

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: /

initialDelaySeconds: 5
periodSeconds: 5

port: 30000

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

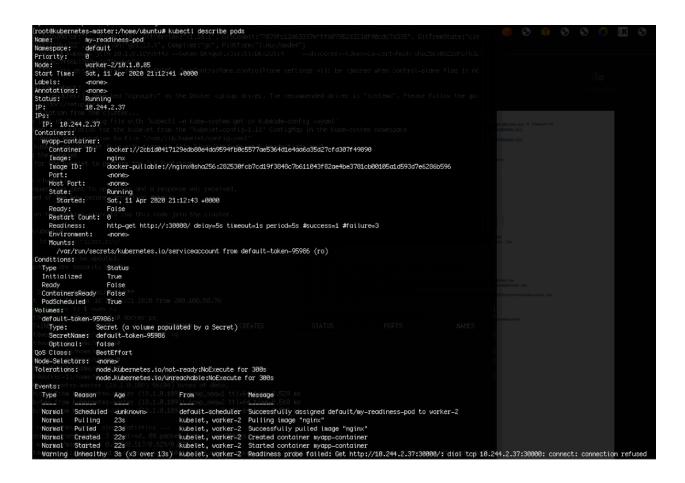
Valide if Pod is running correctly

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 STATUS FRORESTARTS NAMEJin: Fri Apr 10 READY :2 my_readiness_pod Ud 0/1 Running 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 8 1 8 189): icmp_seq=3 ttl=64 time=8 513 ms

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: 5periodSeconds: 5

Create Pod again

kubectl create -f liveness-probe.yaml

Validate if pod is running correctly



Look deeper inside the Pod why is running correctly

kubectl describe pods

```
root@kubernetes-master:/home/ubuntu# kubectl describe pods
              my_readiness-pod
Namespace:
             default
Priority:
Node: worker-2/10.1.0.85
Start Time: Sat, 11 Apr 2020 21:14:05 +0000
Labels:
              <none>
Annotations: ⊲none>
IP:
              10.244.2.38
IPs:
  IP: 10.244.2.38
Containers:
  myapp-container:
    Container ID: //docker://bb5be4f4e29d836f370eb42154bf9550699bccf87e4f3655cca77124d0485b44
    Image:
    Image ID:
                    docker-pullable://nginx@sha256:282530fcb7cd19f3848c7b611043f82ae4be3781cb00105a1d593d7e6286b596
    Host Port:
                    ⊲none>
    State:
                    Rühning
     Started:
                    Sat, 11 Apr 2020 21:14:07 +0000
    Ready:
                    True
    Restart Count: 0
    Readiness:
                    #http-get http://:80/ delay=5s timeout=1s period=5s #success=1 #failure=3
      /var/rum/secrets/kubernetes.io/serviceaccount from default-token-95986 (ro)
Conditions:
  Type Initialized
                    Status
                    True
  Ready
                    True
  ContainersReady
  PodScheduled
Volumes:
  default-token-95986:
              Secret (a volume populated by a Secret)
   ¹/Type′:⊓ax
   SecretName: default-token-95986
    Optional: 34 false
QoS Class:
                 BestEffort
Node-Selectors: ⊲none>
                 node.kubernetes.io/not-ready:NoExecute for 300s
                node.kubernetes.io/unreachable:NoExecute for 300s
Events:
         Reason Prage g
                              PFrom
                                                   Message
  Type
  Normal Scheduled Aunknown default-scheduler Successfully assigned default/my-readiness-pod to worker-2
                           ett-klubelet, worker-2 "Pulling image "nginx" //ca.crt dir
// arkubelet, worker-2 ||Successfully pulled image "nginx"
  Normal Pulling 116s
  Normal I Putted
                     15s )
                            kubelet, worker-2 Created container myapp-container
  Normal Created
                     15s
  Normal Started
                   un 15s
 oot@kubernetes-master:/home/ubuntu# 🚪
```

Step 3 - Delete the Pod

kubectl delete pod my-readiness-pod

[root@kubernetes-master:/home/ubuntu#-kubectl[|]|delete| pod my=readiness-pod |pod="my=readiness=pod="deleted=tion to_54.86.117.228 closed by remote host.