

# Kubernetes Cheatsheet

## Connection

**kubectl config use-context <context>**  
Switch to a specific Kubernetes context

**kubectl config get-contexts**  
List available contexts

**kubectl config current-context**  
Show current active context

**kubectl cluster-info**  
Display cluster information

## Pod Operations

**kubectl get pods**  
List all pods in the current namespace

**kubectl get pods -n <namespace>**  
List pods in a specific namespace

**kubectl get pods --all-namespaces**  
List pods across all namespaces

**kubectl describe pod <pod-name>**  
Show detailed information about a pod

**kubectl logs <pod-name>**  
Show logs for a pod

**kubectl logs <pod-name> -c <container-name>**  
Show logs for a specific container in a pod

**kubectl exec -it <pod-name> -- <command>**  
Execute a command in a pod's container

## Resource Management

**kubectl get <resource>**  
List resources (nodes, deployments, services, etc.)

**kubectl describe <resource> <name>**  
Show detailed information about a resource

**kubectl get events**  
Show events in the current namespace

**kubectl top pod**  
Show CPU/Memory usage of pods

**kubectl top node**  
Show CPU/Memory usage of nodes

## Deployment Operations

**kubectl get deployments**  
List all deployments

**kubectl rollout status deployment/<name>**  
Check deployment rollout status

**kubectl rollout history deployment/<name>**  
View rollout history

**kubectl rollout undo deployment/<name>**  
Rollback to previous deployment version

## Configuration & Settings

**kubectl get configmaps**  
List all ConfigMaps

**kubectl get secrets**  
List all Secrets

**kubectl get namespaces**  
List all namespaces

## Troubleshooting

**kubectl get componentstatuses**  
Check components health

**kubectl get nodes**  
Check node status

**kubectl debug <pod-name> -it --image=busybox**  
Debug a pod with a temporary container

**kubectl port-forward <pod-name> <local-port>:<pod-port>**  
Forward port from pod to local machine

## Resource Creation/Editing

**kubectl apply -f <filename.yaml>**  
Create/update resources from a YAML file

**kubectl edit <resource> <name>**  
Edit a resource directly

**kubectl delete <resource> <name>**  
Delete a resource