Step 1 - Creating a Pod with Readiness Probes

Create a YAML File for a Deployment containing 5 replicas

vi liveness-probe.yaml

```
apiVersion: v1
kind: Pod
metadata:
  name: my-readiness-pod
spec:
  containers:
  - name: myapp-container
    image: nginx
    readinessProbe:
      httpGet:
        path: /
        port: 30000
      initialDelaySeconds: 5
      periodSeconds: 5
```

kubectl create -f liveness-probe.yaml

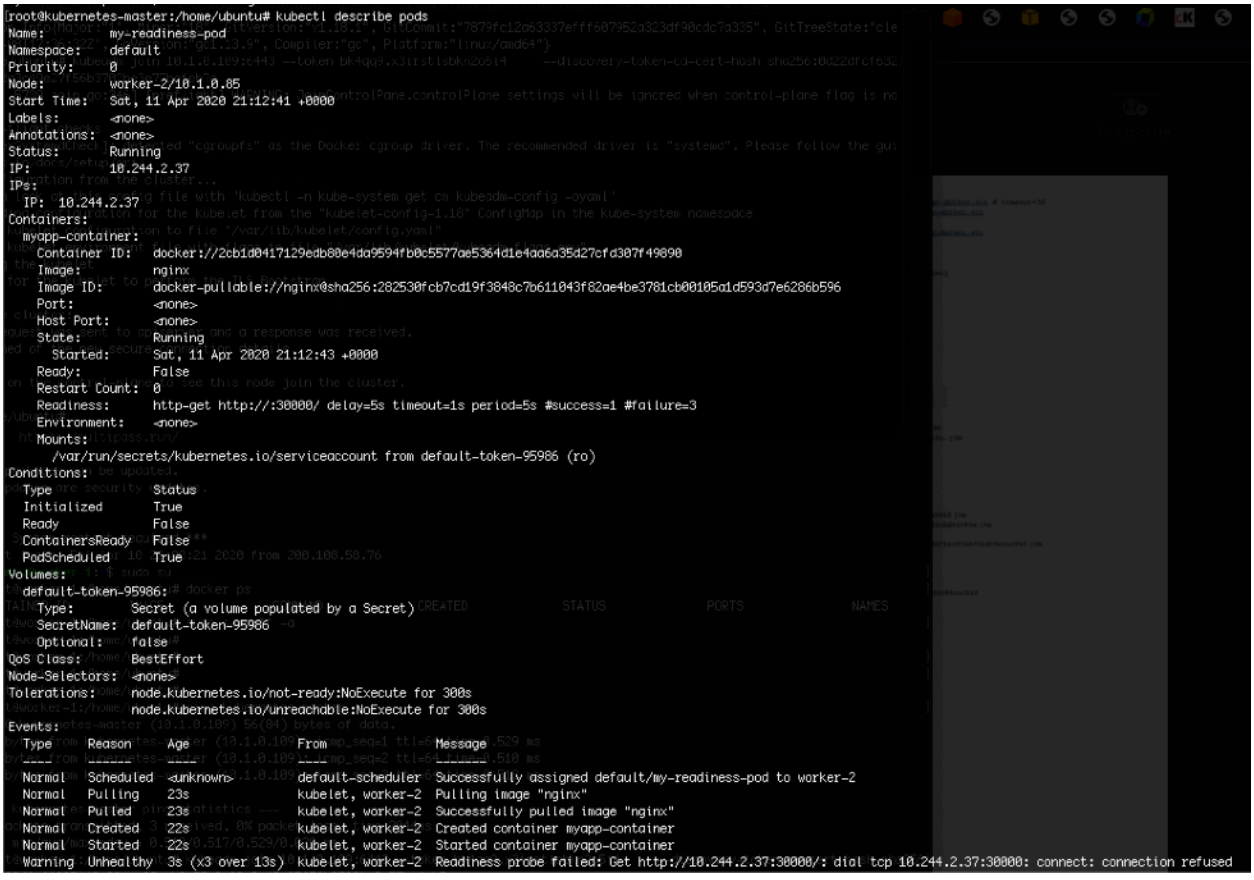
```
root@kubernetes-master:/home/ubuntu# vi liveness-probe.yaml
root@kubernetes-master:/home/ubuntu# kubectl create -f liveness-probe.yaml
pod/my-readiness-pod created
```

Valide if Pod is running correctly

Kubectl get pods

```
root@kubernetes-master:/home/ubuntu# kubectl get pods
NAME               READY   STATUS    RESTARTS   AGE
my-readiness-pod   0/1     Running   0          11s
root@kubernetes-master:/home/ubuntu# kubectl get pods
NAME               READY   STATUS    RESTARTS   AGE
my-readiness-pod   0/1     Running   0          14s
```

kubectl describe pods



Do you see the error?

