Kubernetes Commands & Usage

1. Basic Cluster Information

- Kubectl Cluster-info: Display information about the cluster.
- Kubectl version: Display version info

2. Working with Pods:

- Kubectl get pods: List all pods in all namespaces.
- Kubectl run <name> --name=<image>: Deploy a new pod with a given image.
- Kubectl describe pod <pod-name>: Describe a specific pod.
- Kubectl logs <pod-name>: Fetch the logs from a pod.
- Kubectl delete pod <pod-name>: Delete a specific pod.

3. Working with Nodes and Cluster:

- Kubectl get Nodes: List nodes in a Cluster.
- Kubectl describe node < node-name >: show details of a specific node.

4. Working with Deployments:

- Kubectl Create deployment <name>--image=<image>: Create a new deployment.
- Kubectl get deployment: list all deployment.
- Kubectl describe deployment <deployment-Name>: Describe a specific deployment.
- Kubectl scale deployment <deployment-Name>--replicas=<num>: scale up/down a deployment.

5. Working with Services:

- Kubectl expose deployment <name> --type =Load balancer -port=8080:
 Expose a Deployment as a service.
- Kubectl get services: List all service.
- Kubectl describe service <service-name>: Describe a specific service.

6. Config and Storage:

- Kubectl get Configmaps: List all Config maps.
- Kubectl Create Configmap <name> --from-file=<path>: Create a config map from a file.
- Kubectl get Secrets: List all secrets.
- Kubectl create secrets: Create a secrets.
- Kubectl get pv: list all persistent volumes.
- Kubectl get pvc: List all persistent volume claims.

7. Namespaces and Context:

- Kubectl get Namespaces: list all Namespaces.
- Kubectl Config get-contexts: show all contexts.
- Kubectl Config use-context <context-name>: Switch to a different context.

8. Monitoring & Logging:

- Kubectl top nodes: Display resource (Cpu/Memory/Storage) usage of nodes.
- Kubectl top pods: Display resource (Cpu/Memory/Storage) Usage of pods.

9. Working with Helm:

- Helm list: list release.
- Helm install < chart >: Install a helm chart.
- Helm uninstall < release-name>: uninstall a helm release.

