

```
root@my-pod: /usr/local

prasannndh_raaju@DESKTOP-S03TDPN:~$ sudo nano pod.yml
[sudo] password for prasannndh_raaju:
prasannndh_raaju@DESKTOP-S03TDPN:~$ sudo nano pod.yml
prasannndh_raaju@DESKTOP-S03TDPN:~$ kubectl apply -f pod.yml
error: the path "pod.yml" does not exist
prasannndh_raaju@DESKTOP-S03TDPN:~$ kubectl apply -f pod.yml
error: the path "pod.yml" does not exist
prasannndh_raaju@DESKTOP-S03TDPN:~$ sudo nano pod.yml
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prasannndh_raaju@DESKTOP-S03TDPN:~$ sudo vi pod.yml
2 files to edit
prasannndh_raaju@DESKTOP-S03TDPN:~$ ls
Jenkinsfile Jenkinsfile.save docker-compose.yml pod.yml
prasannndh_raaju@DESKTOP-S03TDPN:~$ sudo nano pod.yml
prasannndh_raaju@DESKTOP-S03TDPN:~$ kubectl apply -f pod.yml
error: error parsing pod.yml: error converting YAML to JSON: yaml: line 7: mapping values are not allowed in this context
prasannndh_raaju@DESKTOP-S03TDPN:~$ sudo nano pod.yml
prasannndh_raaju@DESKTOP-S03TDPN:~$ sudo nano pod.yml
prasannndh_raaju@DESKTOP-S03TDPN:~$ kubectl apply -f pod.yml
pod/my-pod created
prasannndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod
NAME      READY   STATUS             RESTARTS   AGE
my-pod    0/1     ContainerCreating   0           23s
mypod     1/1     Running             0           62m
prasannndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod
NAME      READY   STATUS             RESTARTS   AGE
my-pod    0/1     ContainerCreating   0           35s
mypod     1/1     Running             0           62m
prasannndh_raaju@DESKTOP-S03TDPN:~$ kubectl exec -it my-app -- /bin/bash
Error from server (NotFound): pods "my-app" not found
prasannndh_raaju@DESKTOP-S03TDPN:~$ kubectl exec -it my-pod -- /bin/bash
root@my-pod:/usr/local/tomcat# l
bin/          conf/         filtered-KEYS  LICENSE      native-jni-lib/  README.md    RUNNING.txt   upstream-KEYS  webapps.dist/
BUILDING.txt  CONTRIBUTING.md lib/          logs/        NOTICE          RELEASE-NOTES temp/         webapps/       work/
root@my-pod:/usr/local/tomcat# ls
bin          conf         filtered-KEYS  LICENSE      native-jni-lib  README.md    RUNNING.txt   upstream-KEYS  webapps.dist
BUILDING.txt CONTRIBUTING.md lib           logs         NOTICE         RELEASE-NOTES temp         webapps       work
root@my-pod:/usr/local/tomcat# cd webapps
root@my-pod:/usr/local/tomcat/webapps# ls
maven-web-app  maven-web-app.war
root@my-pod:/usr/local/tomcat/webapps# cd ..
root@my-pod:/usr/local/tomcat# cd ..
root@my-pod:/usr/local#
```

```
prasanndh_raaju@DESKTOP-S  X + v
coredns-668d6bf9bc-vlmnl      1/1      Running   1 (53m ago)  22h
etcd-minikube                 1/1      Running   1 (53m ago)  22h
kube-apiserver-minikube       1/1      Running   1 (53m ago)  22h
kube-controller-manager-minikube 1/1      Running   1 (53m ago)  22h
kube-proxy-jg2n2              1/1      Running   1 (53m ago)  22h
kube-scheduler-minikube       1/1      Running   1 (53m ago)  22h
storage-provisioner           1/1      Running   3 (52m ago)  22h
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl logs mypod
kubectl logs mypod: command not found
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod -o wide
NAME      READY   STATUS    RESTARTS   AGE   IP           NODE      NOMINATED NODE   READINESS GATES
mypod     1/1     Running   0          49m   10.244.0.4   minikube   <none>            <none>
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl logs mypod
kubectl logs mypod: command not found
prasanndh_raaju@DESKTOP-S03TDPN:~$ sudo nano pod.yml
[sudo] password for prasanndh_raaju:
prasanndh_raaju@DESKTOP-S03TDPN:~$ sudo nano pod.yml
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prasanndh_raaju@DESKTOP-S03TDPN:~$ sudo vi pod.yml
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error: error parsing pod.yml: error converting YAML to JSON: yaml: line 7: mapping values are not allowed in this context
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prasanndh_raaju@DESKTOP-S03TDPN:~$ sudo nano pod.yml
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl apply -f pod.yml
pod/my-pod created
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod
NAME      READY   STATUS    RESTARTS   AGE
my-pod    0/1     ContainerCreating   0          23s
mypod     1/1     Running         0          62m
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod
NAME      READY   STATUS    RESTARTS   AGE
my-pod    0/1     ContainerCreating   0          35s
mypod     1/1     Running         0          62m
prasanndh_raaju@DESKTOP-S03TDPN:~$ |
```



