

GENERAL COMMANDS

k get all	# List all major resources
k get all -A	# List all across namespaces
k get <resource>	# List resource (pods, svc, deploy)
k get <resource> -o wide	# Detailed view
k describe <resource> <name>	# Detailed info + events
k logs <pod>	# Pod logs
k logs -f <pod>	# Follow logs
k exec -it <pod> -- sh	# Shell inside pod
k apply -f file.yaml	# Apply config (create/update)
k create -f file.yaml	# Create from file
k edit <resource> <name>	# Edit live resource
k delete <resource> <name>	# Delete resource
k top pod	# Pod metrics
k top node	# Node metrics

DEPLOYMENT COMMANDS

k get deploy	# List deployments
k rollout status deploy/<name>	# Check rollout progress
k rollout undo deploy/<name>	# Rollback deployment
k set image deploy/<name> <c>=<image>	# Update image
k scale deploy/<name> --replicas=N	# Scale replicas
k autoscale deploy <name> --max=10	# Create HPA

NETWORKING COMMANDS (Service, Ingress, Port-Forward)

k get svc	<input type="checkbox"/> # List services
k expose deploy <name> --port=80 --type=NodePort	# Expose deployment
k port-forward pod/<name> 8080:80	<input type="checkbox"/> # Local → pod port
k get ingress	<input type="checkbox"/> # List ingress

CONFIGMAP, SECRET & CONFIGURATION

k get cm	# List ConfigMaps
k get secrets	# List Secrets
k create cm <name> --from-literal=k=v	# Create ConfigMap
k create secret generic <name> --from-literal=k=v	# Create Secret

CLUSTER / CONTEXT COMMANDS

k get nodes	# List nodes
k get ns	# List namespaces
k create ns <name>	# Create namespace
k config get-contexts	# List contexts
k config current-context	# Current context
k config use-context <name>	# Switch context
k cluster-info	# Cluster endpoints

JOBS & CRONJOBS

k get jobs	# List jobs
k create -f job.yaml	# Create job
k delete job <name>	# Delete job
k get pods --selector=job-name=<name>	# Pods from job
k logs <pod>	# Job pod logs
k get cronjobs	# List CronJobs
k create -f cronjob.yaml	# Create CronJob

STORAGE (PV / PVC / SC)

k get pv	# List PVs
k get pvc	# List PVCs
k get sc	# List StorageClasses
k describe pv <name>	# PV details
k describe pvc <name>	# PVC details
k create -f pv.yaml	# Create PV
k create -f pvc.yaml	# Create PVC
k delete pv <name>	# Delete PV
k delete pvc <name>	# Delete PVC

RBAC (Roles, SAs, Bindings)

k get clusterroles	# List ClusterRoles
k get clusterrolebindings	# List ClusterRoleBindings
k get roles	# List Roles
k get rolebindings	# List RoleBindings
k get sa	# List ServiceAccounts
k create -f rbac.yaml	# Create RBAC object
k auth can-i get pods --as=system:serviceaccount:ns:sa	# Access check

CRD (Custom Resource Definitions)

k get crds	# List CRDs
k describe crd <name>	# CRD schema
k create -f crd.yaml	# Create CRD
k get <custom-resource>	# List CR instances
k apply -f custom-resource.yaml	# Create/update CR

NODE SCHEDULING (Taints, Cordon, Drain)

k describe node <name>	# Node details
k taint node <name> key=value:effect	# Add taint
k taint node <name> key:effect-	# Remove taint
k get pods -o yaml grep tolerations -A 5	# Check tolerations
k cordon <name>	# Make unschedulable
k uncordon <name>	# Make schedulable
k drain <name>	# Evict pods

NETWORK POLICY (NetPol)

k get netpol	# List netpols
k describe netpol <name>	# Netpol details
k create -f policy.yaml	# Create NetworkPolicy
k delete netpol <name>	# Delete NetPol

TROUBLESHOOTING & HEALTH CHECK

k get events	# Recent events
k get events --sort-by=.lastTimestamp	# Sorted events
k get events --field-selector type=Warning	# Only warnings
k describe <resource> <name>	# Detailed troubleshooting
k logs --since=1h <pod>	# Logs from last 1 hour
k logs --previous <pod>	# Previous container logs
k top pod	# Pod CPU/Memory
k top node	# Node CPU/Memory
k version	# Client/Server versions
k api-resources	# List API resources

DEBUGGING UTILITIES

k exec -it <pod> -- sh	# Shell inside pod
k exec <pod> -- curl <svc>	# In-pod network test
k port-forward <pod> 8080:80	# Access pod locally
k debug -it <pod> --image=busybox	# Ephemeral debug container
k cp /local/file <pod>:/path	# Copy to pod
k cp <pod>:/path /local/file	# Copy from pod

MISCELLANEOUS UTILITIES

k config view	# Show kubeconfig
k explain pod.spec.containers	# API docs
k api-resources --namespaced=true	# Namespaced resources
k api-resources --namespaced=false	# Cluster-scoped resources
k label node <name> disk=ssd	# Add label
k label pod <name> app-	# Remove label
k annotate pod <name> key=value	# Add annotation
k get pod -l app=frontend	# List by label selector