

Exam Professional-Cloud-Developer Topic & Professional-Cloud-Developer New Test Camp



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As businesses worldwide continue to adopt cloud computing, the demand for experts who can develop cloud-based applications using various cloud services is experiencing an upward trend. It is in recognition of this need that Google Cloud offers the Professional-Cloud-Developer Exam - also known as Google Certified Professional - Cloud Developer.

Career Opportunity

Those individuals who have the Google Professional Cloud Developer certification can take up the job titles, such as Software Engineers, Solutions Architects, Operations Analysts, Web Application Developers, Senior Software Engineers, Information Security Managers, or Data Engineers. The average salary for these positions is \$87,000 per annum.

Revision Books

Let's now focus on the details of the revision books that will supplement the above training programs well:

- **Building Secure & Reliable Systems: Best Practices for Designing, Implementing, and Maintaining Systems (1st Edition)**

The authors of this book (Heather Adkins, Piotr Lewandoski, Betsy Beyer, Ana Oprea, and others) created this comprehensive self-study tool with an aim to help candidates learn how to accommodate security and reliability solutions in the lifecycle of systems and software. This material gives explicit knowledge of highly secure systems through coding, debugging, and testing practices, design techniques, and strategies required to address security incidents. Check it out from Amazon and get easy access to one of the most valuable study resources you will ever find for the Google Professional Cloud Developer exam preparation.

- **Cloud Native DevOps with Kubernetes: Building, Deploying, and Scaling Modern Applications in the Cloud (1st Edition)**

This book is perfectly designed to cover everything there's to know about Kubernetes. It is a valuable study material that addresses vital details starting with what Kubernetes is, its origin, and what the future holds for this platform. You will build a high-level knowledge of containers including how they work, how to manage them, and most importantly, the tips for designing cloud-native infrastructure and similar services.

This guide suits both experienced IT professionals and beginner-level individuals who are only getting started with Kubernetes. Through this resource, candidates will gain important hands-on skills related to the writing and deployment of Kubernetes apps, configuration and operation of Kubernetes clusters, and cloud infrastructure automation using popular tools such as Helm. What's more, this book will also help you build fundamental knowledge of Kubernetes security, including Role Based Access Control (RBAC). When opting to study using this book, be sure to get the official resource that's written by John Arundel alongside Justin Domingus.

>> Exam Professional-Cloud-Developer Topic <<

Updated Exam Professional-Cloud-Developer Topic - Perfect Professional-Cloud-Developer Exam Tool Guarantee Purchasing Safety

In order to pass the exam and fight for a brighter future, these people who want to change themselves need to put their ingenuity and can do spirit to work. More importantly, it is necessary for these people to choose the convenient and helpful Professional-Cloud-Developer study materials as their study tool in the next time. Because their time is not enough to prepare for the exam, and a lot of people have difficulty in preparing for the exam, so many people who want to pass the Professional-Cloud-Developer Exam and get the related certification in a short time have to pay more attention to the study materials.

Google Certified Professional - Cloud Developer Sample Questions (Q253-Q258):

NEW QUESTION # 253

Case Study 2 - HipLocal

Company Overview

HipLocal is a community application designed to facilitate communication between people in close proximity. It is used for event planning and organizing sporting events, and for businesses to connect with their local communities. HipLocal launched recently in a few neighborhoods in Dallas and is rapidly growing into a global phenomenon. Its unique style of hyper-local community communication and business outreach is in demand around the world.

Executive Statement

We are the number one local community app; it's time to take our local community services global. Our venture capital investors want to see rapid growth and the same great experience for new local and virtual communities that come online, whether their members are 10 or 10000 miles away from each other.

Solution Concept

HipLocal wants to expand their existing service, with updated functionality, in new regions to better serve their global customers. They want to hire and train a new team to support these regions in their time zones. They will need to ensure that the application scales smoothly and provides clear uptime data, and that they analyze and respond to any issues that occur.

Existing Technical Environment

HipLocal's environment is a mix of on-premises hardware and infrastructure running in Google Cloud Platform. The HipLocal team understands their application well, but has limited experience in global scale applications. Their existing technical environment is as follows:

- Existing APIs run on Compute Engine virtual machine instances hosted in GCP.
- State is stored in a single instance MySQL database in GCP.
- Release cycles include development freezes to allow for QA testing.
- The application has no logging.
- Applications are manually deployed by infrastructure engineers during periods of slow traffic on weekday evenings.
- There are basic indicators of uptime; alerts are frequently fired when the APIs are unresponsive.

Business Requirements

HipLocal's investors want to expand their footprint and support the increase in demand they are seeing. Their requirements are:

- Expand availability of the application to new regions.
- Support 10x as many concurrent users.
- Ensure a consistent experience for users when they travel to different regions.
- Obtain user activity metrics to better understand how to monetize their product.
- Ensure compliance with regulations in the new regions (for example, GDPR).
- Reduce infrastructure management time and cost.
- Adopt the Google-recommended practices for cloud computing.

Develop standardized workflows and processes around application lifecycle management.

Define service level indicators (SLIs) and service level objectives (SLOs).

Technical Requirements

- Provide secure communications between the on-premises data center and cloud-hosted applications and infrastructure.
- The application must provide usage metrics and monitoring.
- APIs require authentication and authorization.
- Implement faster and more accurate validation of new features.
- Logging and performance metrics must provide actionable information to be able to provide debugging information and alerts.
- Must scale to meet user demand.

For this question, refer to the HipLocal case study.

A recent security audit discovers that HipLocal's database credentials for their Compute Engine-hosted MySQL databases are stored in plain text on persistent disks. HipLocal needs to reduce the risk of these credentials being stolen. What should they do?

