Google - Pass-Sure Professional-Cloud-Security-Engineer Latest Exam Notes

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Candidates for the Google Professional-Cloud-Security-Engineer Certification must have a strong understanding of cloud security fundamentals, including threat modeling, risk management, encryption, and access controls. They must also be familiar with the Google Cloud Platform and its various services, such as Google Kubernetes Engine, Google Cloud Storage, and Google Cloud SQL.

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Professional-Cloud-Security-Engineer Reliable Exam Guide - Exam Professional-Cloud-Security-Engineer Book

Our professional experts have compiled the Professional-Cloud-Security-Engineer exam questions carefully and skillfully to let all of our worthy customers understand so that even an average candidate can learn the simplified information on the syllabus contents and grasp it to ace exam by the first attempt. It is the easiest track that can lead you to your ultimate destination with our Professional-Cloud-Security-Engineer Practice Engine. And as our pass rate of the Professional-Cloud-Security-Engineer learning guide is high as 98% to 100%, you will pass the exam for sure.

Data Protection Ensuring

To answer the questions related to this module, the learners need to have the skills in managing encryption at rest. This comprises their comprehension of use cases for default encryption, customer-supplied encryption keys (CSEK), and customer-managed encryption keys (CMEK). The candidates should also be capable of creating & managing encryption keys for CSEK and CMEK as well as managing application secrets. They should have an understanding of enclave computing, envelope encryption, and object lifecycle policies for Cloud Storage. Moreover, this area requires your competency in preventing data loss using DLP API. This involves the ability to configure tokenization, restrict access to DLP datasets, determine and redact PII, as well as configure the format-preserving substitution.

Google Professional-Cloud-Security-Engineer Exam is a comprehensive certification test that assesses a candidate's knowledge and skills in securing Google Cloud Platform (GCP) systems and infrastructure. As a Google Cloud Certified - Professional Cloud

Security Engineer, an individual can authenticate their expertise in designing, implementing, and managing cloud security solutions for businesses and organizations.

Google Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q262-Q267):

NEW QUESTION # 262
While migrating your organization's infrastructure to GCP, a large number of users will need to access GCP Console. The Identity Management team already has a well-established way to manage your users and want to keep using your existing Active Directory or LDAP server along with the existing SSO password.
What should you do?

- A. Users sign in using OpenID (OIDC) compatible IdP, receive an authentication token, then use that token to log in to the GCP Console.
- B. Use Google Cloud Directory Sync to synchronize the data in Google domain with your existing Active Directory or LDAP server.
- C. Users sign in directly to the GCP Console using the credentials from your on-premises Kerberos compliant identity provider.
- D. Manually synchronize the data in Google domain with your existing Active Directory or LDAP server.

Answer: B

Explanation:
To allow a large number of users to access the GCP Console while keeping the existing Active Directory or LDAP server for identity management, use Google Cloud Directory Sync (GCDS).
Install GCDS:
Download and install Google Cloud Directory Sync from here.
Configure GCDS:
Set up the synchronization by specifying the LDAP server details and the Google domain.
Map the LDAP attributes to Google attributes to ensure user data is synchronized correctly.
Run Synchronization:
Perform an initial synchronization to populate the Google domain with existing users from the LDAP server.
Schedule regular synchronizations to keep the data up-to-date.
Benefits:
Automated Sync: Ensures that user data is consistently updated without manual intervention.
Secure Access: Users can log in to the GCP Console using their existing credentials, enhancing security and user experience.
Reference:
Google Cloud Directory Sync Documentation
GCDS Administration Guide

NEW QUESTION # 263
You are responsible for the operation of your company's application that runs on Google Cloud. The database for the application will be maintained by an external partner. You need to give the partner team access to the database. This access must be restricted solely to the database and can not extend to any other resources within your company's network. Your solution should follow Google-recommended practices. What should you do?

- A. Ask the partner team to set up Cloud Identity accounts within their own corporate environment and identity provider. Grant the partner's Cloud Identity accounts access to the database.
- B. Create accounts for the partner team in your corporate identity provider. Synchronize these accounts with Google Cloud Identity. Grant the accounts access to the database.
- C. Add a public IP address to the application's database. Create database users for each of the partner's employees. Securely distribute the credentials for these users to the partner team.
- D. Configure Workforce Identity Federation for the partner. Connect the identity pool provider to the partner's identity provider. Grant the workforce pool resources access to the database.

