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## Google Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q91-Q96):

NEW QUESTION # 91

Your organization wants full control of the keys used to encrypt data at rest in their Google Cloud environments. Keys must be generated and stored outside of Google and integrate with many Google Services including BigQuery. What should you do?

- A. Create a KMS key that is stored on a Google managed FIPS 140-2 level 3 Hardware Security Module (HSM) Manage the Identity and Access Management (IAM) permissions settings, and set up the key rotation period.
- B. Create a Cloud Key Management Service (KMS) key with imported key material Wrap the key for protection during import. Import the key generated on a trusted system in Cloud KMS.
- **C. Use Cloud External Key Management (EKM) that integrates with an external Hardware Security Module (HSM) system from supported vendors.**
- D. Use customer-supplied encryption keys (CSEK) with keys generated on trusted external systems Provide the raw CSEK as part of the API call.

**Answer: C**

Explanation:

Cloud EKM allows you to use encryption keys that are stored and managed in a third-party key management system deployed outside of Google's infrastructure. This gives your organization full control over the keys used to encrypt data at rest in Google Cloud environments, including BigQuery.

#### NEW QUESTION # 92

A customer's internal security team must manage its own encryption keys for encrypting data on Cloud Storage and decides to use customer-supplied encryption keys (CSEK).

How should the team complete this task?

- A. Use the gsutil command line tool to upload the object to Cloud Storage, and specify the location of the encryption key.
- B. Upload the encryption key to a Cloud Storage bucket, and then upload the object to the same bucket.
- **C. Encrypt the object, then use the gsutil command line tool or the Google Cloud Platform Console to upload the object to Cloud Storage.**
- D. Generate an encryption key in the Google Cloud Platform Console, and upload an object to Cloud Storage using the specified key.

**Answer: C**

Explanation:

<https://cloud.google.com/storage/docs/encryption/customer-supplied-keys>

#### NEW QUESTION # 93

You are the Security Admin in your company. You want to synchronize all security groups that have an email address from your LDAP directory in Cloud IAM.

What should you do?

- **A. Configure Google Cloud Directory Sync to sync security groups using LDAP search rules that have "user email address" as the attribute to facilitate one-way sync.**
- B. Configure Google Cloud Directory Sync to sync security groups using LDAP search rules that have "user email address" as the attribute to facilitate bidirectional sync.
- C. Use a management tool to sync the subset based on group object class attribute. Create a group in the Google domain. A group created in a Google domain will automatically have an explicit Google Cloud Identity and Access Management (IAM) role.
- D. Use a management tool to sync the subset based on the email address attribute. Create a group in the Google domain. A group created in a Google domain will automatically have an explicit Google Cloud Identity and Access Management (IAM) role.

**Answer: A**

Explanation:

\* Objective: Synchronize security groups with email addresses from an LDAP directory to Cloud IAM.

\* Solution: Use Google Cloud Directory Sync (GCDS) to perform one-way synchronization based on LDAP search rules.

\* Steps:

- \* Step 1: Download and install Google Cloud Directory Sync (GCDS) on a secure server.
- \* Step 2: Configure GCDS with the LDAP server details and authentication.
- \* Step 3: Define LDAP search rules to filter security groups based on the "user email address" attribute.
- \* Step 4: Map LDAP security groups to Google Cloud IAM roles.
- \* Step 5: Set up a synchronization schedule to keep the groups in sync.
- \* Step 6: Perform a test sync to ensure that the configuration is correct.
- \* Step 7: Activate the synchronization to keep the LDAP directory and Cloud IAM in sync.

Using GCDS for one-way synchronization ensures that the security groups in Cloud IAM are consistently updated based on the LDAP directory, maintaining alignment with the organization's security policies.

References:

- \* Google Cloud Directory Sync Documentation
- \* Setting Up Google Cloud Directory Sync

#### NEW QUESTION # 94

You are auditing all your Google Cloud resources in the production project. You want to identify all principals who can change firewall rules.

What should you do?

- A. Use Policy Analyzer to query the permissions compute, firewalls, get of compute, firewalls, list.
- B. Reference the Security Health Analytics - Firewall Vulnerability Findings in the Security Command Center.
- C. Use Firewall Insights to understand your firewall rules usage patterns.
- **D. Use Policy Analyzer to query the permissions compute, firewalls, create of compute, firewalls. Create of compute, firewalls.delete.**

**Answer: D**

Explanation:

To identify all principals who can change firewall rules, you need to determine which users or service accounts have permissions that allow them to modify firewall rules in your Google Cloud project. The correct permissions to check for this are compute.firewalls.create and compute.firewalls.delete. These permissions enable a user to create and delete firewall rules, respectively.

The Policy Analyzer tool in Google Cloud allows you to query and analyze IAM policies to identify which principals have specific permissions. By using Policy Analyzer, you can effectively identify all principals with the compute.firewalls.create and compute.firewalls.delete permissions.

Open Policy Analyzer: Go to the Google Cloud Console, navigate to IAM & Admin, and select Policy Analyzer.

Set Up Query: Create a new query specifying the permissions compute.firewalls.create and compute.firewalls.delete.

Run Query: Execute the query to retrieve a list of principals who have these permissions.

Review Results: Analyze the results to identify all users and service accounts with the capability to modify firewall rules.

This method ensures you have a comprehensive list of all principals who can change firewall rules, enhancing your audit and security posture.

Google Cloud Policy Analyzer Documentation

Google Cloud IAM Documentation

#### NEW QUESTION # 95

You are working with a client who plans to migrate their data to Google Cloud. You are responsible for recommending an encryption service to manage their encrypted keys. You have the following requirements:

The master key must be rotated at least once every 45 days.

The solution that stores the master key must be FIPS 140-2 Level 3 validated.

The master key must be stored in multiple regions within the US for redundancy.

Which solution meets these requirements?

- A. Google-managed encryption keys
- B. Customer-supplied encryption keys
- **C. Customer-managed encryption keys with Cloud HSM**
- D. Customer-managed encryption keys with Cloud Key Management Service

**Answer: C**

Explanation:

To meet the requirements of rotating the master key every 45 days, achieving FIPS 140-2 Level 3 validation, and ensuring the master key is stored redundantly in multiple US regions, you should use Customer-managed encryption keys with Cloud HSM. Here's how:

Set Up Cloud HSM:

Deploy Cloud HSM in your Google Cloud environment. Cloud HSM provides a hardware-based key management solution that meets FIPS 140-2 Level 3 compliance.

Create and Manage Keys:

Create your encryption keys in Cloud HSM. These keys can be managed and rotated per your policy requirements.

Key Rotation:

Set up a key rotation schedule to rotate the master key every 45 days. Cloud HSM allows you to automate this process.

Geographic Redundancy:

Ensure that your Cloud HSM configuration spans multiple regions within the US to achieve redundancy. This will ensure that your keys are available even if a particular region experiences an outage.

Compliance:

Cloud HSM's FIPS 140-2 Level 3 validation ensures that your encryption keys are managed in a secure and compliant manner.

Benefits:

Security and Compliance: Meets stringent compliance requirements.

Automated Management: Simplifies key management and rotation.

Redundancy: Ensures high availability of keys across multiple regions.

Reference:

Cloud HSM Documentation

Key Management with Cloud KMS and Cloud HSM

## NEW QUESTION # 96

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