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SHI GCP-DEV Developing Applications 3 Days Instructor LED User Guide

Contents

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Product Information

Specifications

- Course Name: Developing Applications with Google Cloud
- Course Code: GCP-DEV
- Duration: 3 days
- Delivery Method: Instructor Led

Developing Applications with Google Cloud

Course GCP-DEV: 3 days Instructor Led

About this Course

The "Developing Applications with Google Cloud" course is designed to teach participants how to design, develop, and deploy applications that seamlessly integrate components from Google Cloud ecosystem. The course utilizes a combination of lectures, demonstrations, and hands-on labs to provide a comprehensive understanding of how to utilize Google Cloud services and pre-trained machine learning APIs in order to build secure, scalable, and intelligent cloud-native applications.

Audience Profile
This course is ideal for application developers who are interested in building cloud-native applications or redesigning existing applications to run on Google Cloud. It is suitable for individuals who have a basic understanding of the application development concepts and are looking to leverage the capabilities of the Google Cloud platform.

At course completion
After completing this course, students will be able to:

- Use best practices for application development.
- Choose the appropriate data storage option for application data.
- Implement federated identity management.
- Develop loosely coupled application components or microservices.

- Integrate application components and data sources.
- Debug, trace, and monitor applications.
- Perform repeatable deployments with containers and deployment services.
- Choose the appropriate application runtime environment

Course Objectives

- Design and develop cloud-native applications
- Integrate components from the Google Cloud ecosystem
- Utilize Google Cloud services
- Implement pre-trained machine learning APIs
- Build secure and scalable applications

1. Best Practices for Application Development
2. Getting Started with Google Cloud Development
3. Overview of Data Storage Options
4. Best Practices for Using Datastore
5. Performing Operations on Buckets and Objects
6. Best Practices for Using Cloud Storage
7. Handling Authentication and Authorization
8. Using Pub/Sub to Integrate Components of Your Application
9. Adding Intelligence to Your Application
10. Using Cloud Functions for Event-Driven Processing
11. Managing APIs with Cloud Endpoints
12. Deploying Applications
13. Compute Options for Your Application
14. Debugging, Monitoring, and Tuning Performance

Product Usage Instructions

- **Section 1: Course Introduction**
  The course will begin with an introduction to the Google Cloud platform and its key components. Participants will learn about the benefits of developing cloud-native applications and the various services offered by Google Cloud.

- **Section 2: Designing Cloud-Native Applications**
  In this section, participants will gain an understanding of the principles and best practices for designing cloud-native applications. They will learn how to leverage the scalability, reliability, and flexibility provided by Google Cloud to create robust applications.

- **Section 3: Developing Applications with Google Cloud Services**
  Participants will explore the different Google Cloud services available for application development. They will learn how to use these services to implement various functionalities such as storage, compute, networking, and database management.

- **Section 4: Pretrained Machine Learning APIs**
  This section focuses on utilizing pre-trained machine learning APIs provided by Google Cloud. Participants will

learn how to integrate these APIs into their applications to add intelligent features such as natural language processing, image recognition, and sentiment analysis.

- **Section 5: Building Secure and Scalable Applications**
  The final section of the course will cover important considerations for building secure and scalable applications on Google Cloud. Participants will learn about authentication, access control, data encryption, and other security measures to ensure the integrity and confidentiality of their applications.

Frequently Asked Questions (FAQ)

Q1: Who is this course suitable for?
This course is ideal for application developers who want to build cloud-native applications or redesign existing applications to run on Google Cloud.
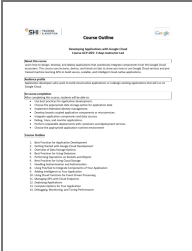
Q2: What are the prerequisites for this course?
Participants should have a basic understanding of application development concepts and familiarity with cloud computing principles. Experience with any programming language and knowledge of Google Cloud platform are advantageous but not mandatory.

Q3: How long does the course last?
The course has a duration of 3 days.

Documents / Resources

SHI GCP-DEV Developing Applications 3 Days Instructor LED [pdf] User Guide
GCP-DEV Developing Applications 3 Days Instructor LED, GCP-DEV, Developing Applications 3 Days Instructor LED, Applications 3 Days Instructor LED, Days Instructor LED, Instructor LED , LED

References

- **User Manual**