Kubernetes Commands Cheat Sheet

Cluster Information

```
• kubectl version
• kubectl cluster-info
• kubectl get nodes
• kubectl describe node <name>
```

Get Resources

```
• kubectl get pods
• kubectl get pods -o wide
• kubectl get deployments
• kubectl get services
• kubectl get namespaces
• kubectl get all -n <namespace>
```

Create / Apply Resources

```
• kubectl apply -f <file.yaml>
• kubectl create -f <file.yaml>
• kubectl create deployment <name> --image=<img>
• kubectl expose deployment <name> --type=NodePort --port=<port>
```

Edit / Update Resources

```
• kubectl edit deployment <name>
• kubectl scale deployment <name> --replicas=<num>
• kubectl set image deployment/<name> <container>=<image>
```

Describe & Logs

```
• kubectl describe pod <name>
• kubectl logs <pod>
• kubectl logs -f <pod>
```

Exec Into Pod

```
• kubectl exec -it <pod> -- /bin/bash
• kubectl exec -it <pod> -- sh
```

Delete Resources

```
• kubectl delete pod <name>
• kubectl delete deployment <name>
• kubectl delete -f <file.yaml>
```

Namespaces

```
• kubectl get ns
• kubectl create ns <name>
• kubectl delete ns <name>
• kubectl config set-context --current --namespace=<ns>
```

Config & Context

```
• kubectl config view
• kubectl config current-context
• kubectl config use-context <context>
```

Port Forwarding

- kubectl port-forward <pod> 8080:80

Resource Debugging

- kubectl describe <resource> <name>
- kubectl get events --sort-by=.metadata.creationTimestamp

Apply / Diff

- kubectl diff -f <file.yaml>
- kubectl apply -f <file.yaml>

Rollouts

- kubectl rollout status deployment/<name>
- kubectl rollout history deployment/<name>
- kubectl rollout undo deployment/<name>

Node Operations

- kubectl cordon <node>
- kubectl drain <node>
- kubectl uncordon <node>

Autoscaling

- kubectl autoscale deployment <name> --min=2 --max=5 --cpu-percent=80

Apply Labels & Annotations

- kubectl label pods <pod> env=prod
- kubectl annotate pod <pod> desc='test pod'

Secrets

- kubectl create secret generic <name> --from-literal=key=value
- kubectl get secrets

ConfigMaps

- kubectl create configmap <name> --from-literal=key=value
- kubectl get configmaps