

KUBERNETES FROM ZERO · FOUNDATIONS 9 OF 12 · LESSON 9 · LESSON KIT · HOMEWORK

Kubernetes from Zero, part 9: ConfigMaps and Secrets

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

Every command ran on a kind v0.33.0 cluster (node v1.37.0, kubectl v1.37.2) on 10 Nov 2026. Cluster: k8s-ep07.

Use the kind cluster from part 3 and the namespace `k8s-from-zero` as your context namespace. The lesson does not print a cluster name. A Pod and its ConfigMap or Secret must be in the same namespace. Answers are in the separate answer key.

Recall

Answer from memory, then check the lesson.

1. Which ways of injecting a setting update a running container, and which stay fixed?

2. What is a Secret on the API, and what is it not?

3. What does `immutable: true` force you to do when a value must change?

4. What is the size limit, and what happens if the Pod and the ConfigMap are in different namespaces?

Run this and explain

Run each command, then answer.

5. Create a Secret with `--from-literal` and read `.data.password` through jsonpath and `base64 -d`. What do you get back?

SCAN FOR THE LESSON

Lesson: **Kubernetes from Zero, part 9: ConfigMaps and Secrets**

https://aitamer.news/posts/k8s-from-zero-09-configmaps-and-secrets/?utm_source=lessonkit&utm_medium=pdf&utm_campaign=k8s-09&utm_content=homework

NEXT IN THE SERIES **Next: Lesson 10, probes and graceful shutdown**. Kubernetes from Zero, part 10, Probes and graceful shutdown. Lesson page

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6 Change a ConfigMap that a Deployment reads as an environment variable. The app still shows the old value. What command does the lesson give?

Predict the outcome

Write your prediction first. Then check the answer key.

7 A Pod stays in `CreateContainerConfigError` and describe ends with `configmap "app-confg" not found`. What caused it in the lesson, and what retries?

8 Logins fail with a password that looks right. How did the lesson say the newline got into `data`?

9 A Secret value is in Git or in `last-applied-configuration`. What do you do first?

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