COMPSCI 677 Lablet 6 - Spring 2023

Swati Agrawal May 9, 2023

Below is the details of the steps that I followed to build the dashboard: -

\$ alias kubectl="minikube kubectl --"

```
Swati@DESKTOP-MT6990G MINGW64 ~
$ minikube start
  minikube v1.30.1 on Microsoft Windows 11 Home Single Language 10.0.22000.1817 Build
  Automatically selected the docker driver. Other choices: virtualbox, ssh
  Using Docker Desktop driver with root privileges
  Starting control plane node minikube in cluster minikube
  Pulling base image ...
* Downloading Kubernetes v1.26.3 preload ...

> gcr.io/k8s-minikube/kicbase...: 373.53 MiB / 373.53 MiB 100.00% 15.73 M

* Creating docker container (CPUs=2, Memory=4000MB) ...
! Executing "docker container inspect minikube --format={{.State.Status}}" took an unusually long time: 2.7130838s
* Restarting the docker service may improve performance.
* Preparing Kubernetes v1.26.3 on Docker 23.0.2 ...
   - Generating certificates and keys ...
   - Booting up control plane ...
   - Configuring RBAC rules ..
* Configuring bridge CNI (Container Networking Interface) ...
* Verifying Kubernetes components...

- Using image gcr.io/k8s-minikube/storage-provisioner:v5

* Enabled addons: storage-provisioner, default-storageclass

* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by
default
Swati@DESKTOP-MT6990G MINGW64 ~
$ docker ps | findstr minikube

47525bc2d8ff gcr.io/k8s-minikube/kicbase:v0.0.39 "/usr/local/bin/entr..." 23

minutes ago Up 23 minutes 127.0.0.1:62110->22/tcp, 127.0.0.1:62111->2376/tcp,

127.0.0.1:62107->5000/tcp, 127.0.0.1:62108->8443/tcp, 127.0.0.1:62112->32443/tcp
minikube
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl get po -A
NAMESPACE
                   NAME
                                                                    READY
                                                                               STATUS
                                                                                             RESTARTS
                                                                                                                AGE
                   coredns-787d4945fb-flqk7
                                                                    1/1
                                                                                                                22m
kube-system
                                                                               Running
                                                                    1/1
                   etcd-minikube
                                                                                             0
kube-system
                                                                               Running
                                                                                                                22m
kube-system
                   kube-apiserver-minikube
                                                                    1/1
                                                                               Running
                                                                                             0
                                                                                                                22m
kube-system
                                                                    1/1
                                                                                             0
                                                                                                                22m
                   kube-controller-manager-minikube
                                                                               Running
kube-system
                   kube-proxy-djlc6
                                                                    1/1
                                                                               Running
                                                                                             0
                                                                                                                22m
                   kube-scheduler-minikube
kube-system
                                                                               Running
                                                                                                                 22m
                                                                                             1 (21m ago)
kube-system
                   storage-provisioner
                                                                               Running
                                                                                                                22m
Swati@DESKTOP-MT6990G MINGW64 ~
$ minikube kubectl -- get po -A
NAMESPACE
                   NAME
                                                                    READY
                                                                               STATUS
                                                                                             RESTARTS
                                                                                                                AGE
kube-system
                   coredns-787d4945fb-flqk7
                                                                    1/1
                                                                               Running
                                                                                             0
                                                                                                                22m
                                                                    1/1
1/1
                   etcd-minikube
                                                                                             0
                                                                                                                22m
kube-system
                                                                               Running
kube-system
                   kube-apiserver-minikube
                                                                                             0
                                                                                                                22m
                                                                               Running
kube-system
                   kube-controller-manager-minikube
                                                                    1/1
                                                                               Running
                                                                                             0
                                                                                                                22m
                                                                                             0
kube-system
                   kube-proxy-dj1c6
                                                                    1/1
                                                                               Running
                                                                                                                22m
                   kube-scheduler-minikube
kube-system
                                                                               Running
                                                                                                                22m
kube-system
                   storage-provisioner
                                                                               Runnina
                                                                                             1 (22m ago)
                                                                                                                22m
Swati@DESKTOP-MT6990G MINGW64 ~
```

```
Swati@DESKTOP-MT6990G MINGW64 ~
$ minikube dashboard
! Executing "docker container inspect minikube --format={{.State.Status}}" took an
unusually long time: 2.5271231s
  Restarting the docker service may improve performance.
