

Professional-Data-Engineer Google Certified Professional Data Engineer Exam Pass4sure Zertifizierung & Google Certified Professional Data Engineer Exam zuverlässige Prüfung Übung



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Konfrontieren Sie sich in Ihrer Karriere mit Herausforderung? Wollen Sie anderen Ihre Fähigkeit zeigen? Wollen Sie mehr Chancen Ihre Arbeitsstelle erhöhen? Nehmen Sie bitte an IT-Zertifizierungsprüfungen teil. Die Google Zertifizierungsprüfungen sind sehr wichtig in IT-Industrie. Wenn Sie Google Zertifizierung besitzen, können Sie viele Hilfen bekommen. Beginnen Sie bitte mit der Google Professional-Data-Engineer Zertifizierungsprüfung, weil die sehr wichtig in Google ist. Und Wie können Sie diese Prüfung einfach bestehen? Die It-Prüfung Prüfungsunterlagen können Ihren Wunsch erreichen.

Um für die Google Professional-Data-Engineer-Prüfung zugelassen zu werden, müssen die Kandidaten ein tiefes Verständnis von Datenverarbeitungstechnologien wie Hadoop, Spark und anderen Big-Data-Frameworks haben. Sie sollten auch in Programmiersprachen wie Python, Java oder Go versiert sein und Erfahrung im Entwerfen und Entwickeln von Datenverarbeitungspipelines haben. Darüber hinaus sollten Kandidaten praktische Erfahrung in der Arbeit mit Google Cloud Plattform-Diensten wie BigQuery, Dataflow und Dataproc haben. Das Bestehen der Google Professional-Data-Engineer-Prüfung kann sich als wertvolle Ressource für Datenprofis erweisen, die ihre Karriere vorantreiben oder ihre Expertise im Umgang mit Datenlösungen in der Google Cloud demonstrieren möchten.

>> Professional-Data-Engineer Exam <<

Professional-Data-Engineer Test Dumps, Professional-Data-Engineer VCE Engine Ausbildung, Professional-Data-Engineer aktuelle Prüfung

Die Google Professional-Data-Engineer Zertifizierungsprüfung gehört zu den beliebtesten IT-Zertifizierungen. Viele ambitionierte IT-Fachleute wollen auch Google Professional-Data-Engineer Prüfung bestehen. Viele Kandidaten sollen genügend Vorbereitungen treffen, um eine hohe Note zu bekommen und sich den Bedürfnissen des Marktes anzupassen.

Google Certified Professional Data Engineer Exam Professional-Data-Engineer Prüfungsfragen mit Lösungen (Q280-Q285):

280. Frage

You need to connect multiple applications with dynamic public IP addresses to a Cloud SQL instance. You configured users with strong passwords and enforced the SSL connection to your Cloud SQL instance. You want to use Cloud SQL public IP and ensure that you have secured connections. What should you do?

- A. Add CIDR 0.0.0.0/0 network to Authorized Network. Use Cloud SQL Auth proxy on all applications.
- B. Add all application networks to Authorized Network and regularly update them.
- C. Add CIDR 0.0.0.0/0 network to Authorized Network. Use Identity and Access Management (IAM) to add users.
- **D. Leave the Authorized Network empty. Use Cloud SQL Auth proxy on all applications.**

Antwort: D

Begründung:

To securely connect multiple applications with dynamic public IP addresses to a Cloud SQL instance using public IP, the Cloud SQL Auth proxy is the best solution. This proxy provides secure, authorized connections to Cloud SQL instances without the need to configure authorized networks or deal with IP whitelisting complexities.

* Cloud SQL Auth Proxy:

* The Cloud SQL Auth proxy provides secure, encrypted connections to Cloud SQL.

* It uses IAM permissions and SSL to authenticate and encrypt the connection, ensuring data security in transit.

* By using the proxy, you avoid the need to constantly update authorized networks as the proxy handles dynamic IP addresses seamlessly.

* Authorized Network Configuration:

* Leaving the authorized network empty means no IP addresses are explicitly whitelisted, relying solely on the Auth proxy for secure connections.

* This approach simplifies network management and enhances security by not exposing the Cloud SQL instance to public IP ranges.

* Dynamic IP Handling:

* Applications with dynamic IP addresses can securely connect through the proxy without the need to modify authorized networks.

* The proxy authenticates connections using IAM, making it ideal for environments where application IPs change frequently.