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11:10  
20-03-2025

[1/2]

pod \*

```
apiVersion: v1
kind: Pod
metadata:
  name: my-pod
  labels:
    app: my-web-app
    type: backend
spec:
  containers:
    - name: nginx-container
      image: nginx
      ports:
        - containerPort: 7575
```

^G Help  
^X Close

^O Write Out  
^R Read File

^W Where Is  
^N Replace

^K Cut  
^U Paste

^T Execute  
^J Justify

^C Location  
^/ Go To Line

M-U Undo  
M-E Redo

M-A Set Mark  
M-6 Copy

M-] To Bracket  
^Q Where Was


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11:00  
20-03-2025



Error code: Wsl/Service/WSL\_E\_DISTRO\_NOT\_FOUND

PS C:\Users\Prasanndh Raaju> wsl.exe -d Ubuntu

Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 x86\_64)

\* Documentation: <https://help.ubuntu.com>  
 \* Management: <https://landscape.canonical.com>  
 \* Support: <https://ubuntu.com/pro>

System information as of Thu Mar 20 04:31:31 UTC 2025

System load: 1.13 Processes: 36  
 Usage of /: 0.7% of 1006.85GB Users logged in: 0  
 Memory usage: 12% IPv4 address for eth0: 172.26.108.121  
 Swap usage: 0%

\* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s just raised the bar for easy, resilient and secure K8s cluster deployment.

<https://ubuntu.com/engage/secure-kubernetes-at-the-edge>

This message is shown once a day. To disable it please create the /home/prasanndh\_raaju/.hushlogin file.

prasanndh\_raaju@DESKTOP-S03TDPN:/mnt/c/Users/Prasanndh Raaju\$ cd

prasanndh\_raaju@DESKTOP-S03TDPN:~\$ minikube start

🐳 minikube v1.35.0 on Ubuntu 24.04 (amd64)

🔧 Using the docker driver based on existing profile

👉 Starting "minikube" primary control-plane node in "minikube" cluster

📡 Pulling base image v0.0.46 ...

📦 Downloading Kubernetes v1.32.0 preload ...

> preloaded-images-k8s-v18-v1...: 333.57 MiB / 333.57 MiB 100.00% 5.12 Mi

🔄 Restarting existing docker container for "minikube" ...

🔧 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...

🔍 Verifying Kubernetes components...

