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 d T elete 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

kubectl delete cronjob -> # Deletes a specific cronjob

Applying and Deleting Manifests

kubectl apply -f -> # Applies configuration from a YAML file

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

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