

List of Kubernetes commands:

Cluster Information:

kubectl cluster-info: Get cluster information.

Node Operations:

Kubectl get nodes: List all the nodes

Kubectl describe node <node name>: Describe a specific node

Kubectl drain node: Drain a node for maintenance

kubectl label nodes <node-name> <label-key>=<label-value>: Add labels to a node.

kubectl cordon <node>: Mark a node as unschedulable

kubectl uncordon <node>: Mark a node as schedulable again after it has been drained.

kubectl top <node>: Show metrics for a given node

Namespace Operations:

Kubectl describe namespace: Describe all namespace

Kubectl create namespace <namespace-name>: Create a specific namespace

Kubectl get namespace: List all namespaces

kubectl get ns: Shortened version of kubectl get namespace.

kubectl describe namespace <namespace-name>: Describe a specific namespace.

kubectl config set-context --current --namespace=<namespace-name>: Switch to a different namespace.

kubectl delete namespace <namespace-name>: Delete a namespace.

kubectl edit namespace <namespace_name>: Edit and update the namespace definition.

Resource Operations:

kubectl apply -f <resource-definition.yaml>: Create or Update a resource from a YAML file.

kubectl create: Create an object imperatively.

kubectl apply -f https://url-to-resource-definition.yaml: Create a resource by using the URL.

Viewing and Finding Resources:

kubectl get <resource-type>: List all resources of a specific type.

kubectl get <resource-type> -o wide: List all resources with additional details.

kubectl describe <resource-type> <resource-name>: Describe a specific resource.

kubectl get <resource-type> -l <label-key>=<label-value>: List all resources with a specific label.

kubectl get <resource-type> --all-namespaces: List all resources in all namespaces.

kubectl get <resource-type> --sort-by=<field>: List all resources sorted by a specific field.

kubectl get <resource-type> -l <label-selector>: List resources with a specific label selector.

kubectl get <resource-type> --field-selector=<field-selector>: List resources with a specific field selector.

kubectl get <resource-type> -n <namespace>: List all resources in a specific namespace.

Deleting Resources:

kubectl delete <resource-type> <resource-name>: Delete a resource.

kubectl delete <resource-type1> <resource-name1> <resource-type2> <resource-name2>: Delete multiple resources.
kubectl delete <resource-type> --all: Delete all resources of a specific type.
kubectl delete -f <resource-definition.yaml>: Deletes the resource defined in a YAML file.
kubectl delete -f https://url-to-resource-definition.yaml: Delete the resource by using url.
kubectl delete <resource-type> --all -n <namespace>: Delete all resources in a specific namespace.

Pod Operations:

kubectl get pods: List all pods in the cluster.
kubectl describe pod <pod-name>: Describe a specific pod.
kubectl logs <pod-name>: View the logs of a specific pod.
kubectl exec -it <pod-name> -- <command>: Execute a command in a specific pod.

Service Operations:

kubectl get services: List all services in the cluster.
kubectl describe service <service-name>: Describe a specific service.

Deployment Operations:

kubectl get deployments: List all deployments in the cluster.
kubectl describe deployment <deployment-name>: Describe a specific deployment.
kubectl scale deployment <deployment-name> --replicas=<replica-count>: Scale a deployment.
kubectl rollout history <resource-type> <resource-name>: View rollout history of a deployment or replicaset.
kubectl rollout undo <resource-type> <resource-name>: Rollback a deployment or replicaset to a previous revision will come in deployment
kubectl rollout status <resource-type> <resource-name>: View rollout status of a deployment or replicaset.
kubectl rollout pause <resource-type> <resource-name>: used to temporarily pause the rollout of a Deployment or replicaset.
kubectl rollout resume <resource-type> <resource-name>: used to resume a paused rollout of a Deployment or replicaset.

Configuration and Context:

kubectl config get-contexts: List all available contexts.
kubectl config use-context <context-name>: Switch to a different context.

Secret Operations:

kubectl create secret: Create a secret imperatively.
kubectl get secrets: List all secrets in the cluster.
kubectl describe secret <secret-name>: Describe a specific secret.

ConfigMap Operations:

kubectl create configmap: Create a ConfigMap imperatively.
kubectl get configmaps: List all ConfigMaps in the cluster.
kubectl describe configmap <configmap-name>: Describe a specific ConfigMap.

Persistent Volume (PV) and Persistent Volume Claim (PVC) Operations:

kubectl get pv: List all Persistent Volumes in the cluster.

kubectl describe pv <pv-name>: Describe a specific Persistent Volume.

kubectl get pvc: List all Persistent Volume Claims in the cluster.

kubectl describe pvc <pvc-name>: Describe a specific Persistent Volume Claim.

Role-Based Access Control (RBAC) Operations:

kubectl create role: Create a role imperatively.

kubectl get roles: List all roles in the cluster.

kubectl describe role <role-name>: Describe a specific role.

kubectl create rolebinding: Create a role binding imperatively.

kubectl get rolebindings: List all role bindings in the cluster.

kubectl describe rolebinding <rolebinding-name>: Describe a specific role binding.

Ingress Operations:

kubectl get ingress: List all ingresses in the cluster.

kubectl describe ingress <ingress-name>: Describe a specific ingress.

Job and CronJob Operations:

kubectl get jobs: List all jobs in the cluster.

kubectl describe job <job-name>: Describe a specific job.

kubectl get cronjobs: List all cron jobs in the cluster.

kubectl describe cronjob <cronjob-name>: Describe a specific cron job.

Network Policy Operations:

kubectl get networkpolicies: List all network policies in the cluster.

kubectl describe networkpolicy <networkpolicy-name>: Describe a specific network policy.

Namespace Resource Quota Operations:

kubectl get resourcequotas: List all resource quotas in a namespace.

kubectl describe resourcequota <resourcequota-name>: Describe a specific resource quota in a namespace.

Horizontal Pod Autoscaler (HPA) Operations:

kubectl get hpa: List all horizontal pod autoscalers in the cluster.

kubectl describe hpa <hpa-name>: Describe a specific horizontal pod autoscaler.

Event Operations:

kubectl get events: List all events in the cluster.

kubectl describe event <event-name>: Describe a specific event.

StatefulSet Operations:

kubectl get statefulsets: List all StatefulSets in the cluster.

kubectl describe statefulset <statefulset-name>: Describe a specific StatefulSet.

kubectl scale statefulset <statefulset-name> --replicas=<replica-count>: Scale a StatefulSet.

DaemonSet Operations:

kubectl get daemonsets: List all DaemonSets in the cluster.

kubectl describe daemonset <daemonset-name>: Describe a specific DaemonSet.