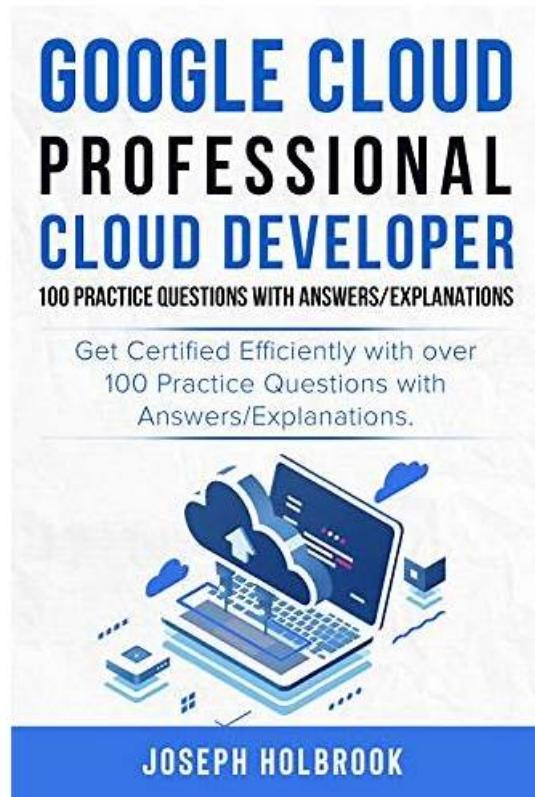


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As businesses worldwide continue to adopt cloud computing, the demand for experts who can develop cloud-based applications using various cloud services is experiencing an upward trend. It is in recognition of this need that Google Cloud offers the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

The Professional-Cloud-Developer certification is a highly rewarding certification that offers a plethora of benefits to both individuals and organizations. Google Certified Professional - Cloud Developer certification validates an individual's competence and expertise in developing and deploying applications on Google Cloud Platform. Google Certified Professional - Cloud Developer certification can lead to new job opportunities, higher salaries and recognition from peers and employers. It also demonstrates organizational

commitment to maintaining high standards of skill and expertise among the workforce.

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In the modern world, obtaining Professional-Cloud-Developer certification is essential. With the growing popularity of Google, the demand for professionals holding this Google Certified Professional - Cloud Developer (Professional-Cloud-Developer) certification holders has increased significantly. Unfortunately, many candidates fail to pass the Professional-Cloud-Developer Exam due to outdated Google Certified Professional - Cloud Developer (Professional-Cloud-Developer) exam study material. Such failure can lead to the loss of time, money, and confidence.

Google Professional-Cloud-Developer certification exam is a credential offered by Google Cloud that validates a professional's expertise in designing, developing, and deploying applications on the Google Cloud Platform. Google Certified Professional - Cloud Developer certification is intended for developers who work with Google Cloud technologies and are responsible for creating cloud-native applications. Professional-Cloud-Developer Exam is designed to test one's ability to use Google Cloud's tools and services to build scalable and fault-tolerant applications that meet business requirements.

Google Certified Professional - Cloud Developer Sample Questions (Q54-Q59):

NEW QUESTION # 54

You are designing a schema for a table that will be moved from MySQL to Cloud Bigtable. The MySQL table is as follows:

□ How should you design a row key for Cloud Bigtable for this table?

- A. Set Account_id_Event_timestamp as a key.
- B. Set Account_id as a key.
- C. Set Event_timestamp as a key.
- D. Set Event_timestamp_Account_id as a key.

Answer: A

Explanation:

Include a timestamp as part of your row key if you often need to retrieve data based on the time when it was recorded.

For example, your application might need to record performance-related data, such as CPU and memory usage, once per second for a large number of machines. Your row key for this data could combine an identifier for the machine with a timestamp for the data (for example, machine_4223421#1425330757685). Keep in mind that row keys are sorted lexicographically.

<https://cloud.google.com/bigtable/docs/schema-design>

NEW QUESTION # 55

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. **Grant the roles/secretmanager.secretAccessor role to the Compute Engine service account. Store and access the database credentials with the Secret Manager API.**
- B. 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.
- C. Create a service account and download its key. Use the key to authenticate to Cloud Key Management Service (KMS) to obtain 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: A

Explanation:

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

NEW QUESTION # 56

A governmental regulation was recently passed that affects your application. For compliance purposes, you are now required to send a duplicate of specific application logs from your application's project to a project that is restricted to the security team. What should you do?

- A. Create a job that copies the System Event logs from the _Required log bucket into the security team's log bucket in their project.
- B. **Create user-defined log buckets in the security team's project. Configure a Cloud Logging sink to route your application's logs to log buckets in the security team's project.**
- C. Create a job that copies the logs from the _Required log bucket into the security team's log bucket in their project.
- D. Modify the _Default log bucket sink rules to reroute the logs into the security team's log bucket.

Answer: B

Explanation:

<https://cloud.google.com/architecture/security-log-analytics>

NEW QUESTION # 57

You have decided to migrate your Compute Engine application to Google Kubernetes Engine. You need to build a container image and push it to Artifact Registry using Cloud Build. What should you do? (Choose two.) A) Run gcloud builds submit in the directory that contains the application source code.

B)

Run gcloud run deploy app-name --image gcr.io/\$PROJECT_ID/app-name in the directory that contains the application source code.

C)

Run gcloud container images add-tag gcr.io/\$PROJECT_ID/app-name gcr.io/\$PROJECT_ID/app-name:latest in the directory that contains the application source code.

D)

In the application source directory, create a file named cloudbuild.yaml that contains the following contents:

□

E)

In the application source directory, create a file named cloudbuild.yaml that contains the following contents:

□

- A. Option E
- B. Option B
- **C. Option A**
- D. Option C
- **E. Option D**

Answer: C,E

Explanation:

<https://cloud.google.com/sdk/gcloud/reference/builds/submit>

<https://cloud.google.com/artifact-registry/docs/configure-cloud-build>

NEW QUESTION # 58

Your application is running on Compute Engine and is showing sustained failures for a small number of requests. You have narrowed the cause down to a single Compute Engine instance, but the instance is unresponsive to SSH.

What should you do next?

- **A. Enable and check the serial port output.**
- B. Delete the machine and create a new one.
- C. Reboot the machine.
- D. Take a snapshot of the disk and attach it to a new machine.

Answer: A

Explanation:

https://cloud.google.com/compute/docs/troubleshooting/troubleshooting-ssh#debug_with_serial_console

NEW QUESTION # 59

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