CKA/CKAD : Complete Certification Guide

Liveness Probe YAML Overview

certified

kubernetes

Liveness Probe Types

```
HTTP
```

```
livenessProbe:
 httpGet:
   path: /healthz
   port: 8080
   httpHeaders:
   - name: Custom-Header
     value: Awesome
 initialDelaySeconds: 3
 periodSeconds: 3
```

STATUS : 2xx/3xx

```
TCP
```

```
livenessProbe:
 tcpSocket:
   port: 8080
 initialDelaySeconds: 15
 periodSeconds: 20
```
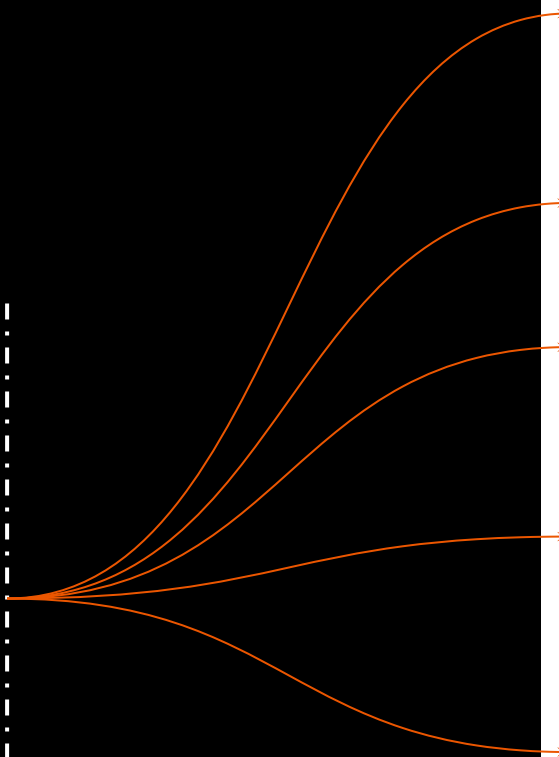
STATUS : Connection Checking

```
CMD
```

```
livenessProbe:
 exec:
  command:
   - cat
   - /tmp/healthy
 initialDelaySeconds: 5
 periodSeconds: 5
```

EXIT Status 0

```
apiVersion: v1
kind: Pod
metadata:
  name: liveness-http
spec:
  containers:
  - name: liveness
    image: k8s.gcr.io/liveness
    livenessProbe:
      httpGet:
        path: /healthz
        port: 8080
        httpHeaders:
        - name: Custom-Header
          value: Awesome
      initialDelaySeconds: 3
      periodSeconds: 3
      failureThreshold: 1
      timeoutSeconds: 5
      successThreshold : 2
```

initialDelaySeconds : Number of seconds after the container has started before liveness or readiness probes are initiated.

periodSeconds : How often (in seconds) to perform the probe.

timeoutSeconds : Number of seconds after which the probe times out.

successThreshold : Minimum consecutive successes for the probe to be considered successful after having failed.

failureThreshold : Minimum consecutive failures for the probe before giving up.

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: liveness-cmd
spec:
  containers:
  - name: liveness
    image: k8s.gcr.io/liveness
    args:
    - /bin/sh
    - -c
    - touch /tmp/healthy; sleep 30; rm -rf /tmp/healthy; sleep 600
    livenessProbe:
      exec:
        command:
        - cat
        - /tmp/healthy
      initialDelaySeconds: 3
      periodSeconds: 3
      failureThreshold: 1
      timeoutSeconds: 5
      successThreshold : 2
```

initialDelaySeconds : Number of seconds after the container has started before liveness or readiness probes are initiated.

periodSeconds : How often (in seconds) to perform the probe.

timeoutSeconds : Number of seconds after which the probe times out.

successThreshold : Minimum consecutive successes for the probe to be considered successful after having failed.

failureThreshold : Minimum consecutive failures for the probe before giving up.

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: liveness-tcp
spec:
  containers:
  - name: goproxy
    image: k8s.gcr.io/goproxy:0.1
    ports:
    - containerPort: 8080
    livenessProbe:
      tcpSocket:
        port: 8080
      initialDelaySeconds: 3
      periodSeconds: 3
      failureThreshold: 1
      timeoutSeconds: 5
      successThreshold : 2
```

initialDelaySeconds : Number of seconds after the container has started before liveness or readiness probes are initiated.

periodSeconds : How often (in seconds) to perform the probe.

timeoutSeconds : Number of seconds after which the probe times out.

successThreshold : Minimum consecutive successes for the probe to be considered successful after having failed.

failureThreshold : Minimum consecutive failures for the probe before giving up.

Thank You...

Don't be the Same! Be Better!!!

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