

Kubernetes Cheat Sheet

- [Kubectl Commands](#)
 - [Information Commands](#)
 - [Actions](#)
- [PVC stuck in status "Terminating" Fix](#)
- [Minikube Commands](#)
- [Reference](#)

Kubectl Commands

Information Commands

Command	Description
kubectl cluster-info	Display Cluster Info
kubectl config view	Display Config
kubectl get pods	List all running pods
kubectl get services	List all services
kubectl get nodes	List all nodes
kubectl get deployments	Deployments view
kubectl get rc	List replication controllers
kubectl get pods -o wide	List all pods in ps output format with more information (such as node name).
kubectl get pods --all-namespaces	List all pods in all namespaces
kubectl logs <pod>	Display the logs for a service
kubectl logs -f <pod>	Display the logs for a service
kubectl logs -n kube-system <system_pod>	Display logs for a system pod
kubectl exec -ti <POD-ID-HERE> bash -n kube-system	Log into a system pod
kubectl delete pod <POD> --grace-period=0 --force	Force delete a pod
kubectl get psp	Get Pod Security Policies
kubectl edit deployment <deployment>	Edit an object directly.

Actions

Command	Description
kubectl port-forward service/<SERVICE> <LOCAL_PORT>: <SERVICE_PORT>	Port Forward / Proxy to a Service See: kubectl port-forward --help \$ kubectl port-forward service/kafka-cp-kafka 9092:9092
kubectl proxy --address 0.0.0.0 --accept-hosts '.*'	Allow proxying from any host listening on all interfaces

kubectl create -f <yaml file>	Create a deployment
kubectl delete -f <yaml file>	Delete a deployment
kubectl apply -f <yaml file>	Update a deployment
kubectl edit -f <yaml file>	Edit and update a deployment
kubectl edit deployment <deployment>	Edit an object directly.
kubectl exec -it <pod> bash	log into a pod
kubectl scale --replicas=3 deployment/<deployment>	Scale the number of pods for a deployment \$ kubectl scale --replicas=3 deployment/cloudservice
kubectl scale --replicas=1 -f <yaml file>	Scale the number of pods referenced in a yaml file
kubectl delete deployment <deployment>	Delete all pods for a deployment
kubectl delete pod <pod instance>	Delete a pod
kubectl delete pvc --all	Delete all pvc
kubectl expose deployment cloudservice --type=LoadBalancer --name=cloud	Expose deployment
kubectl patch deployment notification-controller --patch "\$(cat patch.yaml)"	Apply a patch
kubectl rollout restart deployment/myapp	Redeploy all pods for a deployment. Helpful after making a configmap change.

PVC stuck in status “Terminating” Fix

```
kubectl patch pvc {PVC_NAME} -p '{"metadata":{"finalizers":null}}'
```

Can also be applied to pv.

Minikube Commands

Command	Description
minikube start	Start
minikube stop	Stop
minikube dashboard	Display dashboard
minikube ssh	log into minikube
ssh -i ~/.minikube/machines/minikube/id_rsa docker@\$(minikube ip)	log into minikube

cat ~/.minikube/machines/minikube/config.json	View minikube config
ssh -i ~/.minikube/machines/minikube/id_rsa docker@\$(minikube ip) -R 5000:localhost:5000	SSH into minikube and setup a port forwarding to your local docker registry.
minikube ip	get ip of minikube
minikube service <service>	Open browser to exposed service

Reference

Reference	URL
Cheatsheet	https://kubernetes.io/docs/reference/kubectl/cheatsheet/
Kubectl for docker users	https://kubernetes.io/docs/reference/kubectl/docker-cli-to-kubectl/
Expose external ip	https://kubernetes.io/docs/tutorials/stateless-application/expose-external-ip-address/