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

🌟 Enabled addons: default-storageclass, storage-provisioner

🎉 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

prasanndh\_raaju@DESKTOP-S03TDPN:~\$ kubectl get pod

No resources found in default namespace.

prasanndh\_raaju@DESKTOP-S03TDPN:~\$ kubectl run mypod --image=nginx --port=80

pod/mypod created

prasanndh\_raaju@DESKTOP-S03TDPN:~\$ kubectl get node

NAME	STATUS	ROLES	AGE	VERSION
minikube	Ready	control-plane	22h	v1.32.0

prasanndh\_raaju@DESKTOP-S03TDPN:~\$ kubectl get pod

NAME	READY	STATUS	RESTARTS	AGE
mypod	1/1	Running	0	2m19s

prasanndh\_raaju@DESKTOP-S03TDPN:~\$ kubectl get pod -o wide



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10:58  
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```
prasanndh_raaju@DESKTOP-S  X + v
minikube Ready control-plane 22h v1.32.0
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod
NAME READY STATUS RESTARTS AGE
mypod 1/1 Running 0 2m19s
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod -o wide
NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES
mypod 1/1 Running 0 3m23s 10.244.0.4 minikube <none> <none>
prasanndh_raaju@DESKTOP-S03TDPN:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
prasanndh/simplewebapp latest 5b4b16fdf6f4 17 hours ago 520MB
<none> <none> a5daec3b5d6b 17 hours ago 520MB
<none> <none> 3716e0cc9158 17 hours ago 520MB
<none> <none> 9a64a38836ba 18 hours ago 520MB
<none> <none> 98613b847b3c 18 hours ago 520MB
tomcat 9 148e4169be1a 13 days ago 520MB
nginx latest 53a18edff809 6 weeks ago 192MB
mysql latest fa262c3a6564 8 weeks ago 797MB
gcr.io/k8s-minikube/kicbase v0.0.46 e72c4cbe9b29 2 months ago 1.31GB
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pods -n kube-system
NAME READY STATUS RESTARTS AGE
coredns-668d6bf9bc-vlmnl 1/1 Running 1 (53m ago) 22h
etcd-minikube 1/1 Running 1 (53m ago) 22h
kube-apiserver-minikube 1/1 Running 1 (53m ago) 22h
kube-controller-manager-minikube 1/1 Running 1 (53m ago) 22h
kube-proxy-jg2n2 1/1 Running 1 (53m ago) 22h
kube-scheduler-minikube 1/1 Running 1 (53m ago) 22h
storage-provisioner 1/1 Running 3 (52m ago) 22h
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl logs my-pod
kubectl logs my-pod: command not found
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl logs ndinx
kubectl logs ndinx: command not found
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pods -n kube-system
NAME READY STATUS RESTARTS AGE
coredns-668d6bf9bc-vlmnl 1/1 Running 1 (53m ago) 22h
etcd-minikube 1/1 Running 1 (53m ago) 22h
kube-apiserver-minikube 1/1 Running 1 (53m ago) 22h
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storage-provisioner 1/1 Running 3 (52m ago) 22h
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl logs mypod
kubectl logs mypod: command not found
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod -o wide
NAME READY STATUS RESTARTS AGE IP NODE NOMINATED NODE READINESS GATES
mypod 1/1 Running 0 49m 10.244.0.4 minikube <none> <none>
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl logs mypod
