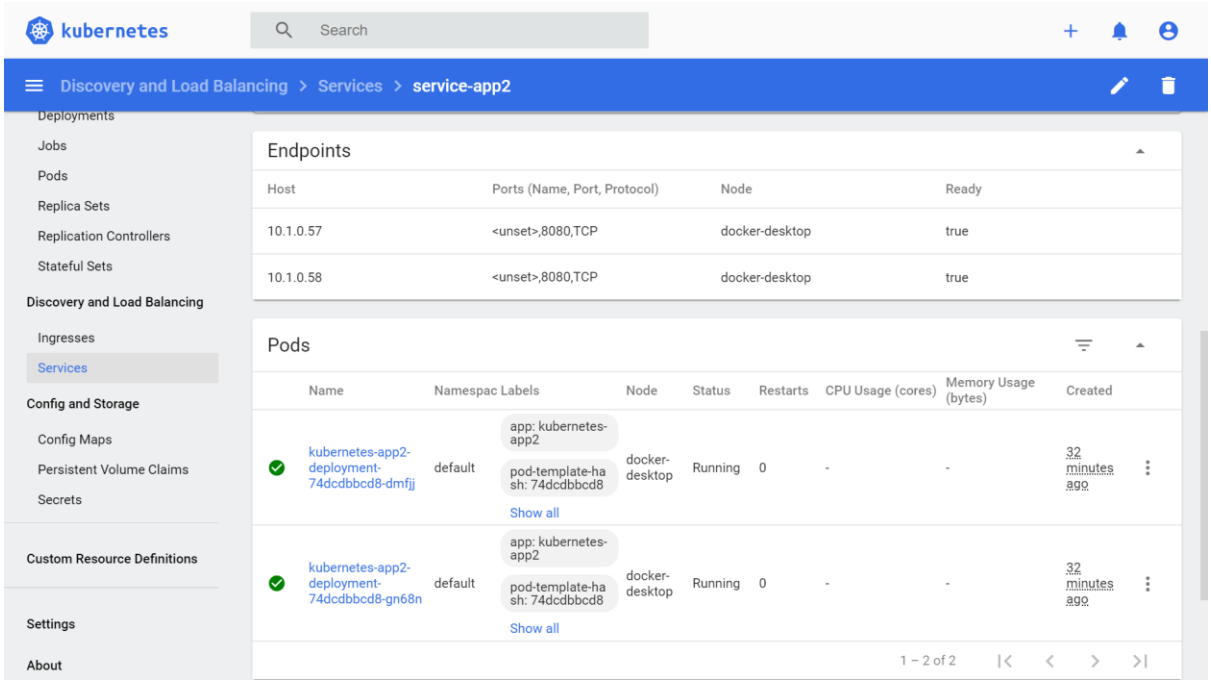

kubernetes
Search
Discovery and Load Balancing > Services
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing
Ingresses
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Custom Resource Definitions
Settings
About
Services
Name
Namespace
Labels
Cluster IP
Internal Endpoints
External Endpoints
Created
kubernetes
default
component: apiserver
provider: kubernetes
10.96.0.1
kubernetes:443 TCP
kubernetes:0 TCP
-
3 months ago
kubernetes-app1-deployment
default
-
10.102.207.194
kubernetes-app deployment:80 TCP
kubernetes-app deployment:32 TCP
-
22 minutes ago
service-app1
default
-
10.111.209.145
service-app1:80 TCP
service-app1:0 TCP
-
24 minutes ago
service-app2
default
-
10.105.216.127
service-app2:80 TCP
service-app2:0 TCP
-
23 minutes ago
1 – 4 of 4

