

Updated on September 10, 2026

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FinOps for Containers Certification Training

2 days (14 hours)

Overview

The FinOps for Containers Certification Training prepares you for the official FinOps for Containers assessment to master cost visibility, allocation, and optimization in containerized environments.

FinOps for Containers is a FinOps Foundation track dedicated to the financial management of container environments. It helps you understand how costs generated by Kubernetes, clusters, nodes, pods, and associated services can be analyzed, allocated, and managed with precision.

Our FinOps for Containers Certification training will help you prepare for the official assessment while building the skills needed to effectively collaborate with engineering, finance, and platform teams regarding the value generated by containerized workloads.

You will learn to identify sources of direct, shared, and idle costs; define a strategy for labels and namespaces; choose appropriate allocation methods; and interpret metrics for consumption, resource requests, and actual usage.

By the end of the training, you will be able to build a FinOps approach tailored to containers, prioritize rightsizing and autoscaling actions, formalize governance practices, and take the FinOps for Containers assessment with a structured understanding of the expected concepts.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand FinOps principles as applied to container environments.
- Analyze the cost mechanisms of a Kubernetes cluster and its associated services.
- Implement a method for allocating costs by workload, namespace, team, or cost center.
- Identify optimization opportunities related to rightsizing, autoscaling, and unused capacity.
- Develop a governance strategy and prepare for the FinOps for Containers assessment.

Target Audience

- FinOps Practitioner
- Cloud Engineer
- Platform Engineer
- DevOps Engineer
- SRE

Prerequisites

- Knowledge of cloud billing and usage principles.
- Proficiency in fundamental Kubernetes concepts, including clusters, nodes, pods, and namespaces.
- Experience with a cloud provider such as AWS, Microsoft Azure, or Google Cloud.
- Knowledge of resource requests, limits, and metrics in Kubernetes.

Technical Prerequisites

- Access to a Kubernetes demo environment or to datasets provided by the instructor.

Curriculum for our FinOps for Containers training

[Day 1 - Morning]

FinOps Fundamentals Applied to Containers

- Overview of FinOps for Containers and guidelines for preparing for the official certification exam.
- Review of Kubernetes components: clusters, nodes, pods, namespaces, services, and workloads.
- Overview of the main cost drivers: compute, storage, networking, control plane, and .
- Understanding direct, shared, and non-cluster costs, as well as unused capacity.
- The role of FinOps, engineering, platform, and finance teams in managing expenses.
- Hands-on workshop: mapping the components and cost drivers of a shared Kubernetes architecture.

[Day 1 - Afternoon]

Visibility and Allocation of Containerized Costs

- Principles of collecting and reconciling cloud billing data with Kubernetes metrics.
- Designing a cost-oriented taxonomy of labels, tags, and namespaces.
- Allocation based on resource requests, actual consumption, or a hybrid approach.
- Allocation of costs for nodes, storage, networking, licenses, and shared services.
- Development of showback and chargeback metrics by team, application, or product.
- Hands-on workshop: Developing a cost allocation model for multiple namespaces in a shared cluster.

[Day 2 - Morning]

Optimizing workloads and clusters

- Analysis of discrepancies between requests, limits, and actual resource consumption.
- Identifying oversizing, idle loads, underutilized nodes, and recurring cost overruns.
- Optimizing pods through rightsizing and adjusting quality-of-service profiles.
- Impact of HPA, VPA, and Cluster Autoscaler mechanisms on costs and performance.
- Selection of node types, placement density, committed capacity, and interruptible capacity.
- Hands-on workshop: Prioritizing an optimization plan based on cluster consumption and cost metrics.

[Day 2 - Afternoon]

Governance and Preparation for Assessment

- Implementing governance policies for labels, resources, environments, and workloads.
- Defining thresholds, alerts, budgets, and review processes for containerized spending.
- Organizing FinOps practices within the application and platform lifecycle.
- Communicating costs and value to technical teams and business stakeholders.
- Targeted review of knowledge areas and strategy for answering questions on the FinOps for Containers assessment.
- Hands-on workshop: conduct a summary case study, formulate FinOps recommendations, and practice answering preparation questions.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in new, advanced IT technologies or to acquire specific business knowledge or modern methodologies.

Placement at the Start of Training

The assessment upon enrollment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technology, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth operation of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.