kubectl logs mypod: command not found
```



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20-03-2025

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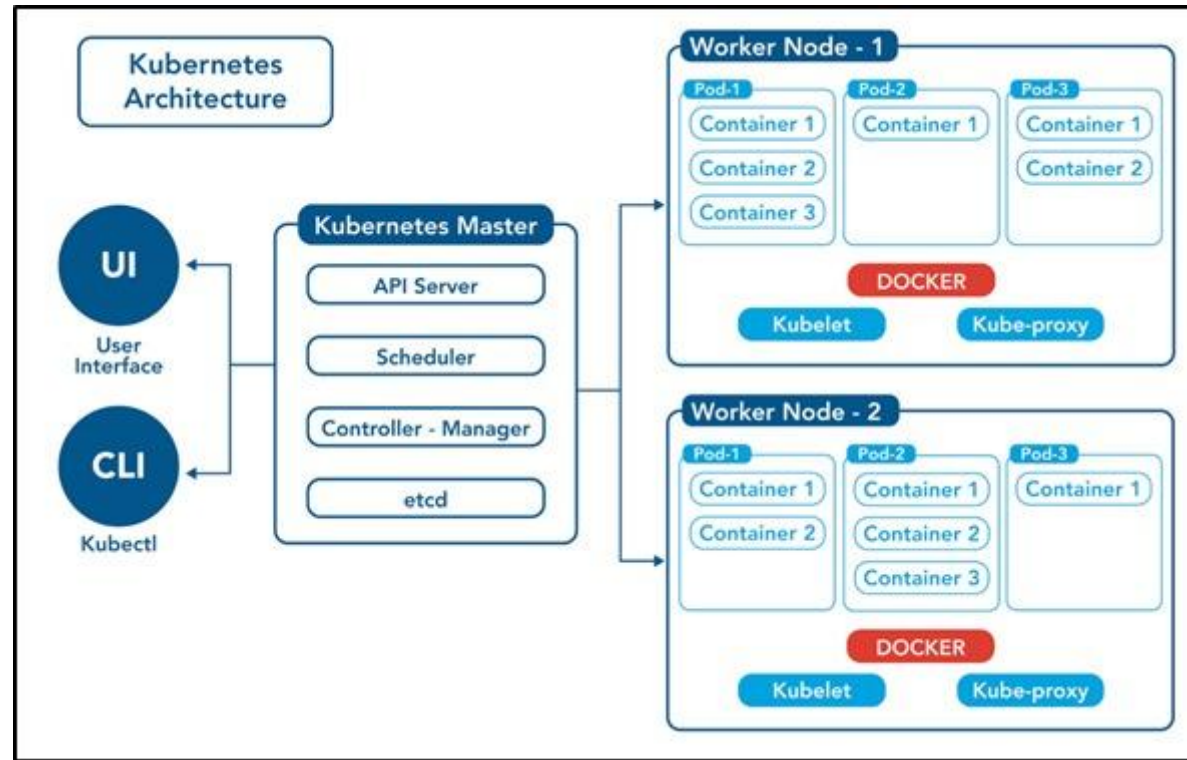


## Kubernetes (K8s)

Kubernetes is an open source container orchestration engine for automating deployment, scaling, and management of containerized applications. The open source project is hosted by the Cloud Native Computing Foundation (CNCF). It provides a scalable and resilient framework for automating the deployment, scaling, and management of applications across clusters of servers.

### A SMALL HISTORY OF K8S:

- ➔ In the early 2000s, Google started developing a system called Borg to manage their internal containerized applications.
- ➔ Borg enabled Google to run applications at scale, providing features such as automatic scaling, service discovery, and fault tolerance.
- ➔ In 2014, Google open-sourced a version of Borg called Kubernetes.
- ➔ Kubernetes was donated to the Cloud Native Computing Foundation (CNCF), a neutral home for open-source cloud-native projects, in July 2015.
- ➔ Kubernetes 1.8 added significant enhancements for storage, security, and networking. Key features included the stable release of the stateful sets API, expanded support for volume plugins, and improvements in security policies.
- ➔ Check URL: <https://kubernetes.io/releases/> for more release details.



### Control Plane /Master Node

The control plane's components make global decisions about the cluster (for example, scheduling), as well as detecting and responding to cluster events (for example, starting up a new pod when a deployment's replicas field is unsatisfied). Control plane components can be run on any machine in the cluster. Do not run user containers on this machine.

### Node Components / Worker Nodes

Node components run on every node, maintaining running pods and providing the Kubernetes runtime environment.

1. **Master Node:** The master node is responsible for managing the cluster and coordinating the overall state of the system. It includes the following components:
  - a. **API Server:** The API server is the central control point for all interactions with the cluster. It exposes the Kubernetes API and handles requests from users and other components.
  - b. **Scheduler:** The scheduler is responsible for assigning workloads (pods) to individual worker nodes based on resource requirements, constraints, and other policies.

- c. Controller Manager: The controller manager runs various controllers that monitor the cluster state and drive it towards the desired state. Examples include the replication controller, node controller, and service controller.
- d. etcd: etcd is a distributed key-value store used by Kubernetes to store cluster state and configuration data.

**Pod:** The basic building block of Kubernetes. A pod represents a single instance of a running process within the cluster. It can encapsulate one or more containers that share the same network and storage resources.

### Comments:

#### **1. Create a pod using run command**