Answer: D

Explanation:
Workforce Identity Federation is the modern, Google-recommended way to grant external partners access to Google Cloud resources using their own identity provider (IdP). This avoids the "Identity Lifecycle Management" burden of creating guest accounts

in your own directory.
According to Google Cloud Documentation (Workforce Identity Federation Overview):
"Workforce Identity Federation lets you use an external identity provider (IdP) to authenticate and authorize a workforce-a group of users, such as employees, partners, and contractors-so that the users can access Google Cloud services. With Workforce Identity Federation, you don't need to synchronize user identities from your existing IdP to Google Cloud identities." Advantages of this approach:
* Syncless: You don't create or manage partner accounts in your Cloud Identity/Workspace (eliminating Option C).
* Security: If a partner employee leaves their company, their access to your Google Cloud database is automatically revoked when their home IdP account is disabled.
* Scoped Access: You grant IAM roles (like roles/cloudsql.client) specifically to the Workforce Pool or specific groups within that pool, ensuring they can't touch other resources.
Why other options are incorrect:
* A is incorrect: Public IPs are a major security risk and don't provide centralized identity governance.
* B is incorrect: You cannot "grant access" to accounts in another organization's Cloud Identity directly in a secure, manageable way for production databases without federation.
Reference:
Google Cloud Documentation: "Workforce Identity Federation" (https://cloud.google.com/iam/docs/workforce-identity-federation).
Google Cloud Security Engineer Study Guide: Section on "Advanced Identity Management - Federation."

NEW QUESTION # 264
You perform a security assessment on a customer architecture and discover that multiple VMs have public IP addresses. After providing a recommendation to remove the public IP addresses, you are told those VMs need to communicate to external sites as part of the customer's typical operations. What should you recommend to reduce the need for public IP addresses in your customer's VMs?

- A. Cloud VPN
- B. Google Cloud Armor
- C. Cloud NAT
- D. Cloud Router

Answer: A

NEW QUESTION # 265
A customer is running an analytics workload on Google Cloud Platform (GCP) where Compute Engine instances are accessing data stored on Cloud Storage. Your team wants to make sure that this workload will not be able to access, or be accessed from, the internet.
Which two strategies should your team use to meet these requirements? (Choose two.)

- A. Configure Private Google Access on the Compute Engine subnet
- B. Avoid assigning public IP addresses to the Compute Engine cluster.
- C. Turn off IP forwarding on the Compute Engine instances in the cluster.
- D. Make sure that the Compute Engine cluster is running on a separate subnet.
- E. Configure a Cloud NAT gateway.

Answer: A,B

Explanation:
* Objective: Ensure that the analytics workload on Compute Engine instances accessing Cloud Storage does not interact with the public internet.
* Solution:
* Private Google Access: This allows Compute Engine instances that only have internal IP addresses to reach Google APIs and services through a private connection without the need for a public IP address.
* No Public IP Addresses: By avoiding public IP addresses for the instances, you ensure that they are not accessible from the internet and do not initiate internet connections.
Steps:
* Step 1: Open the Google Cloud Console.
* Step 2: Navigate to the VPC Network page and select the subnet where the Compute Engine instances are located.
* Step 3: Enable Private Google Access for the subnet.

* Step 4: Ensure that when launching the Compute Engine instances, no public IP addresses are assigned to them.
References:
* Configuring Private Google Access
* Preventing External IP Address Assignment

NEW QUESTION # 266
Your security team uses encryption keys to ensure confidentiality of user dat a. You want to establish a process to reduce the impact of a potentially compromised symmetric encryption key in Cloud Key Management Service (Cloud KMS).
Which steps should your team take before an incident occurs? (Choose two.)

- A. Manually rotate key versions on an ad hoc schedule.
- B. Enable automatic key version rotation on a regular schedule.
- C. Limit the number of messages encrypted with each key version.
- D. Disable the Cloud KMS API.
- E. Disable and revoke access to compromised keys.

Answer: B,C

Explanation:
Enable automatic key version rotation on a regular schedule:
Regularly rotating keys reduces the impact of a potentially compromised key by limiting the amount of data encrypted with a single key version.
Set up automatic key rotation in Cloud KMS to ensure keys are rotated without manual intervention.
Limit the number of messages encrypted with each key version:
Reducing the number of messages encrypted with each key version minimizes the potential data exposure in case of a key compromise.
Implement policies to ensure that new key versions are used periodically to limit the usage of each key version.
Reference:
Cloud KMS Key Rotation
Best Practices for Using Cryptographic Keys

NEW QUESTION # 267
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