



Kubernetes Cheatsheet





To list all namespaces kubectl get namespaces or kubectl get ns

To create namespaces kubectl create ns namespace name

To describe namespaces kubectl describe ns namespace_name

To delete namespaces kubectl delete ns namespace_name

To list all pods in the current namespace kubectl get pods

To list all pods in a specific namespace kubectl get pods -n namespace_name

To list all pods in all namespaces kubectl get pods -A or kubectl get pods --all-namespaces

To list pods with associated labels kubectl get pods --show-labels

To delete a pod kubectl delete pods pod_name

To describe a pod kubectl describe pods pod name

To retrieve yaml file for pod kubectl get pods pod_name -o yaml

To see the log of a pod kubectl logs pod name

To stream the logs output of a pod with --follow or -f kubectl logs -f pod_name

To login inside a running pod kubectl exec -it pod_name /bin/sh # To list all replicasets in the current namespace kubectl get replicasets or kubectl get rs

To list all replicasets in a specific namespace kubectl get rs -n namespace_name

To list all replica sets in all namespaces kubectl get rs -A or kubectl get rs --all-namespaces

To list replicasets with associated labels kubectl get rs --show-labels

To describe a replicasets kubectl describe rs replicaset_name

To delete a replicasets kubectl delete rs replicaset_name

To retrieve yaml file for replicasets kubectl get rs replicaset_name -o yaml

To scale replicas to 3 in a replicaset kubectl scale rs --replicas=3 replicaset name





- # To list all deployments in the current namespace kubectl get deployment or kubectl get deploy
- # To list all deployments in a specific namespace kubectl get deploy -n namespace
- # To list all deployments in all namespace kubectl get deploy -A or kubectl get deploy --all-namespaces
- # To list all deployments with labels kubectl get deploy -- show-labels
- # To describe a deployment kubectl describe deploy deployment_name
- # To delete a deployment kubectl delete deploy deployment_name
- # To retrieve yaml file for deployment kubectl get deploy deployment _name -o yaml
- # To scale replicas to 3 for a deployment
 kubectl scale deployment deployment_name --replicas=3

Rolling update of "www" containers of your deployment, updating the image kubectl set image deployment deployment name www=image:v2

Check the history of deployments including the revision kubectl rollout history deployment deployment name

Check the status of the deployment rollout kubectl rollout status deployment deployment_name

Rollback to the previous deployment kubectl rollout undo deployment deployment_name

Rollback to a specific revision kubectl rollout undo deployment deployment_name --to-revision=2

Watch rolling update status of deployment until completion kubectl rollout status -w deployment deployment name

ervices

Exposing deployment with the help of a service

kubectl expose deployment deployment_name --port=service_port --

target-port=container_port --name=service_name --type=service_type

To list the service

kubectl get services or kubectl get svc

To describe the service kubectl describe service service_name

To delete the service kubectl delete service service name





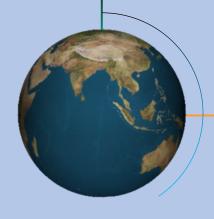
```
# "thinknyxapp.yml" YAML file to create a
Deployment
apiVersion: apps/v1
kind: Deployment
metadata:
  name: thinknyxdep
spec:
  template:
    metadata:
      name: thinknyxpod
# Defining Labels for Pods
      labels:
        env: prod
    spec:
      containers:
      - name: thinknyxcontainer
        image: yogeshraheja/yogeshk8stest:latest
# Defining number of replicas
  replicas: 3
# Defining Selector to be matched for defined Labels
  selector:
    matchLabels:
      env: prod
```

Command to create deployment from yaml file kubectl create -f thinknyxapp.yml

You can see the output below:

```
C:\Users\Thinknyx>kubectl get deployment
NAME
                      UP-TO-DATE
                                   AVAILABLE
                                                AGE
thinknyxdep
              3/3
                                                31s
                      3
                                   3
C:\Users\Thinknyx>kubectl get replicasets
NAME
                                             READY
                                                     AGE
                        DESIRED
                                  CURRENT
thinknyxdep-f88bdcf5c
                                                     40s
C:\Users\Thinknyx>kubectl get pods
NAME
                                      STATUS
                                                 RESTARTS
                              READY
                                                            AGE
thinknyxdep-f88bdcf5c-4mxfd
                              1/1
                                      Running
                                                0
                                                            445
thinknyxdep-f88bdcf5c-6c9td
                              1/1
                                                            445
                                      Running
thinknyxdep-f88bdcf5c-hhnpd
                              1/1
                                      Running
                                                            445
```









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