

Kubernetes Cheat Sheet

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Kubectl Commands

Information Commands

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

Actions

Command	Description
<code>kubectl port-forward service/<SERVICE> <LOCAL_PORT>:<SERVICE_PORT></code>	Port Forward / Proxy to a Service See: <code>kubectl port-forward --help</code> \$ <code>kubectl port-forward service/kafka-cp-kafka 9092:9092</code>
<code>kubectl proxy --address 0.0.0.0 --accept-hosts '.*'</code>	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/