Lab 4.3 Working with Replicaset

1. Create the replicaset-definition.yml file for creating the ReplicaSet.
2. Create a new Replicaset

**kubectl create -f replicaset-definition.yml**

1. Validate if the creation of replicaset has been successful

**kubectl get replicaset**

1. Get more details of the replicaset by running the command

**kubectl describe replicaset**

1. Get the information about 3 pods that are running as a part of the replicaset

**kubectl get pods**

1. Delete one of the pods and observe the behavior

**kubectl delete pod <podName>**

**kubectl get pods**

1. Create a new pod with the same label as specified in the replicaset definition file and observe the behavior

**kubectl delete pod myapp-pod**

Notice that a new pod is started automatically

1. **kubectl create -f pod-definition.yml** (Make sure that the labels are matching)

**kubectl get pods**

OR

**kubectl run mynewpod --image=nginx -l app=myapp**

1. Have a look at the Events in the replicaset

**kubectl describe replicaset**

1. Observe the IP address of each pod in the replicaset

**kubectl get pods -o wide**

1. Update the replicaset-definition.yml and scale up the repliset to have 6 replicas. Update the file and run the command:

**kubectl replace -f replicaset-definition.yml**

1. Validate the changes to the replicaset

**kubectl get replicaset**

1. Validate the pods running

**kubectl get pods**

1. Have a look at the events in replicaset

**kubectl describe replicaset**

1. Now, Scale down the replicaset without changing the YAML file. Bring it back to 3 replicas

**kubectl scale --replicas=3 –f replicaset-definition.yml**

1. Validate all the changes

**kubectl get replicaset**

**kubectl get pods**

**kubectl describe replicaset**

1. Delete the replicaset

**kubectl get replicaset**

**kubectl delete replicaset myapp-replicaset**

**kubectl get replicaset**

**kubectl get pods**