

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

Kubernetes from Zero, part 12: checkpoint lab 1, a two-tier app on kind

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

Built, broke and graded the full solution on kind v0.33.0, node v1.37.0, kubectl v1.37.2, 10 Nov 2026. Cluster: kind, from part 3.

The lab is 45 minutes, from an empty namespace, on the kind cluster from part 3. Task 1 creates `k8s-from-zero`. Try the tasks before you read the solutions. Answers are in the separate answer key.

Recall

Answer from memory, then check the lesson.

1. What did the lab build, in the recap's list?

2. How do you make the redis Pod Guaranteed, and how do you check?

3. Why did the counter vanish when Redis restarted?

Predict the outcome

These are the failures recorded in the lesson.

4. You apply `redis.yaml` before the Secret. What status and error does the lesson show, and what fixes it?

5. `/cgi-bin/hits` returns 404 and `index.html` works. What was missing, and why is the Pod still ready?

SCAN FOR THE LESSON

Lesson: **Kubernetes from Zero, part 12: checkpoint lab 1, a two-tier app on kind**

https://aitamer.news/posts/k8s-from-zero-12-checkpoint-lab-1/?utm_source=lessonkit&utm_medium=pdf&utm_campaign=k8s-12&utm_content=homework

NEXT IN THE SERIES **Next: Lesson 13, volumes, PersistentVolumes and StorageClasses.** Volumes, PersistentVolumes and StorageClasses, the start of arc 2, where your Pods get storage that outlives them. Lesson page

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6 A client wget prints `bad address 'web'`. What three things does the lesson tell you to check?

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