DATE : 08.11.2023

DT/NT : DT

LESSON : DEVOPS

SUBJECT : KUBERNETES
(Probes)

BATCH : B 149

AWS-DEVOPS

techproeducation.com

+1 (585) 304 29 59

Probes

Probes

❖ In Kubernetes, a "probe" is a diagnostic performed periodically by the kubelet on a Container to determine its health.

❖ Kubernetes uses probes to decide how to manage Containers, such as when to restart them or not to send traffic to them if they are not responding.

Types of Probes

- Readiness Probes
- Liveness Probes
- Startup Probes

Readiness Probes

❖ Readiness probes are designed to let Kubernetes know when your app is ready to serve traffic.

❖ Kubernetes makes sure the readiness probe passes before allowing a service to send traffic to the pod.

❖ If a readiness probe starts to fail, Kubernetes stops sending traffic to the pod until it passes.

Liveness Probes

- Liveness probes let Kubernetes know if your app is alive or dead. If your app is alive, then

- Kubernetes leaves it alone. If your app is dead, Kubernetes removes the Pod and starts a new one to replace it.

Startup Probes

❖ Startup probes are designed to let Kubernetes know if your app has started successfully.

❖ Kubernetes uses the startup probe to know when to begin liveness and readiness checks. It prevents the pod from being killed before it's up and running.

❖ If the startup probe does not succeed within a specified time, Kubernetes restarts the Pod to try again, according to the specified restart policy.

TECHPRO
EDUCATION

Probes can be configured to perform checks in three different ways:

HTTP GET: The probe sends an HTTP GET request to the container.

TCP Socket: The probe attempts to open a TCP connection to the container.

