

Key Kubernetes Command

1. Working with Pods.....	1
2. Working with Deployments.....	1
3. Working with Services.....	2
4. Working with ConfigMaps and Secrets.....	2
5. Working with Namespaces.....	2
6. Managing Nodes.....	3
7. Working with Persistent Volumes (PV) and Claims (PVC).....	3
8. Configuring and Viewing Contexts.....	3
9. Debugging Resources.....	4
10. Managing Jobs and CronJobs.....	4
11. Applying and Deleting Manifests.....	4

1. Working with Pods

```
kubectl get pods          -> # Lists all pods in the current
namespace
kubectl get pods -A       -> # Lists all pods across all
namespaces
kubectl describe pod <pod> -> # Displays detailed info about a
specific pod
kubectl delete pod <pod>   -> # Deletes a specific pod
kubectl logs <pod>         -> # Displays logs for a specific pod
kubectl exec -it <pod> -- /bin/sh -> # Executes a shell inside a
running pod
```

2. Working with Deployments

```
kubectl get deployments          -> # Lists all deployments
kubectl create deployment <name> --image=<image> -> # Creates a
deployment
kubectl scale deployment <name> --replicas=<num> -> # Scales a
deployment
kubectl rollout status deployment <name>          -> # Checks rollout
status
kubectl rollout undo deployment <name>            -> # Rolls back the
last deployment
```

3. Working with Services

```
kubectl get services            -> # Lists all services
kubectl describe svc <service>  -> # Displays detailed info about a
service
kubectl expose deployment <name> --port=<port> --type=<type> -> #
Exposes a deployment as a service
kubectl delete svc <service>    -> # Deletes a specific service
```

4. Working with ConfigMaps and Secrets

```
kubectl create configmap <name> --from-literal=key=value -> #
Creates a ConfigMap
kubectl get configmaps          -> # Lists
all ConfigMaps
kubectl describe configmap <name> -> #
Describes a ConfigMap
kubectl create secret generic <name> --from-literal=key=value -> #
Creates a secret
kubectl get secrets              -> # Lists
all secrets
kubectl describe secret <name>   -> #
Describes a secret
```

5. Working with Namespaces

```
kubectl get namespaces          -> # Lists all namespaces
kubectl create namespace <name> -> # Creates a new namespace
kubectl delete namespace <name> -> # Deletes a namespace
kubectl config set-context --current --namespace=<name> -> # Sets
default namespace for current context
```

6. Managing Nodes

```
kubectl get nodes              -> # Lists all nodes in the cluster
kubectl describe node <node>   -> # Displays detailed info about a node
kubectl drain <node>           -> # Safely evicts pods from a node (for
maintenance)
kubectl cordon <node>          -> # Marks node as unschedulable
kubectl uncordon <node>        -> # Marks node as schedulable again
```

7. Working with Persistent Volumes (PV) and Claims (PVC)

```
kubectl get pv                -> # Lists all persistent
volumes
kubectl get pvc                -> # Lists all persistent
volume claims
kubectl describe pv <pv>       -> # Displays info about a
persistent volume
kubectl describe pvc <pvc>     -> # Displays info about a
persistent volume claim
kubectl delete pvc <pvc>       -> # Deletes a specific PVC
```

8. Configuring and Viewing Contexts

```
kubectl config get-contexts          -> # Lists all available contexts
kubectl config use-context <context> -> # Switches to a specific context
kubectl config current-context        -> # Displays the current context
kubectl config delete-context <context>-> # Deletes a specific context
```

9. Debugging Resources

```
kubectl describe <resource> <name>    -> # Describes any Kubernetes resource
kubectl logs <pod>                      -> # Displays logs of a pod
kubectl logs -f <pod>                   -> # Follows pod logs in real-time
kubectl get events                       -> # Lists cluster events
kubectl debug <pod>                     -> # Debugs a running pod
```

10. Managing Jobs and CronJobs

```
kubectl get jobs                      -> # Lists all jobs
kubectl delete job <job>               -> # Deletes a specific job
kubectl get cronjobs                   -> # Lists all cronjobs
kubectl delete cronjob <cronjob>       -> # Deletes a specific cronjob
```

11. Applying and Deleting Manifests

<code>kubectl apply -f <file.yaml></code>	<code>-> # Applies configuration from</code>
<code>a YAML file</code>	
<code>kubectl delete -f <file.yaml></code>	<code>-> # Deletes resources defined</code>
<code>in a YAML file</code>	
<code>kubectl diff -f <file.yaml></code>	<code>-> # Shows differences before</code>
<code>applying a YAML file</code>	

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