

# Kubernetes Commands

## Working with Pods

`kubectl get pods` -> # Lists all pods in the current namespace

`kubectl get pods -A` -> # Lists all pods across all namespaces

`kubectl describe pod` -> # Displays detailed info about a specific pod

`kubectl delete pod` -> # Deletes a specific pod

`kubectl logs` -> # Displays logs for a specific pod

`kubectl exec -it -- /bin/sh` -> # Executes a shell inside a running pod

## Working with Deployments

`kubectl get deployments` -> # Lists all deployments

`kubectl create deployment --image=` -> # Creates a deployment

`kubectl scale deployment --replicas=` -> # Scales a deployment

`kubectl rollout status deployment` -> # Checks rollout status

`kubectl rollout undo deployment` -> # Rolls back the last deployment

## Working with Services

`kubectl get services` -> # Lists all services

`kubectl describe svc` -> # Displays detailed info about a service

`kubectl expose deployment --port= --type=` -> # Exposes a deployment as a service

`kubectl delete svc` -> # Deletes a specific service

## Working with ConfigMaps and Secrets

`kubectl create configmap --from-literal=key=value -> # Creates a ConfigMap`

`kubectl get configmaps -> # Lists all ConfigMaps`

`kubectl describe configmap -> # Describes a ConfigMap`

`kubectl create secret generic --from-literal=key=value -> # Creates a secret`

`kubectl get secrets -> # Lists all secrets`

`kubectl describe secret -> # Describes a secret`

## Working with Namespaces

`kubectl get namespaces -> # Lists all namespaces`

`kubectl create namespace -> # Creates a new namespace`

`kubectl delete namespace -> # Deletes a namespace`

`kubectl config set-context --current --namespace= -> # Sets default namespace for current context`

## Managing Nodes

`kubectl get nodes -> # Lists all nodes in the cluster`

`kubectl describe node -> # Displays detailed info about a node`

`kubectl drain -> # Safely evicts pods from a node (for maintenance)`

`kubectl cordon -> # Marks node as unschedulable`

`kubectl uncordon -> # Marks node as schedulable again`

## Working with Persistent Volumes (PV) and Claims (PVC)

`kubectl get pv` -> # Lists all persistent volumes

`kubectl get pvc` -> # Lists all persistent volume claims

`kubectl describe pv` -> # Displays info about a persistent volume

`kubectl describe pvc` -> # Displays info about a persistent volume claim

`kubectl delete pvc` -> # Deletes a specific PVC

## Configuring and Viewing Contexts

`kubectl config get-contexts` -> # Lists all available contexts

`kubectl config use-context` -> # Switches to a specific context

`kubectl config current-context` -> # Displays the current context

`kubectl config delete-context` -> # Deletes a specific context

## Debugging Resources

`kubectl describe` -> # Describes any Kubernetes resource

`kubectl logs` -> # Displays logs of a pod

`kubectl logs -f` -> # Follows pod logs in real-time

`kubectl get events` -> # Lists cluster events

`kubectl debug` -> # Debugs a running pod

## Managing Jobs and CronJobs

`kubectl get jobs` -> # Lists all jobs

`kubectl delete job` -> # Deletes a specific job

`kubectl get cronjobs` -> # Lists all cronjobs

`kubectrl delete cronjob` -> # Deletes a specific cronjob

## **Applying and Deleting Manifests**

`kubectrl apply -f` -> # Applies configuration from a YAML file

`kubectrl delete -f` -> # Deletes resources defined in a YAML file

`kubectrl diff -f` -> # Shows differences before applying a YAML file

DevOps-Diaries