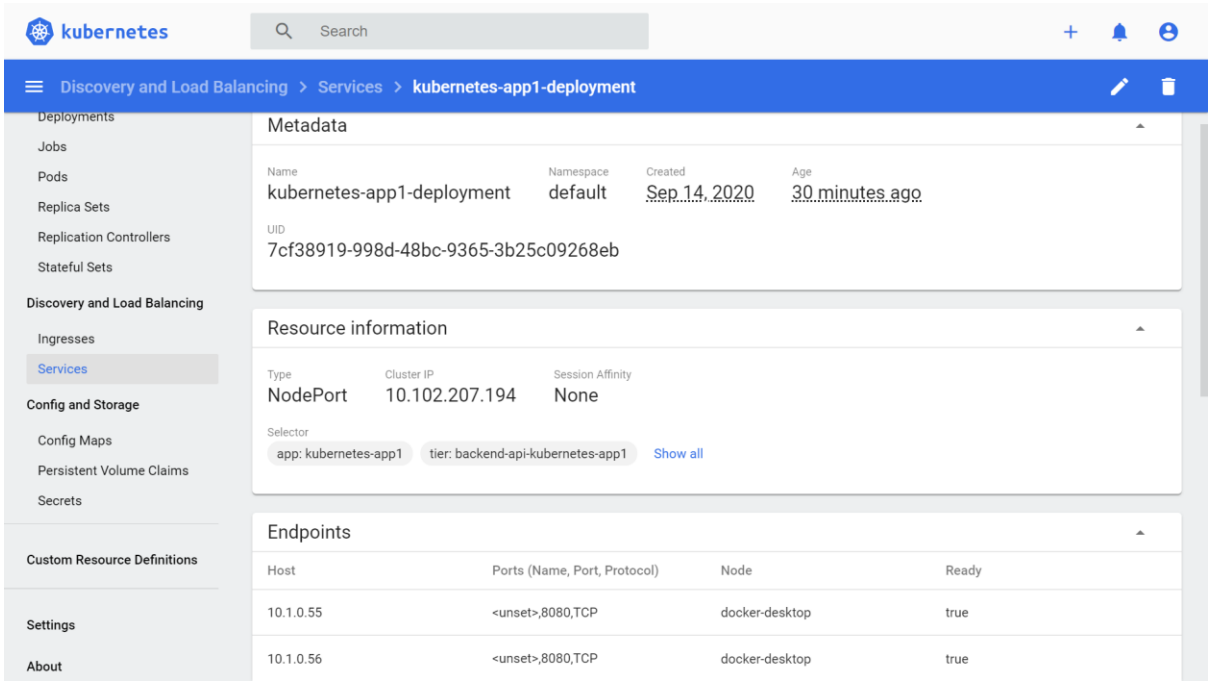

localhost:32047/app1/
Kubernetes Dashboard
localhost:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/#/service?namespace=default
kubernetes
Search
Discovery and Load Balancing > Services
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing
Ingresses
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Custom Resource Definitions
Name
Namespace
Labels
Cluster IP
Internal Endpoints
External Endpoints
Created
kubernetes
default
component: apiserver
provider: kubernetes
10.96.0.1
kubernetes:443 TCP
kubernetes:0 TCP
-
3 months ago
kubernetes-app1-deployment
default
-
10.102.207.194
kubernetes-app deployment:80(TCP
kubernetes-app deployment:32(TCP
-
23 minutes ago
service-app1
default
-
10.111.209.145
service-app1:80 TCP
service-app1:0 TCP
-
26 minutes ago
service-app2
default
-
10.105.216.127
service-app2:80 TCP
service-app2:0 TCP
-
24 minutes ago
1 – 4 of 4

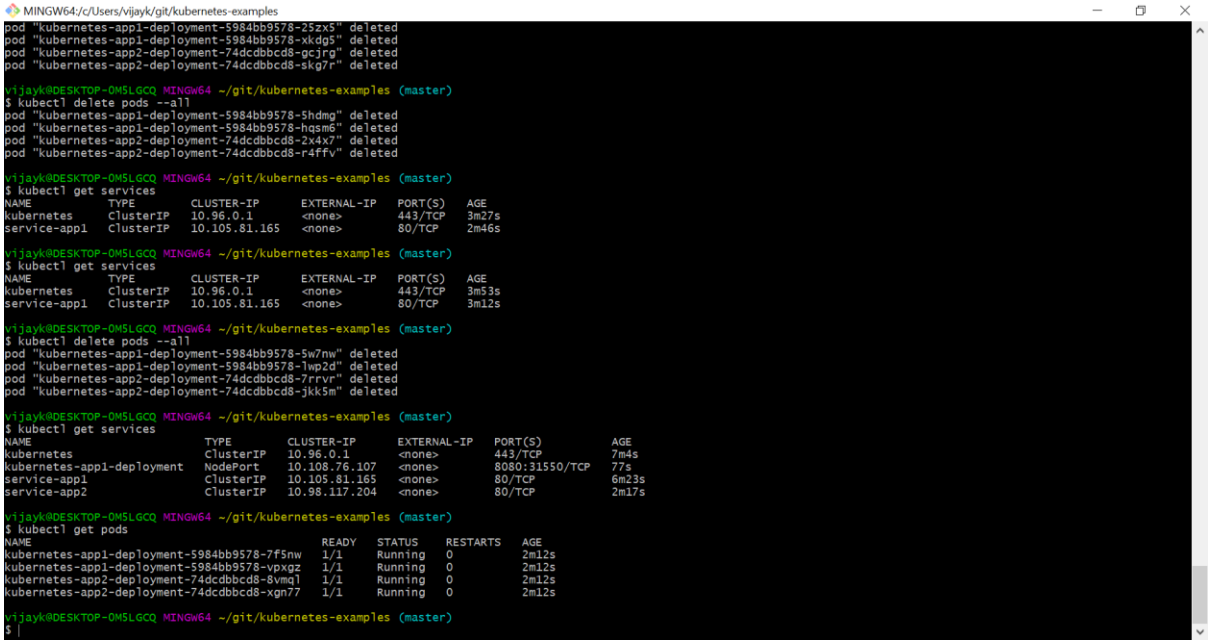

kubernetes
Search
Discovery and Load Balancing > Services > service-app1
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing
Ingresses
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Custom Resource Definitions
Settings
About
Metadata
Name
service-app1
Namespace
default
Created
Sep 14, 2020
Age
31 minutes ago
UID
ba8c370e-c44e-471d-a6cc-922ccdcae096
Annotations
kubectl.kubernetes.io/last-applied-configuration
Resource information
Type
ClusterIP
Cluster IP
10.111.209.145
Session Affinity
None
Selector
app: kubernetes-app1
tier: backend-api-kubernetes-app1
Endpoints
Host
Ports (Name, Port, Protocol)
Node
Ready

