

COMPSCI 589 Lablet 6 - Spring 2023

Swati Agrawal
May 9, 2023

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

```
Swati@DESKTOP-MT6990G MINGW64 ~
$ minikube start
* 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 ...
* 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
kube-system    coredns-787d4945fb-flgk7              1/1     Running   0           22m
kube-system    etcd-minikube                         1/1     Running   0           22m
kube-system    kube-apiserver-minikube                1/1     Running   0           22m
kube-system    kube-controller-manager-minikube       1/1     Running   0           22m
kube-system    kube-proxy-djlc6                      1/1     Running   0           22m
kube-system    kube-scheduler-minikube                1/1     Running   0           22m
kube-system    storage-provisioner                    1/1     Running   1 (21m ago)  22m
```

```
Swati@DESKTOP-MT6990G MINGW64 ~
$ minikube kubectl -- get po -A
NAMESPACE      NAME                                     READY   STATUS    RESTARTS   AGE
kube-system    coredns-787d4945fb-flgk7              1/1     Running   0           22m
kube-system    etcd-minikube                         1/1     Running   0           22m
kube-system    kube-apiserver-minikube                1/1     Running   0           22m
kube-system    kube-controller-manager-minikube       1/1     Running   0           22m
kube-system    kube-proxy-djlc6                      1/1     Running   0           22m
kube-system    kube-scheduler-minikube                1/1     Running   0           22m
kube-system    storage-provisioner                    1/1     Running   1 (22m ago)  22m
```

```
Swati@DESKTOP-MT6990G MINGW64 ~
$ alias kubectl="minikube kubectl --"
```

```
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...
```

```
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
service/hello-minikube exposed
```

```
Swati@DESKTOP-MT6990G MINGW64 ~
```

```
$ kubectl get services hello-minikube
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
hello-minikube	NodePort	10.111.155.235	<none>	8080:32554/TCP	30s

```
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.
```

NAMESPACE	NAME	TARGET PORT	URL
default	hello-minikube	8080	http://192.168.49.2:32554

```
* 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	1/1	Running	0	6m30s

```
Swati@DESKTOP-MT6990G MINGW64 ~
```

```
$ kubectl get services # List services
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
hello-minikube	NodePort	10.111.155.235	<none>	8080:32554/TCP	6m24s
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	21m

```
Swati@DESKTOP-MT6990G MINGW64 ~
```

```
$ kubectl get deployment # List deployment
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
hello-minikube	1/1	1	1	6m47s

```
Swati@DESKTOP-MT6990G MINGW64 ~
```

```
$ kubectl describe pod hello-minikube
```

```
Name: hello-minikube-77b6f68484-vgmsc
```

```
Namespace: default
```

```
Priority: 0
```

```
Service Account: default
```

```
Node: minikube/192.168.49.2
```

```

Start Time:      Tue, 09 May 2023 01:21:12 -0400
Labels:          app=hello-minikube
                  pod-template-hash=77b6f68484
Annotations:     <none>
Status:          Running
IP:              10.244.0.5
IPs:
  IP:            10.244.0.5
Controlled By:   ReplicaSet/hello-minikube-77b6f68484
Containers:
  echo-server:
    Container ID:  docker://76aedf46c7f588f474ab47b53af589dd7a8ddeaf6581c0c2af294bac4a7b52eb
    Image:         kicbase/echo-server:1.0
    Image ID:      docker-pullable://kicbase/echo-server@sha256:127ac38a2bb9537b7f252addff209ea6801edcac8a92c8b1104dacd66a583ed6
    Port:          <none>
    Host Port:     <none>
    State:         Running
      Started:     Tue, 09 May 2023 01:21:16 -0400
    Ready:         True
    Restart Count: 0
    Environment:   <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-mchzm (ro)
Conditions:
  Type            Status
  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
    ConfigMapName:        kube-root-ca.crt
    ConfigMapOptional:    <nil>
    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:
  Type        Reason      Age   From          Message
  ----        -
  Normal     Scheduled   7m7s  default-scheduler  Successfully assigned default/hello-
minikube-77b6f68484-vgmsc to minikube
  Normal     Pulling     7m5s  kubelet        Pulling image "kicbase/echo-server:1.0"
  Normal     Pulled      7m3s  kubelet        Successfully pulled image "kicbase/echo-
server:1.0" in 1.9074593s (1.9075009s including waiting)
  Normal     Created     7m3s  kubelet        Created container echo-server
  Normal     Started     7m3s  kubelet        Started container echo-server

