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Google Professional-Cloud-Security-Engineer Exam is a certification test that validates a candidate's knowledge and skills in securing applications, data, and infrastructure on the Google Cloud Platform (GCP). Professional-Cloud-Security-Engineer exam is designed for security professionals who want to demonstrate their expertise in implementing security solutions on the GCP. Google Cloud Certified - Professional Cloud Security Engineer Exam certification is one of the most prestigious in the industry, making it an essential qualification for anyone seeking a career in cloud security.

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Google Professional-Cloud-Security-Engineer Exam consists of multiple-choice and multiple-select questions that must be completed within two hours. To pass the exam, candidates must obtain a minimum score of 75%. Professional-Cloud-Security-Engineer exam fee is \$200, and it can be taken online or at a testing center. Upon passing the exam, candidates receive a certificate that demonstrates their expertise in securing GCP solutions.

Google Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q25-Q30):

NEW QUESTION # 25

The security operations team needs access to the security-related logs for all projects in their organization.

They have the following requirements:

Follow the least privilege model by having only view access to logs.

Have access to Admin Activity logs.

Have access to Data Access logs.

Have access to Access Transparency logs.

Which Identity and Access Management (IAM) role should the security operations team be granted?

- A. roles/viewer
- **B. roles/logging.privateLogViewer**
- C. roles/logging.viewer
- D. roles/logging.admin

Answer: B

Explanation:

Explanation

<https://cloud.google.com/logging/docs/access-control#considerations> roles/logging.privateLogViewer (Private Logs Viewer) includes all the permissions contained by roles/logging.viewer, plus the ability to read Data Access audit logs in the _Default bucket.

NEW QUESTION # 26

You need to centralize your team's logs for production projects. You want your team to be able to search and analyze the logs using Logs Explorer. What should you do?

- A. Enable Cloud Monitoring workspace, and add the production projects to be monitored.
- B. Use Logs Explorer at the organization level and filter for production project logs.
- **C. Create an aggregate org sink at the parent folder of the production projects, and set the destination to a logs bucket.**
- D. Create an aggregate org sink at the parent folder of the production projects, and set the destination to a Cloud Storage bucket.

Answer: C

Explanation:

Explanation

https://cloud.google.com/logging/docs/export/aggregate_sinks#supported-destinations You can use aggregated sinks to route logs within or between the same organizations and folders to the following destinations: - Another Cloud Logging bucket: Log entries held in Cloud Logging log buckets.

NEW QUESTION # 27

Your organization is developing a sophisticated machine learning (ML) model to predict customer behavior for targeted marketing campaigns. The BigQuery dataset used for training includes sensitive personal information. You must design the security controls around the AI/ML pipeline. Data privacy must be maintained throughout the model's lifecycle and you must ensure that personal data

is not used in the training process. Additionally, you must restrict access to the dataset to an authorized subset of people only. What should you do?

- **A. De-identify sensitive data before model training by using Cloud Data Loss Prevention (DLP) APIs, and implement strict Identity and Access Management (IAM) policies to control access to BigQuery.**
- B. Deploy the model on Confidential VMs for enhanced protection of data and code while in use. Implement strict Identity and Access Management (IAM) policies to control access to BigQuery.
- C. Implement at-rest encryption by using customer-managed encryption keys (CMEK) for the pipeline. Implement strict Identity and Access Management (IAM) policies to control access to BigQuery.
- D. Implement Identity-Aware Proxy to enforce context-aware access to BigQuery and models based on user identity and device.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The core security and privacy requirement is to prevent personal data from being used in the training process, which necessitates de-identification. Cloud Data Loss Prevention (DLP), also referred to as Sensitive Data Protection (SDP), is the specific Google Cloud tool for this purpose. The secondary requirement, restricting access, is handled by IAM.

Extracts:

"Sensitive Data Protection (SDP)... De-identification enables you to transform your data to reduce data risk while retaining data utility." (Source 1.4)

"De-identification techniques like encryption, obfuscate raw sensitive identifiers in your data. These techniques let you preserve the utility of your data for joining or analytics, while reducing the risk of handling the data." (Source 1.1)

"DLP provides tools to classify and de-identify sensitive elements or unwanted content within your data..."

Find and remove sensitive elements from your data before model training." (Source 1.4) IAM policies are the standard mechanism to satisfy the requirement to "restrict access to the dataset to an authorized subset of people only." Option B combines the precise technical solution for privacy (DLP De-identification) with the necessary access control (IAM).

NEW QUESTION # 28

A manager wants to start retaining security event logs for 2 years while minimizing costs. You write a filter to select the appropriate log entries.

Where should you export the logs?

- A. BigQuery datasets
- B. Cloud Pub/Sub topics
- C. StackDriver logging
- **D. Cloud Storage buckets**

Answer: D

Explanation:

To retain security event logs for 2 years while minimizing costs, exporting the logs to Cloud Storage buckets is the most cost-effective solution. Cloud Storage provides scalable and durable storage at a lower cost compared to BigQuery, which is more suited for analytics and querying, or Cloud Pub/Sub, which is designed for messaging and stream processing.

Steps:

* Create a Cloud Storage Bucket: Set up a new Cloud Storage bucket configured with appropriate retention policies.

* Set Up Log Export: Use the Google Cloud Console or gcloud command-line tool to create a sink that exports the selected log entries to the Cloud Storage bucket.

* Configure Retention Policy: Set the retention policy on the Cloud Storage bucket to ensure that logs are retained for the required period of 2 years.

References:

* Google Cloud: Exporting logs

* Google Cloud Storage pricing

NEW QUESTION # 29

After completing a security vulnerability assessment, you learned that cloud administrators leave Google Cloud CLI sessions open for days. You need to reduce the risk of attackers who might exploit these open sessions by setting these sessions to the minimum duration.

What should you do?

- A. Set the organization policy constraint `constraints/iam.allowServiceAccountCredentialLifetimeExtension` to one hour.
- B. Set the session duration for the Google session control to one hour.
- **C. Set the reauthentication frequency (or the Google Cloud Session Control to one hour).**
- D. Set the organization policy constraint `constraints/iam.serviceAccountKeyExpiryHours` to one hour and `inheritFromParent` to false.

Answer: C

Explanation:

To mitigate the risk posed by long-running Google Cloud CLI sessions, it is essential to enforce a reauthentication frequency. This ensures that users must periodically reauthenticate, reducing the window of opportunity for an attacker to exploit an open session. Setting the reauthentication frequency to one hour forces users to reauthenticate after this period, thereby limiting the duration an attacker can use a compromised session.

Access Google Cloud Console: Log in to your Google Cloud Console using your admin credentials.

Navigate to Security Settings: Go to the "Security" section of the Cloud Console.

Set Session Control: Under the session management settings, locate the "Reauthentication frequency" setting.

This controls how often users must reauthenticate.

Configure Reauthentication Frequency: Set the reauthentication frequency to "1 hour". This configuration will force users to reauthenticate every hour, thus limiting the duration of each session.

Save Changes: Confirm and save your changes. This setting will now apply to all users, ensuring that open sessions are minimized to a duration of one hour.

References:

Google Cloud IAM Documentation

Google Cloud Security Best Practices

NEW QUESTION # 30

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