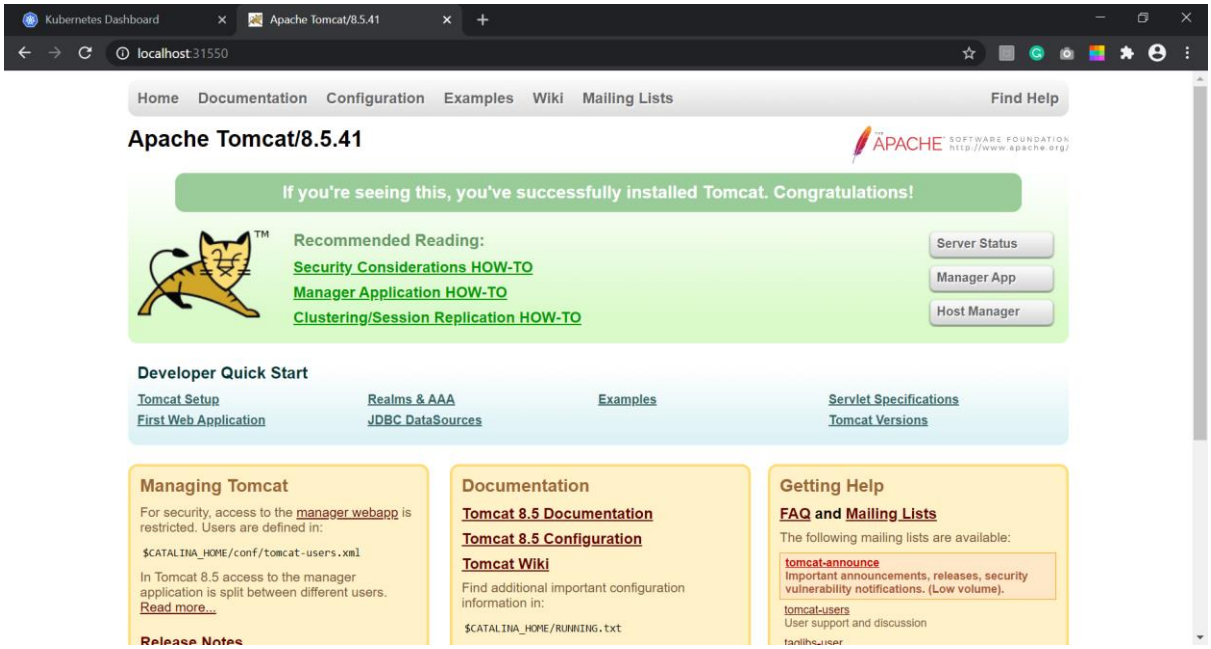

kubernetes
Search
Discovery and Load Balancing > Services > service-app1
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing
Ingresses
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Custom Resource Definitions
Settings
About
Endpoints
Host
Ports (Name, Port, Protocol)
Node
Ready
10.1.0.55
<unset>,8080,TCP
docker-desktop
true
10.1.0.56
<unset>,8080,TCP
docker-desktop
true
Pods
Name
Namespac
Labels
Node
Status
Restarts
CPU Usage (cores)
Memory Usage (bytes)
Created
kubernetes-app1-deployment-5984bb9578-pppx9
default
app: kubernetes-app1
pod-template-hash: 5984bb9578
Show all
docker-desktop
Running
0
-
-
32 minutes ago
kubernetes-app1-deployment-5984bb9578-wdlpz
default
app: kubernetes-app1
pod-template-hash: 5984bb9578
Show all
docker-desktop
Running
0
-
-
32 minutes ago
1 – 2 of 2


kubernetes
Search
Discovery and Load Balancing > Services > service-app2
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing
Ingresses
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Custom Resource Definitions
Settings
About
Metadata
Name
service-app2
Namespace
default
Created
Sep 14, 2020
Age
31 minutes ago
UID
0901f22f-b139-4ea1-bc8b-8e803de63abf
Annotations
kubectl.kubernetes.io/last-applied-configuration
Resource information
Type
ClusterIP
Cluster IP
10.105.216.127
Session Affinity
None
Selector
app: kubernetes-app2
tier: backend-api-kubernetes-app2
Endpoints
Host
Ports (Name, Port, Protocol)
Node
Ready

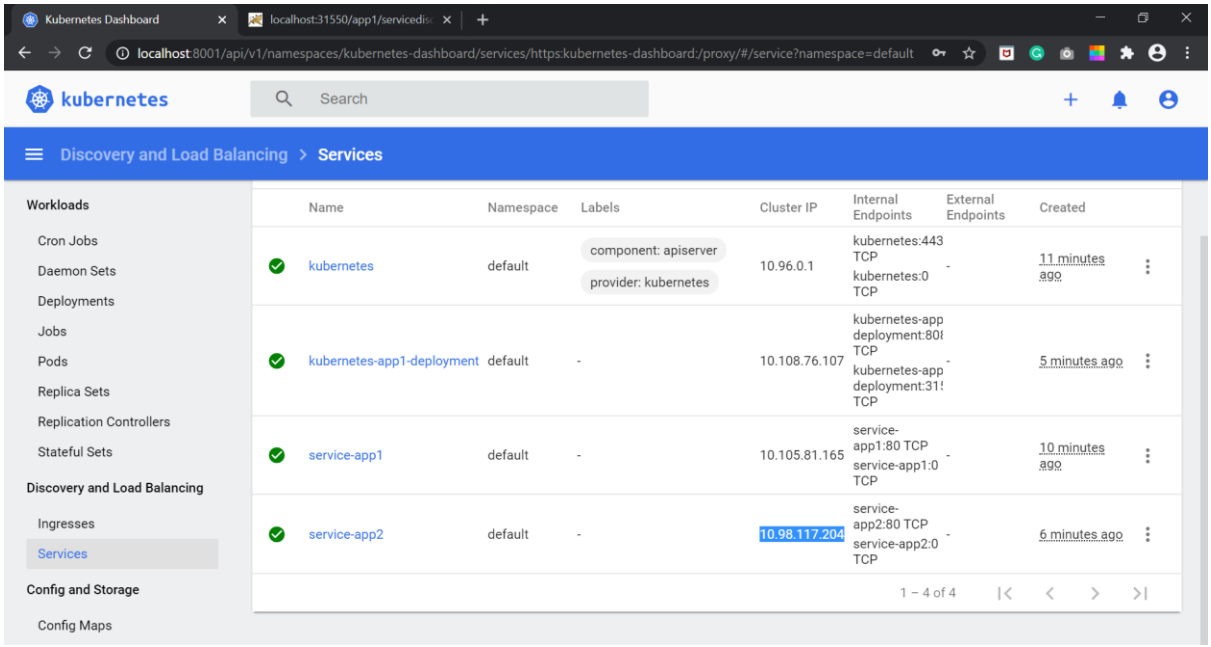

kubernetes
Search
Discovery and Load Balancing > Services > service-app2
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing
Ingresses
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Custom Resource Definitions
Settings
About
Endpoints
Host
Ports (Name, Port, Protocol)
Node
Ready
10.1.0.57
<unset>,8080,TCP
docker-desktop
true
10.1.0.58
<unset>,8080,TCP
docker-desktop
true
Pods
Name
Namespac
Labels
Node
Status
Restarts
CPU Usage (cores)
Memory Usage (bytes)
Created
kubernetes-app2-deployment-74dcdbbcd8-dmfjj
default
app: kubernetes-app2
pod-template-hash: 74dcdbbcd8
Show all
docker-desktop
Running
0
-
-
32 minutes ago
kubernetes-app2-deployment-74dcdbbcd8-gn68n
default
app: kubernetes-app2
pod-template-hash: 74dcdbbcd8
Show all
docker-desktop
Running
0
-
-
32 minutes ago
1 – 2 of 2


kubernetes
Search
Discovery and Load Balancing > Services > kubernetes-app1-deployment
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing
Ingresses
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Custom Resource Definitions
Settings
About
Metadata
Name
kubernetes-app1-deployment
Namespace
default
Created
Sep 14, 2020
Age
30 minutes ago
UID
7cf38919-998d-48bc-9365-3b25c09268eb
Resource information
Type
NodePort
Cluster IP
10.102.207.194
Session Affinity
None
Selector
app: kubernetes-app1
tier: backend-api-kubernetes-app1
Show all
Endpoints
Host
Ports (Name, Port, Protocol)
Node
Ready
10.1.0.55
<unset>,8080,TCP
docker-desktop
true
10.1.0.56
<unset>,8080,TCP
docker-desktop
true

