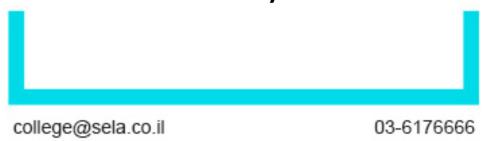ManagGCApigee

Managing Google Cloud's Apigee API Platform for Hybrid Cloud

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ManagGCApigee - Version: 1

🕐 3 days Course

Description:

Learn how to install and manage Google Cloud's Apigee API Platform in a hybrid
cloud. This course uses lectures, hands-on labs, and supplemental resources to
show you how to design, install, manage, and scale your Apigee API Platform.

Intended audience:

Prerequisites:

Familiarity with Linux command and command line interface.
Basic understanding of Google Cloud.
Basic understanding of Anthos and GKE.
Basic understanding of networking.
Basic understanding of shell script, XML, JSON, HTTP, REST, and TLS.

Objectives:

dentify 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.

Topics:

Fundamentals

 • Describe the Apigee API management platform, and the services and features it provides.
 • Describe basic concepts and the capabilities of Google Cloud, Kubernetes, REST,and Anthos.

Architecture

 • Describe the architecture and networking used in Apigee hybrid and the various components that are used to operate the runtime plane.
 • Describe the terminology, organizational structure, and the management API used in Apigee hybrid.

Installation and Platform Operation

 • Describe the process involved in installing Apigee hybrid.
 • Describe the tools and commands used to configure and manage the components of the hybrid runtime plane.
 • Perform an install of the runtime plane on Google Kubernetes Engine.

Deployment and Environment Management

• Manage environments and API proxy deployments in Apigee hybrid.
• Add a new environment to your hybrid runtime plane in Google Kubernetes Engine.

Security

• Determine how hybrid runtime components communicate securely within the runtime plane, and with the hybrid management plane in Google Cloud.
• Describe how data is encrypted, and how you can use role-based access control to manage user access in Apigee hybrid.

Capacity Planning and Scaling

• Determine how to plan capacity for the hybrid runtime plane.
• Scale the hybrid runtime components

Upgrade

• Upgrade an Apigee hybrid installation to a new release of the software distribution.
• Discuss rolling updates, and how to roll back an upgraded Apigee hybrid installation to the previous release.

Logging and Monitoring

• Explain how the Apigee runtime plane generates logs, metrics and analytics data.
• Monitor the health of Apigee hybrid runtime plane components, and troubleshoot issues with those components, using logs and metrics data.