```

```

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 cluster 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/kubernetes/dashboard:v2.7.0
- Using image docker.io/kubernetes/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
hello-minikube	NodePort	10.111.155.235	<none>	8080:32554/TCP	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	URL
default	hello-minikube	8080	http://192.168.49.2:32554

* Starting tunnel for service hello-minikube.

NAMESPACE	NAME	TARGET PORT	URL
default	hello-minikube		http://127.0.0.1:62774

* 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 ~  
$ kubectl port-forward service/hello-minikube 7080:8080  
Forwarding from 127.0.0.1:7080 -> 8080  
Forwarding from [::1]:7080 -> 8080
```

```
Swati@DESKTOP-MT6990G MINGW64 ~
```

```
$ 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	NodePort	10.111.155.235	<none>	8080:32554/TCP	17m
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	32m

```
Swati@DESKTOP-MT6990G MINGW64 ~
```

```
$ kubectl get deployment # List deployment
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
hello-minikube	1/1	1	1	2m25s

```
Swati@DESKTOP-MT6990G MINGW64 ~
```

```
$ kubectl describe pod hello-minikube
```

```
Name: hello-minikube-77b6f68484-bdqxr
Namespace: default
Priority: 0
Service Account: default
Node: minikube/192.168.49.2
Start Time: Tue, 09 May 2023 01:36:48 -0400
Labels: app=hello-minikube
        pod-template-hash=77b6f68484
```

```
Annotations: <none>
Status: Running
IP: 10.244.0.10
IPs: IP: 10.244.0.10
```

```
Controlled By: ReplicaSet/hello-minikube-77b6f68484
Containers:
```

```
  echo-server:
    Container ID: docker://2349e7f32c2434185dd336e0e2af7afe7b7b863f02e587bcdab404de9035b19d
    Image: kicbase/echo-server:1.0
    Image ID: docker-pullable://kicbase/echo-server@sha256:127ac38a2bb9537b7f252addff209ea6801edcac8a92c8b1104dacd66a583ed6
    Port: <none>
    Host Port: <none>
    State: Running
      Started: Tue, 09 May 2023 01:36:50 -0400
    Ready: True
    Restart Count: 0
    Environment: <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-f2v59 (ro)
```

```
Conditions:
  Type              Status
  Initialized        True
  Ready              True
  ContainersReady    True
  PodScheduled       True
```

```
Volumes:
  kube-api-access-f2v59:
    Type: Projected (a volume that contains injected data from multiple sources)
    TokenExpirationSeconds: 3607
    ConfigMapName: kube-root-ca.crt
    ConfigMapOptional: <nil>
    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:
  Type    Reason      Age   From          Message
  ----    -
  Normal  Scheduled   3m6s  default-scheduler  Successfully assigned default/hello-minikube-77b6f68484-bdqxr to minikube
```

```
Normal Pulled 3m4s kubelet Container image "kicbase/echo-
server:1.0" already present on machine
Normal Created 3m4s kubelet Created container echo-server
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
$ ls
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-swatiagrawal264/
spring23-lablet1-rpc-swatiagrawal264/
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)
$ ls
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/label-6-minikube-
swatiagrawal264/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/label-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/label-6-minikube-
swatiagrawal264/simple-app (main)
$ kubectl get pods
NAME                                READY    STATUS    RESTARTS    AGE
simple-app-f47c59f88-m8klh          1/1      Running   0            8m32s
```

```
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/label-6-minikube-
swatiagrawal264/simple-app (main)
$ kubectl get deployment
NAME            READY    UP-TO-DATE    AVAILABLE    AGE
simple-app       1/1      1              1             8m48s
```

```
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/label-6-minikube-
swatiagrawal264/simple-app (main)
$ kubectl get service
NAME            TYPE        CLUSTER-IP        EXTERNAL-IP    PORT(S)          AGE
hello-minikube  NodePort    10.111.155.235    <none>         8080:32554/TCP   31m
kubernetes      ClusterIP   10.96.0.1         <none>         443/TCP          46m
simple-app       NodePort    10.102.123.227    <none>         80:30412/TCP     8m52s
simple-app-svc   ClusterIP   10.106.174.73     <none>         80/TCP          108s
```

```
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/label-6-minikube-
swatiagrawal264/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/label-6-minikube-
swatiagrawal264/simple-app (main)
$ minikube pause
! Executing "docker container inspect minikube --format={{.State.Status}}" took an
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-
operator
```

```
Swati@DESKTOP-MT6990G MINGW64 /c/677_spring_2023/label-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/label-6-minikube-
swatiagrawal264/simple-app (main)
$ minikube stop
! 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_2023/1ablet-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_2023/1ablet-6-minikube-swatiagrawal264/simple-app (main)
 \$ minikube addons list

ADDON NAME	PROFILE	STATUS	MAINTAINER
ambassador	minikube	disabled	3rd party (Ambassador)
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)
inacel	minikube	disabled	3rd party (InAcce1 [info@inacel.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)
portainer	minikube	disabled	3rd party (Portainer.io)
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_2023/1ablet-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_2023/1ablet-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.
```

