11 important kubernetes cmds

more tips

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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
```

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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
```

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kubectl apply

create or update resources
using a YAML file

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

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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
```

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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
```

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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
```

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kubectl scale

adjust the number of
replicas for a deployment

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

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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
```

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kubectl 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
```

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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
```

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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.
```

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