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Optimize Costs for Google Kubernetes Engine

🏠 Course overview

Optimize Costs for Google Kubernetes Engine ^

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🎧

Understanding your GKE Costs

✓

🎧

Monitoring your GKE costs

✓

🔗

Managing a GKE Multi-tenant Cluster with Namespaces

✓

🎧

Virtual machines in GKE

✓

🔗

Exploring Cost-optimization for GKE Virtual Machines

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Autoscaling with GKE

Course

Optimize Costs for Google Kubernetes Engine

✦

Kubernetes

Cloud Architecture

GKE

These skills were generated by A.I. Do you agree this course teaches these skills?

👍

🗨️

📅 7 hours 45 minutes

✓ Intermediate

🎥 25 Credits

+500 pts

Complete the intermediate **Optimize Costs for Google Kubernetes Engine** skill badge to demonstrate skills in the following: creating and managing multi-tenant clusters, monitoring resource usage by namespace, configuring cluster and pod autoscaling for efficiency, setting up load balancing for optimal resource distribution, and implementing liveness and readiness probes to ensure application health and cost-effectiveness.

A skill badge is an exclusive digital badge issued by Google Cloud in recognition of your proficiency with Google Cloud products and services and tests your ability to apply your knowledge in an interactive hands-on environment. Complete this skill badge course and the final assessment challenge lab to receive a skill badge that you can share with your network.

✓ Course complete



Optimize Costs for Google Kubernetes Engine ▾

7/7 Videos

5/5 Labs

🕒 Completed

✓

Video

Understanding your GKE Costs 5 minutes

[Understanding your GKE Costs](#) 5 minutes



Video

[Monitoring your GKE costs](#) 7 minutes

REQUIRED



Lab

[Managing a GKE Multi-tenant Cluster with Namespaces](#)

1 hour 25 minutes

This lab explores best practices in managing and monitoring a multi-tenant cluster in order to optimize your costs.



Video

[Virtual machines in GKE](#) 8 minutes

REQUIRED



Lab

[Exploring Cost-optimization for GKE Virtual Machines](#) 1 hour 40 minutes

In this hands-on lab, you'll learn how to determine and select the the most cost effective machine type for a GKE application. You will also explore the pros an...



Video

[Autoscaling with GKE: Overview and pods](#) 7 minutes



Video

[Autoscaling with GKE: Clusters and nodes](#) 9 minutes

REQUIRED



Lab

[Understanding and Combining GKE Autoscaling Strategies](#)

1 hour 30 minutes

In this lab you will explore the benefits of different Google Kubernetes Engine autoscaling strategies, like Horizontal Pod Autoscaling and Vertical Pod...



Video

[Application optimization for GKE](#) 9 minutes



Video

[Optimize GKE to run your application](#) 6 minutes

REQUIRED



Lab

[GKE Workload Optimization](#) 1 hour 30 minutes

This lab demonstrates how optimization in your cluster's workloads can lead to an overall optimization of your resources and costs. It walks through a few...

REQUIRED



Lab

[Optimize Costs for Google Kubernetes Engine: Challenge Lab](#)

1 hour 30 minutes

This lab offers a series of challenges that involve deploying, scaling, and maintaining a cluster application while optimizing resource usage.

Your Next Steps



✔ Completed



Badge

[Course Badge](#)

ⓘ Course Info



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