Look for this warning

Warning Unhealthy 2s (x4 over 17s) kubelet, worker-2 Readiness probe failed: Get http://10.244.2.37:30000/: dial tcp 10.244.2.37:30000: connect: connection refused

Step 2 - Modify Readiness Probes

kubectl delete pod my-readiness-pod

```
root@kubernetes-master:/home/ubuntu# kubectl delete pod my-readiness-pod
pod "my-readiness-pod" deleted
```

Modify YAML File as follows

vi liveness-probe.yaml

```
apiVersion: v1
kind: Pod
metadata:
  name: my-readiness-pod
spec:
  containers:
  - name: myapp-container
    image: nginx
    readinessProbe:
      httpGet:
        path: /
        port: 80
      initialDelaySeconds: 5
      periodSeconds: 5
```

Create Pod again

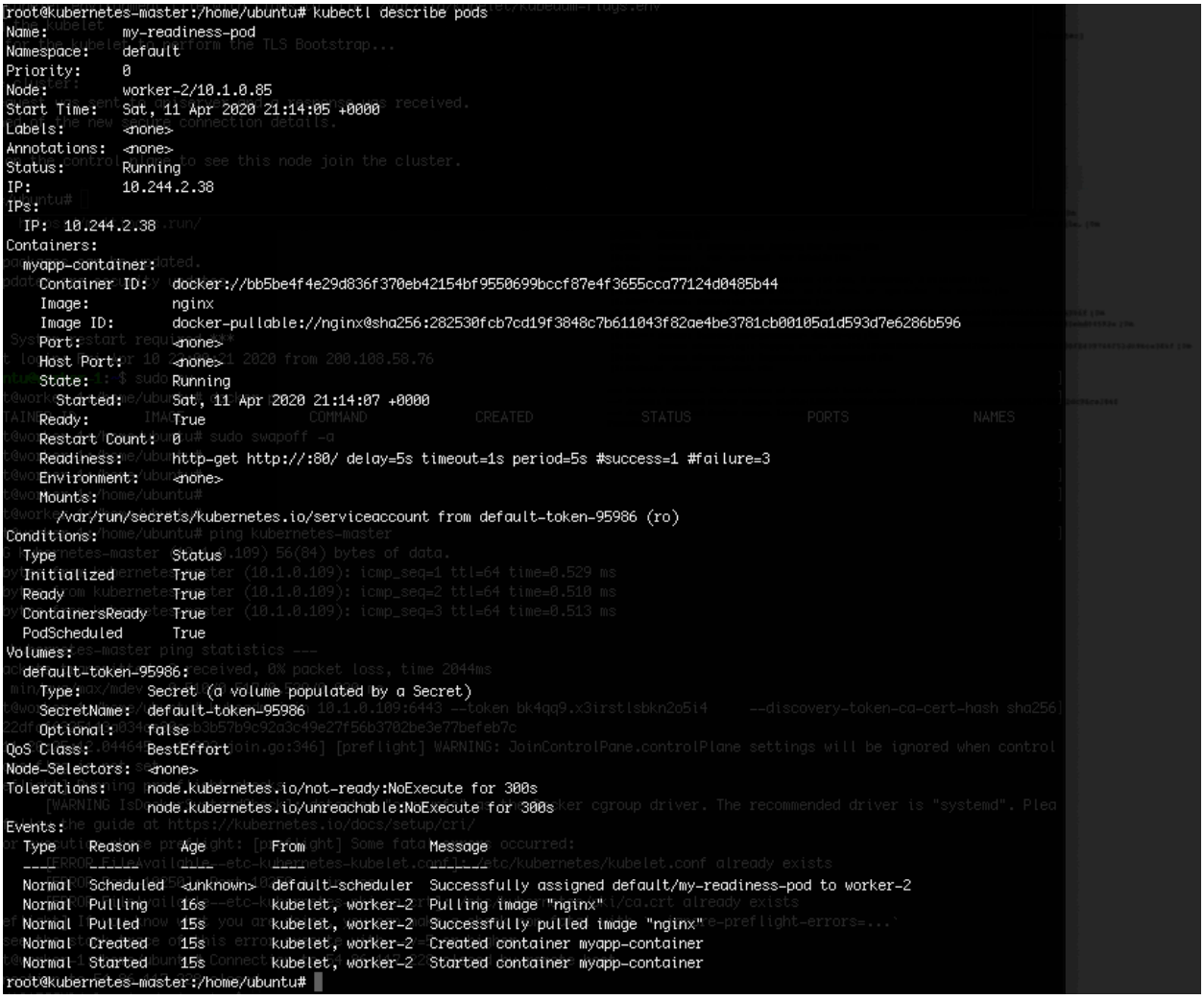
kubectl create -f liveness-probe.yaml

Validate if pod is running correctly

```
root@kubernetes-master:/home/ubuntu# kubectl create -f liveness-probe.yaml
pod/my-readiness-pod created
root@kubernetes-master:/home/ubuntu# kubectl get pods
NAME              READY   STATUS    RESTARTS   AGE
my-readiness-pod  0/1     Running   0          5s
root@kubernetes-master:/home/ubuntu# kubectl get pods
NAME              READY   STATUS    RESTARTS   AGE
my-readiness-pod  0/1     Running   0          6s
root@kubernetes-master:/home/ubuntu# kubectl get pods
NAME              READY   STATUS    RESTARTS   AGE
my-readiness-pod  0/1     Running   0          8s
root@kubernetes-master:/home/ubuntu# kubectl get pods
NAME              READY   STATUS    RESTARTS   AGE
my-readiness-pod  1/1     Running   0          9s
```

Look deeper inside the Pod why is running correctly

kubectl describe pods



Step 3 - Delete the Pod

kubectl delete pod my-readiness-pod