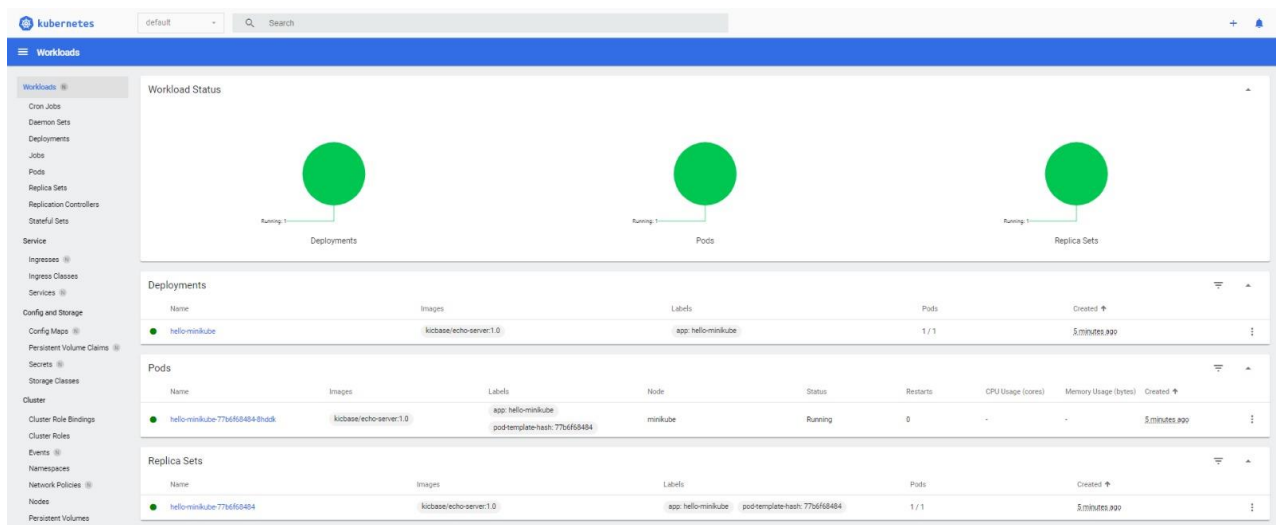
```
* Removing C:\Users\Swati\.minikube\machines\minikube ...
```

```
* 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: -



The screenshot shows the Kubernetes Dashboard interface. The left sidebar contains navigation links for Workloads, Ingresses, Config and Storage, Cluster, and Events. The main content area displays the 'Workload Status' section with three green circular indicators for Deployments, Pods, and Replica Sets, each labeled 'Running: 1'. Below this, there are three tables: Deployments, Pods, and Replica Sets. The Deployments table shows one deployment named 'hello-minikube' using the 'kicbase/echo-server:1.0' image. The Pods table shows one pod named 'hello-minikube-77b6f6d484' in a 'Running' state. The Replica Sets table shows one replica set named 'hello-minikube-77b6f6d484' with 1/1 replicas.