Namespaces

Managing Namespaces

View the list of namespaces.

```
kubectl get namespaces
```

Define a new `engineering` namespace.

```
cat > namespace-engineering.yaml <<EOF
apiVersion: v1
kind: Namespace
metadata:
  name: engineering
  labels:
    dept: engineering
EOF
```

Create the new `engineering` namespace.

```
kubectl create -f namespace-engineering.yaml
```

View the detailed information about the new namespace.

```
kubectl describe namespaces engineering
```

Define a new `marketing` namespace.

```
cat > namespace-engineering.yaml <<EOF
apiVersion: v1
kind: Namespace
metadata:
  name: marketing
  labels:
    dept: marketing
EOF
```

Create the new `marketing` namespace.

```
kubectl create -f namespace-marketing.yaml
```

View the list of namespaces again.

```
kubectl get namespaces --show-labels
```

Using Namespaces

First, create an nginx deployment in the default namespace.

```
kubectl run nginx --image=nginx:1.13 --replicas=2
```

View all of the Pods in the default namespace.

```
kubectl get pods
```

View all of the Pods in the `kube-system` namespace by temporarily specifying the namespace as part of the request.

```
kubectl --namespace=kube-system get pods
```

Create a new `widgets` deployment in the `engineering` namespace.

```
kubectl run widgets --image=nginx:1.13 --namespace engineering --replicas=3
```

List the deployments and pods that exist in the `engineering` namespace.

```
kubectl get deployments --namespace engineering
kubectl describe deployment widgets --namespace engineering
kubectl get pods --namespace engineering
```

Create a new `website` deployment in the `marketing` namespace.

```
kubectl run website --image=nginx:1.13  --namespace marketing --replicas=5
```

List the deployments and pods that exist in the `marketing` namespace.

```
kubectl get deployments --namespace marketing
kubectl describe deployment website --namespace marketing
kubectl get pods --namespace marketing
```

List the deployments and pods that exist in the `default` namespace.

```
kubectl get deployments
kubectl get pods
```