- A. Create a service account and download its key. Use the key to authenticate to Cloud Key Management Service (KMS) to

obtain the database credentials.

- **B. Grant the roles/secretmanager.secretAccessor role to the Compute Engine service account. Store and access the database credentials with the Secret Manager API.**
- C. Create a service account and download its key. Use the key to authenticate to Cloud Key Management Service (KMS) to obtain a key used to decrypt the database credentials.
- D. Create a service account and grant it the roles/iam.serviceAccountUser role. Impersonate as this account and authenticate using the Cloud SQL Proxy.

Answer: B

Explanation:

<https://cloud.google.com/secret-manager/docs/best-practices>

NEW QUESTION # 254

Case Study 1 - HipLocal

Company Overview

HipLocal is a community application designed to facilitate communication between people in close proximity. It is used for event planning and organizing sporting events, and for businesses to connect with their local communities. HipLocal launched recently in a few neighborhoods in Dallas and is rapidly growing into a global phenomenon. Its unique style of hyper-local community communication and business outreach is in demand around the world.

Executive Statement

We are the number one local community app; it's time to take our local community services global. Our venture capital investors want to see rapid growth and the same great experience for new local and virtual communities that come online, whether their members are 10 or 10000 miles away from each other.

Solution Concept

HipLocal wants to expand their existing service, with updated functionality, in new regions to better serve their global customers. They want to hire and train a new team to support these regions in their time zones. They will need to ensure that the application scales smoothly and provides clear uptime data.

Existing Technical Environment

HipLocal's environment is a mix of on-premises hardware and infrastructure running in Google Cloud Platform. The HipLocal team understands their application well, but has limited experience in global scale applications. Their existing technical environment is as follows:

- * Existing APIs run on Compute Engine virtual machine instances hosted in GCP.
- * State is stored in a single instance MySQL database in GCP.
- * Data is exported to an on-premises Teradata/Vertica data warehouse.
- * Data analytics is performed in an on-premises Hadoop environment.
- * The application has no logging.
- * There are basic indicators of uptime; alerts are frequently fired when the APIs are unresponsive.

Business Requirements

HipLocal's investors want to expand their footprint and support the increase in demand they are seeing. Their requirements are:

- * Expand availability of the application to new regions.
- * Increase the number of concurrent users that can be supported.
- * Ensure a consistent experience for users when they travel to different regions.
- * Obtain user activity metrics to better understand how to monetize their product.
- * Ensure compliance with regulations in the new regions (for example, GDPR).
- * Reduce infrastructure management time and cost.
- * Adopt the Google-recommended practices for cloud computing.

Technical Requirements

- * The application and backend must provide usage metrics and monitoring.
- * APIs require strong authentication and authorization.
- * Logging must be increased, and data should be stored in a cloud analytics platform.
- * Move to serverless architecture to facilitate elastic scaling.
- * Provide authorized access to internal apps in a secure manner.

In order to meet their business requirements, how should HipLocal store their application state?

- **A. Replace the MySQL instance with Cloud SQL.**
- B. Move the state storage to Cloud Spanner.
- C. Put a memcache layer in front of MySQL.
- D. Use local SSDs to store state.

Answer: A

NEW QUESTION # 255

You are developing a new image processing application that needs to handle various tasks, such as resizing, cropping, and watermarking images. You also need to monitor the workflow and ensure that it scales efficiently when there are large volumes of images. You want to automate the image processing tasks and workflow monitoring with the least effort. What should you do?

- **A. Implement Workflows to orchestrate the image processing tasks. Use Cloud Logging for workflow monitoring.**
- B. Use Cloud Build to trigger Cloud Run functions for the image processing tasks. Use Cloud Monitoring for workflow monitoring.
- C. Employ Cloud Composer to manage the image processing workflows. Use Dataproc for workflow monitoring and analytics.
- D. Use Cloud Run to deploy the image processing functions. Use Apigee to expose the API. Use Cloud Logging for workflow monitoring.

Answer: A

Explanation:

<https://cloudinary.com/blog/mediaflows-automate-image-processing>

NEW QUESTION # 256

Leigh states that her MacBook Pro (Retina, 15-inch, Mid 2015) does not recognize the SD card she brought with her. You have her reproduce the issue and discover that she is properly inserting the card. However, it is not recognized by Photos or Image Capture. What question should you ask next to isolate the issue to hardware?

- **A. Have you had this issue with all SD cards or just this one?**
- B. What kind of files or images are on the SD card?
- C. Have you tried resetting your SMC and NVRAM?
- D. Are you running the latest version of Photos?

Answer: A

NEW QUESTION # 257

You are developing a corporate tool on Compute Engine for the finance department, which needs to authenticate users and verify that they are in the finance department. All company employees use G Suite.

What should you do?

- A. Enable Cloud Identity-Aware Proxy on the HTTP(s) load balancer and restrict access to a Google Group containing users in the finance department. Issue client-side certificates to everybody in the finance team and verify the certificates in the application.
- **B. Enable Cloud Identity-Aware Proxy on the HTTP(s) load balancer and restrict access to a Google Group containing users in the finance department. Verify the provided JSON Web Token within the application.**
- C. Configure Cloud Armor Security Policies to restrict access to only corporate IP address ranges. Verify the provided JSON Web Token within the application.
- D. Configure Cloud Armor Security Policies to restrict access to only corporate IP address ranges. Issue client side certificates to everybody in the finance team and verify the certificates in the application.

Answer: B

Explanation:

<https://cloud.google.com/endpoints/docs/openapi/authenticating-users-google-id>

NEW QUESTION # 258

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