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Many ambitious IT professionals want to make further improvements in the IT industry and be closer from the IT peak. They would choose this difficult Google certification Professional-Cloud-Security-Engineer exam to get certification and gain recognition in IT area. Google Professional-Cloud-Security-Engineer is very difficult and passing rate is relatively low. But enrolling in the Google Certification Professional-Cloud-Security-Engineer Exam is a wise choice, because in today's competitive IT industry, we should constantly upgrade ourselves. However, you can choose many ways to help you pass the exam.

Earning the Google Professional-Cloud-Security-Engineer Certification is a great way to advance your career in the cloud security field. It demonstrates to potential employers that you have the skills, knowledge, and experience necessary to secure cloud environments and protect against emerging threats. It also opens up new opportunities for career advancement and higher salaries.

Network Security Configuration

This domain is created to measure the expertise of the individuals in designing network security. This includes their knowledge of security properties of a VPC network, shared VPC, VPC peering, and firewall rules. The test takers should also be conversant with data encapsulation & network isolation for N tier application design, usage of DNSSEC, private versus public addressing, and app-

to-app security policy. The section also covers one's competency in configuring network segmentation, including an understanding of network perimeter controls as well as load balancing. Lastly, the candidates need to show their ability to establish private connectivity, including Private RFC1918 connectivity between Google Cloud projects and VPC networks, Private RFC1918 connectivity between the VPC network and data centers, as well as enabling private connectivity between Google APIs and VPC.

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Google Professional-Cloud-Security-Engineer Exam is part of the Google Cloud Certified program, which offers multiple certifications for cloud professionals. It is a challenging exam that requires the candidate to have a deep understanding of Google Cloud Platform security features, tools, and technologies. Professional-Cloud-Security-Engineer Exam consists of multiple-choice and scenario-based questions that require the candidate to demonstrate their ability to solve real-world security problems.

Google Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q100-Q105):

NEW QUESTION # 100

A customer's company has multiple business units. Each business unit operates independently, and each has their own engineering group. Your team wants visibility into all projects created within the company and wants to organize their Google Cloud Platform (GCP) projects based on different business units. Each business unit also requires separate sets of IAM permissions. Which strategy should you use to meet these needs?

- **A. Create an organization node, and assign folders for each business unit.**
- B. Assign GCP resources in a VPC for each business unit to separate network access.
- C. Establish standalone projects for each business unit, using gmail.com accounts.
- D. Assign GCP resources in a project, with a label identifying which business unit owns the resource.

Answer: A

NEW QUESTION # 101

Your organization is using Active Directory and wants to configure Security Assertion Markup Language (SAML). You must set up and enforce single sign-on (SSO) for all users.

What should you do?

- **A. 1- Create a new SAML profile.**
 - * 2. Populate the sign-in and sign-out page URLs.
 - * 3. Upload the X.509 certificate.
 - * 4. Configure Entity ID and ACS URL in your IdP
- B. 1. Manage SAML profile assignments.
 - * 2. Enable OpenID Connect (OIDC) in your Active Directory (AD) tenant.
 - * 3. Verify the domain.
- C. 1. Create a new SAML profile.
 - * 2. Upload the X.509 certificate.
 - * 3. Enable the change password URL.
 - * 4. Configure Entity ID and ACS URL in your IdP.
- D. 1. Configure prerequisites for OpenID Connect (OIDC) in your Active Directory (AD) tenant
 - * 2. Verify the AD domain.
 - * 3. Decide which users should use SAML.
 - * 4. Assign the pre-configured profile to the select organizational units (OUs) and groups.

Answer: A

Explanation:

When configuring SAML-based Single Sign-On (SSO) in an organization that's using Active Directory, the general steps would involve setting up a SAML profile, specifying the necessary URLs for sign-in and sign-out processes, uploading an X.509 certificate for secure communication, and setting up the Entity ID and Assertion Consumer Service (ACS) URL in the Identity Provider (which in this case would be Active Directory).

