Google Associate Cloud Engineer

Course Overview

The official Google Associate Cloud Engineer (ACE) training course outline is structured directly around the core domains of the Google Cloud ACE Certification Exam. It teaches you how to deploy apps, monitor operations, and manage enterprise solutions on Google Cloud Platform (GCP)

Course Description

The course prepares IT professionals to deploy applications, monitor operations, and manage enterprise solutions on Google Cloud. Students learn how to use the Google Cloud Console and the command-line interface to perform common platform tasks. This training directly equips candidates to maintain a cloud solution environment that fulfills structural and security requirements.Target Audience Aspiring Cloud Engineers: Professionals entering the cloud infrastructure space.System Administrators: Traditional IT staff transitioning physical infrastructure to GCP.DevOps Engineers: Individuals looking to manage containerized applications via Kubernetes.Cross-Cloud Professionals: AWS or Azure engineers looking to validate their GCP skills.

Learning Curriculum

Module 1

Setting Up a Cloud Solution Environment

Managing Projects: Creating projects, managing billing configuration, and adding users to projects.Managing Identity & Access (IAM): Assigning IAM roles to users or groups and creating service accounts.Interacting with GCP: Utilizing the GCP Console, Cloud Shell, and the gcloud Command Line Interface (CLI)

Module 2

Planning and Configuring a Cloud Solution

Pricing Estimation: Using the GCP Pricing Calculator to evaluate compute, storage, and data egress costs.Designing Virtual Networks: Creating Virtual Private Clouds (VPC), configuring subnets, and setting up custom firewall rules.Storage Strategy: Choosing and configuring Google Cloud Storage, Cloud SQL, Bigtable, and Spanne

Module 3

Ensuring Successful Operation of a Cloud Solution

Resource Management: Managing Compute Engine active instances and configuring autoscaling groups.Network Maintenance: Configuring Cloud DNS and updating global load balancers.GKE Workloads: Updating active pod deployments, scaling node pools, and executing container images

Module 4

Configuring Access and Security

IAM Auditing: Reviewing active role assignments and revoking excessive permissions.Network Security: Setting up secure Cloud VPN connections, VPC peering, and secure SSH keys

Module 5

Monitoring and Logging

Performance Tracking: Creating Cloud Monitoring dashboards and setting up automated metric alerts.Log Management: Configuring Cloud Logging sinks to stream logs to external storage systems for compliance

Module 6

Deploying and Implementing a Cloud Solution

Compute Engine VMs: Launching virtual machines, configuring disk options, and managing VM metadata.Google Kubernetes Engine (GKE): Deploying, managing, and scaling containerized applications using GKE clusters.Serverless Computing: Deploying applications to Cloud Run and executing serverless code with Cloud Run functions.Data Solutions: Initializing data pipelines through Dataflow and Dataproc instances.

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