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GCP Professional Cloud DevOps Engineer Certification Training

3 days (21 hours)

Overview

Google Cloud Professional Cloud DevOps Engineer is a recognized certification that validates the ability to design, deploy, monitor, and scale reliable services on Google Cloud Platform. It is fully aligned with modern DevOps, automation, and Site Reliability Engineering challenges.

Our GCP Professional Cloud DevOps Engineer Certification training will enable you to master DevOps practices in the Google Cloud environment: deployment automation, monitoring, incident management, pipeline security, infrastructure as code, and continuous platform optimization.

You will learn to design, automate, deploy, monitor, and secure cloud applications using native GCP services, while incorporating the concepts of CI/CD, observability, and SRE.

Upon completion of the course, you will be able to set up reliable deployment pipelines, utilize Google Cloud's monitoring and logging tools, automate your infrastructure, handle incidents systematically, and effectively prepare for the Professional Cloud DevOps Engineer certification exam.

Like all our training courses, this one is based on the latest stable version of [Google Cloud](#) services and emphasizes a resolutely practical, operational, and certification-oriented approach.

Objectives

- Understand DevOps and SRE principles within the Google Cloud ecosystem.
- Implement robust CI/CD pipelines using native GCP services.
- Monitor applications and platforms with Cloud Monitoring and Cloud Logging.

- Automate environments using Infrastructure as Code and Terraform.
- Secure deployments, access, and technical components.
- Effectively prepare for the GCP Professional Cloud DevOps Engineer certification.

Target Audience

- DevOps engineers
- System and cloud administrators
- Platform and SRE engineers
- Developers

Prerequisites

- Basic knowledge of cloud computing and the Google Cloud environment
- Basic understanding of system administration, development, or application operations
- Foundational understanding of CI/CD, containers, and automation

GCP Professional Cloud DevOps Engineer Training Program

[Day 1 - Morning]

Introduction to DevOps and the GCP ecosystem

- Understanding DevOps principles and CI/CD culture
- Overview of the Professional Cloud DevOps Engineer certification
- Overview of Google Cloud Platform (GCP) services
- Understanding cloud-native architecture
- Identifying DevOps Roles and Responsibilities
- Hands-on workshop: Getting started with the GCP console.

[Day 1 - Afternoon]

Managing GCP Environments and Resources

- Using IAM (Identity and Access Management)
- Organizing projects and resources
- Managing security policies
- Introduction to Cloud Shell and CLI Tools
- Cloud Governance Best Practices
- Hands-on workshop: Creating and configuring a GCP project.

Introduction to observability and monitoring

- Monitoring, Logging, and Tracing Concepts
- Overview of Cloud Monitoring and Cloud Logging
- Setting up your first dashboards
- Understanding SLIs/SLOs/SLAs
- Introduction to alert management
- Hands-on workshop: Setting up a monitoring dashboard.

[Day 2 - Morning]

Setting up a CI/CD pipeline on GCP

- Concepts of Continuous Integration and Continuous Delivery
- Using Cloud Build
- Managing artifacts with Artifact Registry
- Introduction to automated pipelines
- Integration with Git repositories
- Hands-on Workshop: Creating a CI/CD Pipeline.

[Day 2 - Afternoon]

Application Deployment Management

- Deployment strategies (Blue/Green, Canary)
- Deployment with Cloud Run and GKE
- Application version management
- Deployment Automation
- Rollback and incident management
- Hands-on workshop: Deploying a containerized application.

Infrastructure as Code and automation

- Introduction to Terraform on GCP
- Declarative Infrastructure Management
- Environment automation
- Configuration management
- DevOps Best Practices
- Hands-on Workshop: Deploying Infrastructure with Terraform.

[Day 3 - Morning]

Reliability and Performance Management

- Site Reliability Engineering (SRE) Concepts
- Incident Management and Post-Mortem

- Application Performance Optimization
- Capacity Management and Scalability
- Advanced Metrics Analysis
- Hands-on Workshop: Incident Simulation and Resolution.

[Day 3 - Afternoon]

Security and compliance in GCP

- Cloud security best practices
- Advanced identity and access management
- Securing CI/CD Pipelines
- Audit and Compliance
- Introduction to Security Command Center
- Hands-on Workshop: Implementing Security Rules

Certification preparation

- Analysis of exam topics
- Practical case studies
- Sample certification questions
- Strategies for success
- Review of key concepts
- Hands-on workshop: Mock exam + review.

Target Audience

This training is designed for both individuals and companies—large or small—seeking to train their teams in new advanced IT technologies or to acquire specific industry knowledge or modern methods.

Entry-Level Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, 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 running of the training session.

Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

Organization

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

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

Certification

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