**🚀 Basic Commands**

| **Command** | **Description** |
| --- | --- |
| kubectl version | Show client and server version info. |
| kubectl cluster-info | Display cluster endpoint info. |
| kubectl config view | Show current kubeconfig settings. |
| kubectl get nodes | List all nodes in the cluster. |
| kubectl get pods | List all pods in the current namespace. |
| kubectl get svc | List all services in the current namespace. |

**📦 Pods & Deployments**

| **Command** | **Description** |
| --- | --- |
| kubectl get deployments | List all deployments. |
| kubectl describe pod <pod-name> | Detailed info about a specific pod. |
| kubectl logs <pod-name> | View logs for a pod. |
| kubectl exec -it <pod-name> -- /bin/bash | SSH into a pod (if bash is available). |
| kubectl delete pod <pod-name> | Delete a pod (it will be recreated if part of a deployment). |

**⚙️ Creating & Managing Resources**

| **Command** | **Description** |
| --- | --- |
| kubectl apply -f <file.yaml> | Apply a configuration file (create/update). |
| kubectl create -f <file.yaml> | Create resource(s) from a YAML file. |
| kubectl delete -f <file.yaml> | Delete resource(s) defined in a YAML file. |
| kubectl scale deployment <name> --replicas=3 | Scale a deployment to 3 replicas. |
| kubectl rollout restart deployment <name> | Restart a deployment (handy after config changes). |

**🔎 Filtering & Namespaces**

| **Command** | **Description** |
| --- | --- |
| kubectl get all | Get all resources in the current namespace. |
| kubectl get pods --all-namespaces | List pods across all namespaces. |
| kubectl get pods -n <namespace> | List pods in a specific namespace. |
| kubectl config set-context --current --namespace=<name> | Set default namespace for current context. |

**🧰 Troubleshooting & Debugging**

| **Command** | **Description** |
| --- | --- |
| kubectl top pod | Show resource usage for pods (metrics-server required). |
| kubectl describe deployment <name> | Show details of a deployment (events, replica status). |
| kubectl get events | View recent cluster events (like pod failures). |
| kubectl port-forward pod/<pod-name> 8080:80 |  |