  Enabling dashboard .
   - Using image docker.io/kubernetesui/dashboard:v2.7.0
   - Using image docker.io/kubernetesui/metrics-scraper:v1.0.8
* Some dashboard features require the metrics-server addon. To enable all features
please run:
          minikube addons enable metrics-server
* Verifying dashboard health ...
  Launching proxy
  Verifying proxy health
* Opening http://127.0.0.1:62308/api/v1/namespaces/kubernetes-
dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
Swati@DESKTOP-MT6990G MINGW64 ~
$ minikube delete --all
minikube start
minikube dashboard
  Deleting "minikube" in docker ...
! Executing "docker container inspect minikube --format={{.State.Status}}" took an unusually long time: 2.5045372s
  Restarting the docker service may improve performance. Removing C:\Users\Swati\.minikube\machines\minikube ...
  Removed all traces of the "minikube"
                                                   cluster.
  Successfully deleted all profiles
  minikube v1.30.1 on Microsoft Windows 11 Home Single Language 10.0.22000.1817 Build
22000.1817
  Automatically selected the docker driver. Other choices: virtualbox, ssh
Using Docker Desktop driver with root privileges
Starting control plane node minikube in cluster minikube
* Pulling base image ...
* Creating docker container (CPUs=2, Memory=4000MB) ... ! Executing "docker container inspect minikube --format={{.State.Status}}" took an unusually long time: 2.5096944s
  Restarting the docker service may improve performance.
* Preparing Kubernetes v1.26.3 on Docker 23.0.2 ... - Generating certificates and keys ...
   - Booting up control plane ...
- Configuring RBAC rules ...
* Configuring bridge CNI (Container Networking Interface) ...
  Verifying Kubernetes components..
   - Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Enabled addons: storage-provisioner, default-storageclass
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by
default
! Executing "docker container inspect minikube --format={{.State.Status}}" took an unusually long time: 2.5883484s
  Restarting the docker service may improve performance.
  Enabling dashboard.

    Using image docker.io/kubernetesui/dashboard:v2.7.0
    Using image docker.io/kubernetesui/metrics-scraper:v1.0.8

* Some dashboard features require the metrics-server addon. To enable all features
please run:
          minikube addons enable metrics-server
* Verifying dashboard health ...
* Launching proxy ...

* Verifying proxy health ...

* Opening http://127.0.0.1:62463/api/v1/namespaces/kubernetes-
dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
```

```
$ kubectl create deployment hello-minikube --image=kicbase/echo-server:1.0
deployment.apps/hello-minikube created
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl expose deployment hello-minikube --type=NodePort --port=8080
service/hello-minikube exposed
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl get services hello-minikube
NAME
                  TYPE
                              CLUSTER-IP
                                                 EXTERNAL-IP
                                                                 PORT(S)
                                                                                   AGE
hello-minikube
                                                                 8080:32554/TCP
                  NodePort
                              10.111.155.235
                                                                                   30s
                                                 <none>
Swati@DESKTOP-MT6990G MINGW64
$ minikube service hello-minikube
! Executing "docker container inspect minikube --format={{.State.Status}}" took an unusually long time: 2.5416623s
* Restarting the docker service may improve performance.
                    NAME
  NAMESPACE
                                  TARGET PORT
                                                             URL
                                               http://192.168.49.2:32554
  default
              hello-minikube
                                         8080
  Starting tunnel for service hello-minikube.
  NAMESPACE
                    NAME
                                 TARGET PORT
                                                           URL
  default
              hello-minikube
                                                 http://127.0.0.1:62634
  Opening service default/hello-minikube in default browser...
