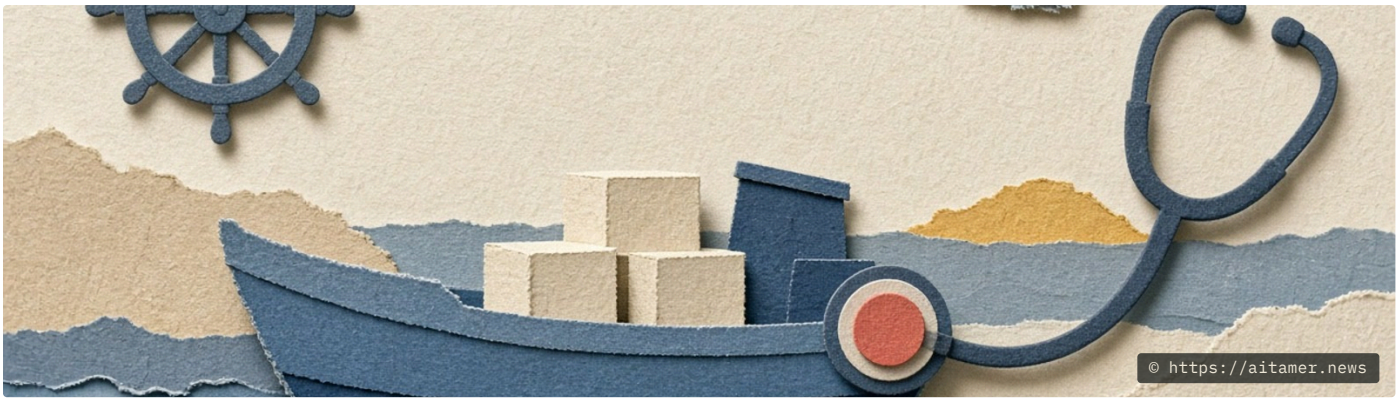


KUBERNETES FROM ZERO · FOUNDATIONS 10 OF 12 · LESSON 10 · LESSON KIT · HOMEWORK

Kubernetes from Zero, part 10: probes and graceful shutdown

Exercises drawn only from the lesson: recall, run this and explain, predict the outcome.

Ran every probe and shutdown example on kind v0.33.0, node v1.37.0, kubectl v1.37.2, 10 Nov 2026. Cluster: k8s-ep10.

Use the kind cluster and the namespace `k8s-from-zero` from part 4. The lesson's cluster is `k8s-ep10`. Answers are in the separate answer key.

Recall

Answer from memory, then check the lesson.

1. What does each of the three probes decide?

2. Does a failing readiness probe restart the Pod?

3. In what order does a delete run, and when does the clock start?

4. What are the default `periodSeconds`, `timeoutSeconds` and `failureThreshold`?

Predict the outcome

These are the failures the lesson caused.

5. A readiness probe points at port 8080, where nginx does not listen. What does rollout status print, and which Pods keep serving?

SCAN FOR THE LESSON

Lesson: **Kubernetes from Zero, part 10: probes and graceful shutdown**

https://aitamer.news/posts/k8s-from-zero-10-probes-and-graceful-shutdown/?utm_source=lessonkit&utm_medium=pdf&utm_campaign=k8s-10&utm_content=homework

NEXT IN THE SERIES **Next: Lesson 11, requests, limits and QoS**. Requests, limits and QoS, where you give each container a CPU and memory budget and watch what happens when it goes over. Lesson page

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6 RESTARTS climbs and events say `failed liveness probe, will be restarted`. What two causes does the lesson name, and where do dependency checks belong?

7 Every delete takes 30 seconds. What is the process doing, and what does the lesson say about wrapper scripts?

8 A preStop hook needs 55 seconds and the app needs 10, with a 60-second grace period. What happens?

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