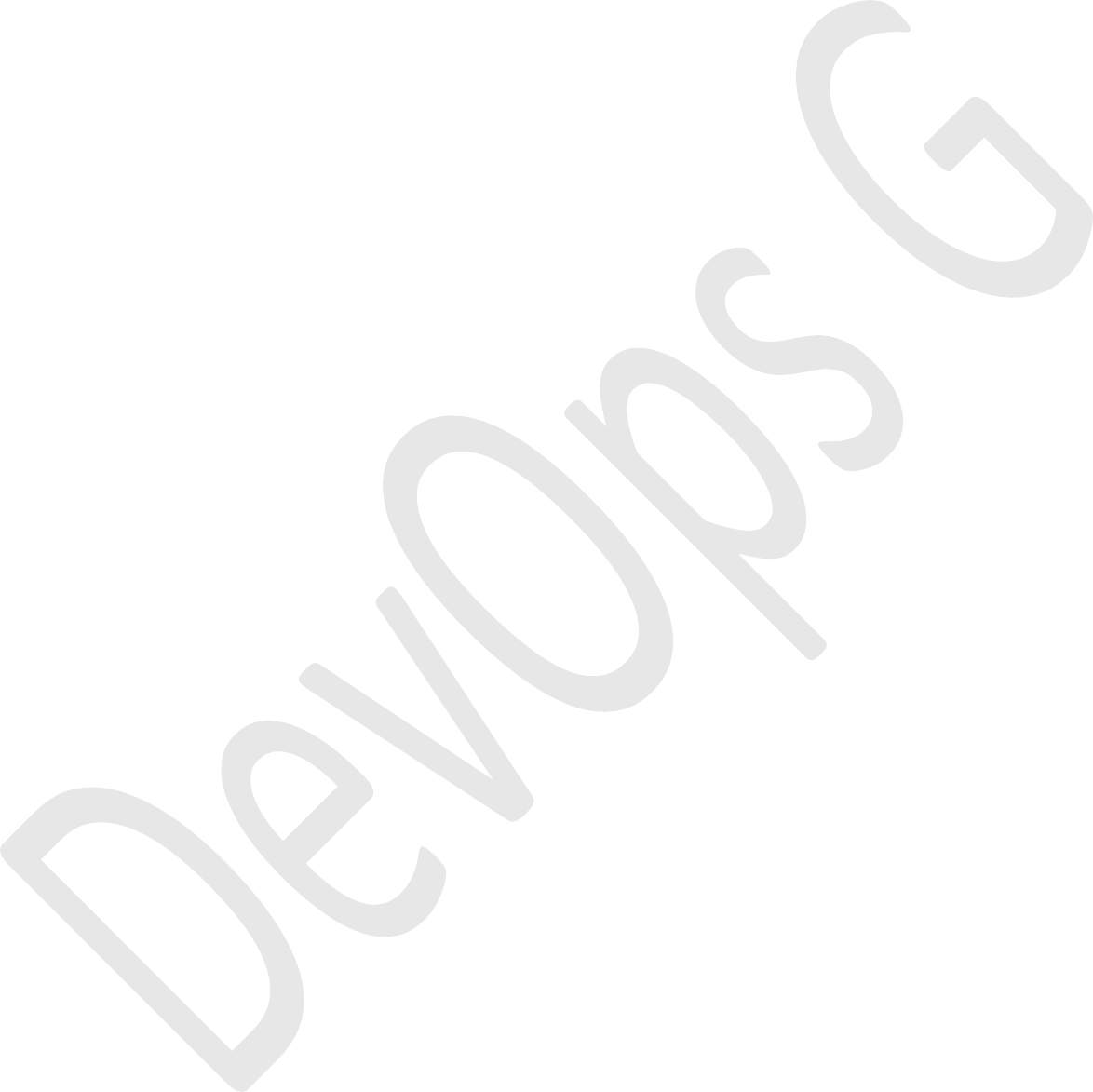
Kubernetes Cheatsheet Creating Objects:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Create resource | kubectl apply -f ./<file\_name>.yaml |
| Create from multiple files | kubectl apply -f ./<file\_name\_1>.yaml -f  ./<file\_name\_2>.yaml |
| Create all files in directory | kubectl apply -f ./<directory\_name> |
| Create from url | kubectl apply -f https://<url> |
| Create pod | kubectl run <pod\_name> --image <image\_name> |
| Create pod, then expose it as service | kubectl run <pod\_name> --image <image\_name> --port  <port> --expose |
| Create pod yaml file | kubectl run <pod\_name> --image image\_name --dry- run=client -o yaml > <file\_name>.yaml |
| Create deployment | kubectl create deployment <deployment\_name> --image  <image\_name> |
| Create deployment yaml file | kubectl create deployment <deployment\_name> --image  <image\_name> --dry-run=client -o yaml >  <file\_name>.yaml |
| Create service | kubectl create service <service-type>  <service\_name> --tcp=<port:target\_port> |
| Create service yaml file | kubectl create service <service-type>  <service\_name> --tcp=<port:target\_port> --dry- run=client -o yaml > <file\_name>.yaml |
| Expose service from pod/deployment | kubectl expose deployment <pod/deployment\_name> -- type=<service-type> --port <port> --target-port  <target\_port> |
| Create config map from key-value | kubectl create configmap <configmap\_name> --from- literal=<key>:<value> --from-literal=<key>:<value> |
| Create config map from file | kubectl create configmap <configmap\_name> --from- file=<file\_name> |
| Create config map from env file | kubectl create configmap <configmap\_name> --from-env- file=<file\_name> |
| Create secret from key- value | kubectl create secret generic <secret\_name> --from- literal=<key>:<value> --from-literal=<key>:<value> |
| Create secret from file | kubectl create secret generic <secret\_name> --from- file=<file\_name> |

