**Kubernetes Cheatsheet**

**For more details please go through this official link:**

[**https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands**](https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands)

**Creating Objects:-**

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

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

**Node Commands:-**

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

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

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

**Endpoints Commands:-**

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

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**Ingress Commands:-**

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

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**Secret Commands:-**

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

**Rollout Commands:-**

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

**Job Commands:-**

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

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

**Network Policy Commands:-**

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

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