# **Kubernetes commands:**

# 1. Cluster Management:

kubectl cluster-info : Display cluster info.kubectl get nodes : List all nodes in the cluster.kubectl describe node [node-name] : Show details about a specific node.

#### 2. Pod Management:

kubectl get pods: List all pods in the current namespace.
kubectl describe pod [pod-name]: Display detailed information about a pod.
kubectl logs [pod-name]: Show the logs of a pod.
kubectl exec -it [pod-name] [container-name] -- /bin/sh: Open a shell in a running pod.

## 3. Deployment Management:

kubectl get deployments : List all deployments.
kubectl describe deployment [deployment-name] : Display details about a
deployment.
kubectl scale deployment [deployment-name] --replicas=[number] : Scale the
number of replicas.

### 4. Service Management:

kubectl get services : List all services.
kubectl describe service [service-name] : Show details about a service.
kubectl port-forward [pod-name] [local-port]:[remote-port] : Forward a local port to a pod.

# 5. ConfigMap and Secret:

kubectl create configmap [configmap-name] --from-file=[path/to/file] : Create a ConfigMap from a file. kubectl create secret generic [secret-name] --from-literal=[key]=[value] : Create a secret.

## 6. Namespace Management:

kubectl get namespaces : List all namespaces.
kubectl create namespace [namespace-name] : Create a new namespace.
kubectl config set-context --current --namespace=[namespace-name] : Set the
default namespace for the current context.

#### 7. Scaling:

kubectl scale deployment [deployment-name] --replicas=[number] : Scale the number of replicas in a deployment.

kubectl autoscale deployment [deployment-name] --min=[min-replicas] --max=[max-replicas] : Create a Horizontal Pod Autoscaler.

## 8. Rolling Updates and Rollbacks:

kubectl set image deployment/[deployment-name] [container-name]=[new-image]: Trigger a rolling update.

kubectl rollout status deployment [deployment-name]: Check the status of a rollout. kubectl rollout history deployment [deployment-name]: View rollout history. kubectl rollout undo deployment [deployment-name] --to-revision=[revision]: Rollback to a specific revision.

# 9. Deleting Resources:

kubectl delete pod [pod-name] : Delete a pod. kubectl delete deployment [deployment-name] : Delete a deployment. kubectl delete service [service-name] : Delete a service.

#### 10. Advanced Commands:

kubectl apply -f [file.yaml] : Apply a configuration file.
kubectl get all --all-namespaces : List resources in all namespaces.
kubectl describe [resource-type] [resource-name] : Display detailed information about a resource.