* To deploy a docker container by creating a POD.

$ kubectl run nginx –-image=nginx

* To get the list of pods

$ kubectl get pods

kubectl get pods -o wide

* To get details about pod

**kubectl describe pod webapp**

* **To delete pod**

**kubectl delete pod webapp**.

To create a pod definition yaml file:

$ kubectl run redis --image=redis123 --dry-run=client -o yaml > redis.yaml

$ kubectl create -f redis.yaml

* **To edit pod def**

kubectl edit pod redis

* To Create the replication controller
* $ kubectl create -f rc-definition.yaml
* To list all the replication controllers
* $ kubectl get replicationcontroller
* To list pods that are launch by the replication controller

$ kubectl get pods

* To Create the replicaset
* $ kubectl create -f replicaset-definition.yaml
* To list all the replicaset
* $ kubectl get replicaset
* To list pods that are launch by the replicaset

$ kubectl get pods

* There are multiple ways to scale replicaset
  + First way is to update the number of replicas in the replicaset-definition.yaml definition file. E.g replicas: 6 and then run

$ kubectl apply -f replicaset-definition.yaml

* Second way is to use **kubectl scale** command.

$ kubectl scale --replicas=6 -f replicaset-definition.yaml

* Third way is to use **kubectl scale** command with type and name

$ kubectl scale --replicas=6 replicaset myapp-replicaset

**Create an NGINX Pod**

kubectl run nginx --image=nginx

**Generate POD Manifest YAML file (-o yaml). Don't create it(--dry-run)**

kubectl run nginx --image=nginx --dry-run=client -o yaml

**Create a deployment**

kubectl create deployment --image=nginx nginx

**Generate Deployment YAML file (-o yaml). Don't create it(--dry-run)**

kubectl create deployment --image=nginx nginx --dry-run=client -o yaml

**Generate Deployment YAML file (-o yaml). Don't create it(--dry-run) with 4 Replicas (--replicas=4)**

kubectl create deployment --image=nginx nginx --dry-run=client -o yaml > nginx-deployment.yaml

**Save it to a file, make necessary changes to the file (for example, adding more replicas) and then create the deployment.**

kubectl create -f nginx-deployment.yaml

**OR**

**In k8s version 1.19+, we can specify the --replicas option to create a deployment with 4 replicas.**

kubectl create deployment --image=nginx nginx --replicas=4 --dry-run=client -o yaml > nginx-deployment.yaml