Lab 5.8 Namespaces

1. View all Namespaces in the cluster

**kubectl get namespaces**

**default** The default namespace for objects with no other namespace

**kube**-**system** The namespace for objects created by the Kubernetes system

**kube**-**public** This namespace is created automatically and is readable by all users (including those not authenticated). This namespace is mostly reserved for cluster usage.

**kube**-**node**-**lease** This namespace for the lease objects associated with each node which improves the performance of the node heartbeats as the cluster scales.

1. Get the Summary and detailed information about the namespace using:

**kubectl get namespaces default**

**kubectl describe namespaces default**

1. Create a namespace

**kubectl create namespace prod**

1. Get the list of Namespaces again

**kubectl get namespaces**

1. Create a new deployment in default namespace

**kubectl create deploy myapp --image=nginx**

1. Verify the namespace of the deployment

**kubectl get all**

**kubectl describe deployment myapp**

1. Create a deployment in prod namespace

**kubectl create deploy myapp --image=nginx -n prod**

1. Check the deployment in prod namespace

**Kubectl get deployments -n prod**

1. Delete tha Namespace

**kubectl delete namespaces prod**