 Because you are using a Docker driver on windows, the terminal needs to be open to
run it.
* Stopping tunnel for service hello-minikube.
Swati@DESKTOP-MT6990G MINGW64 ~
$ minikube service hello-minikube
! Executing "docker container inspect minikube --format={{.State.Status}}" took an
unusually long time: 2.5542761s
 Restarting the docker service may improve performance.
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl port-forward service/hello-minikube 7080:8080
Forwarding from 127.0.0.1:7080 -> 8080 Forwarding from [::1]:7080 -> 8080
Handling connection for 7080
Handling connection for 7080
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl get pods # List Pods
NAME
                                     READY
                                              STATUS
                                                         RESTARTS
                                                                     AGE
hello-minikube-77b6f68484-vgmsc
                                                                     6m30s
                                     1/1
                                              Running
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl get services # List services
NAME
                  TYPE
                                CLUSTER-IP
                                                  EXTERNAL-IP
                                                                  PORT(S)
                                                                                     AGE
                               10.111.155.235
                                                                  8080:32554/TCP
hello-minikube
                  NodePort
                                                                                    6m24s
                                                  <none>
                  ClusterIP
                               10.96.0.1
                                                                  443/TCP
kubernetes
                                                  <none>
                                                                                    21m
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl get deployment # List deployment
                  READY
                           UP-TO-DATE
                                         AVAILABLE
NAME
                                                       AGE
hello-minikube
                  1/1
                                                       6m47s
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl describe pod hello-minikube
                    hello-minikube-77b6f68484-vqmsc
Name:
Namespace:
                    default
Priority:
                   default
Service Account:
Node:
                   minikube/192.168.49.2
```

```
Tue, 09 May 2023 01:21:12 -0400
Start Time:
                    app=hello-minikube
Labels:
                    pod-template-hash=77b6f68484
Annotations:
                    <none>
                    Running
Status:
                    10.244.0.5
IP:
IPs:
                 10.244.0.5
  IP:
Controlled By:
                 ReplicaSet/hello-minikube-77b6f68484
Containers:
  echo-server:
    Conțainer ID:
docker://76aedf46c7f588f474ab47b53af589dd7a8ddeaf6581c0c2af294bac4a7b52eb
                      kicbase/echo-server:1.0
    Image:
    Image ID:
                      docker-pullable://kicbase/echo-
server@sha256:127ac38a2bb9537b7f252addff209ea6801edcac8a92c8b1104dacd66a583ed6
                      <none>
    Port:
    Host Port:
                      <none>
                      Running
    State:
                      Tue, 09 May 2023 01:21:16 -0400
      Started:
    Ready:
                      True
                      0
    Restart Count:
    Environment:
                      <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-mchzm (ro)
Conditions:
                      Status
  Туре
  Initialized
                      True
  Ready
                      True
  ContainersReady
                      True
  PodScheduled
                      True
Volumes:
  kube-api-access-mchzm:
    Type:
                                Projected (a volume that contains injected data from
multiple sources)
    TokenExpirationSeconds:
                                3607
                                kube-root-ca.crt
    ConfigMapName:
    ConfigMapOptional:
                                <ni1>
    DownwardAPI:
                               true
Qos class:
                               BestEffort
Node-Selectors:
                                <none>
Tolerations:
                               node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                               node.kubernetes.io/unreachable:NoExecute op=Exists for
300s
Events:
                             From
  Туре
           Reason
                       Age
                                                  Message
                                                  Successfully assigned default/hello-
  Normal
           Scheduled
                       7m7s
                             default-scheduler
minikube-77b6f68484-vgmsc to minikube
                                                  Pulling image "kicbase/echo-server:1.0" Successfully pulled image "kicbase/echo-
  Normal
          Pulling
                       7m5s
                             kubelet
  Normal
          Pulled
                       7m3s
                             kuhelet
server:1.0"
             in 1.9074593s
                            (1.9075009s including waiting)
  Normal
          Created
                       7m3s
                             kubelet
                                                  Created container echo-server
                                                  Started container echo-server
                             kubelet
  Normal
          Started
                       7m3s
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl delete deployment hello-minikube
deployment.apps "hello-minikube" deleted
Swati@DESKTOP-MT6990G MINGW64 ~
$ minikube start
  minikube v1.30.1 on Microsoft Windows 11 Home Single Language 10.0.22000.1817 Build
22000.1817
  Using the docker driver based on existing profile
  Starting control plane node minikube in čluster minikube
 Pulling base image ...