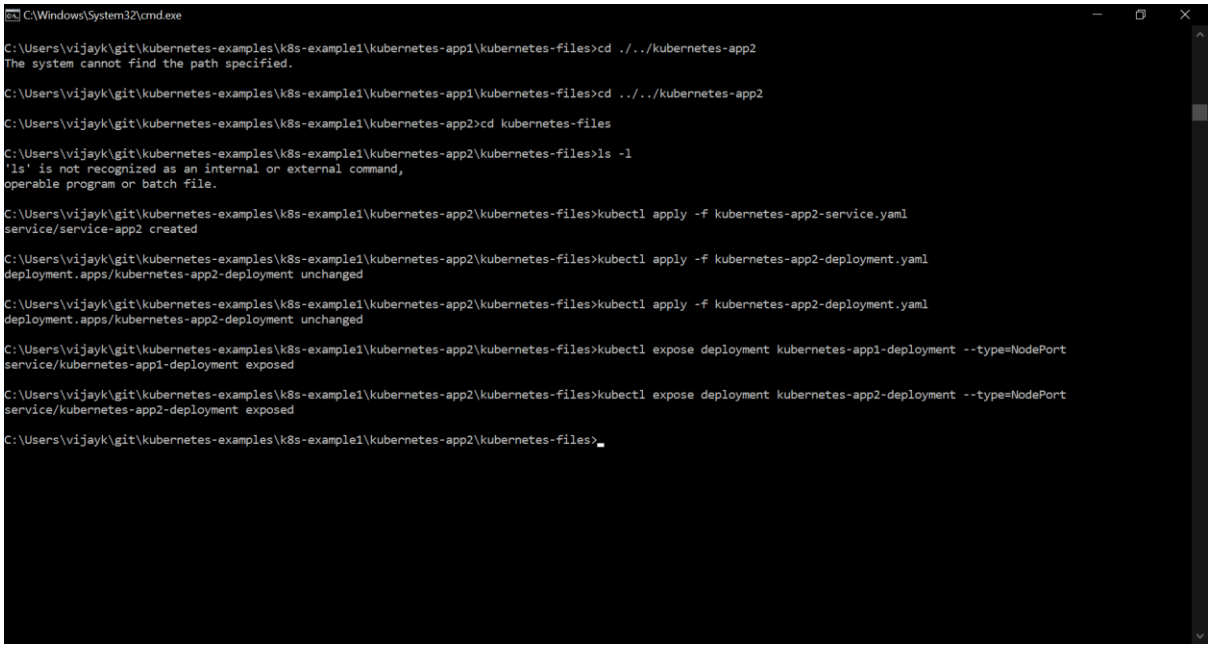

MINGW64:/c/Users/vijayk/git/kubernetes-examples
pod "kubernetes-app1-deployment-5984bb9578-25zx5" deleted
pod "kubernetes-app1-deployment-5984bb9578-xkdg5" deleted
pod "kubernetes-app2-deployment-74dcdbbcd8-gcjrg" deleted
pod "kubernetes-app2-deployment-74dcdbbcd8-skg7r" deleted
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl delete pods --all
pod "kubernetes-app1-deployment-5984bb9578-5hdmg" deleted
pod "kubernetes-app1-deployment-5984bb9578-hqsm6" deleted
pod "kubernetes-app2-deployment-74dcdbbcd8-2x4x7" deleted
pod "kubernetes-app2-deployment-74dcdbbcd8-r4ffv" deleted
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 3m27s
service-app1 ClusterIP 10.105.81.165 <none> 80/TCP 2m46s
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 3m53s
service-app1 ClusterIP 10.105.81.165 <none> 80/TCP 3m12s
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl delete pods --all
pod "kubernetes-app1-deployment-5984bb9578-5w7nw" deleted
pod "kubernetes-app1-deployment-5984bb9578-lwp2d" deleted
pod "kubernetes-app2-deployment-74dcdbbcd8-7rrvr" deleted
pod "kubernetes-app2-deployment-74dcdbbcd8-jkk5m" deleted
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 7m4s
kubernetes-app1-deployment NodePort 10.108.76.107 <none> 8080:31550/TCP 77s
service-app1 ClusterIP 10.105.81.165 <none> 80/TCP 6m23s
service-app2 ClusterIP 10.98.117.204 <none> 80/TCP 2m17s
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl get pods
NAME READY STATUS RESTARTS AGE
kubernetes-app1-deployment-5984bb9578-7f5nw 1/1 Running 0 2m12s
kubernetes-app1-deployment-5984bb9578-vpxgz 1/1 Running 0 2m12s
kubernetes-app2-deployment-74dcdbbcd8-8vmq1 1/1 Running 0 2m12s
kubernetes-app2-deployment-74dcdbbcd8-xgn77 1/1 Running 0 2m12s
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$