```
$ kubectl run <pod-name> --image=<image-name> --port=<container-port>
$ kubectl run my-pod --image=nginx --port=80
```

#### **2. View all the pods**

(In default namespace)

```
$ kubectl get pods
```

(In All namespace)

```
$ kubectl get pods -A
```

**# For a specific namespace**

```
$ kubectl get pods -n kube-system
```

**# For a specific type**

```
$ kubectl get pods <pod-name>
```

```
$ kubectl get pods <pod-name> -o wide
```

```
$ kubectl get pods <pod-name> -o yaml
```

```
$ kubectl get pods <pod-name> -o json
```

#### **3. Describe a pod (View Pod details)**

```
$ kubectl describe pod <pod-name>
```

```
$ kubectl describe pod my-pod
```

#### **4. View Logs of a pod**

```
$ kubectl logs <pod-name>
```

```
$ kubectl logs my-pod
```

#### **5. Execute any command inside Pod (Inside Pod OS)**

```
$ kubectl exec <pod-name> -- <command>
```

yaml file:

```
apiVersion: v1
kind: Pod
metadata:
  name: my-pod
  labels:
    app: my-web-app
    type: backend
spec:
  containers:
  - name: nginx-container
    image: nginx
    ports:
```



- containerPort: 80

```
apiVersion: v1
kind: Pod
metadata:
  name: my-app
spec:
  containers:
    - name: my-app-container
      image: <images>
      ports:
        - containerPort: 9090
```

### **ReplicaSet:**

```
kind: ReplicaSet
metadata:
  name: my-rs
  labels:
    name: my-rs
spec:
  replicas: 4
  selector:
    matchLabels:
      apptype: web-backend
  template:
    metadata:
      labels:
        apptype: web-backend
    spec:
      containers:
        - name: my-app
          image:
          ports:
            - containerPort: 8080
```

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deploy
  labels:
    name: my-deploy
spec:
  replicas: 4
  selector:
    matchLabels:
      apptype: web-backend
  strategy:
    type: RollingUpdate
  template:
    metadata:
      labels:
```

```
  apptype: web-backend
spec:
  containers:
  - name: my-app
    image:
    ports:
    - containerPort: 7070
```

```
kubectl create deployment webnginx2 --image=nginx:latest --replicas=1
```

```
kubectl scale deploy <deployment-name> --replicas=<desired-replica-count>
```

### Services (short name = svc):

Service is an abstraction that defines a logical set of pods and a policy to access them. Services enable network connectivity and load balancing to the pods that are part of the service, allowing other components within or outside the cluster to interact with the application.

### Service Types:

#### Kubernetes supports different types of services:

1. **NodePort:** Exposes the service on a static port on each selected node's IP. This type makes the service accessible from outside the cluster by the <NodeIP>:<NodePort> combination.
2. **ClusterIP:** Exposes the service on a cluster-internal IP. This type makes the service only reachable within the cluster.
3. **LoadBalancer:** Creates an external load balancer in cloud environments, which routes traffic to the service.

### Create Deployment by executing above YAML file

```
$ kubectl create -f web-deploy.yml
# Do necessary modifications if exist, else create new
$ kubectl create -f web-deploy.yml
# Completely Modify Pod Template
$ kubectl replace -f web-deploy.yml
```

### View Deployments

```
$ kubectl get deployments
$ kubectl get deploy
$ kubectl get deploy -o wide
$ kubectl get deploy <deployment-name> -o json
$ kubectl get deploy <deployment-name> -o yaml
```

### View Deployment Description

```
$ kubectl describe deploy <deployment-name>
```

### We can modify generated/updated YAML file

```
$ kubectl edit deploy <deployment-name>
## change replicas: count to any other value then (ESC):wq
```

```
# We can modify our YAML file and then execute apply command
$ kubectl apply -f web-deploy.yml
```

```
## We can Even scale using command also
$ kubectl scale deploy <deployment-name> --replicas=<desired-replica-count>
```