Google Data Engineer References:

* Using Cloud SQL Auth Proxy

* Cloud SQL Security Overview

* Setting up the Cloud SQL Auth Proxy

By using the Cloud SQL Auth proxy, you ensure secure, authorized connections for applications with dynamic public IPs without the need for complex network configurations.

281. Frage

You want to archive data in Cloud Storage. Because some data is very sensitive, you want to use the "Trust No One" (TNO) approach to encrypt your data to prevent the cloud provider staff from decrypting your data.

a. What should you do?

- **A. Use gcloud kms keys create to create a symmetric key. Then use gcloud kms encrypt to encrypt each archival file with the key. Use gsutil cp to upload each encrypted file to the Cloud Storage bucket. Manually destroy the key previously used for encryption, and rotate the key once and rotate the key once.**
- B. Use gcloud kms keys create to create a symmetric key. Then use gcloud kms encrypt to encrypt each archival file with the key and unique additional authenticated data (AAD). Use gsutil cp to upload each encrypted file to the Cloud Storage bucket, and keep the AAD outside of Google Cloud.
- C. Specify customer-supplied encryption key (CSEK) in the .boto configuration file. Use gsutil cp to upload each archival file to the Cloud Storage bucket. Save the CSEK in Cloud Memorystore as permanent storage of the secret.
- D. Specify customer-supplied encryption key (CSEK) in the .boto configuration file. Use gsutil cp to upload each archival file to the Cloud Storage bucket. Save the CSEK in a different project that only the security team can access.

Antwort: A

282. Frage

You want to migrate an on-premises Hadoop system to Cloud Dataproc. Hive is the primary tool in use, and the data format is

Optimized Row Columnar (ORC). All ORC files have been successfully copied to a Cloud Storage bucket. You need to replicate some data to the cluster's local Hadoop Distributed File System (HDFS) to maximize performance. What are two ways to start using Hive in Cloud Dataproc? (Choose two.)

- A. Leverage Cloud Storage connector for Hadoop to mount the ORC files as external Hive tables. Replicate external Hive tables to the native ones.
- B. Run the gsutil utility to transfer all ORC files from the Cloud Storage bucket to HDFS. Mount the Hive tables locally.
- C. Load the ORC files into BigQuery. Leverage BigQuery connector for Hadoop to mount the BigQuery tables as external Hive tables. Replicate external Hive tables to the native ones.
- **D. Run the gsutil utility to transfer all ORC files from the Cloud Storage bucket to the master node of the Dataproc cluster. Then run the Hadoop utility to copy them to HDFS. Mount the Hive tables from HDFS.**
- **E. Run the gsutil utility to transfer all ORC files from the Cloud Storage bucket to any node of the Dataproc cluster. Mount the Hive tables locally.**

Antwort: D,E

283. Frage

Your Cloud Storage data lake has raw, processed, and historical data in different buckets. Data older than two years is rarely accessed, and all data must be retained for no longer than seven years. You are concerned about rising storage costs. How should you control costs for the historical data bucket?

- A. Enable the Autoclass feature on your Cloud Storage buckets and select Opt-in to object transitions to Coldline and Archive storage classes.
- B. Replicate the buckets to a different region with lower storage costs and an Object Lifecycle Management rule to delete objects after seven years.
- **C. Configure an Object Lifecycle Management rule to transition objects older than two years to the Archive storage class and eventually delete them after seven years.**
- D. Write a script on a Compute Engine instance, triggered daily by Cloud Scheduler, to scan all objects and delete any older than seven years.

Antwort: C

Begründung:

Object Lifecycle Management (OLM) is the correct and fully managed feature in Cloud Storage designed to automate transitions between storage classes and object deletion based on rules like object age, which directly addresses the scenario's requirements for cost control and retention policy.

* Cost Control and Rarely Accessed Data: The Archive storage class offers the lowest storage cost, which is ideal for data accessed less than once a year (data older than two years is "rarely accessed").

OLM can automate the move to this class.

* Retention Policy: OLM rules can include a Delete action based on a condition like object age, ensuring the "no longer than seven years" retention policy is enforced automatically.

* Correcting other options:

* A (Custom Script): This is a custom, unmanaged, and potentially complex solution that would require maintenance and incur Compute Engine costs. OLM is the native, fully managed feature.

* C (Autoclass): Autoclass automatically manages storage classes to optimize costs, but it generally defaults to Standard for new uploads and transitions data based on access patterns.

While it is a managed service, explicitly defining a rule with a deletion policy (after seven years) and the specific transition at two years is best achieved and guaranteed with an OLM rule.

