kubernetes

Working with Kubectl

➤ **K8s Command Line Tool-**

➤ What is kubectl?

➤ Kubect commands like -

  ➤ Kubectl get

  ➤ Kubectl describe

  ➤ Kubectl create

  ➤ Kubectl apply

  ➤ Kubectl delete

  ➤ Kubectl exec

➤ **<u>Kubectl Intro-</u>**

➤ Kubectl is command line tool for Kubernetes.

➤ Kubectl uses the K8s APIs internally to carryout the commands.

```
$ kubectl uncordon <node_name>
```

➤ **Kubectl get-**

➤ Kubectl get is used to get the objects, present in K8s Cluster

```
$ kubectl get <object_type> <object_name> -o
<output> —sort-by <JSONpath> —selector
<selector>
```

➤ -o — Set Output format YML/JSON

➤ - -sort-by — Sort Output using JSON path Expression

➤ - -Selector — Filter results by label

➤ **Kubectl describe-**

➤ You can get Detailed Information about any Kubernetes Object.

```
$ kubectl describe <object_type> <object_name>
```

➤ **Kubectl create-**

➤ You can create any K8s Object using Kubectl create.

➤ File descriptor must be YAML.

$ kubectl create -f <file_name>

➤ **<u>Kubectl apply-</u>**

➤ Kubectl apply is similar to Kubectl create.

➤ If user use kubectl apply on already existing object. It will modify the existing object, if possible.

```
$ kubectl apply –f <file_name>
```

➤ **Kubectl delete-**

➤ Kubectl delete, deletes the object from K8s Cluster.

```
$ kubectl delete <object_type> <object_name>
```

➤ **Kubectl exec-**

➤ Kubectl exec, used to run commands inside container.

➤ K8s resource must be running on which kubectl exec is being performed.

```
$ kubectl exec <pod_name> -c <conatiner_name>
```

HANDS-ON DEMONSTRATION

See you in next lecture ...