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**important**  
**kubernetes**  
**cmds**



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## kubectl get

list resources  
(pods, services, nodes, deployments)

```
user@k8s:$ kubectl get pods           # list all pods
user@k8s:$ kubectl get services       # list all services
user@k8s:$ kubectl get deployments   # list all deployments
user@k8s:$ kubectl get nodes         # list all nodes
user@k8s:$ kubectl get pods -o wide -A # all pods in all namespaces
```



## kubectl describe

show detailed information  
about a specific resource

```
user@k8s:$ kubectl describe pod <pod-name>
```

```
# details of a specific pod in default namespace
```

```
user@k8s:$ kubectl describe service <service-name>
```

```
# details of a specific service in default namespace
```

```
user@k8s:$ kubectl describe pod <pod-name> -n <namespace>
```

```
# details of a specific pod in specific namespace
```



**kubectl apply**

create or update resources  
using a YAML file

```
user@k8s:$ kubectl apply -f <file.yaml>  
# apply changes from a YAML file
```



## kubectl delete

remove resources  
from the cluster

```
user@k8s:$ kubectl delete pod <pod-name>
```

```
# delete a specific pod
```

```
user@k8s:$ kubectl delete -f <file.yaml>
```

```
# delete resources defined in a YAML file
```



## kubectl logs

view logs from  
a specific pod or container

```
user@k8s:$ kubectl logs <pod-name>
```

```
# logs from a single-container pod
```

```
user@k8s:$ kubectl logs <pod-name> -c <container-name>
```

```
# logs from a specific container in a pod
```



## kubectl exec

execute a command  
inside a running pod

```
user@k8s:$ kubectl exec -it <pod-name> -- /bin/bash
```

```
# start a bash shell in a pod
```

```
user@k8s:$ kubectl exec <pod-name> -- ls /app
```

```
# run `ls /app` inside the pod
```



## kubectl scale

adjust the number of  
replicas for a deployment

```
user@k8s:$ kubectl scale deployment <deployment-name> --replicas=3  
# scale to 3 replicas
```





**kubectl expose**

create a service to expose  
a pod or deployment

```
user@k8s:$ kubectl expose deployment <deployment-name> --  
type=NodePort --port=8080  
# expose a deployment on port 8080
```



## **kubectrl port-forward**

forward local ports to a pod  
for testing or debugging

```
user@k8s:$ kubectl port-forward <pod-name> 8080:80  
# forward local port 8080 to pod's port 80
```



## kubectl roll-out

manage and monitor  
deployment rollouts  
(status, undo)

```
user@k8s:$ kubectl rollout status deployment/<deployment-name>  
# check the status of a rollout  
user@k8s:$ kubectl rollout undo deployment/<deployment-name>  
# rollback to the previous version
```



## kubectl config

manage kubeconfig file  
(for multiple cluster switching)

```
user@k8s:$ kubectl config get-contexts
```

```
# list available contexts.
```

```
user@k8s:$ kubectl config use-context <context-name>
```

```
# switch to a specific context.
```

```
user@k8s:$ kubectl config view
```

```
# view current configuration details.
```



user@k8s:\$ #####

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