Module 3: Kubernetes Controllers

MCQ Scenarios

Module – 3

[Scenario - 1]

Consider a replica set rs deployed in the cluster. Label selector for the pods in rs is "*role=web*" and replica count is set to “3”. Following are the pods and state of the rs in the system

```
[kube-user@kube-master1 rs]# kubectl get rs
NAME              DESIRED   CURRENT   READY   AGE
myweb             3         3         3       2m30s

[kube-user@kube-master1 rs]# kubectl get pods -o wide
NAME                    READY   STATUS    RESTARTS   AGE
myweb-4g897             1/1     Running   0          10s
myweb-k5sn6             1/1     Running   0          10s
myweb-x7wl4             1/1     Running   0          10s
```

[Scenario - 2]

Consider the following pod definition file:

```
-----------------------------------------------
apiVersion: v1
kind: Pod
metadata:
    name: newpod
    labels:
       role: web
spec:
    containers:
    - name: newpod
      image: nginx
-----------------------------------------------
```

[Scenario - 3]

Consider a deployment nginx-deployment with following pods in the system, label selector for the pods in deployment is "*role=web*" and replica count is set to “4”.

Following is the yaml for creating the deployment:

```
-------------------------------------------
# fille: nginx-deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  labels:
    role: web
spec:
  replicas: 4
  selector:
    matchLabels:
      role: web
    template:
      metadata:
        labels:
          role: web
      spec:
        containers:
        - name: nginx-app
          image: nginx
          ports:
          - containerPort: 80
-------------------------------------------
```

Following are the pods and state of the deployment in the system

```
[kube-user@kube-master1 deployment]# kubectl get deployment
NAME               DESIRED   CURRENT   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment    4         4          4            4          22s

[kube-user@kube-master1 deployment]# kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-64bcf49956-6hb4z   1/1     Running   0          47s
nginx-deployment-64bcf49956-7t4mc   1/1     Running   0          50s
nginx-deployment-64bcf49956-c2p4b   1/1     Running   0          50s
nginx-deployment-64bcf49956-gwmhj   1/1     Running   0          47s
```