### Delete Deployment

```
$ kubectl delete deploy <deployment-name>
$ kubectl delete -f web-deploy.yml
```

### Create ReplicaSet by executing above YAML file

```
$ kubectl create -f rs-test.yml
# Do necessary modifications if exist, else create new
$ kubectl apply -f rs-test.yml
# Completely Modify Pod Template
$ kubectl replace -f rs-test.yml
```

### View ReplicaSets

```
$ kubectl get replicaset
$ kubectl get rs
$ kubectl get rs -o wide
$ kubectl get rs <replica-set-name> -o json
$ kubectl get rs <replica-set-name> -o yaml
```

### View ReplicaSet Description

```
$ kubectl describe rs <replica-set-name>
```

### We can modify generated/updated YAML file

```
$ kubectl edit rs <replica-set-name>
## change replicas: count to any other value then (ESC):wq
```

```
# We can modify our YAML file and then execute apply command
$ kubectl apply -f rs-test.yml
```

```
## We can Even scale using command also
$ kubectl scale replicaset <replicaset-name> --replicas=<desired-replica-count>
```

### Delete ReplicaSet

```
$ kubectl delete rs <replica-set-name>
$ kubectl delete -f rs-test.yml
```

### Service Creation: yml file

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deploy
  labels:
    name: my-deploy
spec:
  replicas: 1
  selector:
    matchLabels:
      apptype: web-backend
  strategy:
    type: RollingUpdate
  template:
    metadata:
      labels:
```

```
    apptype: web-backend
spec:
  containers:
  - name: my-app
    image:
    ports:
    - containerPort: 7070
---
```

```
apiVersion: v1
kind: Service
metadata:
  name: my-service
  labels:
    app: my-service
    type: backend-app
spec:
  type: NodePort
  ports:
  - targetPort: 7070
    port: 7070
    nodePort: 30002
selector:
  apptype: web-backend
```

---

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deploy
  labels:
    name: my-deploy
spec:
  replicas: 1
  selector:
    matchLabels:
      apptype: web-backend
  strategy:
    type: RollingUpdate
  template:
    metadata:
      labels:
        apptype: web-backend
    spec:
      containers:
      - name: my-app
        image:
        ports:
        - containerPort: 9000
---
```

```
apiVersion: v1
```



```
kind: Service
metadata:
  name: my-service
  labels:
    app: my-service
spec:
  type: NodePort
  ports:
    - port: 9000
      targetPort: 8080
      nodePort: 30002
  selector:
    apptype: web-backend
```

---

### Namespace (short name = ns):

namespace is a virtual cluster or logical partition within a cluster that provides a way to organize and isolate resources. It allows multiple teams or projects to share the same physical cluster while maintaining resource separation and access control.

```
# To create a namespace:
$ kubectl create namespace <namespace-name>
$ kubectl create ns my-bank
# To switch to a specific namespace: (make this as default type)
$ kubectl config set-context --current --namespace=<namespace-name>
# To list all namespaces:
$ kubectl get namespaces
# To get resources within a specific namespace:
$ kubectl get <resource-type> -n <namespace-name>
$ kubectl get deploy -n my-bank
$ kubectl get deploy --namespace my-bank
$ kubectl get all --namespace my-bank
# To delete a namespace and all associated resources:
$ kubectl delete namespace <namespace-name>
$ kubectl delete ns my-bank
```

```
kubectl create ns mydeploy
```

```
kubectl apply -f deploy.yml -n mydeploy
```

```
apiVersion: v1
kind: Namespace
metadata:
  name: my-demo-ns
```

```
apiVersion: v1
kind: Pod
```

```
metadata:
  name: my-pod
  namespace: my-demo-ns
spec:
  containers:
    - name: my-container
      image: nginx:latest
```

