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Google Professional-Data-Engineer certification is a highly respected and sought-after credential in the field of data engineering. Google Certified Professional Data Engineer Exam certification is offered by Google Cloud and is designed for professionals who are skilled in designing and building data processing systems on the Google Cloud Platform. Professional-Data-Engineer Exam Tests candidates' knowledge of data engineering principles, including data collection, transformation, storage, and analysis.

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Google Certified Professional Data Engineer Exam Sample Questions (Q260-Q265):

NEW QUESTION # 260

Your organization has two Google Cloud projects, project A and project B. In project A, you have a Pub/Sub topic that receives data from confidential sources. Only the resources in project A should be able to access the data in that topic. You want to ensure that project B and any future project cannot access data in the project A topic. What should you do?

- A. Configure VPC Service Controls in the organization with a perimeter around the VPC of project A.

- B. Add firewall rules in project A so only traffic from the VPC in project A is permitted.
- C. Use Identity and Access Management conditions to ensure that only users and service accounts in project A can access resources in project.
- D. Configure VPC Service Controls in the organization with a perimeter around project A.

Answer: C

Explanation:

Identity and Access Management (IAM) is the recommended way to control access to Pub/Sub resources, such as topics and subscriptions. IAM allows you to grant roles and permissions to users and service accounts at the project level or the individual resource level. You can also use IAM conditions to specify additional attributes for granting or denying access, such as time, date, or origin. By using IAM conditions, you can ensure that only the resources in project A can access the data in the project A topic, regardless of the network configuration or the VPC Service Controls. You can also prevent project B and any future project from accessing the data in the project A topic by not granting them any roles or permissions on the topic.

Option A is not a good solution, as VPC Service Controls are designed to prevent data exfiltration from Google Cloud resources to the public internet, not to control access between Google Cloud projects. VPC Service Controls create a perimeter around the resources of one or more projects, and restrict the communication with resources outside the perimeter. However, VPC Service Controls do not apply to Pub/Sub, as Pub/Sub is not associated with any specific IP address or VPC network. Therefore, configuring VPC Service Controls with a perimeter around the VPC of project A would not prevent project B or any future project from accessing the data in the project A topic, if they have the necessary IAM roles and permissions.

Option B is not a good solution, as firewall rules are used to control the ingress and egress traffic to and from the VPC network of a project. Firewall rules do not apply to Pub/Sub, as Pub/Sub is not associated with any specific IP address or VPC network.

Therefore, adding firewall rules in project A to only permit traffic from the VPC in project A would not prevent project B or any future project from accessing the data in the project A topic, if they have the necessary IAM roles and permissions.

Option C is not a good solution, as VPC Service Controls are designed to prevent data exfiltration from Google Cloud resources to the public internet, not to control access between Google Cloud projects. VPC Service Controls create a perimeter around the resources of one or more projects, and restrict the communication with resources outside the perimeter. However, VPC Service Controls do not apply to Pub/Sub, as Pub/Sub is not associated with any specific IP address or VPC network. Therefore, configuring VPC Service Controls with a perimeter around project A would not prevent project B or any future project from accessing the data in the project A topic, if they have the necessary IAM roles and permissions. References: Access control with IAM | Cloud Pub/Sub Documentation | Google Cloud, [Using IAM Conditions | Cloud IAM Documentation | Google Cloud], [VPC Service Controls overview | Google Cloud], [Using VPC Service Controls | Google Cloud], [Pub/Sub tier capabilities | Memorystore for Redis | Google Cloud].

NEW QUESTION # 261

Why do you need to split a machine learning dataset into training data and test data?

- A. To allow you to create unit tests in your code
- B. So you can use one dataset for a wide model and one for a deep model
- C. So you can try two different sets of features
- D. To make sure your model is generalized for more than just the training data

Answer: D

Explanation:

Explanation

The flaw with evaluating a predictive model on training data is that it does not inform you on how well the model has generalized to new unseen data. A model that is selected for its accuracy on the training dataset rather than its accuracy on an unseen test dataset is very likely to have lower accuracy on an unseen test dataset. The reason is that the model is not as generalized. It has specialized to the structure in the training dataset. This is called overfitting.

Reference: <https://machinelearningmastery.com/a-simple-intuition-for-overfitting/>

NEW QUESTION # 262

You are choosing a NoSQL database to handle telemetry data submitted from millions of Internet-of-Things (IoT) devices. The volume of data is growing at 100 TB per year, and each data entry has about 100 attributes. The data processing pipeline does not require atomicity, consistency, isolation, and durability (ACID). However, high availability and low latency are required.

You need to analyze the data by querying against individual fields. Which three databases meet your requirements? (Choose three.)

- A. Cassandra
- B. HDFS with Hive
- C. MySQL
- D. HBase
- E. MongoDB
- F. Redis

Answer: B,D,E

NEW QUESTION # 263

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

Answer: D

NEW QUESTION # 264

You are developing an application on Google Cloud that will automatically generate subject labels for users' blog posts. You are under competitive pressure to add this feature quickly, and you have no additional developer resources. No one on your team has experience with machine learning. What should you do?

- A. Call the Cloud Natural Language API from your application. Process the generated Sentiment Analysis as labels.
- B. Call the Cloud Natural Language API from your application. Process the generated Entity Analysis as labels.
- C. Build and train a text classification model using TensorFlow. Deploy the model using Cloud Machine Learning Engine. Call the model from your application and process the results as labels.
- D. Build and train a text classification model using TensorFlow. Deploy the model using a Kubernetes Engine cluster. Call the model from your application and process the results as labels.

Answer: B

NEW QUESTION # 265

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As a member of the people working in the Professional-Data-Engineer industry, do you have a headache for passing some Google certification exams? Generally, Professional-Data-Engineer certification exams are used to test the examinee's related Professional-Data-Engineer professional knowledge and experience and it is not easy pass these exams. For the examinees who are the first time to participate Professional-Data-Engineer certification exam, choosing a good pertinent training program is very necessary. Lead1Pass can offer a specific training program for many examinees participating in Google certification exams. Our training program includes simulation test before the formal examination, specific training course and the current exam which has 95% similarity with the real exam. Please add Lead1Pass to you shopping car quickly.

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