

Kubernetes Cheat Sheet

Pods

```
# Get all pods in the current namespace  
kubectl get pods  
  
# Get pods in all namespaces  
kubectl get pods --all-namespaces  
  
# Get pods with more details  
kubectl get pods -o wide  
  
# Get the yaml for a pod  
kubectl get pod <pod> -o yaml  
  
# Inspect a pod  
kubectl describe pods <pod>  
  
# Get pods sorted by a metric  
kubectl get pods \  
--sort-by='status.containerStatuses[0].restartCount'  
  
# Get pods with their labels  
kubectl get pods --show-labels  
  
# Get pods that match a label  
kubectl get pods -l <label>=<value>  
  
# Forward traffic from a localhost port to a pod port  
kubectl port-forward <pod> <localhost-port>:<pod-port>  
  
# Run a command on a pod  
kubectl exec <pod> -- <command>  
  
# Run a command on a container in a pod  
kubectl exec <pod> -c <container> -- <command>
```

Secrets

```
# Get all secrets in the current namespace  
kubectl get secrets  
  
# Get secrets in all namespaces  
kubectl get secrets --all-namespaces  
  
# Get secrets with more details  
kubectl get secrets -o wide  
  
# Get the contents of a secret  
kubectl get secrets <secret> -o yaml
```

Services

```
# Get all services in the current namespace  
kubectl get services  
  
# Get services in all namespaces  
kubectl get service --all-namespaces  
  
# Get services with more details  
kubectl get service -o wide  
  
# Get the yaml for a services  
kubectl get service <service> -o yaml  
  
# Inspect a service  
kubectl describe service <service>  
  
# Get service's labels  
kubectl get service --show-labels  
  
# Get services that match a label  
kubectl get service -l <label>=<value>
```

Updating Resources

```
# Roll a new version of a deployment  
kubectl set image deployment/<deployment> <container-name>=image:<version>  
  
# Check the deployment history  
kubectl rollout history deployment/<deployment>  
  
# Rollback a deployment  
kubectl rollout undo deployment/<deployment>  
  
# Rollback to a specific version  
kubectl rollout undo deployment/<deployment> --to-revision=2  
  
# Watch a rolling update  
kubectl rollout status -w deployment/<deployment>  
  
# Restart the rolling deploy  
kubectl rollout restart deployment/<deployment>  
  
# Edit a resource's yaml  
kubectl edit deployment/<deployment>  
  
# Scale a deployment to 3 pods  
kubectl scale --replicas=3 deployment/<deployment>  
  
# Delete a pod  
kubectl delete pod <pod>
```

Context

```
# Show contexts  
kubectl config get-contexts  
  
# Show current context  
kubectl config current-context  
  
# Switch context to another cluster  
kubectl config use-context <my-cluster-name>  
  
# Change Namespace  
kubectl config set-context --current --namespace=<namespace>
```

Logs

```
# Show logs (stdout) of a pod  
kubectl logs <pod>  
  
# Show logs (stdout) of pods that match a label  
kubectl logs -l <label>=<value>  
  
# Show logs of a previous instantiation of a container  
kubectl logs <pod> --previous  
  
# Show logs for a specific container in a pod (i.e. init container)  
kubectl logs <pod> -c <container>  
  
# Following logs from a pod  
kubectl logs -f <pod>  
  
# Follow all logs from a pod that match a label  
kubectl logs -f -l <label>=<value> --all-containers  
  
# Show logs with verbosity level of logs from 0 - 9  
kubectl logs <pod> --v=<0:9>
```

Deployments

```
# Get all deployments in the current namespace  
kubectl get deployment  
  
# Get deployments in all namespaces  
kubectl get deployment --all-namespaces  
  
# Get deployments with more details  
kubectl get deployment -o wide  
  
# Get the yaml for a deployment  
kubectl get deployment <deployment> -o yaml  
  
# Inspect a deployment  
kubectl describe deployment <deployment>  
  
# Get deployment's labels  
kubectl get deployment --show-labels  
  
# Get deployments that match a label  
kubectl get deployment -l <label>=<value>
```

Ingress

```
# Get all ingress in the current namespace  
kubectl get ingress  
  
# Get ingress in all namespaces  
kubectl get ingress --all-namespaces  
  
# Get ingress with more details  
kubectl get ingress -o wide  
  
# Get the yaml for a ingress  
kubectl get ingress <ingress> -o yaml  
  
# Inspect a ingress  
kubectl describe ingress <ingress>  
  
# Get ingress labels  
kubectl get ingress --show-labels  
  
# Get ingress that match a label  
kubectl get ingress -l <label>=<value>
```

Creating Resources

```
# Create a kubernetes resource from a file  
kubectl apply -f ./<manifest>.yaml  
  
# Create kubernetes resources from multiple files  
kubectl apply -f ./<manifest>.yaml -f ./<manifest>.yaml  
  
# Create resources from all manifest files in a directory  
kubectl apply -f ./<directory>  
  
# Create resource from a url  
kubectl apply -f <url_to_manifest>  
  
# Start a single instance of an image  
kubectl create deployment <deployment_name> --image=<image>
```

Nodes

```
# Mark node as unschedulable  
kubectl cordon <node>  
  
# Drain a node for maintenance  
kubectl drain <node>  
  
# Mark node as schedulable  
kubectl uncordon <node>  
  
# Show 'top' metrics for a node  
kubectl top node <node>  
  
# Display addresses of the master and services  
kubectl cluster-info  
  
# Dump current cluster state to stdout  
kubectl cluster-info dump  
  
# Show a list of eligible kube resource (i.e. pods, service, pv, etc)  
kubectl api-resources  
  
# Show a list of eligible kube resources in your namespace  
kubectl api-resources --namespaced=true
```