

KUBERNETES COMMANDS

```
PS C:\WINDOWS\system32> minikube stop
* Stopping node "minikube" ...
* Powering off "minikube" via SSH ...
* 1 node stopped.
PS C:\WINDOWS\system32> minikube delete
* Deleting "minikube" in docker ...
* Deleting container "minikube" ...
* Removing C:\Users\prati\.minikube\machines\minikube ...
* Removed all traces of the "minikube" cluster.
PS C:\WINDOWS\system32> minikube start
* minikube v1.30.1 on Microsoft Windows 11 Home Single Language 10.0.22621.1555 Build 22621.1555
* Automatically selected the docker driver. Other choices: hyperv, 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) ...
* 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) ...
  - Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Verifying Kubernetes components...
* Enabled addons: storage-provisioner, default-storageclass
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
PS C:\WINDOWS\system32> minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
```

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minikube
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PS C:\WINDOWS\system32>
```

```
PS C:\WINDOWS\system32> kubectl get nodes
```

NAME	STATUS	ROLES	AGE	VERSION
minikube	Ready	control-plane	10m	v1.26.3

```
PS C:\WINDOWS\system32>
```

```
PS C:\WINDOWS\system32> kubectl get po -A
```

NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
default	mongo-depl-5ccf565747-rh7sg	1/1	Running	0	91m
kube-system	coredns-787d4945fb-cj8sv	1/1	Running	0	97m
kube-system	etcd-minikube	1/1	Running	0	97m
kube-system	kube-apiserver-minikube	1/1	Running	0	97m
kube-system	kube-controller-manager-minikube	1/1	Running	0	97m
kube-system	kube-proxy-zkh2n	1/1	Running	0	97m
kube-system	kube-scheduler-minikube	1/1	Running	0	97m
kube-system	storage-provisioner	1/1	Running	5 (16m ago)	97m

```
PS C:\WINDOWS\system32> kubectl create deployment hello-minikube --image=kicbase/echo-server:
deployment.apps/hello-minikube created
PS C:\WINDOWS\system32> kubectl expose deployment hello-minikube --type=NodePort --port=8080
service/hello-minikube exposed
PS C:\WINDOWS\system32> kubectl get services hello-minikube
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
hello-minikube	NodePort	10.110.164.34	<none>	8080:30152/TCP	23s

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32>
PS C:\WINDOWS\system32> kubectl get services
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	11m

```
PS C:\WINDOWS\system32>
PS C:\WINDOWS\system32> kubectl create deployment nginx-depl --image=nginx
deployment.apps/nginx-depl created
PS C:\WINDOWS\system32>
PS C:\WINDOWS\system32> kubectl get deployment
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
nginx-depl	0/1	1	0	21s

```
PS C:\WINDOWS\system32>
PS C:\WINDOWS\system32> kubectl get pod
```

NAME	READY	STATUS	RESTARTS	AGE
nginx-depl-56cb8b6d7-w8868	1/1	Running	0	55s

```
PS C:\WINDOWS\system32>
PS C:\WINDOWS\system32> kubectl get replicaset
```

NAME	DESIRED	CURRENT	READY	AGE
nginx-depl-56cb8b6d7	1	1	1	74s

```
PS C:\WINDOWS\system32>
PS C:\WINDOWS\system32> kubectl create deployment mongo-depl --image=mongo
deployment.apps/mongo-depl created
PS C:\WINDOWS\system32>
PS C:\WINDOWS\system32> kubectl get pod
```

NAME	READY	STATUS	RESTARTS	AGE
mongo-depl-5ccf565747-5gdhd	0/1	ContainerCreating	0	13s
nginx-depl-56cb8b6d7-w8868	1/1	Running	0	3m

```
PS C:\WINDOWS\system32>
```

Administrator: Windows PowerShell

```
PS C:\WINDOWS\system32> kubectl get pod
NAME                                READY   STATUS    RESTARTS   AGE
mongo-depl-5ccf565747-5gdhd        1/1     Running   0           6m8s
nginx-depl-56cb8b6d7-w8868        1/1     Running   0           8m55s
PS C:\WINDOWS\system32> kubectl get deployment
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
mongo-depl          1/1     1             1           6m12s
nginx-depl          1/1     1             1           8m59s
PS C:\WINDOWS\system32> kubectl delete deployment nginx-depl-56cb8b6d7-w8868
Error from server (NotFound): deployments.apps "nginx-depl-56cb8b6d7-w8868" not found
PS C:\WINDOWS\system32>
PS C:\WINDOWS\system32> kubectl delete deployment nginx-depl
deployment.apps "nginx-depl" deleted
PS C:\WINDOWS\system32>
```

```
service/hello-minikube exposed
PS C:\WINDOWS\system32> kubectl get services hello-minikube
NAME                TYPE        CLUSTER-IP      EXTERNAL-IP  PORT(S)          AGE
hello-minikube      NodePort    10.110.164.34   <none>       8080:30152/TCP   23s
PS C:\WINDOWS\system32> 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
```