```
my-pod
Vame:
                  default
Namespace:
Priority:
                  0
Service Account:
                 default
lode:
                  minikube/192.168.49.2
                  Thu, 20 Mar 2025 05:27:17 +0000
Start Time:
abels:
                  run=my-pod
Annotations:
                  <none>
                  Running
Status:
                  10.244.0.7
IP:
[Ps:
IP: 10.244.0.7
Containers:
my-pod:
   Container ID:
                    docker://78c794e03fcec0f24234314ba74fd22401fbd5d076025c683e13faf13befedab
   Image:
   Image ID:
                    docker-pullable://nginx@sha256:124b44bfc9ccd1f3cedf4b592d4d1e8bddb78b51ec2ed5056c52d3692baebc19
   Port:
                    80/TCP
   Host Port:
                    0/TCP
   State:
                    Running
                    Thu, 20 Mar 2025 05:27:22 +0000
     Started:
   Ready:
                    True
   Restart Count:
                    0
   Environment:
                    <none>
   Mounts:
     /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-kj4gj (ro)
Conditions:
 Туре
                               Status
 PodReadyToStartContainers
                               True
 Initialized
                               True
 Ready
                               True
```

ubundu@DESKTOP-MJGHIPO:~\$ kubectl describe pod my-pod

```
Tolerations:
                                node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                                node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
           Reason
                               From
                                                    Message
  Type
                       Age
           Scheduled
                       3m34s
                               default-scheduler
                                                    Successfully assigned default/my-pod to minikube
  Normal
                                                    Pulling image "nginx"
  Normal
                       3m34s
          Pulling
                               kubelet
  Normal Pulled
                       3m30s
                               kubelet
                                                    Successfully pulled image "nginx" in 4.236s (4.236s inc
2004242 bytes.
  Normal Created
Normal Started
                                                    Created container: my-pod
                       3m30s
                               kubelet
                       3m30s
                               kubelet
                                                    Started container my-pod
ubundu@DESKTOP-MJGHIPO:~$ kubectl logs my-pod
kubectl logs my-pod: command not found
ubundu@DESKTOP-MJGHIPO:~$ kubectl logs my-pod
kubectl logs my-pod: command not found
ubundu@DESKTOP-MJGHIPO:~$ kubectl get pods
NAME
          READY
                   STATUS
                              RESTARTS
                                          AGE
my-pod
          1/1
                   Running
ubundu@DESKTOP-MJGHIPO:~$ kubectl logs my-pod
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration /docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
```

/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh

10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf 10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf

