

Q&As

Professional Cloud Architect on Google Cloud Platform

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QUESTION 1

You are responsible for the Google Cloud environment in your company. Multiple departments need access to their own projects, and the members within each department will have the same project responsibilities. You want to structure your Google Cloud environment for minimal maintenance and maximum overview of IAM permissions as each department\\'s projects start and end. You want to follow Google-recommended practices. What should you do?

- A. Grant all department members the required IAM permissions for their respective projects.
- B. Create a Google Group per department and add all department members to their respective groups. Create a folder per department and grant the respective group the required IAM permissions at the folder level. Add the projects under the respective folders.
- C. Create a folder per department and grant the respective members of the department the required IAM permissions at the folder level. Structure all projects for each department under the respective folders.
- D. Create a Google Group per department and add all department members to their respective groups. Grant each group the required IAM permissions for their respective projects.

Correct Answer: B

QUESTION 2

One of your primary business objectives is being able to trust the data stored in your application. You want to log all changes to the application data.

How can you design your logging system to verify authenticity of your logs?

- A. Write the log concurrently in the cloud and on premises
- B. Use a SQL database and limit who can modify the log table
- C. Digitally sign each timestamp and log entry and store the signature
- D. Create a JSON dump of each log entry and store it in Google Cloud Storage

Correct Answer: C

QUESTION 3

Mountkirk Games has deployed their new backend on Google Cloud Platform (GCP). You want to create a through testing process for new versions of the backend before they are released to the public. You want the testing environment to scale in an economical way. How should you design the process?

- A. Create a scalable environment in GCP for simulating production load
- B. Use the existing infrastructure to test the GCP-based backend at scale
- C. Build stress tests into each component of your application using resources internal to GCP to simulate load
- D. Create a set of static environments in GCP to test different levels of load ?for example, high, medium, and low

Correct Answer: A

From scenario: Requirements for Game Backend Platform

1.

Dynamically scale up or down based on game activity

2.

Connect to a managed NoSQL database service

3.

Run customize Linux distro

QUESTION 4

For this question, refer to the TerramEarth case study. TerramEarth has about 1 petabyte (PB) of vehicle testing data in a private data center. You want to move the data to Cloud Storage for your machine learning team. Currently, a 1-Gbps interconnect link is available for you. The machine learning team wants to start using the data in a month. What should you do?

- A. Request Transfer Appliances from Google Cloud, export the data to appliances, and return the appliances to Google Cloud.
- B. Configure the Storage Transfer service from Google Cloud to send the data from your data center to Cloud Storage.
- C. Make sure there are no other users consuming the 1Gbps link, and use multi-thread transfer to upload the data to Cloud Storage.
- D. Export files to an encrypted USB device, send the device to Google Cloud, and request an import of the data to Cloud Storage.

Correct Answer: A

QUESTION 5

An application development team has come to you for advice. They are planning to write and deploy an HTTP(S) API using Go 1.12. The API will have a very unpredictable workload and must remain reliable during peaks in traffic. They want to minimize operational overhead for this application. Which approach should you recommend?

- A. Develop the application with containers, and deploy to Google Kubernetes Engine.
- B. Develop the application for App Engine standard environment.
- C. Use a Managed Instance Group when deploying to Compute Engine.
- D. Develop the application for App Engine flexible environment, using a custom runtime.

Correct Answer: B



https://cloud.google.com/appengine/docs/the-appengine-environments

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