

K3s Cheatsheet

Connection

Check config file location
cat /etc/rancher/k3s/k3s.yaml

Export KUBECONFIG
export KUBECONFIG=/etc/rancher/k3s/k3s.yaml

Access K3s from non-server hosts
scp root@k3s-server:/etc/rancher/k3s/k3s.yaml ~/.kube/config

Installation & Management

Install K3s as server
curl -sL https://get.k3s.io | sh -

Install K3s as agent
curl -sL https://get.k3s.io | K3S_URL=https://server-url:6443 K3S_TOKEN=mytoken sh -

Stop K3s service
systemctl stop k3s

Start K3s service
systemctl start k3s

Check K3s service status
systemctl status k3s

Uninstall K3s
/usr/local/bin/k3s-uninstall.sh

Cluster Information

Get nodes
kubectl get nodes

Get node details
kubectl describe node <node-name>

Get cluster info
kubectl cluster-info

Get K3s version
k3s --version

Pod & Deployment Management

List all pods
kubectl get pods --all-namespaces

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

Get pod details
kubectl describe pod <pod-name> -n <namespace>

Get pod logs
kubectl logs <pod-name> -n <namespace>

Execute command in pod
kubectl exec -it <pod-name> -n <namespace> -- <command>

Service Management

List all services
kubectl get svc --all-namespaces

Get service details
kubectl describe svc <service-name> -n <namespace>

Create service
kubectl apply -f service.yaml

Resource Monitoring

Get resource usage
kubectl top nodes

Get pod resource usage
kubectl top pods -n <namespace>

Monitor K3s logs
journalctl -u k3s

Configuration and Security

View K3s config
cat /etc/systemd/system/k3s.service.env

Get secrets
kubectl get secrets -n <namespace>

Manage K3s tokens
cat /var/lib/rancher/k3s/server/node-token