Managing Google Cloud's Apigee API Platform for Hybrid Cloud Training

Duration: **1 Day**

BILGINÇ IT Academy
info@bilginc.com
bilginc.com

This course focuses on installing, managing, and scaling the Google Cloud Apigee API Platform in a hybrid cloud environment. It is designed for intermediate-level professionals who want to gain both conceptual understanding and practical experience with Apigee hybrid.

Throughout the course, participants will explore how Apigee integrates with Google Cloud, Kubernetes, and Anthos. Key topics include installation, platform management, security, scaling, monitoring, and troubleshooting of hybrid runtime environments.

Prerequisites

Participants should have:

- Familiarity with Linux command line
- Basic knowledge of Google Cloud
- Understanding of Kubernetes (GKE)
- Networking fundamentals
- Knowledge of shell scripting, XML, JSON, HTTP, REST, and TLS

Who Should Attend

This course is suitable for:

- Cloud Architects
- Cloud Engineers

What You Will Learn

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

- Understand the purpose and value of the Apigee API Platform
- Describe Google Cloud, Kubernetes, REST, and Anthos concepts
- Explain Apigee hybrid architecture and topology design
- Learn Apigee terminology and structure
- Install Apigee hybrid on Google Kubernetes Engine
- Apply security, access control, and encryption practices
- Manage hybrid environments effectively
- Plan capacity and scale runtime components
- Perform upgrade and rollback processes
- Monitor and troubleshoot using logs, metrics, and analytics

Training Outline

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Module 1: Fundamentals

- Apigee overview
- Introduction to Google Cloud
- Kubernetes and Anthos
- REST concepts

Module 2: Architecture

- Terminology and structure
- Hybrid architecture
- Networking
- API management

Module 3: Installation and Operations

- Installation process
- Platform management
- Backup and restore
- GKE deployment
- Environment configuration
- API proxy deployment

Module 4: Deployment and Environment Management

- API proxy creation and deployment
- Debugging techniques
- Developer portal solutions
- Environment management

Module 5: Security

- Infrastructure security
- Data encryption
- RBAC
- Secure communication

Module 6: Capacity Planning and Scaling

- Capacity planning
- Scaling runtime components

Module 7: Upgrade

- Upgrade process
- Rollback scenarios

Module 8: Logging and Monitoring

- Logging
- Metrics and analytics
- Monitoring

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- Troubleshooting