Google Cloud Fundamentals

Course Summary

Description

Cloud computing enables an organization to increase capacity or add capabilities on the fly, without necessarily requiring considerable investment in infrastructure, new personnel or software. With a carefully planned migration to cloud services, organizations can provide themselves with greater flexibility, additional capability and potential cost savings. Google is one of the major players among cloud vendors, offering a wide variety of cloud services. In this course, you will learn the capabilities of Google's cloud offerings and will identify a process for migrating your current systems, data and users to them.

Objectives
By the end of this course, students will be able to:

- Identify and describe potential costs and benefits of a Google Cloud computing implementation.
- Employ strategies to migrate users and systems to the Google Apps™ cloud-based productivity suite.
- Employ strategies to utilize the storage capabilities provided by Google Apps and the Google Cloud Platform within your organization.
- Employ strategies to migrate applications to the Google Cloud Platform.
- Identify and describe steps in a cloud migration project plan.

Topics

- Initiating a Cloud Migration
- Migrating to the Google Apps Productivity Suite
- Migrating to Cloud-Based Storage
- Migrating Applications to Google Cloud
- Managing a Cloud Migration Project

Audience

This course is designed for managers, information technology administrators, programmers and other decision-makers who plan to migrate their organization's infrastructure and applications to the Google Cloud computing platform.

Prerequisites

To ensure your success in this course, we recommend that you have end-user experience with Google Drive™ and productivity apps (Docs, Sheets, and Slides), as covered in the Using Google Drive™ and Productivity Apps course.

Duration

One day

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Course Outline

I. Initiating a Cloud Migration
   A. Google Cloud Computing
   B. Cloud Computing Costs and Benefits

II. Migrating to the Google Apps Productivity Suite
   A. Migrate Users to the Google Apps Productivity Suite
   B. Migrate Systems and Data to the Google Apps Productivity Suite

III. Migrating to Cloud-Based Storage
   A. Cloud-Based Storage Options
   B. Google Drive
   C. Migrate Web Application Data to the Cloud

IV. Migrating Applications to Google Cloud
   A. Google App Engine
   B. Google Compute Engine

V. Managing a Cloud Migration Project
   A. Develop a Cloud Project Plan
   B. Begin a Cloud Project
   C. Identify and Manage Risks
   D. Plan and Design a Cloud Solution
   E. Implement a Cloud-Based Solution
   F. Test, Roll Out and Maintain a Cloud-Based Solution