Installing and Managing Google Cloud's Apigee API Platform for Private Cloud Training

Duration: **3 Day**

BİLGİNÇ IT Academy
info@bilginc.com
bilginc.com

This course provides a comprehensive introduction to installing and managing the Google Cloud Apigee API Platform for Private Cloud environments. It is designed for intermediate-level professionals who want to gain both theoretical knowledge and practical experience in API platform deployment and operations.

Throughout the training, participants will explore the architecture, components, and operational practices of the Apigee platform. The course focuses on designing, installing, securing, managing, and scaling the platform effectively within enterprise environments.

Prerequisites

Participants should have:

- Familiarity with Linux command line
- Basic networking knowledge
- Understanding of shell scripting, XML, JSON, HTTP, REST, and TLS

Who Should Attend

This course is suitable for:

- Cloud Architects
- Cloud Engineers
- Operations and DevOps specialists

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
- Explain Private Cloud architecture and topology design
- Learn Apigee terminology and logical structure
- Work with the platform using real-world scenarios
- Apply security, management, and scaling practices
- Perform installation and upgrade of the Apigee platform

Training Outline

Module 1: Architecture

- Role of Apigee in enterprise architecture
- Technology stack

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- Apache Cassandra usage
- Terminology and structure
- Topology design

Module 2: Installation

- Installation planning
- Dependencies
- Installation process
- Post-installation tasks
- Uninstallation

Module 3: Developer Portal

- Role of the Developer Portal
- Hosting best practices
- Installation process

Module 4: Management

- Platform operations
- Management API
- API deployment
- Analytics
- Infrastructure operations

Module 5: Security

- API security
- TLS and mTLS configuration
- Single Sign-On (SSO)

Module 6: Upgrade

- Upgrade planning
- Prerequisites
- Upgrade process
- Rollback scenarios

Module 7: Capacity Planning and Scaling

- Capacity planning strategies
- Scaling operations
- Cluster expansion
- Adding regions

Module 8: Monitoring

- Monitoring practices
- Component-level monitoring
- Synthetic transactions
- API monitoring

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Module 9: Troubleshooting

- Failure scenarios
- Troubleshooting practices
- Support model