Professional-Cloud-Architect Testing Engine & Professional-Cloud-Architect Fragenpool

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Professional-Cloud-Architect ist eine Google Zertifizierungsprüfung. So ist Professional-Cloud-Architect Zertifizierung der erste Schritt zur Google Zertifizierung. Deswegen ist die Professional-Cloud-Architect Zertifizierungsprüfung kürzlich immer beliebter geworden. Immer mehr Leute haben sich an der Google Professional-Cloud-Architect Zertifizierungsprüfung beteiligt. Aber die Erfolgsquote in der Prüfung ist nicht so hoch. Wählen Sie auch einschlägige Prüfungskurse, wenn Sie Professional-Cloud-Architect Prüfung ablegen möchten?

Die GCP -Prüfung ist eine angesehene Zertifizierung, die weltweit anerkannt wird. Die Zertifizierung wird an Personen vergeben, die ein detailliertes Verständnis der GCP-Plattform nachgewiesen haben und in der Lage sind, Cloud-basierte Lösungen zu entwerfen und zu implementieren, die den Anforderungen von Unternehmen und Organisationen entsprechen. Die Zertifizierungsprüfung deckt eine Reihe von Themen ab, darunter Cloud -Architektur, Infrastruktur, Sicherheit, Datenmanagement und Anwendungsentwicklung.

>> Professional-Cloud-Architect Testing Engine <<

Professional-Cloud-Architect Fragenpool, Professional-Cloud-Architect Simulationsfragen

EchteFrage setzt sich aus den riesigen IT-Eliteteams zusammen. Sie alle haben hohe Autorität im IT-Bereich. Sie nutzen professionelle Kenntnisse und Erfahrungen aus, um den an den Google Professional-Cloud-Architect Zertifizierungsprüfungen beteiligenden Kandidaten die Prüfungsunterlagen zu bieten. Die Genauigkeit von Google Professional-Cloud-Architect Fragen Und Antworten aus EchteFrage ist sehr hoch. Wir versprechen, dass Sie die Prüfung beim ersten Versuch 100% bestehen können. Außerdem stehen wir Ihnen einen einjährigen Update-Service zur Verfügung.

Google Certified Professional - Cloud Architect (GCP) Professional-Cloud-Architect Prüfungsfragen mit Lösungen (Q195-Q200):

195. Frage
You are designing a mobile chat application. You want to ensure people cannot spoof chat messages, by providing a message were sent by a specific user.
What should you do?

- A. Tag messages client side with the originating user identifier and the destination user.
- B. Use public key infrastructure (PKI) to encrypt the message client side using the originating user's private key.
- C. Encrypt the message client side using block-based encryption with a shared key.
- D. Use a trusted certificate authority to enable SSL connectivity between the client application and the server.

Antwort: B

Begründung:
It is C as client side should encrypt the message using originating cert.

196. Frage
Case Study: 13 - KnightMotives Automotive
Company Overview
KnightMotives is a car manufacturer specializing in autonomous, self-driving vehicles, including Battery Electric Vehicles (BEVs), hybrids and traditional internal combustion engine (ICE) vehicles. While KnightMotives has made strides with the in-vehicle experience in their BEV fleet, the hybrid and ICE vehicles have yet to implement these new systems and are viewed poorly by critics and drivers. The lack of modern in-vehicle technology in hybrid and ICE vehicles has resulted in declining sales and customer satisfaction.
KnightMotives wants to modernize the consumer experience across all vehicles within five years Artificial Intelligence offers a unique opportunity to revolutionize the in-vehicle experience, as well as the shopping buying and service/maintenance experience. Investment in this new technology will require a shift in financial priorities on a global scale.
KnightMotives also wants to improve their online ordering system, which is unreliable. Systems for customers to build their vehicle online for acquisition through a dealer are not delivering the data or reliability that dealers need, causing. A strain in the relationship between KnightMotives and dealers. Service technicians and sales staff need better tooling to enhance dealer successes, including built-to-order vehicles.
Solution Concept
KnightMotives wants to shift from manufacturing cars to creating a complete and compelling "automotive experience." Then strategy prioritizes delivering a consistent experience across all models, developing AI-powered features, generating new revenue from data monetization, adopting a digital focus to differentiate their brand from competitors, and developing better tools for mechanics and salespeople.
Existing Technical Environment
KnightMotives's IT is largely on-premises with some applications on major cloud platforms. Their supply chain runs on an outdated mainframe, and Enterprise Resource Planning (ERP) is also outdated, making new promotions and dealer discounts difficult to implement. Dealers have no budget for new equipment. There is fragmentation across vehicles with multiple code bases, and significant technical debt from supporting backwards compatibility. Network connectivity to manufacturing plants and vehicle connectivity in rural areas are challenges.
Business Requirements
Key business requirements include fostering a personalized relationship with the driver and delivering a cohesive experience across all models. Creating a better build-to-order model will reduce time on the lot and provide transparency for both dealers and customers. Additionally, KnightMotives seeks to monetize corporate data to finance new technology investments, as their current AI infrastructure is obsolete and corporate data remains siloed. Security is a paramount concern due to past data breaches Adherence to European Union (EU) data protection regulations, especially for emerging autonomous platforms, is critical.
KnightMotives plans to make significant investments in fully autonomous driving capabilities, with initial implementation targeting regions with favorable regulatory environments. Prioritizing employee upskilling, attracting top-tier talent, and fostering better communication between business and technical teams are also critical objectives.
Technical Requirements
- Modernizing the in-vehicle experience includes developing a consistent user experience (UX) that seamlessly integrates AI-powered features across all models, updating in-vehicle hardware and software in legacy models to support new UX features and AI capabilities, and ensuring reliable network connectivity, especially in rural areas, to support real-time AI features and data transmission.
- Network upgrades are necessary to support increased data traffic and improve connectivity between plants and headquarters.
- IT infrastructure modernization requires adopting a hybrid cloud strategy to leverage the benefits of both on-premises and cloud infrastructure, and gradually modernizing or replacing legacy systems to improve efficiency and agility.