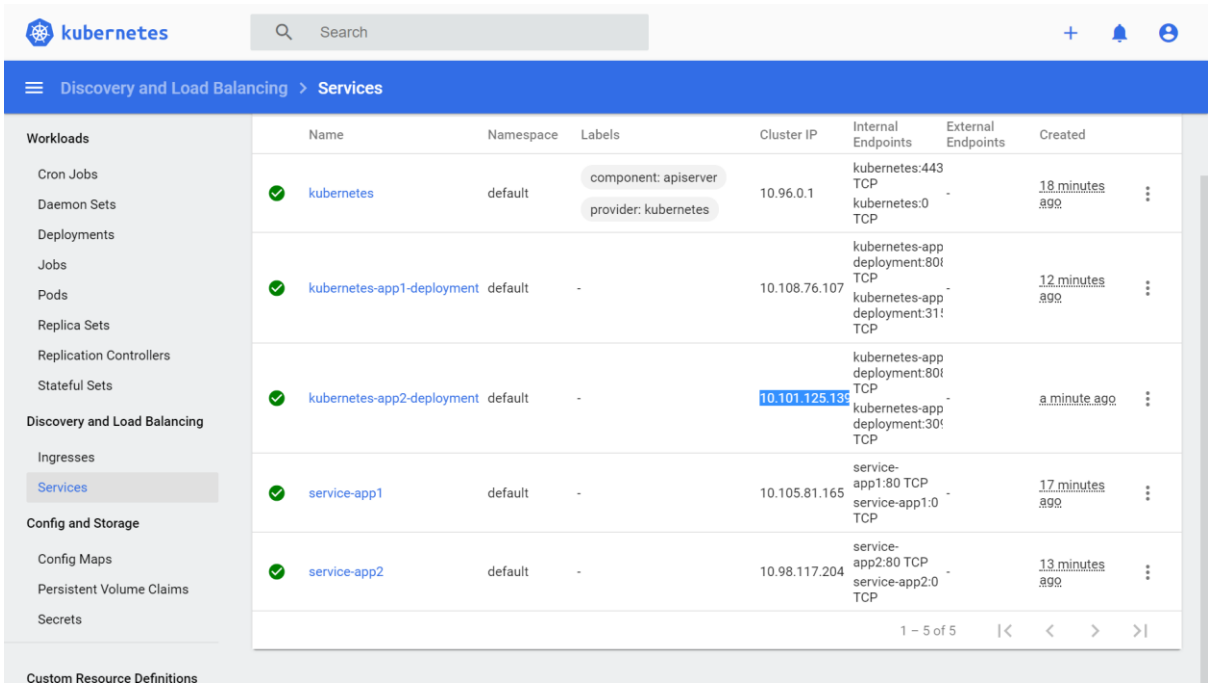

Kubernetes Dashboard
Apache Tomcat/8.5.41
localhost:31550
Home Documentation Configuration Examples Wiki Mailing Lists Find Help
Apache Tomcat/8.5.41
APACHE SOFTWARE FOUNDATION http://www.apache.org/
If you're seeing this, you've successfully installed Tomcat. Congratulations!
Recommended Reading:
Security Considerations HOW-TO
Manager Application HOW-TO
Clustering/Session Replication HOW-TO
Server Status
Manager App
Host Manager
Developer Quick Start
Tomcat Setup
First Web Application
Realms & AAA
JDBC DataSources
Examples
Servlet Specifications
Tomcat Versions
Managing Tomcat
For security, access to the manager webapp is restricted. Users are defined in:
$CATALINA_HOME/conf/tomcat-users.xml
In Tomcat 8.5 access to the manager application is split between different users.
Read more...
Release Notes
Documentation
Tomcat 8.5 Documentation
Tomcat 8.5 Configuration
Tomcat Wiki
Find additional important configuration information in:
$CATALINA_HOME/RUNNING.txt
Getting Help
FAQ and Mailing Lists
The following mailing lists are available:
tomcat-announce
Important announcements, releases, security vulnerability notifications. (Low volume).
tomcat-users
User support and discussion

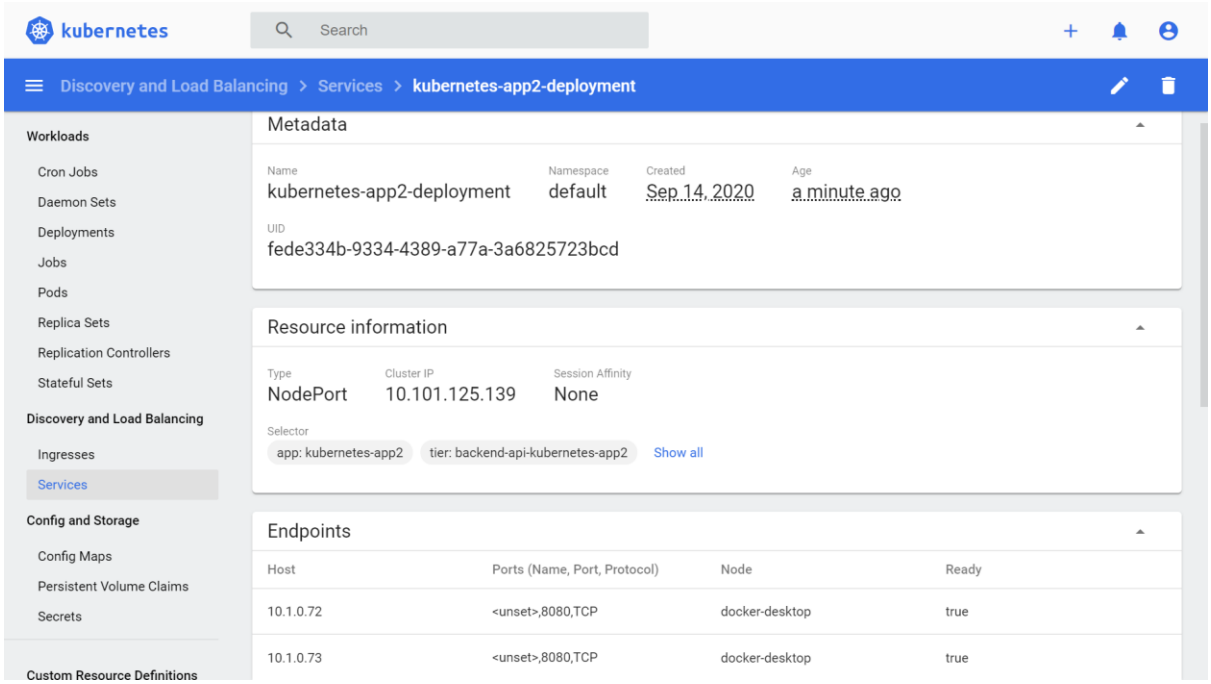

Kubernetes Dashboard
localhost:31550/app1/
localhost:31550/app1/
Welcome to application 1 value of instance variable appMessage is app1-welcome

