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3. Security in Google Cloud

This is the last course that candidates should go through to prepare for the Google Professional Cloud Security Engineer exam. This training covers the security controls on Google Cloud from a wider perspective. The domains addressed here include the mitigation techniques used to manage attacks at different points within a Google-centered infrastructure. These include phishing attacks, threats associated with content use or classification, and the distributed denial-of-service (DDoS).

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To qualify for this certification, candidates must have a minimum of three years of experience working in IT security, with at least one year of managing GCP security solutions. It is also recommended that aspiring professionals who desire to take the certification exam embark on the Google Cloud Certified Professional Cloud Architect certification to gain basic knowledge of GCP infrastructure and services.

Available Skill Badges

The Google skill badges are a form of training that allows candidates to demonstrate their understanding of Google concepts at this level. For the Google Professional Cloud Security Engineer exam, the most popular badges include the following:

- Create and Manage Cloud Resources
- Build and Secure Networks in Google Cloud
- Ensure Access and Identity in Google Cloud
- Secure Workloads in Google Kubernetes Engine

Google Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q74-Q79):

NEW QUESTION # 74
You are migrating your users to Google Cloud. There are cookie replay attacks with Google web and Google Cloud CLI SDK sessions on endpoint devices. You need to reduce the risk of these threats.
What should you do? (Choose two.)

- A. Set a reauthentication policy for Google Cloud services to a shorter duration.
- B. Enforce Security Key Authentication with 2SV.
- C. Configure Google session control to a shorter duration.
- D. Configure a third-party identity provider with session management.
- E. Set an organizational policy for OAuth 2.0 access token with a shorter duration.

Answer: B,C

Explanation:
Configuring Google session control to a shorter duration reduces the time window in which an attacker can use a replayed cookie to gain unauthorized access, thereby enhancing security.
Enforcing Security Key Authentication with 2-Step Verification (2SV) adds an additional layer of security by requiring users to verify their identity using a physical security key, making it more difficult for attackers to gain unauthorized access even if they have a replayed cookie.

NEW QUESTION # 75
Your company is storing sensitive data in Cloud Storage. You want a key generated on-premises to be used in the encryption process.
What should you do?

- A. Use customer-supplied encryption keys to manage the key encryption key (KEK).
- B. Use the Cloud Key Management Service to manage a data encryption key (DEK).
- C. Use the Cloud Key Management Service to manage a key encryption key (KEK).
- D. Use customer-supplied encryption keys to manage the data encryption key (DEK).

Answer: D

Explanation:
This is a Customer-supplied encryption keys (CSEK).
We generate our own encryption key and manage it on-premises.
A KEK never leaves Cloud KMS. There is no KEK or KMS on-premises.
Encryption at rest by default, with various key management options.
https://cloud.google.com/security/encryption-at-rest

NEW QUESTION # 76
You have an application where the frontend is deployed on a managed instance group in subnet A and the data layer is stored on a mysql Compute Engine virtual machine (VM) in subnet B on the same VPC. Subnet A and Subnet B hold several other Compute Engine VMs. You only want to allow thee application frontend to access the data in the application's mysql instance on port 3306.
What should you do?

- A. Configure a network tag "fe-tag" to be applied to all instances in subnet A and a network tag "data-tag" to be applied to all instances in subnet B. Then configure an egress firewall rule that allows communication from Compute Engine VMs tagged

with data-tag to destination Compute Engine VMs tagged fe-tag.

- B. Configure a network tag "fe-tag" to be applied to all instances in subnet A and a network tag "data-tag" to be applied to all instances in subnet B. Then configure an ingress firewall rule that allows communication from Compute Engine VMs tagged with fe-tag to destination Compute Engine VMs tagged with data-tag.
- C. Configure an ingress firewall rule that allows communication from the src IP range of subnet A to the tag "data-tag" that is applied to the mysql Compute Engine VM on port 3306.
- D. Configure an ingress firewall rule that allows communication from the frontend's unique service account to the unique service account of the mysql Compute Engine VM on port 3306.

