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Learning Style: Virtual Classroom

Technology: Google

Difficulty: Beginner

Course Duration: 1 Day

Google Cloud Fundamentals - Core Infrastructure



About This Course:

Google Cloud Fundamentals: Core Infrastructure is Google's official starting point for anyone working with Google Cloud. Through instructor-led presentations, demos, and hands-on labs, participants learn the key concepts and terminology of the platform and see how its services can support business and technical goals.

The course explains how Google's global infrastructure is organized into regions

and zones, and how resources are managed and secured using projects, policies, and Identity and Access Management (IAM). Participants compare compute options such as Compute Engine, Google Kubernetes Engine, and serverless services, evaluate the different storage choices, and build a basic infrastructure environment themselves. It also introduces Google Cloud's generative AI tools.

Course Objectives:

- Explain the purpose and value of Google Cloud products and services
- Describe how infrastructure is organized and controlled in Google Cloud
- Create a basic infrastructure in Google Cloud
- Choose and use the right Google Cloud storage option
- Describe the role of Google Kubernetes Engine and where serverless services fit
- Explore Google Cloud's generative AI tools and best practices

Audience:

- IT professionals planning to deploy applications and build environments on Google Cloud
- Developers, systems operations professionals, and solution architects new to Google Cloud
- Cloud engineers preparing for further Google Cloud training or certification
- Executives and business decision-makers evaluating Google Cloud for their organization

Prerequisites:

- No formal prerequisites. Familiarity with application development, systems operations, Linux, and data analytics or machine learning will help learners get more out of the labs.

Course Outline:

- Cloud computing overview
- IaaS and PaaS
- The Google Cloud network
- Environmental impact

- Security
- Open-source ecosystems
- Pricing and billing