



Kubernetes

Thinknyx®

Kubernetes Cheatsheet



Kubernetes

Namespaces

```
# 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
```

Pods

```
# 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
```

Replicsets

```
# To list all replicsets in the current namespace  
kubectl get replicsets or kubectl get rs  
  
# To list all replicsets 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 replicsets with associated labels  
kubectl get rs --show-labels  
  
# To describe a replicsets  
kubectl describe rs replicaset_name  
  
# To delete a replicsets  
kubectl delete rs replicaset_name  
  
# To retrieve yaml file for replicsets  
kubectl get rs replicaset_name -o yaml  
  
# To scale replicas to 3 in a replicaset  
kubectl scale rs --replicas=3 replicaset_name
```



Deployments

```
# 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 namespaces  
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 Updates & Rollback

```
# 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
```

Services

```
# 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           READY   UP-TO-DATE   AVAILABLE   AGE
thinknyxdep    3/3     3            3           31s

C:\Users\Thinknyx>kubectl get replicases
NAME           DESIRED   CURRENT   READY   AGE
thinknyxdep-f88bdcf5c   3         3         3       40s

C:\Users\Thinknyx>kubectl get pods
NAME           READY   STATUS    RESTARTS   AGE
thinknyxdep-f88bdcf5c-4mxfd   1/1     Running   0          44s
thinknyxdep-f88bdcf5c-6c9td   1/1     Running   0          44s
thinknyxdep-f88bdcf5c-hhnpd   1/1     Running   0          44s
```

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