

Kubernetes Commands



----*** kubectl ***----

(<https://kubernetes.io/docs/reference/kubectl/>)

\$ kubectl

\$ kubectl get nodes

\$ kubectl get nodes

>> Check kubernetes config

\$ cd .kube

\$ nano config

\$ kubectl get nodes -o wide

\$ kubectl get nodes -o yaml

>> kubectl describe (Human readable)

\$ kubectl describe node/<node>

\$ kubectl describe node <node>

\$ kubectl get nodes

(get the name)

\$ kubectl describe node/<name>

>> Resource Types

(<https://kubernetes.io/docs/reference/#api-reference>)

```
$ kubectl api-resources
```

```
$ kubectl explain <resource>
```

```
$ kubectl explain pod
```

```
>>>
```

```
$ kubectl get services
```

```
$ kubectl get pods
```

```
>>> Namespaces
```

(<https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/>)

```
$ kubectl get namespaces
```

```
$ kubectl get pods -A  
(List all pods)
```

```
$ kubectl get pods -n <namespace>  
(List pod of a particular namespace)
```

```
>> Run a pod
```

```
$ kubectl run pingtest --image alpine ping 1.1.1.1
```

```
$ kubectl get all
```

```
$ kubectl delete pod/pingtest
```

```
>>> Creating a deployment
```

```
$ kubectl create deployment pingtest --image alpine -- ping 1.1.1.1
```

```
$ kubectl get all
```

```
$ kubectl create deployment nginx --image nginx
```

>>> Check Logs

```
$ kubectl logs deploy/pingtest
```

```
$ kubectl logs deploy/nginx
```

```
$ kubectl logs deploy/pingtest --tail 5
```

>>> Get logs from all pods

```
$ kubectl logs -l app=pingtest --all-containers -f  
(Show continuous logs from all pods)
```

>>> Create replicas of containers (pods)

```
$ kubectl scale deploy/pingtest --replicas 3
```

```
$ kubectl get all
```

>>> Deleting Pods

```
$ watch kubectl get pods
```

```
$ kubectl delete pod/pingtest-649dfd8998-54g4v
```

>>> Create Cronjob

```
$ kubectl create cronjob my-job2 --image=alpine --schedule="*/3 * * * *" sleep 10
```

```
$ kubectl get all
```

```
$ kubectl delete cronjob m-job2
```

>>> Stern Plugin for Logs

```
$ (  
  set -x; cd "$(mktemp -d)" &&  
  OS="$(uname | tr '[:upper:]' '[:lower:]')" &&  
  ARCH="$(uname -m | sed -e 's/x86_64/amd64/' -e 's/\(arm\)\(64\)\{0,1\}/\1\2/' -e  
's/aarch64$/arm64/')" &&  
  KREW="krew-${OS}_${ARCH}" &&  
  curl -fsSLO "https://github.com/kubernetes-sigs/krew/releases/latest/download/${KREW}.tar.gz"  
  &&  
  tar zxvf "${KREW}.tar.gz" &&  
  ./"${KREW}" install krew  
)
```

```
$ export PATH="${KREW_ROOT:-$HOME/.krew}/bin:$PATH"
```

```
$ kubectl krew
```

```
$ kubectl krew install stern
```

```
$ kubectl stern pingtest
```

```
$ kubectl stern -t pingtest  
(To check timestamp)
```

>>> Decommision a worker

```
$ kubectl drain k8s-worker2
```

```
$ kubectl drain k8s-worker2 --ignore-daemonsets
```

```
$ kubectl get pods
```

```
$ kubectl get all
```

(Re-comission)

```
$ kubectl uncordon k8s-worker2
```

```
$ kubectl get pods
```