**K8s Commands**

**Nodes**

|  |
| --- |
| $ kubectl get no |
| $ kubectl get no -o wide |
| $ kubectl describe no |
| $ kubectl get no -o yaml |
| $ kubectl get node –select or =[ label \_name] |
| $ kubectl get nodes -o jsonpath='{.items[\*].status.addresses[?(@.type==”ExternalIP”)].address}’ |
| $ kubectl top node [node\_name] |

**Pods**

|  |
| --- |
| $ kubectl get po |
| $ kubectl get po -o wide |
| $ kubectl describe po |
| $ kubectl get po –show-labels |
| $ kubectl get po -l app=nginx |
| $ kubectl get po -o yaml |
| $ kubect l get pod [ pod\_name] -o yaml –export |
| $ kubect l get pod [pod\_name] -o yaml –export > nameoffile.yaml |
| $ kubectl get pods –field-selector status.phase=Running |

**Namespaces**

|  |
| --- |
| $ kubectl get ns |
| $ kubectl get ns -o yaml |
| $ kubectl describe ns |

**Deployments**

|  |
| --- |
| $ kubectl get deploy |
| $ kubectl describe deploy |
| $ kubectl get deploy -o wide |
| $ kubectl get deploy -o yam |

**Services**

|  |
| --- |
| $ kubectl get svc |
| $ kubectl describe svc |
| $ kubectl 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] |
| $ kubectl get ds [ds\_name] -n [ns\_name] -o yaml |

**Events**

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

**Logs**

|  |
| --- |
| $ kubectl logs [pod\_name] |
| $ kubectl logs –since=1h [pod\_name] |
| $ kubectl logs –tail =20 [pod\_name] |
| $ kubectl logs -f -c [container\_name] [pod\_name] |
| $ kubectl logs [pod\_name] > pod.log |

**Service Accounts**

|  |
| --- |
| $ kubectl get sa |
| $ kubectl get sa -o yaml |
| $ kubectl get serviceaccounts default -o yaml > ./sa.yaml |
| $ kubectl replace serviceaccount default -f. /sa.yaml |

**ReplicaSets**

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

**Roles**

|  |
| --- |
| $ kubectl get roles –all-namespaces |
| $ kubectl get roles –all-namespaces -o yaml |

**Secrets**

|  |
| --- |
| $ kubectl get secrets |
| $ kubectl get secrets –all-namespaces |
| $ kubectl get secrets -o yaml |

**ConfigMaps**

|  |
| --- |
| $ kubectl get cm |
| $ kubectl get cm –all-namespaces |
| $ kubectl get cm –all-namespaces -o yaml |

**Ingress**

|  |
| --- |
| $ kubectl get ing |
| $ kubectl get ing –all-namespaces |

**PersistentVolume**

|  |
| --- |
| $ kubectl get pv |
| $ kubectl describe pv |

**PersistentVolumeClaim**

|  |
| --- |
| $ kubectl get pvc |
| $ kubectl describe pvc |

**StorageClass**

|  |
| --- |
| $ kubectl get sc |
| $ kubectl get sc -o yaml |

**MultipleResources**

|  |
| --- |
| $ 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 |

**Cordon/Uncordon**

|  |
| --- |
| $ kubectl cordon [node\_name] |
| $ kubectl uncordon [node\_name] |

**Drain**

|  |
| --- |
| $ kubectl drain [node\_name] |

**Nodes/Pods**

|  |
| --- |
| $ kubectl delete node [node\_name] |
| $ kubectl delete pod [pod\_name] |
| $ kubectl edit node [node\_name] |
| $ kubectl edit pod [pod\_name] |

**Deployments/Namespaces**

|  |
| --- |
| $ kubectl edit deploy [deploy\_name] |
| $ kubectl delete deploy [deploy\_name] |
| $ kubectl expose deploy [depl oy\_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] |

**DaemonSets**

|  |
| --- |
| $ kubectl edit ds [ds\_name] -n kube-system |
| $ kubectl delete ds [ds\_name] |

**ServiceAccounts**

|  |
| --- |
| $ kubectl edit sa [sa\_name] |
| $ kubectl delete sa [sa\_name] |

**Annotate**

|  |
| --- |
| $ kubectl annotate po [pod\_name] [annotation] |
| $ kubectl annotate no [node\_name] |

**Adding Resources**

**Creating a Pod**

|  |
| --- |
| $ kubectl create -f [name\_of \_file] |
| $ kubectl apply -f [name\_of \_file] |
| $ kubectl run [pod\_name] –image=ngi nx –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=ngi nx |

**Interactive Pod**

|  |
| --- |
| $ kubectl run [pod\_name] –image=busybox –rm -it –restart=Never — sh |

**Output YAMLto aFile**

|  |
| --- |
| $ kubectl create deploy [deploy\_name] –image=ngi nx –dry-run -o yaml > deploy.yaml |
| $ kubectl get po [pod\_name] -o yaml –export > pod. yaml |

**Getting Help**

|  |
| --- |
| $ kubectl -h |
| $ kubectl create -h |
| $ kubectl run -h |
| $ kubectl explain deploy.spec |

**Requests API Call**

|  |
| --- |
| $ kubectl get –raw /apis/metrics.k8s.io/ |

**Cluster Info**

|  |
| --- |
| $ kubectl config |
| $ kubectl cluster -info |
| $ kubectl get componentstatuses |