! Executing "docker container inspect minikube --format={{.State.Status}}" took an
unusually long time: 2.5621653s
 Restarting the docker service may improve performance. Updating the running docker "minikube" container ...
* Preparing Kubernetes v1.26.3 on Docker 23.0.2 ...
```

```
* Verifying Kubernetes components...

- Using image docker.io/kubernetesui/dashboard:v2.7.0

- Using image docker.io/kubernetesui/metrics-scraper:v1.0.8

- Using image gcr.io/k8s-minikube/storage-provisioner:v5

* Some dashboard features require the metrics-server addon. To enable all features
please run:
          minikube addons enable metrics-server
* Enabled addons: dashboard, storage-provisioner, default-storageclass
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by
default
Swati@DESKTOP-MT6990G MINGW64 ~
$ minikube dashboard
! Executing "docker container inspect minikube --format={{.State.Status}}" took an
unusually long time: 2.5429132s

* Restarting the docker service may improve performance.

* Verifying dashboard health ...
* Launching proxy ...

* Verifying proxy health ...

* Opening http://127.0.0.1:62731/api/v1/namespaces/kubernetes-
dashboard/services/http:kubernetes-dashboard:/proxy/ in your default browser...
Swati@DESKTOP-MT6990G MINGW64 ~
$ ^[[200~kubectl create deployment hello-minikube --image=kicbase/echo-server:1.0~
bash: $'\E[200~kubectl': command not found
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl create deployment hello-minikube --image=kicbase/echo-server:1.0
deployment.apps/hello-minikube created
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl expose deployment hello-minikube --type=NodePort --port=8080
Error from server (AlreadyExists): services "hello-minikube" already exists
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl get services hello-minikube
NAME
                      TYPE
                                     CLUSTER-IP
                                                           EXTERNAL-IP
                                                                              PORT(S)
                                                                                                     AGE
                                     10.111.155.235
                                                                              8080:32554/TCP
hello-minikube
                      NodePort
                                                            <none>
                                                                                                     16m
Swati@DESKTOP-MT6990G MINGW64 ~
$ minikube service hello-minikube
! Executing "docker container inspect minikube --format={{.State.Status}}" took an
unusually long time: 2.5855409s
  Restarting the docker service may improve performance.
  NAMESPACE
                        NAME
                                        TARGET PORT
                                                8080 | http://192.168.49.2:32554
  default
                  hello-minikube
  Starting tunnel for service hello-minikube.
  NAMESPACE
                         NAME
                                        TARGET PORT
                 hello-minikube İ
                                                           http://127.0.0.1:62774
  default
  Opening service default/hello-minikube in default browser...
  Because you are using a Docker driver on windows, the terminal needs to be open to
* Stopping tunnel for service hello-minikube.
