Kubernetes - Cheat Sheet

Viewing Resources Information - Nodes

```
$  kubectl get no
$  kubectl get no -o wide
$  kubectl describe no
$  kubectl get no -o yaml
$  kubectl get node –selector=[label_name]
$  kubectl get nodes -o
jsonpath='{.ites[*].status.addresses[?
(@.type=="ExternalIP")].address}'
$  kubectl top node [node_name]
```

Viewing Resources Information - Pods

```
$  kubectl get no
$  kubectl get no -o wide
$  kubectl describe no
$  kubectl get no -o yaml
$  kubectl get node –selector=[label_name]
$  kubectl get nodes -o
jsonpath='{.ites[*].status.addresses[?
(@.type=="ExternalIP")].address}'
$  kubectl top node [node_name]
$  kubectl describe deploy
$  kubectl get deploy -o wide
$  kubectl1 get deploy -o yaml
```

Services

```
$  kubectl get svc
$  kubectl describe svc
$  kubectl1 get svc -o wide
$  kubectl get svc -o yaml
$  kubectl get svc --show-labels
```

DaemonSets

```
$  kubectl get ds
$  kubectl get ds--all-namespaces
$  kubectl describe ds
[daemonset_name]
-n [namespace name]
$  kubect1 get ds [ds_name] -n
[ns_name] -o yaml
```

Events

```
$  kubectl get events
$  kubectl get events -n kube-system
$  kubectl get events -w
```

Logs

```
$ kubect1 logs [pod_name]
$ kubectl logs --since=1h [pod_name]
$ kubectl logs =-tail=20 [pod_name]
$ kubectl logs -f -c
[container_name] [pod_name]
```

```
$  kubectl describe rs
$  kubectl get rs -o wide
$  kubectl get rs -o yaml
```

Roles

```
$  kubect1 get roles --all-
namespaces
$  kubect1 get roles --all-
namespaces -o yaml
```

Secrets

```
$  kubectl get secrets
$  kubectl get secrets
--all-namespaces
$  kubect1 get secrets -o yaml
```

ConfigMaps

```
$  kubectl get cm
$  kubect1 get cm --all-namespaces
$  kubectl get cm --all-namespaces
-o yaml
```

Ingress

```
$ kubect1 get ing
$ kubectl get ing--all-namespaces
```

Viewing Resource Information

Storage class

```
$ kubectl get sc
$ kubectl get sc -o yaml
```

Storage class

```
$ kubectl get svc, po
$ kubectl get deploy, no
$ kubectl get all
$ kubectl get all --all-namespaces
```

Changing Resource Attributes

Taint

```
$ kubectl taint [node_name]
[taint_name]
```

Labels

```
$ kubectl label [node name]
disktype=ssd
$ kubrectl label [pod name]
env=prod
```

Drain

```
$ kubectl drain [node name]
```

Cordon/Uncordon

```
$ kubectl cordon [node name]
$ kubectl uncordon [node name]
```

Nodes/Pods

```
$ kubectl delete node [node
name]
$ kubectl delete pod [pod name]
$ kubectl edit node [node namel
$ kubectl edit pod [pod name]
```

Deployments/Namespaces

```
$ kubectl edit deploy [deploy_name]
$ kubectl delete deploy [deploy_name]
$ kubectl expose deploy [deploy_name]
-port=80 --type=NodePort
$ kubectl scale deploy [deploy_name]
--replicas=5
$ kubectl delete ns
$ kubectl edit ns [ns name]
```

Services

```
$ kubectl edit svc [svc name]
$ kubectl delete svc [svc_name]
```

Services

```
$ kubectl edit ds [ds _name] -n
kube-system
$ kubectl delete ds [ds name]
```

Service Accounts

```
$ kubectl edit sa [sa name]
$ kubectl delete sa [sa name]
```

Adding Resources

Creating a Pod

```
$ kubectl create -f [name of file]
$ kubectl apply -f [name _of_file]
$ kubectl run [pod name] --image=nginx
--restart=Never
$ kubectl run [pod name]
--generator=run-pod/v1--image=nginx
$ kubectl run [pod_name]
--image=nginx
--restart=Never
```

Creating a Service

```
$ kubectl create svc nodeport [svc name]
- tCp=8080:80
```

Creating a Deployment

```
$ kubectl create -f [name of file]
$ kubectl apply -f [name of _file]
$ kubectl create deploy [deploy name]
--image=nginx
```