

Creating TCP Probe

Creating a nginx pod with tcp liveness probe.

```
vim liveness-tcp-pod.yaml
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
  name: liveness-tcp
```

```
  labels:
```

```
    app: livess-pro
```

```
spec:
```

```
  containers:
```

```
  - name: echo-server
```

```
    image: hashicorp/http-echo:0.2.3
```

```
    args: ["-listen", ":8080", "-text", "example for tcp liveness probe"]
```

```
    ports:
```

```
      - containerPort: 8080
```

```
    livenessProbe:
```

```
      tcpSocket:
```

```
        port: 8080
```

```
      initialDelaySeconds: 10
```

```
      periodSeconds: 5
```

```
      timeoutSeconds: 1
```

```
kubectl apply -f liveness-tcp-pod.yaml
```

```
kubectl get pods liveness-tcp
```

Demo of failing :

```
vim pods liveness-fail-tcp
```

```
apiVersion: v1
```

```
kind: Pod
```

```
metadata:
```

```
  name: liveness-fail-tcp
```

```
  labels:
```

```
    app: liveness-probe-example
```

```
spec:
```

```
  containers:
```

```
  - name: echo-server
```

```
    image: hashicorp/http-echo:0.2.3
```

```
    args: ["-listen", ":8080", "-text", "fail example for tcp liveness probe"]
```

```
    ports:
```

```
      - containerPort: 8080
```

```
  livenessProbe:
```

```
    tcpSocket:
```

```
      port: 8090
```

```
    initialDelaySeconds: 10 #Second after which probe will start checking
```

```
    periodSeconds: 5 # How often to perform the probe
```

```
    timeoutSeconds: 1 # timeout for probe.
```

```
    failureThreshold: 2 #Number of time, before pod will be restarted
```

```
kubectl apply -f pods liveness-fail-tcp.yaml
```

```
kubectl get pods liveness*
```

Observe the restarts and you would observe it is failing

```
kubectl get pods liveness-fail-tcp -w
```