Answer: C

Explanation:
To restrict access to the MySQL instance to only the frontend application while other VMs are present in the subnets, creating an ingress firewall rule is the most appropriate approach. This rule will specifically allow traffic from subnet A (where the frontend application resides) to the MySQL instance in subnet B on port
3306, using network tags to target the specific MySQL VM.
Steps:
* Create Network Tags: Apply a network tag (e.g., "data-tag") to the MySQL VM in subnet B.
* Create Ingress Firewall Rule: Configure an ingress firewall rule with the following settings:
* Source IP Range: Subnet A's IP range.
* Target Tag: "data-tag".
* Allowed Protocol/Ports: TCP:3306 (for MySQL).
This setup ensures that only instances in subnet A can communicate with the MySQL instance on port 3306.
References:
* Google Cloud: Configuring firewall rules

NEW QUESTION # 77
Your organization recently activated the Security Command Center {SCO standard tier. There are a few Cloud Storage buckets that were accidentally made accessible to the public. You need to investigate the impact of the incident and remediate it.
What should you do?

- A. * 1 Change bucket permissions to limit access
  * 2 Query the data access audit logs for any unauthorized access to the buckets
  * 3 After the misconfiguration is corrected mute the finding in the Security Command Center
- B. * 1 Remove the Identity and Access Management (IAM) granting access to allusers from the buckets
  * 2 Apply the organization policy storage. unifromBucketLevelAccess to prevent regressions
  * 3 Query the data access logs to report on unauthorized access
- C. * 1 Change the bucket permissions to limit access
  * 2 Query the buckets usage logs to report on unauthorized access to the data
  * 3 Enforce the organization policy storage.publicAccessPrevention to avoid regressions
- D. * 1 Change permissions to limit access for authorized users
  * 2 Enforce a VPC Service Controls perimeter around all the production projects to immediately stop any unauthorized access
  * 3 Review the administrator activity audit logs to report on any unauthorized access

Answer: A

Explanation:
##
To investigate and remediate the issue of public access to Cloud Storage buckets, you can follow these steps:
Change Bucket Permissions:
Navigate to the Cloud Storage section in the Google Cloud Console.
For each affected bucket, remove any public access permissions (e.g., removing allUsers or allAuthenticatedUsers from the IAM policy).
Ensure that only authorized users have the necessary permissions to access the buckets.
Query Data Access Audit Logs:
Go to the Logging section in the Google Cloud Console.
Query the audit logs for the affected buckets to identify any unauthorized access. You can use filters to search for access by unauthorized users.
Correct the Misconfiguration:

After correcting the permissions, mute the relevant findings in the Security Command Center to indicate that the issue has been resolved.

This helps in maintaining a clear view of ongoing security issues and ensures the findings are not flagged again unless there's a new occurrence.

By following these steps, you ensure that the buckets are no longer publicly accessible, investigate any potential unauthorized access, and update the Security Command Center status to reflect the resolution of the issue.

References:

Cloud Storage IAM Permissions

Viewing Audit Logs

Security Command Center Documentation

NEW QUESTION # 78

Your organization has implemented synchronization and SAML federation between Cloud Identity and Microsoft Active Directory. You want to reduce the risk of Google Cloud user accounts being compromised. What should you do?

- A. Create a Cloud Identity password policy with strong password settings, and configure 2-Step Verification with verification codes via text or phone call in the Google Admin console.
- B. Create an Active Directory domain password policy with strong password settings, and configure post-SSO (single sign-on) 2-Step Verification with verification codes via text or phone call in the Google Admin console.
- C. Create an Active Directory domain password policy with strong password settings, and configure post-SSO (single sign-on) 2-Step Verification with security keys in the Google Admin console.
- D. Create a Cloud Identity password policy with strong password settings, and configure 2-Step Verification with security keys in the Google Admin console.

Answer: C

NEW QUESTION # 79

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Answers

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