

KUBERNETES FROM ZERO · FOUNDATIONS 8 OF 12 · LESSON 8 · LESSON KIT · HOMEWORK

Kubernetes from Zero, part 8: Services

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's node is `k8s-ep07-control-plane`. The lab used kube-proxy in nftables mode, for the reason in When it goes wrong. Answers are in the separate answer key.

Recall

Answer from memory, then check the lesson.

1. What does a Service give a set of Pods, and what picks the Pods?

2. What do EndpointSlices hold, and who sends each connection?

3. Name the five Service forms in the cheat sheet and one fact about each.

Run this and explain

Run each command, then answer.

4. Expose the Deployment and run `kubectl get svc -o wide`. Which extra column does `-o wide` add?

5. Run `kubectl get endpointslices -l kubernetes.io/service-name=web`. Which Pods are listed?

SCAN FOR THE LESSON

Lesson: **Kubernetes from Zero, part 8: Services**

https://aitamer.news/posts/k8s-from-zero-08-services/?utm_source=lessonkit&utm_medium=pdf&utm_campaign=k8s-08&utm_content=homework

NEXT IN THE SERIES **Next: Lesson 9, ConfigMaps and Secrets**. Kubernetes from Zero, part 9, ConfigMaps and Secrets. Series page

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6 From the client Pod, fetch `http://web` and `http://web.k8s-from-zero`. When does each name work?

Predict the outcome

Write your prediction first. Then check the answer key.

7 wget says connection refused and `kubectl describe service` shows an empty Endpoints line. What did the lesson cause this with?

8 Endpoints list Pod IPs, but connections are still refused. What did the lesson expose the Deployment with?

9 A LoadBalancer Service stays `EXTERNAL-IP` pending. What does the lesson say to use on kind?

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