

Working with Pods & Namespaces

1. Create a directory , login to the directory and perform the below.

2 . Create a YAML(pod.yaml) for Pod and name the Pod as mypod

```
apiVersion: v1
kind: Pod
metadata:
  name: mypod
  labels:
    app: nginx
spec:
  containers:
  - name: nginx-demo
    image: nginx:1.9.1
    ports:
    - containerPort: 80
```

Create a Pod

```
$ kubectl create -f configs/pod.yaml
```

Create a Namespace

```
$ kubectl create ns test
```

Create a Pod in a given Namespace

```
$ kubectl create -f pod.yaml -n test
```

List the Pods

```
$ kubectl get pods
```

List the Pods with additional detail

```
$ kubectl get pods -o wide
```

List the Pods in a given namespace

```
$ kubectl get pods -n test
```

Create a Multi-Container Pod YAML (multi-c-pod.yaml)

```
apiVersion: v1
kind: Pod
metadata:
  name: multicontainer
spec:
  volumes:
  - name: html
    emptyDir: {}
  containers:
  - name: con1
    image: nginx
    volumeMounts:
    - name: html
      mountPath: /usr/share/nginx/html
  - name: con2
    image: debian
    volumeMounts:
    - name: html
      mountPath: /html
    command: ["/bin/sh", "-c"]
    args:
```

```
- while true; do  
    date >> /html/index.html;  
    sleep 1;  
done
```

Deploy a Multi-Container Pod

```
$ kubectl apply -f configs/multi-c-pod.yaml
```

List the Pods

```
$ kubectl get pods
```

List the Pods with all namespaces

```
$ kubectl get pods --all-namespaces
```

Delete the Pods.

```
$ kubectl delete pod mypod -n test
```

```
kubectl delete pod --all
```

Working with Namespaces:

```
kubectl get namespace  
kubectl get ns  
kubectl delete ns namespacesnames
```