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl port-forward service/hello-minikube 7080:8080 Forwarding from 127.0.0.1:7080 -> 8080
Forwarding from [::1]:7080 -> 8080
```

```
$ kubectl get pods # List Pods
NAME
                                    READY
                                            STATUS
                                                       RESTARTS
                                                                   AGE
hello-minikube-77b6f68484-bdqxr
                                    1/1
                                            Running
                                                       0
                                                                   2m7s
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl get services # List services
NAME
                  TYPE
                              CLUSTER-IP
                                                EXTERNAL-IP
                                                               PORT(S)
                                                                                 AGE
hello-minikube
                                                                8080:32554/TCP
                 NodePort
                              10.111.155.235
                                                 <none>
                                                                                  17m
kubernetes
                 ClusterIP
                              10.96.0.1
                                                 <none>
                                                                443/TCP
                                                                                  32m
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl get deployment # List deployment
                          UP-TO-DATE
NAME
                  READY
                                        AVAILABLE
                                                     AGE
hello-minikube
                  1/1
                                                     2m25s
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl describe pod hello-minikube
                   hello-minikube-77b6f68484-bdqxr
Namespace:
                   default
Priority:
                   default
Service Account:
                   minikube/192.168.49.2
Node:
                   Tue, 09_May 2023 01:36:48 -0400
Start Time:
                   app=hello-minikube
Labels:
                   pod-template-hash=77b6f68484
Annotations:
                   <none>
                   Running
Status:
                   10.244.0.10
IP:
IPs:
                 10.244.0.10
  IP:
                ReplicaSet/hello-minikube-77b6f68484
Controlled By:
Containers:
  echo-server:
    Container ID:
docker://2349e7f32c2434185dd336e0e2af7afe7b7b863f02e587bcdab404de9035b19d
                     kicbase/echo-server:1.0
docker-pullable://kicbase/echo-
    Image:
    Image ID:
server@sha256:127ac38a2bb9537b7f252addff209ea6801edcac8a92c8b1104dacd66a583ed6
    Port:
                     <none>
    Host Port:
                     <none>
                     Running
    State:
                     Tue, 09 May 2023 01:36:50 -0400
      Started:
    Ready:
                     True
    Restart Count:
    Environment:
                     <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-f2v59 (ro)
Conditions:
  Туре
                     Status
  Initialized
                     True
  Ready
                     True
  ContainersReady
                     True
  PodScheduled
                     True
Volumes:
  kube-api-access-f2v59:
    туре:
                              Projected (a volume that contains injected data from
multiple sources)
    TokenExpirationSeconds:
                              3607
                              kube-root-ca.crt
    ConfigMapName:
    ConfigMapOptional:
                               <ni1>
    DownwardAPI:
                              true
Qos Class:
                              BestEffort
Node-Selectors:
                              <none>
                              node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
Tolerations:
                              node.kubernetes.io/unreachable:NoExecute op=Exists for
300s
Events:
  Туре
                            From
          Reason
                      Age
                                                Message
          Scheduled
                      3m6s
                            default-scheduler Successfully assigned default/hello-
minikube-77b6f68484-bdqxr to minikube
```

```
Container image "kicbase/echo-
  Normal Pulled
                        3m4s kubelet
server:1.0" already present on machine
  Normal Created
                                                     Created container echo-server
                        3m4s
                               kubelet
  Normal Started
                        3m4s
                               kubelet
                                                     Started container echo-server
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl delete deployment hello-minikube
deployment.apps "hello-minikube" deleted
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl create deployment simple-app --image=washraf/simple-app
deployment.apps/simple-app created
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl expose deployment simple-app --type=NodePort --port=80
service/simple-app exposed
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl port-forward service/simple-app 8080:80
Forwarding from 127.0.0.1:8080 -> 80 Forwarding from [::1]:8080 -> 80
Swati@DESKTOP-MT6990G MINGW64 ~
$ kubectl apply -f simple-app/deploy.yaml
error: the path "simple-app/deploy.yaml" does not exist
Swati@DESKTOP-MT6990G MINGW64 ~
$ $ kubectl apply -f simple-app/deploy.yaml
bash: $: command not found
Swati@DESKTOP-MT6990G MINGW64 ~
$ cd C:
Swati@DESKTOP-MT6990G MINGW64 /c
$ cd 677_spring_2023
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023
