Google Compute Engine Administrator

Course Overview

This course will familiarize you with Google Cloud's flexible infrastructure and platform services, with a specific focus on Compute Engine. In the session you are guided through a curated collection of concepts and labs that provide you with real-world, hands-on experience using Google Cloud technologies essential to the explore Google Cloud Engine.

Duration: 04 days / 32 hours

Level: Associate

Prerequisites: There is no prerequisite for this learning path. Basic knowledge of Linux and Network administration is helpful but not mandatory.

Course Outcome: Learner will be prepared to work as a Google Cloud Engine Administrator on Google Cloud Platform

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Google Cloud Fundamentals: Core Infrastructure

- Introducing Google Cloud
- Resources and Access in the Cloud
- Virtual Machines and Networks in the Cloud
- Storage in the Cloud
- Containers in the Cloud
- Applications in the Cloud
- Prompt Engineering

Essential Google Cloud Infrastructure: Foundation

- Interacting with Google Cloud
- Virtual Networks
- Virtual Machines

Essential Google Cloud Infrastructure: Core Services

- Identity and Access Management (IAM)
- Storage and Database Services
- Resource Management
- Resource Monitoring

Elastic Google Cloud Infrastructure: Scaling and Automation

- Interconnecting Networks

- Load Balancing and Autoscaling
- Infrastructure Automation
- Managed Services

Reliable Google Cloud Infrastructure: Design and Process

- Defining Services
- Microservice Design and Architecture
- DevOps Automation
- Choosing Storage Solutions
- Google Cloud and Hybrid Network Architecture
- Deploying Applications to Google Cloud
- Designing Reliable Systems
- Security
- Maintenance and Monitoring