|  |  |
| --- | --- |
| **Name** | **Command** |
| Create job | kubectl create job <job\_name> --image=<image\_name> |
| Create job from cronjob | kubectl create job <job\_name> -- from=cronjob/<cronjob-name> |
| Create cronjob | kubectl create cronjob --image=<image\_name> -- schedule='<cron-syntax>' -- <command> <args> |

Monitoring Usage Commands:-

|  |  |
| --- | --- |
| Name | Command |
| Get node cpu and memory utilization | kubectl top node <node\_name> |
| Get pod cpu and memory utilization | kubectl top pods <pod\_name> |

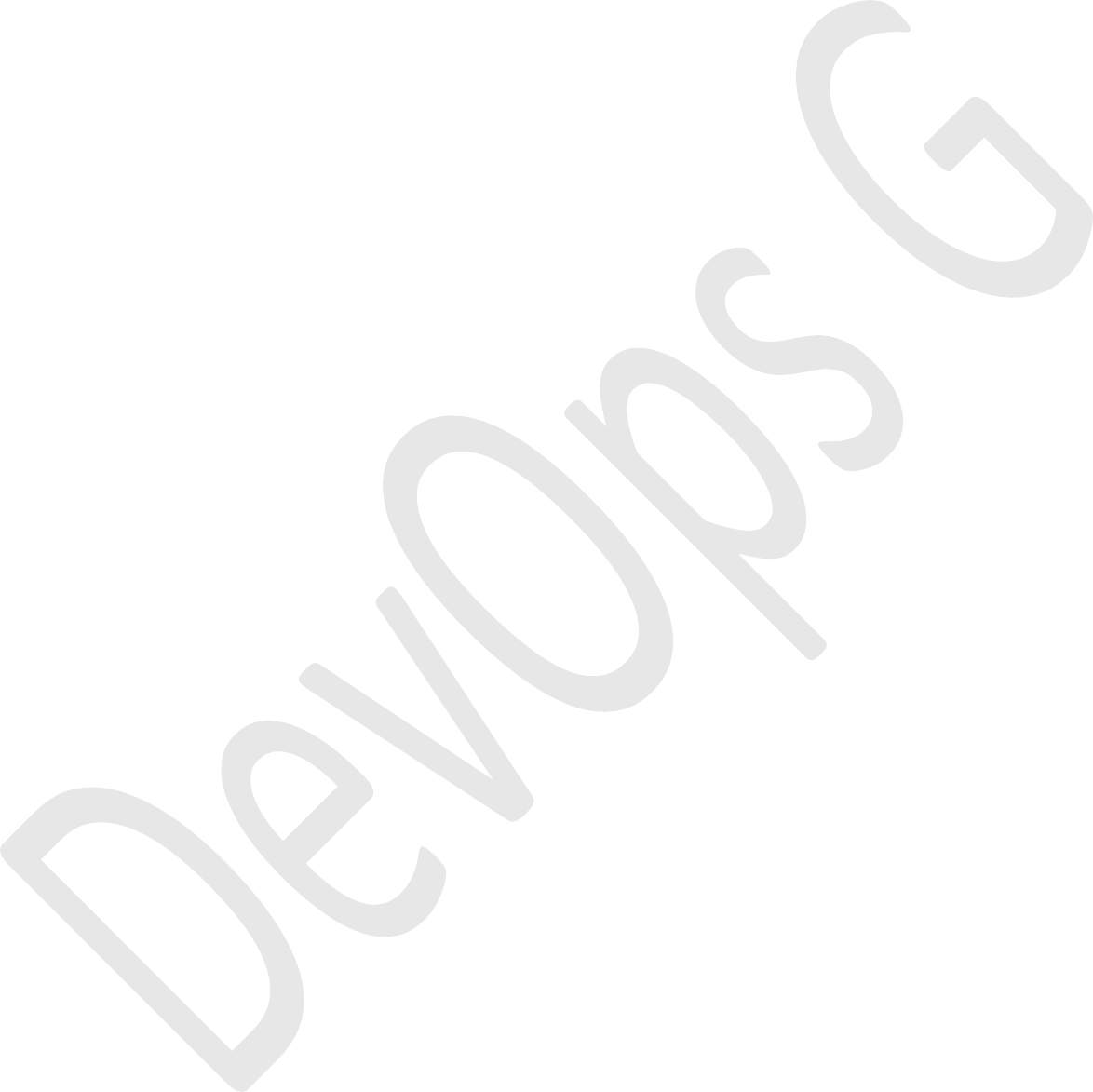
Node Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Describe node | kubectl describe node <node\_name> |
| Get node in yaml | kubectl get node <node\_name> -o yaml |
| Get node | kubectl get node <node\_name> |
| Drain node | kubectl drain node <node\_name> |
| Cordon node | kubectl cordon node <node\_name> |
| Uncordon node | kubectl uncordon node <node\_name> |

Pod Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Get pod | kubectl get pod <pod\_name> |
| Get pod in yaml | kubectl get pod <pod\_name> -o yaml |
| Get pod wide information | kubectl get pod <pod\_name> -o wide |
| Get pod with watch | kubectl get pod <pod\_name> -w |