677_Final_Codes/
Lab3_Demo/
Lablet5.docx
Scribe/
lab-1-asterix-and-the-stock-bazaar-swati_medha_lab1/
lab2-swati_medha/
lablet-6-minikube-swatiagrawal264/
spring23-lab-3-sa-mg/
spring23-lab-3-sa-mg-Copy/
spring23-lablet-3-docker-containers-swatiagrawal264/spring23-lablet-4-virtualization-swatiagrawal264/
spring23-lablet-5-cloud-computing-swatiagrawal264/
spring23-lablet0-swatiagrawa1264/spring23-lablet1-rpc-swatiagrawa1264/
spring23-lablet2-concurrency-swatiagrawal264/
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023
$ ^C
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023
$ cd lablet-6-minikube-swatiagrawal264/
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-swatiagrawal264
(main)
$ 1s
README.md SS1.png SS2.png SS3.png SS4.png SS5.png simple-app/
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-swatiagrawal264
(main)
$ cd simple-app/
```

```
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawa1264/simple-app (main)
$ kubectl apply -f deploy.yaml
service/simple-app-svc created
Warning: resource deployments/simple-app is missing the kubectl.kubernetes.io/last-applied-configuration annotation which is required by kubectl apply. kubectl apply should only be used on resources created declaratively by either kubectl create --save-config or kubectl apply. The missing annotation will be patched automatically. The Deployment "simple-app" is invalid: spec.selector: Invalid value: v1.LabelSelector{MatchLabels:map[string]string{"app":"simple-app", "run":"simple-app"}, MatchExpressions:[]v1.LabelSelectorRequirement(nil)}: field is immutable
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawal264/simple-app (main)
$ kubectl port-forward service/simple-app 8080:80
Forwarding from 127.0.0.1:8080 -> 80 Forwarding from [::1]:8080 -> 80
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawa1264/simple-app (main)
$ kubectl get pods
                                      READY
NAME
                                                STATUS
                                                              RESTARTS
                                                                            AGE
simple-app-f47c59f88-m8klh
                                                                            8m32s
                                      1/1
                                                Running
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawa1264/simple-app (main)
$ kubectl get deployment
                           UP-TO-DATE
NAME
                 READY
                                                            AGE
                                             AVAILABLE
simple-app
                 1/1
                                                            8m48s
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawa1264/simple-app (main)
$ kubectl get service
                                                                                                     AGE
NAME
                      TYPE
                                      CLUSTER-IP
                                                            EXTERNAL-IP
                                                                               PORT(S)
                                                                               8080:32554/TCP
hello-minikube
                      NodePort
                                      10.111.155.235
                                                            <none>
                                                                                                     31m
                                      10.96.0.1
kubernetes
                      ClusterIP
                                                            <none>
                                                                               443/TCP
                                                                                                     46m
                                      10.102.123.227
simple-app
                      NodePort
                                                                               80:30412/TCP
                                                            <none>
                                                                                                     8m52s
                      ClusterIP
                                      10.106.174.73
simple-app-svc
                                                                               80/TCP
                                                                                                     108s
                                                            <none>
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawa1264/simple-app (main)
$ kubectl delete -f deploy.yaml
service "simple-app-svc" deleted
deployment.apps "simple-app" deleted
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawa1264/simple-app (main)
$ minikube pause
! Executing "docker container inspect minikube --format={{.State.Status}}" took an
! Executing
unusually long time: 2.5706645s
  Restarting the docker service may improve performance.
  Pausing node minikube
* Paused 18 containers in: kube-system, kubernetes-dashboard, storage-gluster, istio-
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawal264/simple-app (main)
$ minikube unpause
! Executing "docker container inspect minikube --format={{.State.Status}}" took an
unusually long time: 2.5544308s
* Restarting the docker service may improve performance.
  Unpausing node minikube
* Unpaused 18 containers in: kube-system, kubernetes-dashboard, storage-gluster,
istio-operator
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawa1264/simple-app (main)
$ minikube stop
  Stopping node "minikube"
* Stopping node "minikube" ...
! Executing "docker container inspect minikube --format={{.State.Status}}" took an
unusually long time: 2.5241591s
```

* Restarting the docker service may improve performance. * Powering off "minikube" via SSH ... * 1 node stopped.

Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-swatiagrawal264/simple-app (main)
\$ minikube config set memory 16384
! These changes will take effect upon a minikube delete and then a minikube start

Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-swatiagrawal264/simple-app (main)
\$ minikube addons list

\$ minikube addons list		-
 ADDON NAME	PROFILE STATUS	•
 ambassador	 minikube disabled	'
auto-pause	minikube disabled	Google
 cloud-spanner	minikube disabled	Google
csi-hostpath-driver	minikube disabled	Kubernetes
 dashboard	minikube enabled 🔽	Kubernetes
default-storageclass	minikube enabled 🗹	Kubernetes
efk	minikube disabled	3rd party (Elastic)
freshpod	minikube disabled	Google
gcp-auth	minikube disabled	Google
gvisor	minikube disabled	Google
headlamp	minikube disabled	3rd party (kinvolk.io)
helm-tiller	minikube disabled	3rd party (Helm)
inaccel	minikube disabled	3rd party (InAccel
		[info@inaccel.com])
ingress	minikube disabled	Kubernetes
ingress-dns	minikube disabled	Google
istio	minikube disabled	3rd party (Istio)
istio-provisioner	minikube disabled	3rd party (Istio)
kong	minikube disabled	3rd party (Kong HQ)
kubevirt	minikube disabled	3rd party (KubeVirt)
logviewer	minikube disabled	3rd party (unknown)
metallb	minikube disabled	3rd party (MetalLB)
metrics-server	minikube disabled	Kubernetes
nvidia-driver-installer	minikube disabled	Google
nvidia-gpu-device-plugin	minikube disabled	3rd party (Nvidia)
 olm Framework)	minikube disabled	3rd party (Operator

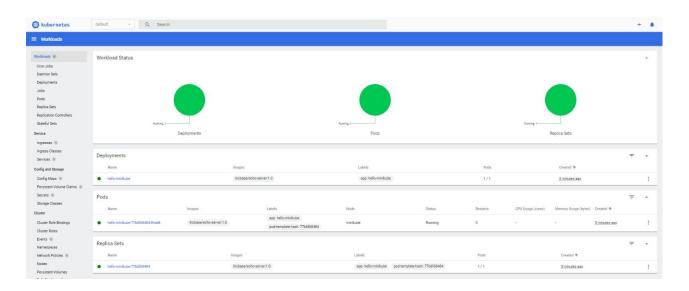
```
pod-security-policy
                                   | minikube | disabled
                                                                  | 3rd party (unknown)
                                   | minikube | disabled
                                                                  | 3rd party (Portainer.io)
  portainer
  registry
                                   | minikube | disabled
                                                                  | Google
  registry-aliases
                                   | minikube | disabled
                                                                  | 3rd party (unknown)
  registry-creds
                                   | minikube | disabled
                                                                  | 3rd party (UPMC Enterprises)
  storage-provisioner
                                   | minikube | enabled ✓
                                                                  | Google
  storage-provisioner-gluster | minikube | disabled
                                                                  | 3rd party (Gluster)
  volumesnapshots
                                   | minikube | disabled
                                                                  | Kubernetes
 Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawal264/simple-app (main)
$ minikube start -p aged --kubernetes-version=v1.16.1
  [aged] minikube v1.30.1 on Microsoft Windows 11 Home Single Language 10.0.22000.1817
Build 22000.1817
  Automatically selected the docker driver. Other choices: virtualbox, ssh
X Exiting due to MK_USAGE: Docker Desktop has only 7906MB memory but you specified
16384MB
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/lablet-6-minikube-
swatiagrawal264/simple-app (main)
$ minikube delete --all
* Deleting "minikube" in docker ...
! Executing "docker container inspect minikube --format={{.State.Status}}" took an unusually long time: 2.6481994s
* Restarting the docker service may improve performance.

* Removing C:\Users\Swati\.minikube\machines\minikube ...

* Removed all traces of the "minikube" cluster.

* Removed all traces of the "aged" cluster.
  Successfully deleted all profiles
```

Here is the Screenshot of the dashboard and application: -



Port Forwarding:-

