

# Professional-Data-Engineer Hot Questions - Professional-Data-Engineer New Question



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When looking for a job, of course, a lot of companies what the personnel managers will ask applicants that have you get the Professional-Data-Engineer certification to prove their abilities, therefore, we need to use other ways to testify our knowledge we get when we study at college , such as get the Professional-Data-Engineer Test Prep to obtained the qualification certificate to show their own all aspects of the comprehensive abilities, and the Professional-Data-Engineer exam guide can help you in a very short period of time to prove yourself perfectly and efficiently.

Google Professional-Data-Engineer Certification Exam comprises of multiple-choice and multiple-select questions that require a thorough understanding of Google Cloud Platform services such as BigQuery, Google Cloud Storage, and Google Cloud Dataflow. Professional-Data-Engineer exam also tests an individual's knowledge of data processing patterns and best practices, understanding of machine learning models and algorithms, and proficiency in designing and deploying solutions that meet business requirements.

>> Professional-Data-Engineer Hot Questions <<

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## Google Certified Professional Data Engineer Exam Sample Questions (Q113-Q118):

### NEW QUESTION # 113

You are developing a model to identify the factors that lead to sales conversions for your customers. You have completed processing your data. You want to continue through the model development lifecycle. What should you do next?

- A. Delineate what data will be used for testing and what will be used for training the model.
- B. Use your model to run predictions on fresh customer input data.
- C. Test and evaluate your model on your curated data to determine how well the model performs.
- D. Monitor your model performance, and make any adjustments needed.

**Answer: A**

Explanation:

After processing your data, the next step in the model development lifecycle is to test and evaluate your model on the curated data. This is crucial to determine the performance of the model and to understand how well it can predict sales conversions for your

customers. The evaluation phase involves using various metrics and techniques to assess the accuracy, precision, recall, and other relevant performance indicators of the model. It helps in identifying any issues or areas for improvement before deploying the model in a production environment. Reference:: The information provided here is verified by the Google Professional Data Engineer Certification Exam Guide and related resources, which outline the steps and best practices in the model development lifecycle

## NEW QUESTION # 114

Case Study: 1 - Flowlogistic

Company Overview

Flowlogistic is a leading logistics and supply chain provider. They help businesses throughout the world manage their resources and transport them to their final destination. The company has grown rapidly, expanding their offerings to include rail, truck, aircraft, and oceanic shipping.

Company Background

The company started as a regional trucking company, and then expanded into other logistics market.

Because they have not updated their infrastructure, managing and tracking orders and shipments has become a bottleneck. To improve operations, Flowlogistic developed proprietary technology for tracking shipments in real time at the parcel level. However, they are unable to deploy it because their technology stack, based on Apache Kafka, cannot support the processing volume. In addition, Flowlogistic wants to further analyze their orders and shipments to determine how best to deploy their resources.

Solution Concept

Flowlogistic wants to implement two concepts using the cloud:

Use their proprietary technology in a real-time inventory-tracking system that indicates the location of their loads. Perform analytics on all their orders and shipment logs, which contain both structured and unstructured data, to determine how best to deploy resources, which markets to expand into. They also want to use predictive analytics to learn earlier when a shipment will be delayed.

Existing Technical Environment

Flowlogistic architecture resides in a single data center:

Databases

8 physical servers in 2 clusters

SQL Server - user data, inventory, static data

3 physical servers

Cassandra - metadata, tracking messages

10 Kafka servers - tracking message aggregation and batch insert

Application servers - customer front end, middleware for order/customs 60 virtual machines across 20 physical servers Tomcat -

Java services Nginx - static content Batch servers Storage appliances iSCSI for virtual machine (VM) hosts Fibre Channel storage

area network (FC SAN) ?SQL server storage Network-attached storage (NAS) image storage, logs, backups Apache Hadoop

/Spark servers Core Data Lake Data analysis workloads

20 miscellaneous servers

Jenkins, monitoring, bastion hosts,

Business Requirements

Build a reliable and reproducible environment with scaled parity of production. Aggregate data in a centralized Data Lake for analysis. Use historical data to perform predictive analytics on future shipments. Accurately track every shipment worldwide using proprietary technology. Improve business agility and speed of innovation through rapid provisioning of new resources. Analyze and optimize architecture for performance in the cloud. Migrate fully to the cloud if all other requirements are met. Technical Requirements: Handle both streaming and batch data. Migrate existing Hadoop workloads. Ensure architecture is scalable and elastic to meet the changing demands of the company.

Use managed services whenever possible

Encrypt data flight and at rest

Connect a VPN between the production data center and cloud environment. **CEO Statement** We have grown so quickly that our inability to upgrade our infrastructure is really hampering further growth and efficiency. We are efficient at moving shipments around the world, but we are inefficient at moving data around.

We need to organize our information so we can more easily understand where our customers are and what they are shipping.

**CTO Statement**

IT has never been a priority for us, so as our data has grown, we have not invested enough in our technology. I have a good staff to manage IT, but they are so busy managing our infrastructure that I cannot get them to do the things that really matter, such as organizing our data, building the analytics, and figuring out how to implement the CFO's tracking technology.

**CFO Statement**

Part of our competitive advantage is that we penalize ourselves for late shipments and deliveries. Knowing where our shipments are at all times has a direct correlation to our bottom line and profitability.

Additionally, I don't want to commit capital to building out a server environment.

Flowlogistic wants to use Google BigQuery as their primary analysis system, but they still have Apache Hadoop and Spark workloads that they cannot move to BigQuery. Flowlogistic does not know how to store the data that is common to both

workloads. What should they do?

- A. Store the common data in BigQuery and expose authorized views.
- B. Store the common data in BigQuery as partitioned tables.
- C. Store the common data encoded as Avro in Google Cloud Storage.
- D. Store the common data in the HDFS storage for a Google Cloud Dataproc cluster.

**Answer: A**

#### NEW QUESTION # 115

Government regulations in your industry mandate that you have to maintain an auditable record of access to certain types of data. Assuming that all expiring logs will be archived correctly, where should you store data that is subject to that mandate?

- A. In a BigQuery dataset that is viewable only by authorized personnel, with the Data Access log used to provide the auditability.
- B. In Cloud SQL, with separate database user names to each user. The Cloud SQL Admin activity logs will be used to provide the auditability.
- C. In a bucket on Cloud Storage that is accessible only by an AppEngine service that collects user information and logs the access before providing a link to the bucket.
- D. Encrypted on Cloud Storage with user-supplied encryption keys. A separate decryption key will be given to each authorized user.

**Answer: A**

Explanation:

Bigquery is used to analyse access logs, data access logs capture the details of the user that accessed the data.

#### NEW QUESTION # 116

Your company needs to upload their historic data to Cloud Storage. The security rules don't allow access from external IPs to their on-premises resources. After an initial upload, they will add new data from existing on-premises applications every day. What should they do?

- A. Execute `gsutil rsync` from the on-premises servers.
- B. Use Cloud Dataflow and write the data to Cloud Storage.
- C. Write a job template in Cloud Dataproc to perform the data transfer.
- D. Install an FTP server on a Compute Engine VM to receive the files and move them to Cloud Storage.

**Answer: A**

#### NEW QUESTION # 117

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

**Answer: C**

#### NEW QUESTION # 118

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