| Edit pod | kubectl edit pod <pod\_name> |
| Describe pod | kubectl describe pod <pod\_name> |
| Delete pod | kubectl delete pod <pod\_name> |
| Log pod | kubectl logs pod <pod\_name> |
| Tail -f pod | kubectl logs pod -f <pod\_name> |

|  |  |
| --- | --- |
| **Name** | **Command** |
| Execute into pod | kubectl exec -it pod <pod\_name> /bin/bash |
| Running Temporary Image | kubectl run <pod\_name> --image=curlimages/curl --rm -it -- restart=Never -- curl <destination> |

Deployment Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Get deployment | kubectl get deployment <deployment\_name> |
| Get deployment in yaml | kubectl get deployment <deployment\_name> -o yaml |
| Get deployment wide information | kubectl get deployment <deployment\_name> -o wide |
| Edit deployment | kubectl edit deployment <deployment\_name> |
| Describe deployment | kubectl describe deployment <deployment\_name> |
| Delete deployment | kubectl delete deployment <deployment\_name> |
| Log deployment | kubectl logs deployment/deployment\_name -f |
| Update image | kubectl set image deployment <deployment\_name>  <container\_name>=<new\_image\_name> |
| Scale deployment with replicas | kubectl scale deployment <deployment\_name> --replicas  <replicas> |