<none>

Node-Selectors:

```
minikube v1.35.0 on Ubuntu 24.04 (amd64)
  Using the docker driver based on existing profile
  Starting "minikube" primary control-plane node in "min:
  Pulling base image v0.0.46 ...
  Updating the running docker "minikube" container ...
  Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
  Verifying Kubernetes components...
  Using image gcr.io/k8s-minikube/storage-provisioner:
  Using image docker.io/kubernetesui/dashboard:v2.7.0
  Using image docker.io/kubernetesui/metrics-scraper:vi
  Some dashboard features require the metrics-server adde
      minikube addons enable metrics-server
Enabled addons: storage-provisioner, dashboard, default
 Done! kubectl is now configured to use "minikube" clust
oundu@DESKTOP-MJGHIPO:~$ kubectl get pod
AME
       READY STATUS RESTARTS
                                      AGE
/-pod 1/1
               Running 2 (39s ago)
oundu@DESKTOP-MJGHIPO:~$ kubectl get rs
resources found in default namespace.
oundu@DESKTOP-MJGHIPO:~$ kubectl get namespaces
AME
                     STATUS
                             AGE
efault
                     Active
                             25h
                     Active
ube-node-lease
                             25h
ube-public
                     Active
                             25h
ube-system
                    Active
                             25h
ubernetes-dashboard Active 7m41s
```

```
minikubo v1 35 A on Ubuntu 24.04 (amd64)
fault:ubundu@DESKTOP-MJGHIPO:~ er based on existing profile
       ctrl+alt+1
                       rimary control-plane node in "minikube" cluster
  Pulling base image v0.0.46 ...
  Updating the running docker "minikube" container ...
  Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
  Verifying Kubernetes components...
  Using image gcr.io/k8s-minikube/storage-provisioner:v5
  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
Enabled addons: storage-provisioner, dashboard, default-storageclass
  Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
oundu@DESKTOP-MJGHIPO:~$ kubectl get pod
       READY
               STATUS
                          RESTARTS
                                        AGE
                          2 (39s ago)
       1/1
                                        174m
/-pod
               Running
oundu@DESKTOP-MJGHIPO:~$ kubectl get rs
resources found in default namespace.
oundu@DESKTOP-MJGHIPO:~$ kubectl get namespaces
                      STATUS
ME
                               AGE
                               25h
fault
                      Active
ibe-node-lease
                      Active
                               25h
ibe-public
                               25h
                      Active
                      Active
                               25h
ıbe-system
                               7m41s
ıbernetes-dashboard
                      Active
oundu@DESKTOP-MJGHIPO:~$ kubectl get rs --all-namespaces
MESPACE
                      NAME
                                                              DESIRED
                                                                         CURRENT
                                                                                   READY
                                                                                            AGE
                      coredns-668d6bf9bc
ibe-system
                                                              1
                                                                         1
                                                                                   1
                                                                                            25h
                      dashboard-metrics-scraper-5d59dccf9b
                                                              1
                                                                         1
                                                                                   1
                                                                                            7m55s
lbernetes-dashboard
                                                              1
                                                                         1
ıbernetes-dashboard
                      kubernetes-dashboard-7779f9b69b
                                                                                   1
                                                                                            7m55s
93°
                               Q Search
```

```
ubundu@DESKTOP-MJGHIPO:~$ kubectl create deployment webnginx2 --image=nginx.latest --replicas=1
deployment.apps/webnginx2 created
ubundu@DESKTOP-MJGHIPO:~$ kubeclt get pod
Command 'kubeclt' not found, did you mean:
command 'kubectl' from snap kubectl (1.32.3)
See 'snap info <snapname>' for additional versions.
ubundu@DESKTOP-MJGHIPO:~$ kubectl get pod
NAME
                             READY
                                      STATUS
                                                      RESTARTS
                                                                     AGE
ny-pod
                             1/1
                                      Running
                                                      2 (10m ago)
                                                                    3h4m
webapp-6fddc68b96-j5twc
                             1/1
                                                                     2m13s
                                      Running
webnginx2-568694467f-lwsmx
                                                                    41s
                             0/1
                                      ErrImagePull
ubundu@DESKTOP-MJGHIPO:~$ kubectl get rs
MAME
                       DESIRED
                                  CURRENT
                                            READY
webapp-6fddc68b96
                                            1
                                                     2m42s
webnginx2-568694467f
                       1
                                            0
                                                     70s
ubundu@DESKTOP-MJGHIPO:~$ kubectl get rs --all --all
error: unknown flag: --all
See 'kubectl get --help' for usage.
ubundu@DESKTOP-MJGHIPO:~$ kubectl get rs --all-all
error: unknown flag: --all-all
See 'kubectl get --help' for usage.
ubundu@DESKTOP-MJGHIPO:~$ kubectl get rs --all-namespaces
NAMESPACE
                                                                DESIRED
                                                                           CURRENT
                                                                                     READY
                                                                                              AGE
default
                       webapp-6fddc68b96
                                                                1
                                                                           1
                                                                                     1
                                                                                              3m57s
default
                       webnginx2-568694467f
                                                                1
                                                                           1
                                                                                     0
                                                                                              2m25s
                       coredns-668d6bf9bc
                                                                1
                                                                           1
                                                                                     1
                                                                                              25h
kube-system
                       dashboard-metrics-scraper-5d59dccf9b
                                                                           1
kubernetes-dashboard
                                                                1
                                                                                     1
                                                                                              16m
                                                                1
                                                                           1
                                                                                     1
kubernetes-dashboard
                       kubernetes-dashboard-7779f9b69b
                                                                                              16m
ubundu@DESKTOP-MJGHIPO:~$ ls
```

ubundu@DESKTOP-MJGHIPO:~\$ kubectl create deployment webapp --image=nginx --replicas=1