NEW QUESTION # 102

Your organization uses BigQuery to process highly sensitive, structured datasets. Following the "need to know" principle, you need to create the Identity and Access Management (IAM) design to meet the needs of these users:

- * Business user must access curated reports.
- * Data engineer: must administrate the data lifecycle in the platform.
- * Security operator: must review user activity on the data platform.

What should you do?

- A. Configure data access log for BigQuery services, and grant Project Viewer role to security operators.
- B. Set row-based access control based on the "region" column, and filter the record from the United States for data engineers.
- C. Generate a CSV data file based on the business user's needs, and send the data to their email addresses.
- **D. Create curated tables in a separate dataset and assign the role roles/bigquery.dataViewer.**

Answer: D

Explanation:

This option directly addresses the needs of the business user who must access curated reports. By creating curated tables in a separate dataset, you can control access to specific data. Assigning the roles/bigquery.dataViewer role allows the business user to view the data in BigQuery.

NEW QUESTION # 103

A Cloud Development team needs to use service accounts extensively in their local development.

You need to provide the team with the keys for these service accounts. You want to follow Google-recommended practices. What should you do?

- A. Implement a daily key rotation process that generates a new key and commits it to the source code repository every day.
- B. Create a Google Group with all developers. Assign the group the IAM role of Service Account Admin, and have developers generate and download their own keys.
- **C. Implement a daily key rotation process, and provide developers with a Cloud Storage bucket from which they can download the new key every day.**
- D. Create a Google Group with all developers. Assign the group the IAM role of Service Account User, and have developers generate and download their own keys.

Answer: C

Explanation:

A is not correct because source code repository isn't the place to store keys that expire/change.

B is correct because it allows for centralized admin managed key rotation process and doesn't delegate key creation to developers which is easier and secure way to manage keys.

C is not correct because the IAM role specified doesn't allow for creation of keys.

D is not correct because it veers away from best practices as the keys now reside in decentralized place and can be subjected to a leak.

<https://cloud.google.com/blog/products/gcp/help-keep-your-google-cloud-service-account-keys-safe>

https://cloud.google.com/iam/docs/understanding-service-accounts#best_practices

<https://cloud.google.com/iam/docs/creating-managing-service-account-keys>

NEW QUESTION # 104

In an effort for your company messaging app to comply with FIPS 140-2, a decision was made to use GCP compute and network

services. The messaging app architecture includes a Managed Instance Group (MIG) that controls a cluster of Compute Engine instances. The instances use Local SSDs for data caching and UDP for instance-to-instance communications. The app development team is willing to make any changes necessary to comply with the standard Which options should you recommend to meet the requirements?

- A. Set Disk Encryption on the Instance Template used by the MIG to Google-managed Key and use BoringSSL library on all instance-to-instance communications.
- **B. Set Disk Encryption on the Instance Template used by the MIG to customer-managed key and use BoringSSL for all data transit between instances.**
- C. Encrypt all cache storage and VM-to-VM communication using the BoringCrypto module.
- D. Change the app instance-to-instance communications from UDP to TCP and enable BoringSSL on clients' TLS connections.

Answer: B

Explanation:

To comply with FIPS 140-2 for the messaging app, you need to ensure that both data at rest and data in transit are encrypted according to the standard. Using customer-managed encryption keys (CMEK) ensures that you have control over the encryption keys, and BoringSSL is a library that meets FIPS 140-2 standards for encrypting data in transit.

Steps:

* Encrypt Local SSDs: Modify the instance template for the Managed Instance Group (MIG) to use customer-managed encryption keys (CMEK) for encrypting Local SSDs.

* Enable BoringSSL: Update the application to use the BoringSSL library for all instance-to-instance communication to ensure that all data in transit is encrypted according to FIPS 140-2 standards.

References:

* Google Cloud: Customer-managed encryption keys (CMEK)

* BoringSSL documentation

NEW QUESTION # 105

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