Service Commands:-

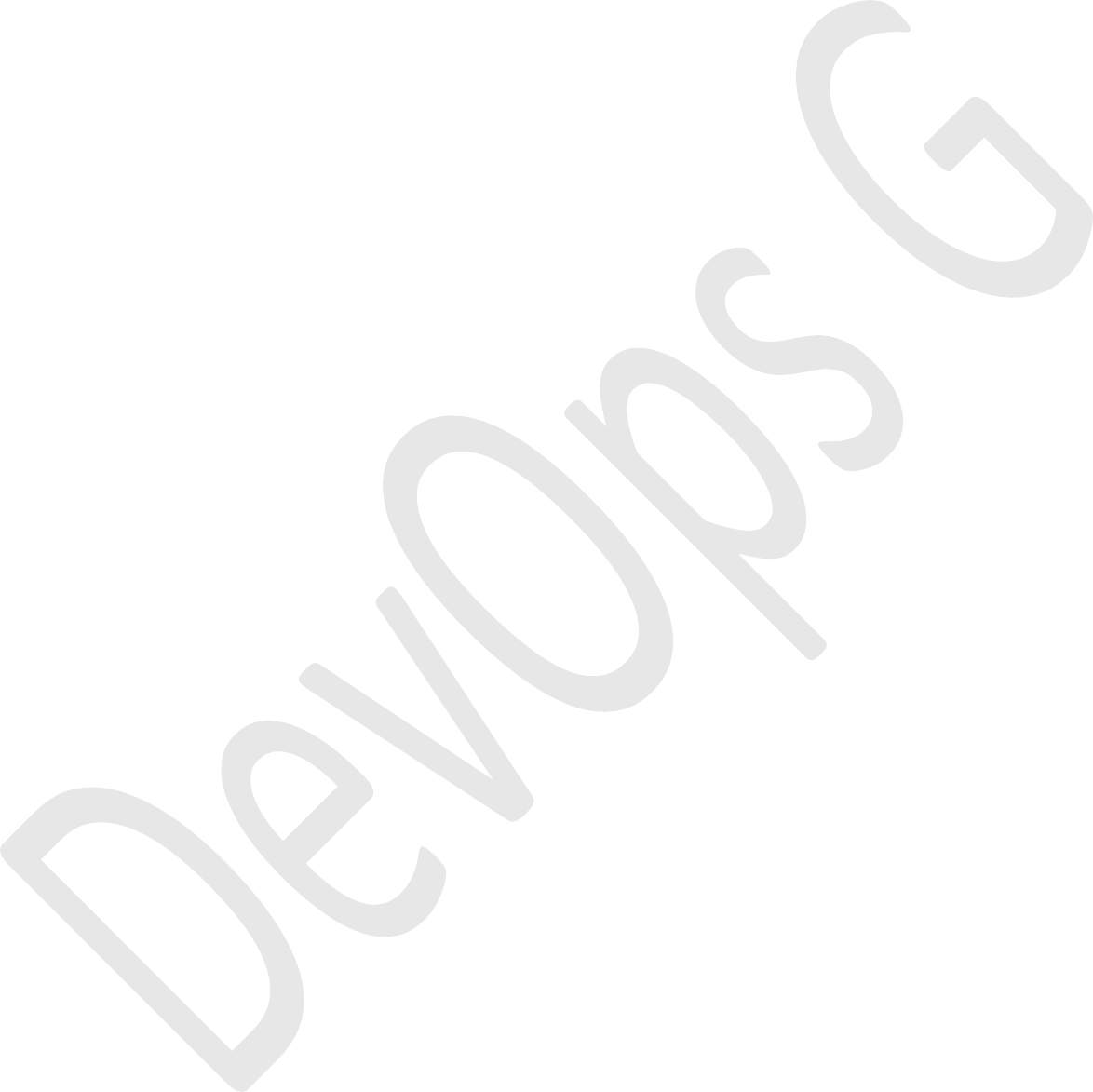
|  |  |
| --- | --- |
| **Name** | **Command** |
| Get service | kubectl get service <service> |
| Get service in yaml | kubectl get service <service> -o yaml |
| Get service wide information | kubectl get service <service> -o wide |
| Edit service | kubectl edit service <service> |
| Describe service | kubectl describe service <service> |
| Delete service | kubectl delete service <service> |