* D (Replication): Replicating to a different region increases complexity and typically incurs data transfer and duplicate storage costs, which works against the goal of controlling rising storage costs.

Reference: Google Cloud Documentation on Object Lifecycle Management and Storage Classes:

"Object Lifecycle Management (OLM) provides a method for you to automate the process of managing your objects in Cloud Storage. To configure a lifecycle configuration, you supply a set of rules that apply to current and future objects in the bucket. When an object meets the conditions in a rule, Cloud Storage performs the specified action." (Source: Object Lifecycle Management)

"Archive storage is the lowest-cost, highly durable storage service for data archiving, online backup, and disaster recovery... Archive storage is the best choice for data that you plan to access less than once a year." (Source: Storage classes, confirming Archive is best for "rarely accessed" data at the lowest cost.) Lifecycle Rules can be configured to... Change an object's storage class (e.g., from Standard to Archive when age > 2 years) and Delete older object versions or the object itself (e.g., when age > 7 years).

(Source:

Configuration examples for Object Lifecycle Management).

284. Frage

Flowlogistic's CEO wants to gain rapid insight into their customer base so his sales team can be better informed in the field. This team is not very technical, so they've purchased a visualization tool to simplify the creation of BigQuery reports. However, they've been overwhelmed by all the data in the table, and are spending a lot of money on queries trying to find the data they need. You want to solve their problem in the most cost-effective way. What should you do?

- A. Create a view on the table to present to the visualization tool.
- B. Export the data into a Google Sheet for virtualization.
- C. Create identity and access management (IAM) roles on the appropriate columns, so only they appear in a query.
- D. Create an additional table with only the necessary columns.

Antwort: A

Begründung:

Topic 2, MJTelco Case Study

Company Overview

MJTelco is a startup that plans to build networks in rapidly growing, underserved markets around the world.

The company has patents for innovative optical communications hardware. Based on these patents, they can create many reliable, high-speed backbone links with inexpensive hardware.

Company Background

Founded by experienced telecom executives, MJTelco uses technologies originally developed to overcome communications challenges in space. Fundamental to their operation, they need to create a distributed data infrastructure that drives real-time analysis and incorporates machine learning to continuously optimize their topologies. Because their hardware is inexpensive, they plan to overdeploy the network allowing them to account for the impact of dynamic regional politics on location availability and cost. Their management and operations teams are situated all around the globe creating many-to-many relationship between data consumers and provides in their system. After careful consideration, they decided public cloud is the perfect environment to support their needs.

Solution Concept

MJTelco is running a successful proof-of-concept (PoC) project in its labs. They have two primary needs:

- * Scale and harden their PoC to support significantly more data flows generated when they ramp to more than 50,000 installations.
- * Refine their machine-learning cycles to verify and improve the dynamic models they use to control topology definition.

MJTelco will also use three separate operating environments - development/test, staging, and production - to meet the needs of running experiments, deploying new features, and serving production customers.

Business Requirements

- * Scale up their production environment with minimal cost, instantiating resources when and where needed in an unpredictable, distributed telecom user community.
- * Ensure security of their proprietary data to protect their leading-edge machine learning and analysis.
- * Provide reliable and timely access to data for analysis from distributed research workers
- * Maintain isolated environments that support rapid iteration of their machine-learning models without affecting their customers.

Technical Requirements

Ensure secure and efficient transport and storage of telemetry data

Rapidly scale instances to support between 10,000 and 100,000 data providers with multiple flows each.

Allow analysis and presentation against data tables tracking up to 2 years of data storing approximately 100m records/day Support rapid iteration of monitoring infrastructure focused on awareness of data pipeline problems both in telemetry flows and in production learning cycles.

CEO Statement

Our business model relies on our patents, analytics and dynamic machine learning. Our inexpensive hardware is organized to be highly reliable, which gives us cost advantages. We need to quickly stabilize our large distributed data pipelines to meet our reliability and capacity commitments.

CTO Statement

Our public cloud services must operate as advertised. We need resources that scale and keep our data secure.

We also need environments in which our data scientists can carefully study and quickly adapt our models.

Because we rely on automation to process our data, we also need our development and test environments to work as we iterate.

CFO Statement

The project is too large for us to maintain the hardware and software required for the data and analysis. Also, we cannot afford to staff an operations team to monitor so many data feeds, so we will rely on automation and infrastructure. Google Cloud's machine learning will allow our quantitative researchers to work on our high-value problems instead of problems with our data pipelines.

285. Frage

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