- Autonomous vehicle development and testing requires investing in cutting-edge AI and machine learning technologies, building a robust simulation environment, and ensuring compliance with evolving regulations related to autonomous vehicles.
- Data monetization and insights requires implementing a robust data management platform, strict data security and privacy measures, and a scalable AI/ML infrastructure.
- Increased focus on security and risk management involves implementing a comprehensive security framework to protect against cyber threats and data breaches, developing an incident response plan, and providing security awareness training to employees.
- Providing a delightful experience for dealers and customers requires improving the online build-to-order system; developing modern dealer tools to streamline dealer operations, including sales, service, and inventory management; and implementing a comprehensive Customer Relationship Management (CRM) system to track customer interactions personalize experiences, and improve customer satisfaction.

Executive Statement
KnightMotives is committed to enhancing safety and saving lives by leveraging an extensive body of data - encompassing driving, road conditions, behavioral studies, and crash safety statistics - to create compelling digital experiences for drivers. Our AI consistently outperforms national safety statistics, ensuring the unique and coveted KnightMotives experience is aligned across all our vehicle models.
Michael Knight, KnightMotives CEO
For this question, refer to the KnightMotives Automotive case study. KnightMotives has developed and deployed a model on Vertex AI that can provide personalized recommendations in the new car configuration application. Customers will receive optional equipment recommendations that best suit their persona. Previous usage data from the car configuration application has been used for model training features. You know from past experience that customer behavior can change over time. For example, in times of economic certainty and rising stock markets, customers tend to purchase more expensive options. You want to detect when customer behavior gradually changes over time so you can adjust the model. What should you do?

- A. Configure Dataplex auto data quality on the prediction request data features using aggregate rules.
- B. Configure Model Monitoring, and select prediction drift detection.
- C. Configure Dataplex auto data quality on the prediction request data features using row-level rules.
- D. Configure Model Monitoring, and select training-serving skew detection.

Antwort: B

Begründung:
Prediction drift detection in Vertex AI Model Monitoring is designed to identify gradual changes in the distribution of incoming prediction features (and/or outputs) compared with a baseline, which is exactly what you need to catch shifts in customer behavior over time and trigger model review or retraining.

197. Frage
Your application needs to process credit card transactions. You want the smallest scope of Payment Card Industry (PCI) compliance without compromising the ability to analyze transactional data and trends relating to which payment methods are used. How should you design your architecture?

- A. Create separate subnetworks and isolate the components that process credit card data.
- B. Create a tokenizer service and store only tokenized data.
- C. Create separate projects that only process credit card data.
- D. Enable Logging export to Google BigQuery and use ACLs and views to scope the data shared with the auditor.
- E. Streamline the audit discovery phase by labeling all of the virtual machines (VMs) that process PCI data.