Endpoints Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Get endpoints | kubectl get endpoints <endpoints\_name> |

Ingress Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Get ingress | kubectl get ingress |
| Get ingress in yaml | kubectl get ingress -o yaml |
| Get ingress wide information | kubectl get ingress -o wide |
| Edit ingress | kubectl edit ingress <ingress\_name> |
| Describe ingress | kubectl describe ingress <ingress\_name> |
| Delete ingress | kubectl delete ingress <ingress\_name> |

DaemonSet Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Get daemonset | kubectl get daemonset <daemonset\_name> |
| Get daemonset in yaml | kubectl get daemonset <daemonset\_name> -o yaml |
| Edit daemonset | kubectl edit daemonset <daemonset\_name> |
| Describe daemonset | kubectl describe daemonset <daemonset\_name> |
| Delete daemonset | kubectl delete deployment <daemonset\_name> |

StatefulSet Commands:-

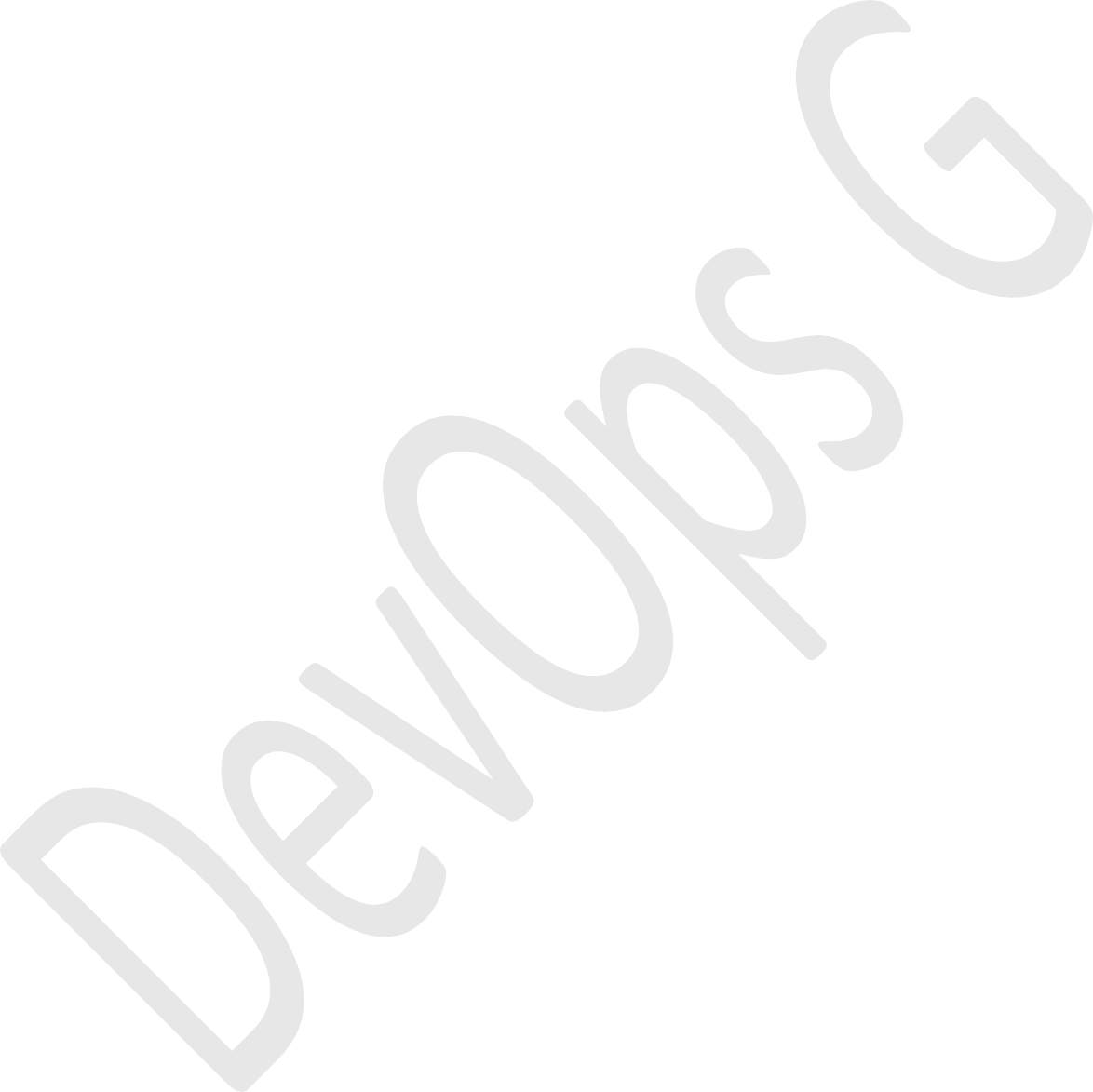
|  |  |
| --- | --- |
| **Name** | **Command** |
| Get statefulset | kubectl get statefulset <statefulset\_name> |
| Get statefulset in yaml | kubectl get statefulset <statefulset\_name> -o yaml |
| Edit statefulset | kubectl edit statefulset <statefulset\_name> |
| Describe statefulset | kubectl describe statefulset <statefulset\_name> |
| Delete statefuleset | kubectl delete statefulset <statefulset\_name> |