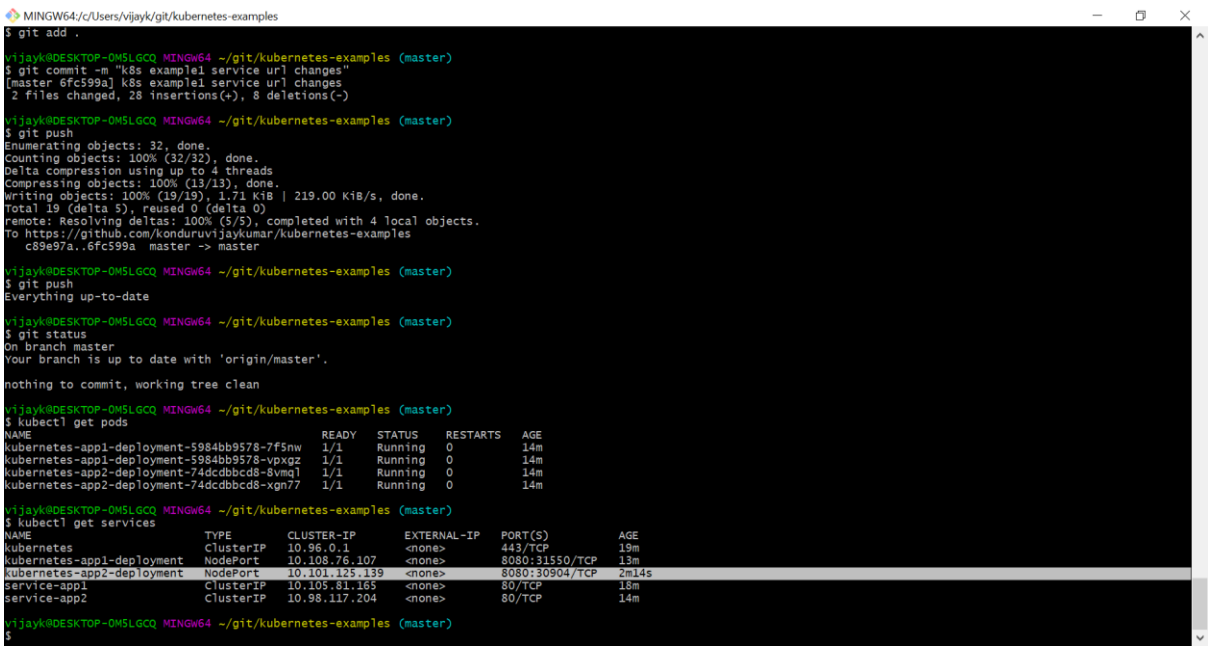

Kubernetes Dashboard
localhost:31550/app1/servicedis
localhost:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/#/service?namespace=default
kubernetes
Search
Discovery and Load Balancing > Services
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing
Ingresses
Services
Config and Storage
Config Maps
Name
Namespace
Labels
Cluster IP
Internal Endpoints
External Endpoints
Created
kubernetes
default
component: apiserver
provider: kubernetes
10.96.0.1
kubernetes:443 TCP
kubernetes:0 TCP
-
11 minutes ago
kubernetes-app1-deployment
default
-
10.108.76.107
kubernetes-app deployment:80(TCP
kubernetes-app deployment:31! TCP
-
5 minutes ago
service-app1
default
-
10.105.81.165
service-app1:80 TCP
service-app1:0 TCP
-
10 minutes ago
service-app2
default
-
10.98.117.204
service-app2:80 TCP
service-app2:0 TCP
-
6 minutes ago
1 – 4 of 4

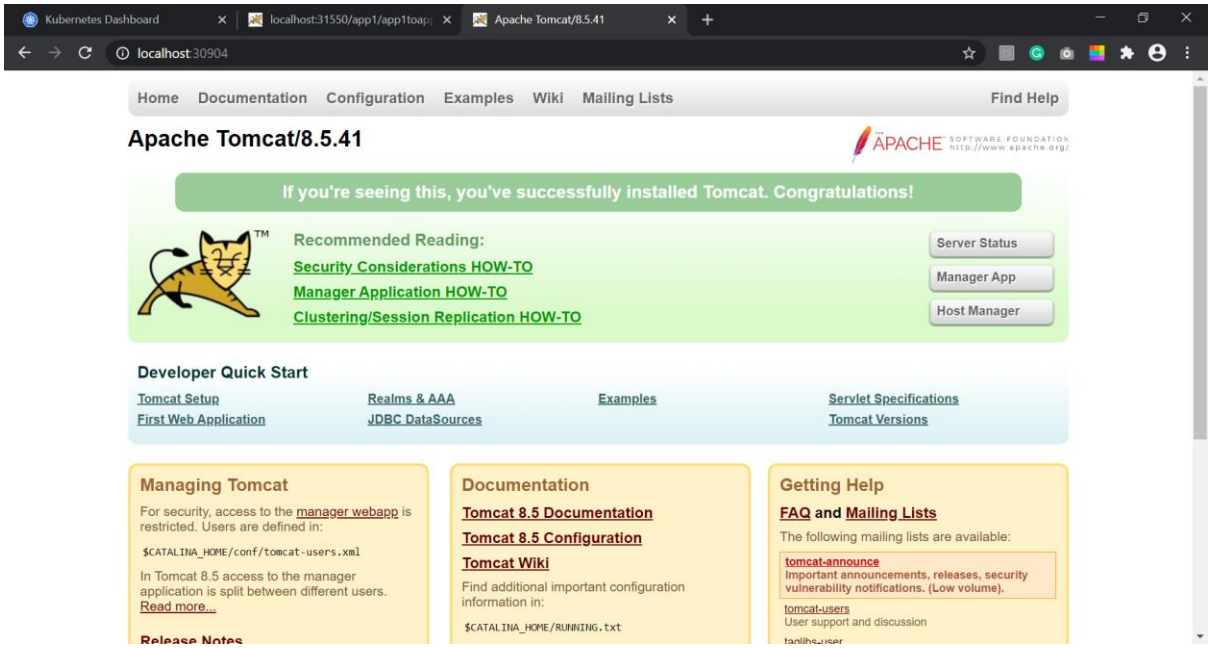
Points to the service cluster IP instead of specific pod IP


