

kubectl

General

GET INFORMATION ABOUT NODES

```
> kubectl get nodes
> kubectl get nodes -o wide
```

GET COMPONENT HEALTH

```
> kubectl get componentstatus
```

GET INFO ABOUT CLUSTER

```
> kubectl cluster-info
> kubectl get all --all-namespaces
```

GET NAMESPACES

```
> kubectl get namespaces
```

GET CONTEXT(S)

```
> kubectl config current-context
> kubectl config get-contexts
```

CHANGE CONTEXT

```
> kubectl config use-context <name>
```

Tips

GET DOCUMENTATION

```
> kubectl explain <resource-name>
```

FORWARD PORT TO LOCAL MACHINE

```
> kubectl port-forward <pod-name> <local>:<pod>
```

Pod

DEPLOY PODS

```
> kubectl apply --filename pod.yml
```

LIST PODS

```
> kubectl get pods
> kubectl get pods -n <namespace> -o wide
```

GET INFO ABOUT POD

```
> kubectl describe pod <name> -n <namespace>
```

GET SHELL ON POD'S FIRST CONTAINER

```
> kubectl exec <pod-name> -it /bin/sh
```

DELETE POD

```
> kubectl delete pod <name>
> kubectl delete pod <name> --grace-period=0 --force
```

RUN INSTANCE OF IMAGE

```
> kubectl run nginx --image=nginx
```

Service

DEPLOY SERVICE

```
> kubectl apply -f service.yml
```

LIST RUNNING SERVICES

```
> kubectl get services --all-namespaces
```

GET INFO ABOUT SERVICE

```
> kubectl describe svc <name>
```

Deployment

ROLLOUT DEPLOYMENT

```
> kubectl apply -f deployment.yml
```

WATCH DEPLOYMENT PROGRESS

```
> kubectl get pods -w
> kubectl get replicaset -w -o wide
> kubectl rollout status deployment <name>
```

UNDO DEPLOYMENT

```
> kubectl rollout undo deployment <name>
```

DEPLOYMENT HISTORY

```
> kubectl rollout history deployment <name>
```

DELETE DEPLOYMENT

```
> kubectl delete -f deployment.yml
```

Secret

CREATE SECRET

```
> kubectl create secret generic mysecret
--from-file=./user.txt --from-file=./pass.txt
```

GET SECRET(S)

```
> kubectl get secrets
```

Formatting

```
-o=wide # Plain-text with extra information
-o=yaml # YAML formatted API object
-o=json # JSON formatted API object
-o=name # Only the resource name
--sort-by=<property> # e.g. .metadata.name
```