ConfigMaps Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Get configmap | kubectl get configmap <configmap\_name> |
| Get configmap in yaml | kubectl get configmap <configmap\_name> -o yaml |
| Edit configmap | kubectl edit configmap <configmap\_name> |
| Describe configmap | kubectl describe configmap <configmap\_name> |
| Delete configmap | kubectl delete configmap <configmap\_name> |

Secret Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Get secret | kubectl get secret <secret\_name> |
| Get secret in yaml | kubectl get secret <secret\_name> -o yaml |
| Edit secret | kubectl edit secret <secret\_name> |
| Describe secret | kubectl describe secret <secret\_name> |
| Delete secret | kubectl delete secret <secret\_name> |

Rollout Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Restart deployment | kubectl rollout restart deployment <deployment\_name> |
| Undo deployment with the latest revision | kubectl rollout undo deployment <deployment\_name> |
| Undo deployment with specified revision | kubectl rollout undo deployment <deployment\_name> --to- revision <revision\_number> |
| Get all revisions of deployment | kubectl rollout history deployment <deployment\_name> |
| Get specified revision of deployment | kubectl rollout history deployment <deployment\_name> -- revision=<revision\_number> |

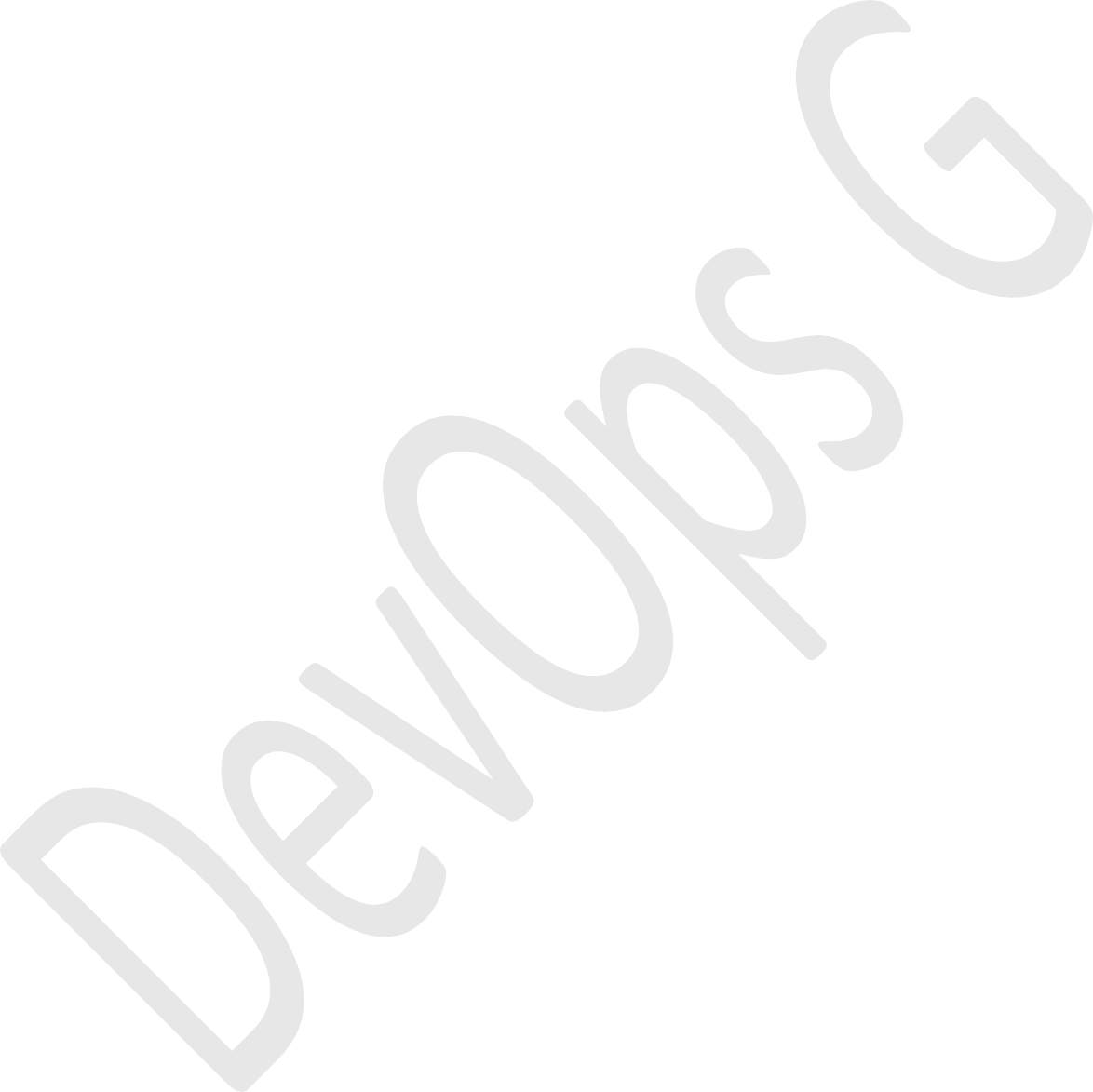
Job Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Get job | kubectl get job <job\_name> |
| Get job in yaml | kubectl get job <job\_name> -o yaml |
| Edit job in yaml | kubectl edit job <job\_name> |
