Managing Google Cloud's Apigee API Platform for Hybrid Cloud

Category: Cloud Platforms | **Vendor:** Google Cloud

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Learn how to install and manage Google Cloud's Apigee API Platform in a hybrid cloud. This course uses lectures and a lab to show you how to install, manage, and scale your Apigee hybrid API Platform.

About This Course

Learn how to install and manage Google Cloud's Apigee API Platform in a hybrid cloud. This course uses lectures and a lab to show you how to install, manage, and scale your Apigee hybrid API Platform.

Who Should Attend

Cloud Architect, Cloud Engineer

Prerequisites & Entry Requirements

General 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.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- 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

Detailed Course Outline

Module 01: Fundamentals

Topics

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

Objectives

- 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.

Activities

- 1 quiz

Module 02: Architecture

Topics

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

Objectives

- 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.

Activities

- 1 quiz

Module 03: Installation and platform operation

Topics

- Installation process
- Platform operation
- Backup and restore

Objectives

- 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 installation of the Apigee hybrid runtime plane in a Kubernetes cluster on GKE.
- Configure the Apigee hybrid runtime plane.
- Configure Apigee hybrid environments and environment groups by using the Apigee hybrid UI.
- Deploy simple API proxies to the Apigee hybrid environments.
- Validate Apigee hybrid environments by testing API proxies.

Activities

- 1 lab and 1 quiz

Module 04: Deployment and environment management

Topics

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

Objectives

- Manage environments and API proxy deployments in Apigee hybrid.

Activities

- 1 quiz

Module 05: Security

Topics

- Infrastructure security
- Data storage and encryption
- RBAC

Objectives

- 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.

Activities

- 1 quiz

Module 06: Capacity planning and scaling

Topics

- Capacity planning
- Scaling

Objectives

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

Activities

- 1 quiz

Module 07: Upgrade

Topics

- Upgrade process
- Rollback process

Objectives

- Upgrade an Apigee hybrid installation to a new release.
- Discuss the steps to roll back an upgraded Apigee hybrid installation.

Activities

- 1 quiz

Module 08: Logging and monitoring

Topics

- Logging
- Metrics
- Analytics

- Monitoring and troubleshooting

- Apigee support

Objectives

- Explain how the Apigee runtime plane generates logs, metrics, and analytics data.

- Monitor the health of Apigee hybrid runtime plane components.

- Troubleshoot issues with the runtime components, using logs and metrics data.

Activities

- 1 quiz, Security, Capacity Planning and Scaling, Upgrade, Deployment and Environment Management, Installation and Platform Operation, Fundamentals, Architecture, Logging and Monitoring

Skills 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

Frequently Asked Questions

Q: What delivery options are available for Managing Google Cloud's Apigee API Platform for Hybrid Cloud?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Managing Google Cloud's Apigee API Platform for Hybrid Cloud course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Managing Google Cloud's Apigee API Platform for Hybrid Cloud training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Managing Google Cloud's Apigee API Platform for Hybrid Cloud?

Yes, we provide corporate training, dedicated training, and closed classes for Managing Google Cloud's Apigee API Platform for Hybrid Cloud. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Managing Google Cloud's Apigee API Platform for Hybrid Cloud, Apigee, T-APIHYB-B, Google Cloud, vILT

Q: Why choose Nexus Human for Managing Google Cloud's Apigee API Platform for Hybrid Cloud?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Managing Google Cloud's Apigee API Platform for Hybrid Cloud training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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