deployment.apps/webapp created

devops docker-compose.yaml pod.yml

иетаисс	my-service	9000	Http://192.100.49.2:30002	
Starting	tunnel for se	 ervice my-serv: 	 ice.	
NAMESPACE	NAME	TARGET PORT	   URL	
default	my-service		http://127.0.0.1:32961	
http://1: Because y Stoppii abundu@DESKTu slans-serif;} Font-size:12 lot Found <td>27.0.0.1:32963 you are using ng tunnel for DP-MJGHIPO:-\$ nl&gt;<html 1="" a="" b="" h2,="" h3,="" lang="h1," px;}="" {color:=""><hr 1="" class="1" l="" r="" target="" the=""/>ubundu@DESK! ml&gt;<html 1="" a="" b="" h2,="" h3,="" lang="h1," px;}="" {color:=""><hr 1="" 1<="" class="1" r="" target="" td="" the=""/><td>a Docker drive service my-ser curl http://l! ="en"&gt;<head><t.; b {color:white :black;} .line line" /&gt;<b>resource or is TOP-MJGHTPO:-\$ ="en"&gt;<head><t.; b {color:white :black;} .line !ine" /&gt;<b>resource or is</b></t.; </head></b></t.; </head></td><td>er on linux, the terminal needs to be open to run it. rvice. 92.168.49.2:30002 itle&gt;HTTP Status 404 - Not Found<style type="text/css">body {font-family:Tahoma,Ari;background-color:#525D76;} h1 {font-size:22px;} h2 {font-size:16px;} h3 {font-size:14px;} {height:1px;background-color:#525D76;border:none;}</style><body><h1>HTTP Status 404 Type Status Report<b>Description</b> The origin server did not find a current re not willing to disclose that one exists.<hr class="line"/><h3>Apache Tomcat/9.0.102 curl http://192.168.49.2:30002/my-app/ itle&gt;HTTP Status 404 - Not Found<style type="text/css">body {font-family:Tahoma,Ari;background-color:#525D76;} h1 {font-size:22px;} h2 {font-size:16px;} h3 {font-size:14px;} {height:1px;background-color:#525D76;border:none;}</style><body><h1>HTTP Status 404 Type Status Report<b>Description</b> The origin server did not find a current re not willing to disclose that one exists.<hr class="line"/><h3>Apache Tomcat/9.0.102curl http://192.168.49.2:30002/maven-web-app/</h3></h1></body></h3></h1></body></td><td>p { - pre h3&gt; al, p { - pre</td></html></html></td>	27.0.0.1:32963 you are using ng tunnel for DP-MJGHIPO:-\$ nl> <html 1="" a="" b="" h2,="" h3,="" lang="h1," px;}="" {color:=""><hr 1="" class="1" l="" r="" target="" the=""/>ubundu@DESK! ml&gt;<html 1="" a="" b="" h2,="" h3,="" lang="h1," px;}="" {color:=""><hr 1="" 1<="" class="1" r="" target="" td="" the=""/><td>a Docker drive service my-ser curl http://l! ="en"&gt;<head><t.; b {color:white :black;} .line line" /&gt;<b>resource or is TOP-MJGHTPO:-\$ ="en"&gt;<head><t.; b {color:white :black;} .line !ine" /&gt;<b>resource or is</b></t.; </head></b></t.; </head></td><td>er on linux, the terminal needs to be open to run it. rvice. 92.168.49.2:30002 itle&gt;HTTP Status 404 - Not Found<style type="text/css">body {font-family:Tahoma,Ari;background-color:#525D76;} h1 {font-size:22px;} h2 {font-size:16px;} h3 {font-size:14px;} {height:1px;background-color:#525D76;border:none;}</style><body><h1>HTTP Status 404 Type Status Report<b>Description</b> The origin server did not find a current re not willing to disclose that one exists.<hr class="line"/><h3>Apache Tomcat/9.0.102 curl http://192.168.49.2:30002/my-app/ itle&gt;HTTP Status 404 - Not Found<style type="text/css">body {font-family:Tahoma,Ari;background-color:#525D76;} h1 {font-size:22px;} h2 {font-size:16px;} h3 {font-size:14px;} {height:1px;background-color:#525D76;border:none;}</style><body><h1>HTTP Status 404 Type Status Report<b>Description</b> The origin server did not find a current re not willing to disclose that one exists.<hr class="line"/><h3>Apache Tomcat/9.0.102curl http://192.168.49.2:30002/maven-web-app/</h3></h1></body></h3></h1></body></td><td>p { - pre h3&gt; al, p { - pre</td></html></html>	a Docker drive service my-ser curl http://l! ="en"> <head><t.; b {color:white :black;} .line line" /&gt;<b>resource or is TOP-MJGHTPO:-\$ ="en"&gt;<head><t.; b {color:white :black;} .line !ine" /&gt;<b>resource or is</b></t.; </head></b></t.; </head>	er on linux, the terminal needs to be open to run it. rvice. 92.168.49.2:30002 itle>HTTP Status 404 - Not Found <style type="text/css">body {font-family:Tahoma,Ari;background-color:#525D76;} h1 {font-size:22px;} h2 {font-size:16px;} h3 {font-size:14px;} {height:1px;background-color:#525D76;border:none;}</style> <body><h1>HTTP Status 404 Type Status Report<b>Description</b> The origin server did not find a current re not willing to disclose that one exists.<hr class="line"/><h3>Apache Tomcat/9.0.102 curl http://192.168.49.2:30002/my-app/ itle&gt;HTTP Status 404 - Not Found<style type="text/css">body {font-family:Tahoma,Ari;background-color:#525D76;} h1 {font-size:22px;} h2 {font-size:16px;} h3 {font-size:14px;} {height:1px;background-color:#525D76;border:none;}</style><body><h1>HTTP Status 404 Type Status Report<b>Description</b> The origin server did not find a current re not willing to disclose that one exists.<hr class="line"/><h3>Apache Tomcat/9.0.102curl http://192.168.49.2:30002/maven-web-app/</h3></h1></body></h3></h1></body>	p { - pre h3> al, p { - pre

