Namespace (short name = ns):

namespace is a virtual cluster or logical partition within a cluster that provides a way to organize and isolate resources. It allows multiple teams or projects to share the same physical cluster while maintaining resource separation and access control.

# To create a namespace:

$ kubectl create namespace <namespace-name>

$ kubectl create ns my-bank

# To switch to a specific namespace: (make this as default type)

$ kubectl config set-context --current --namespace=<namespace-name>

# To list all namespaces:

$ kubectl get namespaces

# To get resources within a specific namespace:

$ kubectl get <resource-type> -n <namespace-name>

$ kubectl get deploy -n my-bank

$ kubectl get deploy --namespace my-bank

$ kubectl get all --namespace my-bank

# To delete a namespace and all associated resources:

$ kubectl delete namespace <namespace-name>

$ kubectl delete ns my-bank