

**kubectl create commands**

```
// create a pod from image with deployment
kubectl run ubuntu --image=ubuntu
// create an object from a manifest
kubectl create -f nginx-pod.yaml
```

kubectl basic object commands

kubectl <command> <object>
 common commands are **get**, **describe**, **delete**
 common objects are **pod**, **service**, **deployment**

```
kubectl get pods -n=kube-system // list all pods
kubectl describe pod nginx // describe a pod
kubectl delete pod nginx // destroy a pod
```

kubectl troubleshooting commands

```
// get into the container running in pod nginx-hlb
kubectl exec -it nginx-hlb /bin/sh
// get logs of container running in pod nginx-hlb
kubectl logs -f nginx-hlb
```

kubectl deployment commands

```
// undo, pause & resume rolling updates
kubectl rollout [undo|pause|resume] deploy nginx
// scale replicaset to 3 pods
kubectl scale rs nginx --replicas=3
```

k8s object manifest

```
apiVersion: apps/v1
kind: Deployment // object type
metadata:
  name: my-nginx // name of the deployment
spec:
  replicas: 3 // no of pods in cluster
  selector:
    matchLabels:
      app: nginx // find matching labels to create cluster
  template:
    metadata:
      labels:
        app: nginx // labels used for matching
    spec:
      containers:
        - name: nginx-hlb
          image: nginx:1.7.9 // image name with tag
          ports:
            - containerPort: 80 // port to be exposed
```

