

Here are some **daily-use**  
**Kubernetes (k8s)** commands  
with real-time examples:

## **1. Get Cluster Information**

`kubectl cluster-info`

- Displays the master and services information.

## **2. Check Nodes in the Cluster**

`kubectl get nodes`

- Lists all nodes in the cluster.

`kubectl describe node <node-name>`

- Shows detailed information about a specific node.

### 3. List All Pods in All Namespaces

```
kubectl get pods --all-namespaces
```

- Useful for debugging cluster-wide issues.

### 4. Describe a Pod

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

- Shows detailed info, including events and reasons for failures.

### 5. Check Pod Logs

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

- Fetch logs from a running

container in a pod.

```
kubectll logs -f <pod-name>
```

- Stream logs in real-time (like tail -f).

```
kubectll logs <pod-name> -c  
<container-name>
```

- If a pod has multiple containers, fetch logs of a specific container.

## **6. Execute Commands Inside a Running Pod**

```
kubectll exec -it <pod-name> -- /  
bin/sh
```

- Opens an interactive shell inside the container.

```
kubectl exec <pod-name> -- ls /  
app
```

- Run a single command inside a pod.

## 7. List Services in the Cluster

```
kubectl get svc
```

- Lists all services in the current namespace.

```
kubectl describe svc <service-name>
```

- Shows detailed information about a specific service.

## 8. Get Deployment Information

kubectl get deployments

- Lists all deployments.

kubectl describe deployment

<deployment-name>

- Shows detailed deployment information.

kubectl get pods --

selector=app=my-app

- Get pods belonging to a specific deployment.

## **9. Scale a Deployment**

kubectl scale deployment

<deployment-name> --replicas=5

- Increases/decreases the number of running pods.

# 10. Restart a Deployment

kubectl rollout restart

deployment <deployment-name>

- Restarts all pods in a deployment.

# 11. Roll Back a Deployment

kubectl rollout undo deployment

<deployment-name>

- Rolls back to the previous version.

kubectl rollout history

deployment <deployment-name>

- Shows deployment history.

# 12. Check Events in a

# Namespace

kubectl get events --sort-by=.metadata.creationTimestamp

- Shows recent events like pod crashes, node failures, etc.

## 13. Check Resource Usage (CPU & Memory)

kubectl top pods kubectl top nodes

- Requires metrics-server to be installed.

## 14. Port Forward a Pod to Local Machine

```
kubectl port-forward pod/<pod-name> 8080:80
```

- Access a pod's service on **localhost:8080**.

## **15. Create a ConfigMap from a File**

```
kubectl create configmap my-config --from-file=config.json
```

- Stores application configs in Kubernetes.

## **16. Apply or Update a Manifest File**

```
kubectl apply -f deployment.yaml
```

- Creates/updates resources in Kubernetes.



# 17. Delete a Resource

kubectl delete pod <pod-name>

kubectl delete deployment

<deployment-name> kubectl

delete service <service-name>

kubectl delete namespace

<namespace-name>

- Removes the specified resource.

# 18. Get All Resources in a Namespace

kubectl get all -n <namespace>

- Lists all resources (pods, services, deployments, etc.) in a namespace.

## 19. Drain a Node for Maintenance

```
kubectl drain <node-name> --  
ignore-daemonsets --delete-  
emptydir-data
```

- Moves all pods away from a node.

```
kubectl uncordon <node-name>
```

- Marks a node as schedulable again.

## 20. Get YAML Output of a Resource

```
kubectl get pod <pod-name> -o  
yaml kubectl get svc <service-  
name> -o yaml
```

- Fetches the YAML configuration of a resource.

These commands are used daily for debugging, monitoring, and managing Kubernetes clusters. Would you like me to add more advanced commands?