URL

NAMESPACE

<html><body>

</body>

<h2>Hello World!</h2>

NAME

TARGET PORT

```
Command 'kunectl' not found, did you mean:
command 'kubectl' from snap kubectl (1.32.3)
See 'snap info <snapname>' for additional versions.
ubundu@DESKTOP-MJGHIPO:~$ kubectl get ns
                                STATUS
NAME
                                              AGE
default
                                 Active
                                              28h
kube-node-lease
                                 Active
                                              28h
                                 Active
                                              28h
kube-public
kube-system
                                 Active
                                              28h
kubernetes-dashboard
                                Active
                                              165m
ubundu@DESKTOP-MJGHIPO:~$ kubectl create ns mydeploy
namespace/mydeploy created
ubundu@DESKTOP-MJGHIPO:-$ kubectl apply -f deploy.yml -n mydeploy
deployment.apps/my-deploy created
The Service "my-service" is invalid: spec.ports[0].nodePort: Invalid value: 30002: provided port is already allocated
ubundu@DESKTOP-MJGHIPO:-$ kubectl get pod
NAME READY STATUS RESTARTS AGE
my-deploy-6ffffb5f7d-zmbdv
                                         1/1
                                                     Running
                                                                                                       37m
                                         1/1
1/1
1/1
1/1
1/1
                                                     Running
                                                                                 2 (164m ago)
                                                                                                       5h38m
my-pod
webapp-6fddc68b96-2fv6g
                                                                                                       139m
                                                                                 0
                                                     Running
webapp-6fddc68b96-j5twc
                                                     Running
                                                                                 0
                                                                                                       156m
webapp-6fddc68b96-prqdl
webnginx2-568694467f-lwsmx
                                                     Running
                                                                                 0
                                                                                                       139m
                                         0/1
                                                     ImagePullBackOff
                                                                                                       155m
ubundu@DESKTOP-MJGHIPO:~$ kubectl get deploy
NAME READY UP-TO-DATE AVAILABLE
NAME
                                                                 AGE
                 1/1
3/3
                                                                 67m
my-deploy
                                               3
                                                                 157m
webapp
webnginx2
                                                                 156m
                 0/1
                                                                                                                                                                                        Show desktop
ubundu@DESKTOP-MJGHIPO:~$
```

