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Google Professional-Cloud-Security-Engineer Exam is a certification exam that tests the knowledge and skills of security engineers who are responsible for implementing and maintaining security in Google Cloud Platform. It is designed for professionals who have experience in the field of cloud security and want to validate their skills and knowledge.

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Google Professional Cloud Security Engineer Practice Test Questions, Google Professional Cloud Security Engineer Exam dumps

The Google Professional Cloud Security Engineer certification is designed to validate the skills of the candidates in designing and implementing a secure infrastructure on GCP. The applicants for this certificate have an understanding of the industry security requirements and security best practices. They also develop, design, and manage secure infrastructures by leveraging the Google security technologies. To obtain the certification, the individuals must pass one qualifying exam.

Google Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q133-Q138):

NEW QUESTION # 133
A large financial institution is moving its Big Data analytics to Google Cloud Platform. They want to have maximum control over the encryption process of data stored at rest in BigQuery.
What technique should the institution use?

- A. Use Cloud Storage as a federated Data Source.
- B. Use a Cloud Hardware Security Module (Cloud HSM).
- C. Customer-managed encryption keys (CMEK).
- D. Customer-supplied encryption keys (CSEK).

Answer: C

Explanation:
Reference:
https://cloud.google.com/bigquery/docs/encryption-at-rest

NEW QUESTION # 134
Your organization is moving virtual machines (VMs) to Google Cloud. You must ensure that operating system images that are used across your projects are trusted and meet your security requirements.
What should you do?

- A. Automate a security scanner that verifies that no common vulnerabilities and exposures (CVEs) are present in your trusted image repository.
- B. Implement an organization policy constraint that enables the Shielded VM service on all projects to enforce the trusted image repository usage.
- C. Create a Cloud Function that is automatically triggered when a new virtual machine is created from the trusted image repository Verify that the image is not deprecated.
- D. Implement an organization policy to enforce that boot disks can only be created from images that come from the trusted image project.

Answer: D

Explanation:
* Define Trusted Image Projects:
* Identify the project or projects where your trusted operating system images are stored.
* Ensure these images meet your organization's security requirements and are regularly updated to mitigate vulnerabilities.
* Create an Organization Policy:
* Navigate to the Organization Policies page in the Google Cloud Console.
* Create a policy constraint that restricts the creation of boot disks to only those images stored in your trusted image project(s).
* The policy constraint to use is constraints/compute.trustedImageProjects.
* Apply the Policy:
* Apply this organization policy at the appropriate level (organization, folder, or project) to enforce that all new VM instances use images from the trusted repository.
* This ensures consistency in the security posture across all projects within the organization.
* Monitor Compliance:
* Regularly monitor the compliance with this policy using audit logs and other monitoring tools.
* Update the trusted images as necessary to ensure they remain secure and compliant with your security standards.
References:
* Organization Policy Service
* Trusted Image Projects Constraint

NEW QUESTION # 135
You are setting up a new Cloud Storage bucket in your environment that is encrypted with a customer managed encryption key (CMEK). The CMEK is stored in Cloud Key Management Service (KMS), in project "prj-a", and the Cloud Storage bucket will use project "prj-b". The key is backed by a Cloud Hardware Security Module (HSM) and resides in the region europe-west3.

Your storage bucket will be located in the region europe-west1. When you create the bucket, you cannot access the key, and you need to troubleshoot why.
What has caused the access issue?

- A. A firewall rule prevents the key from being accessible.
- B. Cloud HSM does not support Cloud Storage.
- C. The CMEK is in a different region than the Cloud Storage bucket.
- D. The CMEK is in a different project than the Cloud Storage bucket.

Answer: C

Explanation:
When you use a customer-managed encryption key (CMEK) to secure a Cloud Storage bucket, the key and the bucket must be located in the same region. In this case, the key is in europe- west3 and the bucket is in europe-west1, which is why you're unable to access the key.
https://cloud.google.com/sql/docs/mysql/cmek

NEW QUESTION # 136
Your organization is using Vertex AI Workbench Instances. You must ensure that newly deployed instances are automatically kept up-to-date and that users cannot accidentally alter settings in the operating system.
What should you do?

- A. Enforce the disableRootAccess and requireAutoUpgradeSchedule organization policies for newly deployed instances.
- B. Assign the AI Notebooks Runner and AI Notebooks Viewer roles to the users of the AI Workbench Instances.
- C. Enable the VM Manager and ensure the corresponding Google Compute Engine instances are added.
- D. Implement a firewall rule that prevents Secure Shell access to the corresponding Google Compute Engine instances by using tags.

Answer: A

Explanation:
To ensure that Vertex AI Workbench Instances are automatically kept up-to-date and that users cannot alter operating system settings, implementing specific organization policies is essential.
* Option A: Enabling VM Manager and adding Compute Engine instances assists in managing and monitoring VM instances but does not enforce automatic updates or restrict user modifications to the operating system.
* Option B: Enforcing the disableRootAccess organization policy prevents users from gaining root access, thereby restricting unauthorized changes to the operating system. Additionally, the requireAutoUpgradeSchedule policy ensures that instances are automatically updated according to a defined schedule. Together, these policies maintain system integrity and compliance with update requirements.
* Option C: Assigning AI Notebooks Runner and AI Notebooks Viewer roles controls user permissions related to running and viewing notebooks but does not directly influence operating system settings or update mechanisms.
* Option D: Implementing firewall rules to prevent SSH access limits direct access to instances but does not ensure automatic updates or prevent alterations through other means.
Therefore, Option B is the most appropriate action, as it directly addresses both the enforcement of automatic updates and the prevention of unauthorized operating system modifications.
References:
* Organization Policy Constraints
* VM Manager Overview

NEW QUESTION # 137
A DevOps team will create a new container to run on Google Kubernetes Engine. As the application will be internet-facing, they want to minimize the attack surface of the container.
What should they do?

- A. Use Cloud Build to build the container images.
- B. Use a Continuous Delivery tool to deploy the application.
- C. Build small containers using small base images.
- D. Delete non-used versions from Container Registry.

Answer: C

Explanation:
To minimize the attack surface of the container for an internet-facing application running on Google Kubernetes Engine (GKE), the best practice is to build small containers using small base images. This approach helps in the following ways:
Reduce Vulnerabilities: Smaller base images contain fewer packages and dependencies, which minimizes the potential vulnerabilities that an attacker could exploit.
Improved Security: Using minimal base images such as distroless or Alpine Linux ensures that only the necessary components are included, reducing the attack surface significantly.
Easier Maintenance: Small containers are easier to maintain and update, ensuring that security patches can be applied quickly without dealing with unnecessary components.
Steps to Implement:
Choose a Minimal Base Image:
Use base images like gcr.io/distroless/base or alpine.
FROM gcr.io/distroless/base COPY myapp /myapp CMD ["/myapp"]
Optimize Container Image:
Remove unnecessary tools and libraries.
Use multi-stage builds to keep the final image small.
Regularly Update Base Images:
Keep the base images up-to-date with the latest security patches.
Reference:
Distroless Images
Best Practices for Building Containers

NEW QUESTION # 138
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