Antwort: B

Begründung:
Tokenization, when applied to data security, is the process of substituting a sensitive data element with a non-sensitive equivalent, referred to as a token, that has no extrinsic or exploitable meaning or value. The token is a reference that maps back to the sensitive data through a tokenization system.
https://cloud.google.com/solutions/tokenizing-sensitive-cardholder-data-for-pci-dss

198. Frage
Case Study: 6 - TerramEarth
Company Overview

TerramEarth manufactures heavy equipment for the mining and agricultural industries. About
80% of their business is from mining and 20% from agriculture. They currently have over 500 dealers and service centers in 100 countries. Their mission is to build products that make their customers more productive.
Solution Concept
There are 20 million TerramEarth vehicles in operation that collect 120 fields of data per second.
Data is stored locally on the vehicle and can be accessed for analysis when a vehicle is serviced.
The data is downloaded via a maintenance port. This same port can be used to adjust operational parameters, allowing the vehicles to be upgraded in the field with new computing modules.
Approximately 200,000 vehicles are connected to a cellular network, allowing TerramEarth to collect data directly. At a rate of 120 fields of data per second with 22 hours of operation per day, TerramEarth collects a total of about 9 TB/day from these connected vehicles.
Existing Technical Environment
TerramEarth's existing architecture is composed of Linux and Windows-based systems that reside in a single U.S. west coast based data center. These systems gzip CSV files from the field and upload via FTP, and place the data in their data warehouse. Because this process takes time, aggregated reports are based on data that is 3 weeks old.
With this data, TerramEarth has been able to preemptively stock replacement parts and reduce unplanned downtime of their vehicles by 60%. However, because the data is stale, some customers are without their vehicles for up to 4 weeks while they wait for replacement parts.
Business Requirements
- Decrease unplanned vehicle downtime to less than 1 week.
- Support the dealer network with more data on how their customers use their equipment to better
position new products and services
- Have the ability to partner with different companies - especially with seed and fertilizer suppliers
in the fast-growing agricultural business - to create compelling joint offerings for their customers.
Technical Requirements
- Expand beyond a single datacenter to decrease latency to the American Midwest and east
coast.
- Create a backup strategy.
- Increase security of data transfer from equipment to the datacenter.
- Improve data in the data warehouse.
- Use customer and equipment data to anticipate customer needs.
Application 1: Data ingest
A custom Python application reads uploaded datafiles from a single server, writes to the data warehouse.
Compute:
- Windows Server 2008 R2
- 16 CPUs
- 128 GB of RAM
- 10 TB local HDD storage
Application 2: Reporting
An off the shelf application that business analysts use to run a daily report to see what equipment needs repair. Only 2 analysts of a team of 10 (5 west coast, 5 east coast) can connect to the reporting application at a time.
Compute:
- Off the shelf application. License tied to number of physical CPUs
- Windows Server 2008 R2
- 16 CPUs
- 32 GB of RAM
- 500 GB HDD
Data warehouse:
- A single PostgreSQL server
- RedHat Linux
- 64 CPUs
- 128 GB of RAM
- 4x 6TB HDD in RAID 0
Executive Statement
Our competitive advantage has always been in the manufacturing process, with our ability to build better vehicles for lower cost than our competitors. However, new products with different approaches are constantly being developed, and I'm concerned that we lack the skills to undergo the next wave of transformations in our industry. My goals are to build our skills while addressing immediate market needs through incremental innovations.
TerramEarth has decided to store data files in Cloud Storage. You need to configure Cloud Storage lifecycle rule to store 1 year of data and minimize file storage cost.
Which two actions should you take?

- A. Create a Cloud Storage lifecycle rule with Age: "30", Storage Class: "Standard", and Action: "Set to Coldline", and create a second GCS life-cycle rule with Age: "365", Storage Class: "Nearline", and Action: "Delete".
- B. Create a Cloud Storage lifecycle rule with Age: "30", Storage Class: "Coldline", and Action: "Set to Nearline", and create a second GCS life-cycle rule with Age: "91", Storage Class: "Coldline", and Action: "Set to Nearline".
- C. Create a Cloud Storage lifecycle rule with Age: "90", Storage Class: "Standard", and Action: "Set to Nearline", and create a second GCS life-cycle rule with Age: "91", Storage Class: "Nearline", and Action: "Set to Coldline".
- D. Create a Cloud Storage lifecycle rule with Age: "30", Storage Class: "Standard", and Action: "Set to Coldline", and create a second GCS life-cycle rule with Age: "365", Storage Class: "Coldline", and Action: "Delete".

Antwort: D

Begründung:
https://cloud.google.com/storage/docs/storage-classes#available_storage_classes

199. Frage
TerramEarth plans to connect all 20 million vehicles in the field to the cloud. This increases the volume to 20 million 600 byte records a second for 40 TB an hour.
How should you design the data ingestion?

- A. Vehicles write data directly to GCS
- B. Vehicles write data directly to Google Cloud Pub/Sub
- C. Vehicles stream data directly to Google BigQuery
- D. Vehicles continue to write data using the existing system (FTP)

Antwort: C

Begründung:
Streamed data is available for real-time analysis within a few seconds of the first streaming insertion into a table.
Instead of using a job to load data into BigQuery, you can choose to stream your data into BigQuery one record at a time by using the tabledata().insertAll() method. This approach enables querying data without the delay of running a load job.
Reference: https://cloud.google.com/bigquery/streaming-data-into-bigquery

200. Frage
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