<h2>Hello World!</h2> </body>

ubundu@DESKTOP-MJGHIPO:~\$ kunectl get ns

</html>

```
Command 'kunectl' not found, did you mean:
command 'kubectl' from snap kubectl (1.32.3)
See 'snap info <snapname>' for additional versions.
ubundu@DESKTOP-MJGHIPO:~$ kubectl get ns
                                STATUS
NAME
                                              AGE
default
                                 Active
                                              28h
kube-node-lease
                                 Active
                                              28h
                                 Active
                                              28h
kube-public
kube-system
                                 Active
                                              28h
kubernetes-dashboard
                                Active
                                              165m
ubundu@DESKTOP-MJGHIPO:~$ kubectl create ns mydeploy
namespace/mydeploy created
ubundu@DESKTOP-MJGHIPO:-$ kubectl apply -f deploy.yml -n mydeploy
deployment.apps/my-deploy created
The Service "my-service" is invalid: spec.ports[0].nodePort: Invalid value: 30002: provided port is already allocated
ubundu@DESKTOP-MJGHIPO:-$ kubectl get pod
NAME READY STATUS RESTARTS AGE
my-deploy-6ffffb5f7d-zmbdv
                                         1/1
                                                     Running
                                                                                                       37m
                                         1/1
1/1
1/1
1/1
1/1
                                                     Running
                                                                                 2 (164m ago)
                                                                                                       5h38m
my-pod
webapp-6fddc68b96-2fv6g
                                                                                                       139m
                                                                                 0
                                                     Running
webapp-6fddc68b96-j5twc
                                                     Running
                                                                                 0
                                                                                                       156m
webapp-6fddc68b96-prqdl
webnginx2-568694467f-lwsmx
                                                     Running
                                                                                 0
                                                                                                       139m
                                         0/1
                                                     ImagePullBackOff
                                                                                                       155m
ubundu@DESKTOP-MJGHIPO:~$ kubectl get deploy
NAME READY UP-TO-DATE AVAILABLE
NAME
                                                                 AGE
                 1/1
3/3
                                                                 67m
my-deploy
                                               3
                                                                 157m
webapp
webnginx2
                                                                 156m
                 0/1
                                                                                                                                                                                        Show desktop
ubundu@DESKTOP-MJGHIPO:~$
```

<h2>Hello World!</h2> </body>

ubundu@DESKTOP-MJGHIPO:~\$ kunectl get ns

</html>

```
ubundu@DESKTOP-MJGHIPO:~$ kubectl get deploy
NAME READY UP-TO-DATE AVAILABLE
                  READY
                                                                    AGE
                  1/1
3/3
my-deploy
                                                                    67m
webapp
                                                                    157m
                  0/1
webnginx2
                                                 0
                                                                    156m
ubundu@DESKTOP-MJGHIPO:~$ kubectl get pod -n mydeploy
                                          READY STATUS
1/1 Running
NAME
                                                                      RESTARTS
                                                                                       AGE
my-deploy-6ffffb5f7d-qlc9d 1/1 Running 0
ubundu@DESKTOP-MJGHIPO:~$ kubectl get deploy -n mydeploy
NAME READY UP-TO-DATE AVAILABLE AGE
                                                                                       3mls
my-deploy
                                                                   3m39s
ubundu@DESKTOP-MJGHIPO:~$ kubectl get all --namespace mydeploy
NAME READY STATUS RESTARTS AGE
pod/my-deploy-6ffffb5f7d-qlc9d
                                                  1/1
                                                             Running
                                                                            0
                                                                                             5m12s
NAME
                                          READY
                                                      UP-TO-DATE
                                                                          AVAILABLE
                                                                                            AGE
                                                                                            5m12s
deployment.apps/my-deploy
                                                                          CURRENT
                                                                                         READY
NAME
                                                           DESIRED
                                                                                                     AGE
replicaset.apps/my-deploy-6ffffb5f7d 1
ubundu@DESKTOP-MJGHIPO:~$ sudo nano ns.yml
[sudo] password for ubundu:
                                                                                                     5m12s
ubundu@DESKTOP-MJGHIPO:~$ kubectl apply -f ns.yml
namespace/my-demo-ns created
ubundu@DESKTOP-MJGHIPO:~$ sudo nano pod-ns.yml
ubundu@DESKTOP-MJGHIPO:~$ kubectl get pod -n my-demo-ns
No resources found in my-demo-ns namespace.
ubundu@DESKTOP-MJGHIPO:~$ kubectl apply -f pod-ns.yml
pod/my-pod created

pod/my-pod created

ubundu@DESKTOP-MJGHIPO:~$ kubectl get pod -n my-demo-ns

DEADY STATUS RESTARTS AGE
            1/1
my-pod 1/1 Running ubundu@DESKTOP-MJGHIPO:~$ |
```