C:\Windows\System32\cmd.exe
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files>cd ./../kubernetes-app2
The system cannot find the path specified.
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app1\kubernetes-files>cd ../../kubernetes-app2
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2>cd kubernetes-files
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>ls -l
'ls' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl apply -f kubernetes-app2-service.yaml
service/service-app2 created
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl apply -f kubernetes-app2-deployment.yaml
deployment.apps/kubernetes-app2-deployment unchanged
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl apply -f kubernetes-app2-deployment.yaml
deployment.apps/kubernetes-app2-deployment unchanged
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl expose deployment kubernetes-app1-deployment --type=NodePort
service/kubernetes-app1-deployment exposed
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>kubectl expose deployment kubernetes-app2-deployment --type=NodePort
service/kubernetes-app2-deployment exposed
C:\Users\vijayk\git\kubernetes-examples\k8s-example1\kubernetes-app2\kubernetes-files>


kubernetes
Search
Discovery and Load Balancing > Services
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing
Ingresses
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Custom Resource Definitions
Name
Namespace
Labels
Cluster IP
Internal Endpoints
External Endpoints
Created
kubernetes
default
component: apiserver
provider: kubernetes
10.96.0.1
kubernetes:443 TCP
kubernetes:0 TCP
-
18 minutes ago
kubernetes-app1-deployment
default
-
10.108.76.107
kubernetes-app deployment:80(TCP
kubernetes-app deployment:31! TCP
-
12 minutes ago
kubernetes-app2-deployment
default
-
10.101.125.139
kubernetes-app deployment:80(TCP
kubernetes-app deployment:30(TCP
-
a minute ago
service-app1
default
-
10.105.81.165
service-app1:80 TCP
service-app1:0 TCP
-
17 minutes ago
service-app2
default
-
10.98.117.204
service-app2:80 TCP
service-app2:0 TCP
-
13 minutes ago
1 – 5 of 5


kubernetes
Search
Discovery and Load Balancing > Services > kubernetes-app2-deployment
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing
Ingresses
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Custom Resource Definitions
Metadata
Name
kubernetes-app2-deployment
Namespace
default
Created
Sep 14, 2020
Age
a minute ago
UID
fede334b-9334-4389-a77a-3a6825723bcd
Resource information
Type
NodePort
Cluster IP
10.101.125.139
Session Affinity
None
Selector
app: kubernetes-app2
tier: backend-api-kubernetes-app2
Show all
Endpoints
Host
Ports (Name, Port, Protocol)
Node
Ready
10.1.0.72
<unset>,8080,TCP
docker-desktop
true
10.1.0.73
<unset>,8080,TCP
docker-desktop
true


MINGW64:/c/Users/vijayk/git/kubernetes-examples
$ git add .
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ git commit -m "k8s example1 service url changes"
[master 6fc599a] k8s example1 service url changes
2 files changed, 28 insertions(+), 8 deletions(-)
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ git push
Enumerating objects: 32, done.
Counting objects: 100% (32/32), done.
Delta compression using up to 4 threads
Compressing objects: 100% (13/13), done.
Writing objects: 100% (19/19), 1.71 KiB | 219.00 KiB/s, done.
Total 19 (delta 5), reused 0 (delta 0)
remote: Resolving deltas: 100% (5/5), completed with 4 local objects.
To https://github.com/konduruvijaykumar/kubernetes-examples
c89e97a..6fc599a master -> master
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ git push
Everything up-to-date
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.
nothing to commit, working tree clean
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl get pods
NAME READY STATUS RESTARTS AGE
kubernetes-app1-deployment-5984bb9578-7f5nw 1/1 Running 0 14m
kubernetes-app1-deployment-5984bb9578-vpxgz 1/1 Running 0 14m
kubernetes-app2-deployment-74dcdbbcd8-8vmql 1/1 Running 0 14m
kubernetes-app2-deployment-74dcdbbcd8-xgn77 1/1 Running 0 14m
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 19m
kubernetes-app1-deployment NodePort 10.108.76.107 <none> 8080:31550/TCP 13m
kubernetes-app2-deployment NodePort 10.101.125.139 <none> 8080:30904/TCP 2m14s
service-app1 ClusterIP 10.105.81.165 <none> 80/TCP 18m
service-app2 ClusterIP 10.98.117.204 <none> 80/TCP 14m
vijayk@DESKTOP-OM5LGCQ MINGW64 ~/git/kubernetes-examples (master)
$


