

# PR PROFESSIONAL-DATA-ENGINEER<sup>Q&As</sup>

Professional Data Engineer on Google Cloud Platform

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## QUESTION 1

As your organization expands its usage of GCP, many teams have started to create their own projects. Projects are further multiplied to accommodate different stages of deployments and target audiences. Each project requires unique access control configurations. The central IT team needs to have access to all projects. Furthermore, data from Cloud Storage buckets and BigQuery datasets must be shared for use in other projects in an ad hoc way. You want to simplify access control management by minimizing the number of policies.

Which two steps should you take? Choose 2 answers.

- A. Use Cloud Deployment Manager to automate access provision.
- B. Introduce resource hierarchy to leverage access control policy inheritance.
- C. Create distinct groups for various teams, and specify groups in Cloud IAM policies.
- D. Only use service accounts when sharing data for Cloud Storage buckets and BigQuery datasets.
- E. For each Cloud Storage bucket or BigQuery dataset, decide which projects need access. Find all the active members who have access to these projects, and create a Cloud IAM policy to grant access to all these users.

Correct Answer: BC

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## QUESTION 2

A TensorFlow machine learning model on Compute Engine virtual machines (n2-standard - 32) takes two days to complete training.

The model has custom TensorFlow operations that must run partially on a CPU

You want to reduce the training time in a cost-effective manner. What should you do?

- A. Change the VM type to n2-highmem-32
- B. Change the VM type to e2 standard-32
- C. Train the model using a VM with a GPU hardware accelerator
- D. Train the model using a VM with a TPU hardware accelerator

Correct Answer: C

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## QUESTION 3

Your company maintains a hybrid deployment with GCP, where analytics are performed on your anonymized customer data. The data are imported to Cloud Storage from your data center through parallel uploads to a data transfer server running on GCP. Management informs you that the daily transfers take too long and have asked you to fix the problem. You want to maximize transfer speeds. Which action should you take?

- A. Increase the CPU size on your server.
- B. Increase the size of the Google Persistent Disk on your server.
- C. Increase your network bandwidth from your datacenter to GCP.
- D. Increase your network bandwidth from Compute Engine to Cloud Storage.

Correct Answer: C

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#### QUESTION 4

You are designing storage for 20 TB of text files as part of deploying a data pipeline on Google Cloud. Your input data is in CSV format. You want to minimize the cost of querying aggregate values for multiple users who will query the data in Cloud Storage with multiple engines. Which storage service and schema design should you use?

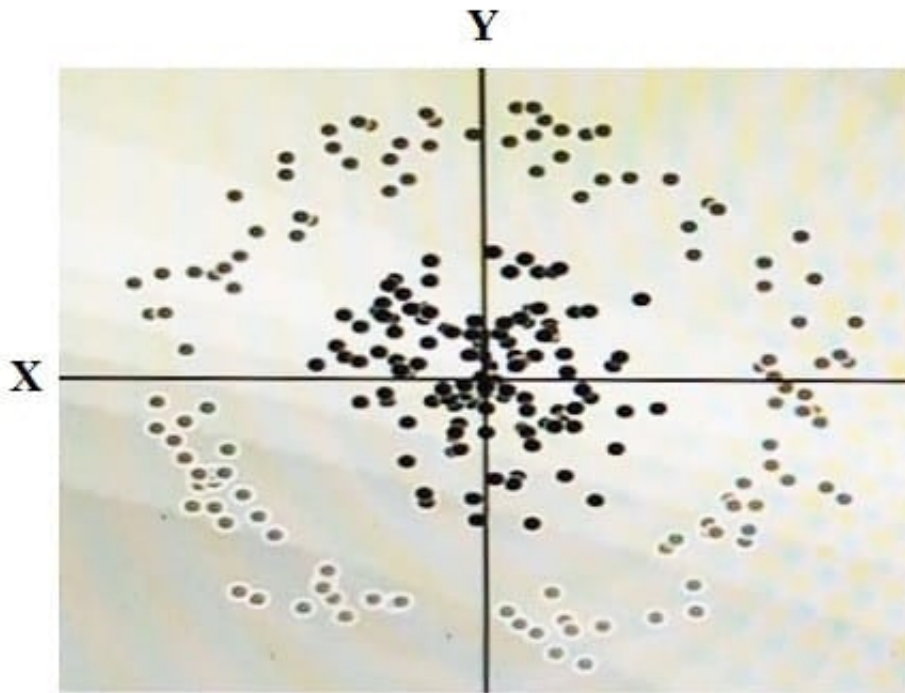
- A. Use Cloud Bigtable for storage. Install the HBase shell on a Compute Engine instance to query the Cloud Bigtable data.
- B. Use Cloud Bigtable for storage. Link as permanent tables in BigQuery for query.
- C. Use Cloud Storage for storage. Link as permanent tables in BigQuery for query.
- D. Use Cloud Storage for storage. Link as temporary tables in BigQuery for query.

Correct Answer: C

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#### QUESTION 5

You have some data, which is shown in the graphic below. The two dimensions are X and Y, and the shade of each dot represents what class it is. You want to classify this data accurately using a linear algorithm. To do this you need to add a synthetic feature. What should the value of that feature be?



- A.  $X^2+Y^2$
- B.  $X^2$
- C.  $Y^2$
- D.  $\cos(X)$

Correct Answer: A

linear circle  $X^2+Y^2$  <https://www.stat.cmu.edu/~cshalizi/dm/20/lectures/08/lecture-08.html>

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