Managing Google Cloud's Apigee API Platform for Hybrid Cloud

Duration: 3 Days Course Code: GO8332

Overview:

Learn how to install, manage, and scale Google Cloud's Apigee API Platform in a hybrid cloud environment using hands-on labs and guided instruction.

This course introduces participants to managing Apigee hybrid API Platform on Google Cloud. It combines lectures and practical labs to help learners install, configure, operate, secure, scale, upgrade, and monitor Apigee hybrid runtime components effectively in production environments.

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Target Audience:

Cloud Architect, Cloud Engineer

Objectives:

- **What You Will Learn**
- Identify the purpose and value of Apigee API Platform.
- Describe basic concepts and capabilities of Google Cloud, Kubernetes, REST, and Anthos.
- Discuss Apigee API Platform architecture and recommended practices for topology design.
- Explain Apigee terminology and logical organizational structures.
- Install Apigee hybrid on Google Kubernetes Engine.
- Discuss infrastructure security, user access management, data storage, and encryption practices used in Apigee hybrid.
- Manage environments in Apigee hybrid.
- Discuss capacity planning and scale runtime components in the hybrid runtime plane.
- Describe the upgrade and rollback process used for the Apigee hybrid installation.
- Troubleshoot and monitor the hybrid runtime plane components using logs, metrics, and analytics.

Prerequisites:

- Familiarity with Linux commands and command line interface
- Basic understanding of Google Cloud
- Basic understanding of GKE
- Basic understanding of networking
- Basic understanding of shell scripts, XML, JSON, HTTP, REST, and TLS

Testing and Certification

None

Follow-on-Courses:

None

Content:

Module 01: Fundamentals

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

Module 02: Architecture

- Terminology and organizational structure
- Architecture
- Networking
- Apigee API

Module 03: Installation and platform operation

- Installation process
- Platform operation
- Backup and restore

Module 04: Deployment and environment management

- Building and deploying API proxies
- Debugging
- Developer portal solutions
- Managing environments

Module 05: Security

- Infrastructure security
- Data storage and encryption
- RBAC

Module 06: Capacity planning and scaling

- Capacity planning
- Scaling

Module 07: Upgrade

- Upgrade process
- Rollback process

Module 08: Logging and monitoring

- Logging
- Metrics
- Analytics
- Monitoring and troubleshooting
- Apigee support

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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