Kubectl Commands Cheat Sheet

Pod & Container Introspection

List the current pods
kubectl get pods
Describe pod <name>
kubectl describe pod <name>
List the replication controllers
kubectl get rc
List the replication controllers in <namespace>
kubectl get rc --namespace="<namespace>"
Describe replication controller <name>
kubectl describe rc <name>
List the services
kubectl get svc
Describe service <name>
kubectl describe svc <name>
Delete pod <name>
kubectl delete pod <name>
Watch nodes continuously
kubectl get nodes –w

Cluster Introspection

Get version information
kubectl version
Get cluster information
kubectl cluster-info
Get the configuration
kubectl config view
Output information about a node
kubectl describe node <node>

Debugging

Execute <command> on <service> optionally # selecting container <$container>
kubectl exec <service> <command> [-c <$container>]
Get logs from service <name> optionally # selecting container <$container>
kubectl logs -f <name> [-c <$container>]
Watch the Kubelet logs
watch -n 2 cat /var/log/kublet.log
Show metrics for nodes
kubectl top node
Show metrics for pods
kubectl top pod

Quick Commands

Launch a pod called <name>
using image <image-name>
kubectl run <name> --image=<image-name>
Create a service described # in <manifest.yaml>
kubectl create -f <manifest.yaml>
Scale replication controller
<name> to <count> instances
kubectl scale --replicas=<count> rc <name>
Map port <external> to # port <internal> on replication
controller <name>
kubectl expose rc <name> --port=<external> --target-port=<internal>
Stop all pods on <n>
kubectl drain <n> --delete-local-data --force --ignore-daemonsets
Create namespace <name>
kubectl create namespace <namespace>
Allow Kubernetes master nodes to run pods
kubectl taint nodes --all node-role.kubernetes.io/master-

Objects

all
clusterrolebindings
clusterroles
cm = configmaps
controllerrevisions
crd = customresourcedefinition
cronjobs
cs = componentstatuses
csr = certificatesigningrequests
deploy = deployments
ds = daemonsets
ep = endpoints
ev = events
hpa = horizontalpodautoscalers
ing = ingresses
jobs
limits = limitranges
netpol = networkpolicies
no = nodes
ns = namespaces
pdb = poddisruptionbudgets
po = pods
podpreset
podtemplates
psp = podsecuritypolicies
pv = persistentvolumes
pvc = persistentvolumeclaims
quota = resourcequotas
rc = replicationcontrollers
rolebindings
roles
rs = replicasets
sa = serviceaccounts
sc = storageclasses
secrets
sts = statefulsets