

KUBERNETES FROM ZERO · WORKLOADS & TROUBLESHOOTING 1 OF 14 · LESSON 13 · LESSON KIT · HOMEWORK

Kubernetes from Zero, part 13: Volumes, PersistentVolumes, claims and StorageClasses

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

Every command ran on a three-node kind v0.33.0 cluster (node v1.37.0, kubectl v1.37.2) on 10 Nov 2026. Cluster: k8s-ep13.

Use the three-node kind cluster from part 3 and the namespace `k8s-from-zero`. The lesson's cluster is `k8s-ep13`, so node names on yours will differ. Answers are in the separate answer key.

Recall

Answer from memory, then check the lesson.

1. What happens to an emptyDir when the Pod is deleted?

2. Which object does a Pod name, and which object is cluster-scoped?

3. What do RWO, RWX and RWOP mean in the lesson, and which ones does kind's local-path driver support?

4. What do the two reclaim policies do?

Predict the outcome

Write your prediction first. Then check the answer key.

5. A new claim stays Pending and no Pod uses it yet. The class uses WaitForFirstConsumer. Is that a failure?

SCAN FOR THE LESSON

Lesson: **Kubernetes from Zero, part 13: Volumes, PersistentVolumes, claims and StorageClasses**

https://aitamer.news/posts/k8s-from-zero-13-volumes-pv-pvc-storageclass/?utm_source=lessonkit&utm_medium=pdf&utm_campaign=k8s-13&utm_content=homework

NEXT IN THE SERIES **Next: Lesson 14, StatefulSets**. Kubernetes from Zero, part 14, StatefulSets. Lesson page

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6 You ask kind for ReadWriteMany. What stays Pending, and where is the error?

7 A claim with `storageClassName: fast` stays Pending. What is missing?

8 You delete a claim and the data is still there. What policy did the volume have?

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