Exec: The probe executes a command inside the container and checks the exit status of the command.
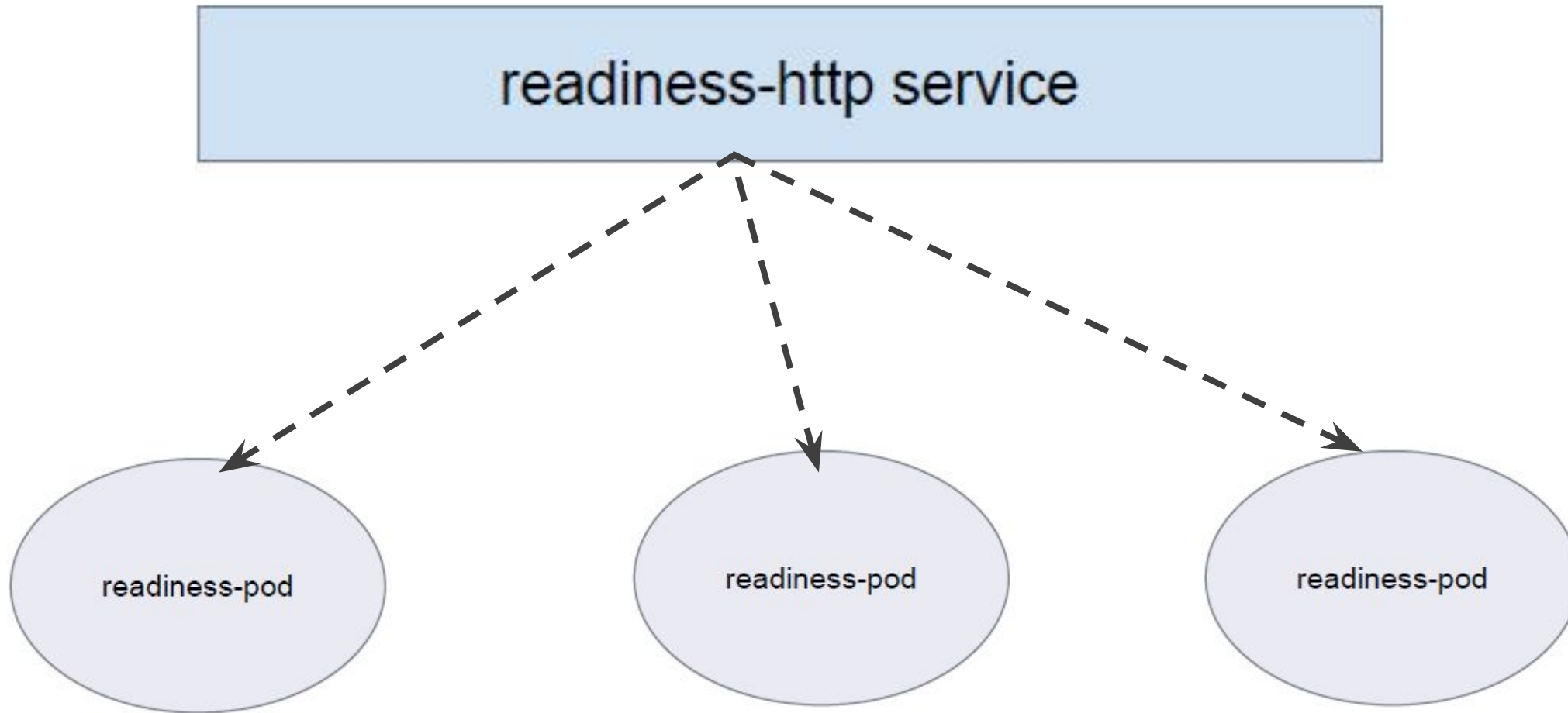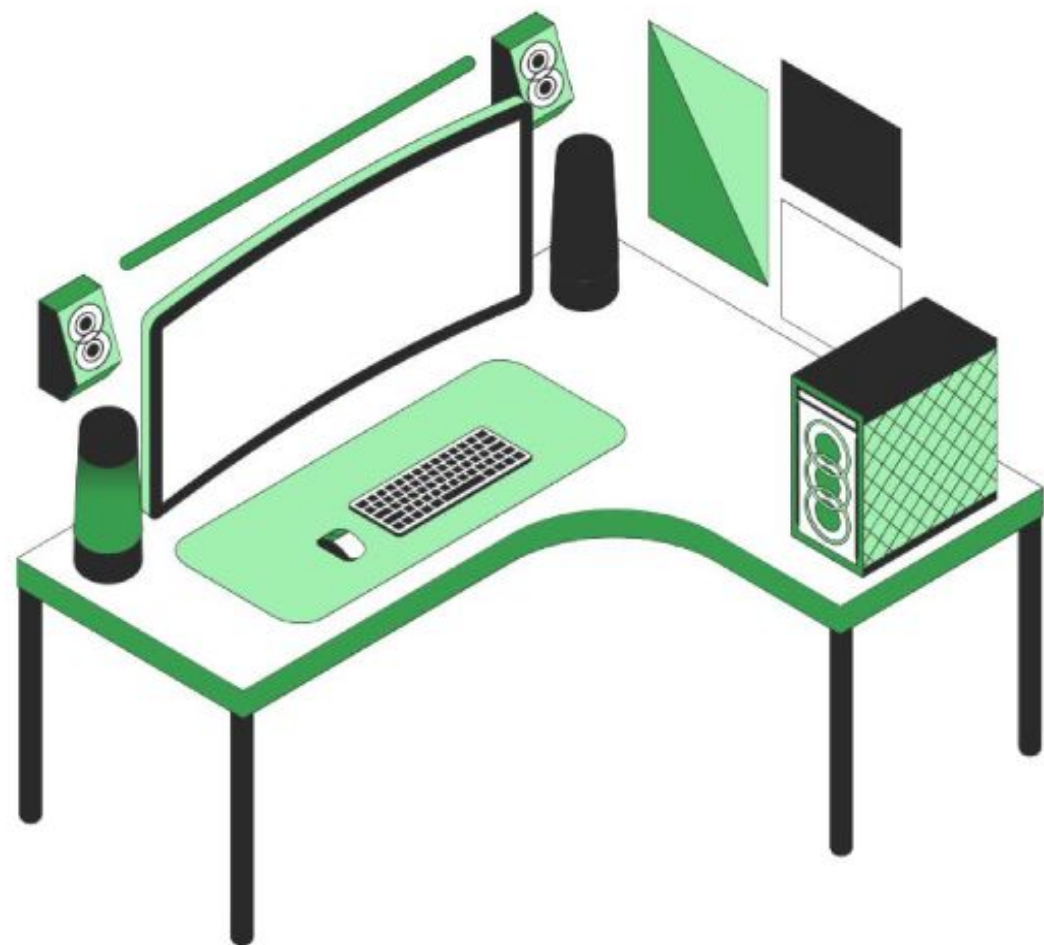
readinessProbe

readiness-http service

readiness-pod

readiness-pod

readiness-pod

readinessProbe

Do you have any questions?

Send it to us! We hope you learned something new.

TECHPRO EDUCATION