

# Kubernetes Commands Overview

Part-1

# Basic Commands

## 1. kubectl apply:

- Apply a configuration to a resource by file name or stdin.
- Example: `kubectl apply -f <filename>`

## 2. kubectl create:

- Create a resource from a file or from stdin.
- Example: `kubectl create -f <filename>`

# Basic Commands

## 3. kubectl get:

- List one or more resources.
- Example: `kubectl get pods`

## 4. kubectl describe:

- Show details of a specific resource or group of resources.
- Example: `kubectl describe pod <pod-name>`

# Basic Commands

## 5. kubectl delete:

- Delete resources by file name, stdin, resource, and names, or by resources and label selector.
- Example: `kubectl delete pod <pod-name>`

## 6. kubectl edit:

- Edit a resource from the default editor.
- Example: `kubectl edit deployment <deployment-name>`

## Basic Commands

7. kubectl get events:

- List events in the cluster.
- Example: **kubectl get events**

# Kubernetes

# Commands Overview

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# Cluster Management

## 8. kubectl config:

- Modify kubeconfig files.
- Example: `kubectl config view`

## 9. kubectl cluster-info:

- Display cluster information.
- Example: `kubectl cluster-info`

# Cluster Management

10. kubectl top:

- Display Resource

(CPU/Memory/Storage) usage.

- Example: **kubectl top pods**



# Kubernetes Commands Overview

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# Namespace Management

## 11. kubectl get namespaces:

- List all namespaces.
- Example: `kubectl get namespaces`

## 12. kubectl create namespace:

- Create a new namespace.
- Example: `kubectl create namespace <namespace-name>`

# Namespace Management

13. `kubectl delete namespace:`

- Delete a namespace.
- Example: `kubectl delete namespace <namespace-name>`

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# Pod Management

## 14. kubectl logs:

- Print the logs for a container in a pod.
- Example: `kubectl logs <pod-name>`

## 15. kubectl exec:

- Execute a command in a container.
- Example: `kubectl exec -it <pod-name> -- /bin/bash`

# Pod Management

16. `kubectl port-forward`:

- Forward one or more local ports to a pod.
- Example: `kubectl port – forward <pod-name> <local-port>:<pod-port>`

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# Deployment Management

## 17. kubectl scale:

- Scale a deployment, replica set, replication controller, or stateful set.
- Example: `kubectl scale deployment <deployment-name> --replicas=3`

## 18. kubectl rollout:

- Manage the rollout of a resource.
- Example: `kubectl rollout restart deployment <deployment-name>`



# Deployment Management

19. kubectl rollout status:

- Show the status of the rollout.
- Example: `kubectl rollout status deployment <deployment-name>`

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# Job Management

20. kubectl get jobs:

- List jobs in the cluster.
- Example: `kubectl get jobs`

21. kubectl create job:

- Create a job.
- Example: `kubectl create a job <job-name> -- image=<image-name>`

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# Service Management

22. `kubectl get services:`

- List all service.
- Example: `kubectl get services`

23. `kubectl expose:`

- Expose a resource as a new Kubernetes service.
- Example: `kubectl expose deployment <deployment-name> -- port=80`  
– `target-port=8080`

# Kubernetes Commands Overview

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# Configuration Management

24. `kubectl apply -k:`

- Apply a kustomization directory.
- Example: `kubectl apply -k <directory>`

25. `kubectl kustomize:`

- Build a kustomization target target from a directory or a remote URL .
- Example: `kubectl kustomize <directory>`

# Kubernetes Commands Overview

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# Troubleshooting

## 26. kubectl get events:

- List events in the cluster.
- Example: `kubectl get events`

## 27. kubectl describe node:

- Show details of a specific node.
- Example: `kubectl describe node <node-name>`

# Troubleshooting

28. kubectl debug:

- Create debugging sessions for workloads and nodes.
- Example: `kubectl debug pod/<pod-name>`

# Kubernetes Commands Overview

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# Extended Commands

## 29. kubectl plugin:

- List all available plugin commands.
- Example: `kubectl plugin list`

## 30. kubectl version:

- Display the Kubernetes version running on the client and server.
- Example: `kubectl version`