---

```
prasanndh_raaju@DESKTOP-S  X  +  v
32s\: dial tcp 127.0.0.1:32769: connect: connection refused"
The connection to the server 127.0.0.1:32769 was refused - did you specify the right host or port?
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod
E0321 04:54:21.878874 1622 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \\"https://127.0.0.1:32769/api?timeout=
32s\: dial tcp 127.0.0.1:32769: connect: connection refused"
E0321 04:54:21.881465 1622 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \\"https://127.0.0.1:32769/api?timeout=
32s\: dial tcp 127.0.0.1:32769: connect: connection refused"
E0321 04:54:21.883728 1622 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \\"https://127.0.0.1:32769/api?timeout=
32s\: dial tcp 127.0.0.1:32769: connect: connection refused"
E0321 04:54:21.885890 1622 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \\"https://127.0.0.1:32769/api?timeout=
32s\: dial tcp 127.0.0.1:32769: connect: connection refused"
E0321 04:54:21.887491 1622 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \\"https://127.0.0.1:32769/api?timeout=
32s\: dial tcp 127.0.0.1:32769: connect: connection refused"
The connection to the server 127.0.0.1:32769 was refused - did you specify the right host or port?
prasanndh_raaju@DESKTOP-S03TDPN:~$ minikube start
🐳 minikube v1.35.0 on Ubuntu 24.04 (amd64)
💡 Using the docker driver based on existing profile
👉 Starting "minikube" primary control-plane node in "minikube" cluster
🌱 Pulling base image v0.0.46 ...
🔄 Restarting existing docker container for "minikube" ...
🔧 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
🔍 Verifying Kubernetes components...
   ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟 Enabled addons: default-storageclass, storage-provisioner
🏡 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod
No resources found in default namespace.
prasanndh_raaju@DESKTOP-S03TDPN:~$ sudo nano deploy.yml
[sudo] password for prasanndh_raaju:
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl apply -f deploy.yml
deployment.apps/my-deploy created
service/my-service created
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
my-deploy-5fd77cc989-z2qkv          1/1     Running   0           8s
prasanndh_raaju@DESKTOP-S03TDPN:~$ minikube service my-service
|-----|
| NAMESPACE | NAME       | TARGET PORT | URL                               |
|-----|
| default   | my-service | 9000         | http://192.168.49.2:30002       |
|-----|
🚀 Starting tunnel for service my-service.
|-----|
| NAMESPACE | NAME       | TARGET PORT | URL                               |
|-----|
| default   | my-service |              | http://127.0.0.1:39637         |
|-----|
```

```
prasanndh_raaju@DESKTOP-S  X  +  v
E0321 04:54:21.887491 1622 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \"https://127.0.0.1:32769/api?timeout=32s\": dial tcp 127.0.0.1:32769: connect: connection refused"
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deployment.apps/my-deploy created
service/my-service created
prasanndh_raaju@DESKTOP-S03TDPN:~$ kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
my-deploy-5fd77cc989-z2qkv          1/1     Running   0           8s
prasanndh_raaju@DESKTOP-S03TDPN:~$ minikube service my-service
-----|-----|-----|-----|
| NAMESPACE | NAME       | TARGET PORT | URL                               |
|-----|-----|-----|-----|
| default   | my-service | 9000         | http://192.168.49.2:30002       |
|-----|-----|-----|-----|
🏃 Starting tunnel for service my-service.
-----|-----|-----|-----|
| NAMESPACE | NAME       | TARGET PORT | URL                               |
|-----|-----|-----|-----|
| default   | my-service |             | http://127.0.0.1:39637         |
|-----|-----|-----|-----|
🌐 Opening service default/my-service in default browser...
👉 http://127.0.0.1:39637
⚠️ Because you are using a Docker driver on linux, the terminal needs to be open to run it.
^C 🛑 Stopping tunnel for service my-service.
prasanndh_raaju@DESKTOP-S03TDPN:~$ curl http://192.168.49.2:30002/maven-web-app/
<html>
<body>
<h2>Hello World!</h2>
</body>
</html>
prasanndh_raaju@DESKTOP-S03TDPN:~$ |
```