Kubernetes Dashboard
localhost:31550/app1/app1toap
Apache Tomcat/8.5.41
localhost:30904
Home Documentation Configuration Examples Wiki Mailing Lists Find Help
Apache Tomcat/8.5.41
APACHE SOFTWARE FOUNDATION http://www.apache.org/
If you're seeing this, you've successfully installed Tomcat. Congratulations!
Recommended Reading:
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Manager Application HOW-TO
Clustering/Session Replication HOW-TO
Server Status
Manager App
Host Manager
Developer Quick Start
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JDBC DataSources
Examples
Servlet Specifications
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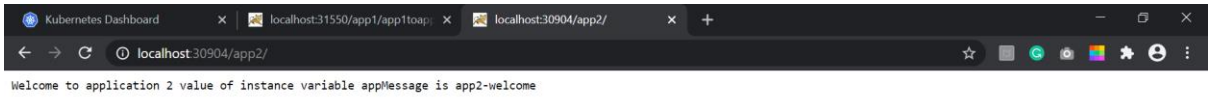
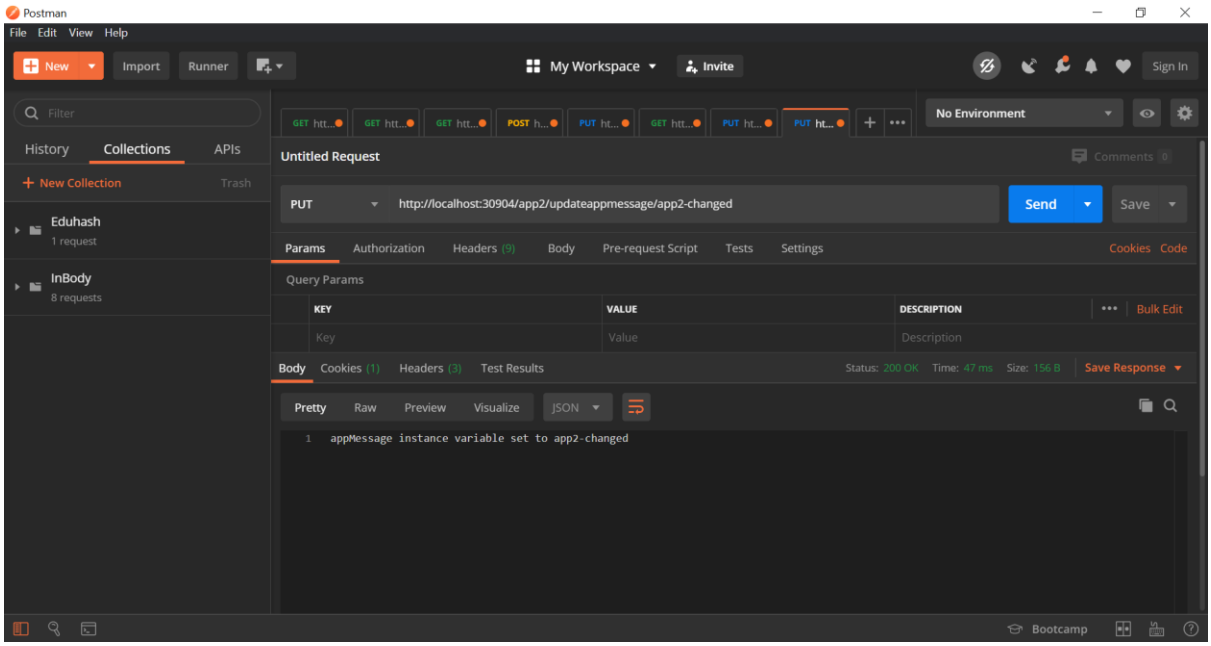
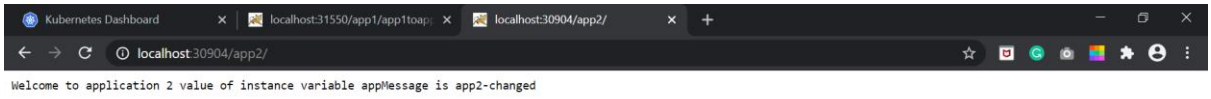
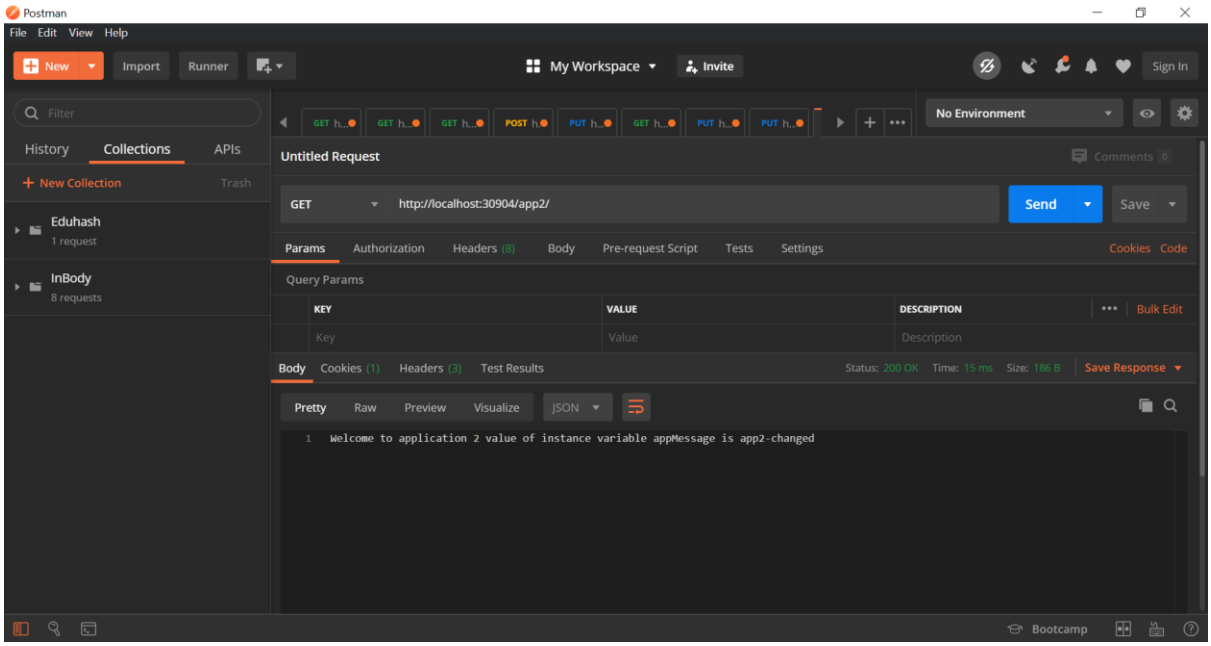
Important announcements, releases, security vulnerability notifications. (Low volume).
tomcat-users
User support and discussion

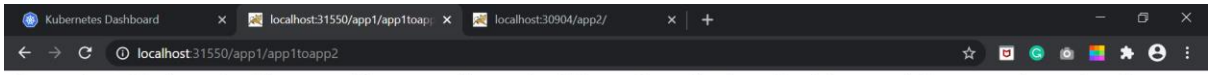

Kubernetes Dashboard
localhost:31550/app1/app1toap
localhost:30904/app2/
localhost:30904/app2/
Welcome to application 2 value of instance variable appMessage is app2-welcome



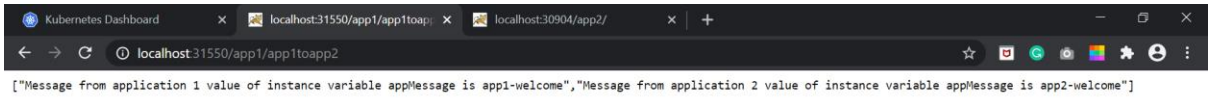



```
Welcome to application 2 value of instance variable appMessage is app2-changed
```





["Message from application 1 value of instance variable appMessage is app1-welcome","Message from application 2 value of instance variable appMessage is app2-changed"]



We can see that app2 message is changing randomly, as two pods with different instance variable is providing output.
This also shows **service** is load balancing between the pods.