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The Google Professional Cloud Security Engineer certification is designed to equip the individuals with the knowledge and skills required to design, develop and manage secure infrastructure leveraging Google security technologies. To earn this certificate, the candidates need to pass one exam. The qualifying test measures the professionals' expertise in all the aspects of Cloud Security, including managing identity & access management, utilizing Google technologies to provide data protection, determining the organizational structure & policies, configuring network security defenses, managing incident responses, collecting & analyzing Google Cloud Platform logs, as well as understanding regulatory concerns.

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 Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q70-Q75):

NEW QUESTION # 70

Your company is using GSuite and has developed an application meant for internal usage on Google App Engine. You need to make

sure that an external user cannot gain access to the application even when an employee's password has been compromised. What should you do?

- A. Provision user passwords using GSuite Password Sync.
- B. Enforce 2-factor authentication in GSuite for all users.
- C. Configure Cloud VPN between your private network and GCP.
- D. **Configure Cloud Identity-Aware Proxy for the App Engine Application.**

Answer: D

Explanation:

To ensure that an external user cannot gain access to an internal application on Google App Engine even if an employee's password is compromised, configure Cloud Identity-Aware Proxy (IAP).

* Enable IAP:

* Go to the Cloud Console, navigate to the App Engine application, and select "Identity-Aware Proxy".

* Enable IAP for the application.

* Configure Access Policies:

* Set up access policies to restrict who can access the application.

* Use IAM roles to grant access only to specific users or groups.

* Enforce Authentication:

* IAP enforces Google authentication, ensuring that users must log in with their GSuite credentials.

* Enable Multi-Factor Authentication (MFA):

* Enforce 2FA for all GSuite users to add an extra layer of security.

Advantages:

* Protection against Compromised Credentials: Even if passwords are compromised, attackers cannot access the application without passing IAP authentication.

* Centralized Access Management: Easily manage and monitor access through IAM and IAP policies.

References:

* Identity-Aware Proxy Overview

* Setting up IAP

NEW QUESTION # 71

Employees at your company use their personal computers to access your organization's Google Cloud console. You need to ensure that users can only access the Google Cloud console from their corporate-issued devices and verify that they have a valid enterprise certificate. What should you do?

- A. Implement an Identity and Access Management (IAM) conditional policy to verify the device certificate
- B. Implement an organization policy to verify the certificate from the access context.
- C. **Implement an Access Policy in BeyondCorp Enterprise to verify the device certificate Create an access binding with the access policy just created.**
- D. Implement a VPC firewall policy. Activate packet inspection and create an allow rule to validate and verify the device certificate.

Answer: C

NEW QUESTION # 72

Your organization operates in a highly regulated industry and needs to implement strict controls around temporary access to sensitive Google Cloud resources. You have been using Access Approval to manage this access, but your compliance team has mandated the use of a custom signing key. Additionally, they require that the key be stored in a hardware security module (HSM) located outside Google Cloud. You need to configure Access Approval to use a custom signing key that meets the compliance requirements. What should you do?

- A. Create a new asymmetric signing key in Cloud KMS and configure the key with a rotation period of 30 days. Add the corresponding public key to your external HSM.
- B. **Create a signing key in your external HSM. Integrate the HSM with Cloud External Key Manager (Cloud EKM) and make the key available within your project. Configure Access Approval to use this key.**
- C. Export your existing Access Approval signing key as a PEM file. Upload the file to your external HSM and reconfigure Access Approval to use the key from the HSM.
- D. Create a new asymmetric signing key in Cloud Key Management System (Cloud KMS) using a supported algorithm and

grant the Access Approval service account the IAM signerVerifier role on the key.

Answer: B

Explanation:

<https://cloud.google.com/assured-workloads/access-approval/docs/review-approve-access-requests-custom-keys#select-key>

NEW QUESTION # 73

Your organization hosts a financial services application running on Compute Engine instances for a third- party company. The third- party company's servers that will consume the application also run on Compute Engine in a separate Google Cloud organization. You need to configure a secure network connection between the Compute Engine instances. You have the following requirements:

- * The network connection must be encrypted.
- * The communication between servers must be over private IP addresses.

What should you do?

- A. Configure a Cloud VPN connection between your organization's VPC network and the third party's that is controlled by VPC firewall rules.
- B. Configure a VPC Service Controls perimeter around your Compute Engine instances, and provide access to the third party via an access level.
- C. Configure an Apigee proxy that exposes your Compute Engine-hosted application as an API, and is encrypted with TLS which allows access only to the third party.
- D. Configure a VPC peering connection between your organization's VPC network and the third party's that is controlled by VPC firewall rules.

Answer: A

Explanation:

To meet the requirements of encrypted communication over private IP addresses between Compute Engine instances in different Google Cloud organizations, a Cloud VPN connection is appropriate:

- * Cloud VPN: Cloud VPN creates a secure, encrypted tunnel between your organization's VPC network and the third party's VPC network. This ensures that data transmitted over the network is encrypted and secure.
- * Private IP Communication: Cloud VPN allows communication over private IP addresses, which helps maintain security by keeping traffic within the Google Cloud network and not exposing it to the public internet.
- * Firewall Rules: VPC firewall rules can be configured to control the traffic that flows through the VPN, ensuring that only authorized traffic is allowed, further enhancing security.

By setting up a Cloud VPN connection, you can achieve secure, encrypted communication over private IP addresses between different Google Cloud organizations.

References

* Cloud VPN Overview

NEW QUESTION # 74

Your organization strives to be a market leader in software innovation. You provided a large number of Google Cloud environments so developers can test the integration of Gemini in Vertex AI into their existing applications or create new projects. Your organization has 200 developers and a five-person security team. You must prevent and detect proper security policies across the Google Cloud environments. What should you do? (Choose two.)

- A. Use Cloud Logging to create log filters to detect misconfigurations. Trigger Cloud Run functions to remediate misconfigurations.
- B. Implement the least privileged access Identity and Access Management roles to prevent misconfigurations.
- C. Publish internal policies and clear guidelines to securely develop applications.
- D. Apply organization policy constraints. Detect and monitor drifts by using Security Health Analytics.
- E. Apply a predefined AI-recommended security posture template for Gemini in Vertex AI in Security Command Center Enterprise or Premium tiers.

Answer: D,E

NEW QUESTION # 75

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