| Describe job | kubectl describe job <job\_name> |
| Delete job | kubectl delete job <job\_name> |

Cronjob Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Get cronjob | kubectl get cronjob cronjob\_name |
| Get cronjob in yaml | kubectl get cronjob <cronjob\_name> -o yaml |

|  |  |
| --- | --- |
| **Name** | **Command** |
| Edit cronjob | kubectl edit cronjob <cronjob\_name> |
| Describe cronjob | kubectl describe cronjob <cronjob\_name> |
| Delete cronjob | kubectl delete cronjob <cronjob\_name> |

Network Policy Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Get networkpolicy | kubectl get networkpolicy <networkpolicy\_name> |
| Get networkpolicy in yaml | kubectl get networkpolicy <networkpolicy\_name> - o yaml |
| Get networkpolicy wide information | kubectl get networkpolicy <networkpolicy\_name> - o wide |
| Edit networkpolicy | kubectl edit networkpolicy <networkpolicy\_name> |
| Describe networkpolicy | kubectl describe networkpolicy  <networkpolicy\_name> |
| Delete networkpolicy | kubectl delete networkpolicy  <networkpolicy\_name> |

Labels and Selectors Commands:-

|  |  |
| --- | --- |
| **Name** | **Command** |
| Show labels of node,pod and deployment | kubectl get <node/pod/deployment> --show- labels |
| Attach labels to  <node/pod/deployment> | kubectl label <node/pod/deployment>  <pod\_name> <key>=<value> |
| Remove labels from  <node/pod/deployment> | kubectl label <node/pod/deployment>  <pod\_name> <key>- |
| Select node,pod and deployment by using labels | kubectl get <node/pod/deployment> -l  <key>=<value> |