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Google Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q52-Q57):

NEW QUESTION # 52

Your company has deployed an application on Compute Engine. The application is accessible by clients on port 587. You need to balance the load between the different instances running the application. The connection should be secured using TLS, and terminated by the Load Balancer.

What type of Load Balancing should you use?

- A. SSL Proxy Load Balancing
- B. TCP Proxy Load Balancing
- C. Network Load Balancing

- D. HTTP(S) Load Balancing

Answer: A

Explanation:

Reference:

<https://cloud.google.com/load-balancing/docs/ssl/>

NEW QUESTION # 53

You need to implement an encryption at-rest strategy that reduces key management complexity for non-sensitive data and protects sensitive data while providing the flexibility of controlling the key residency and rotation schedule. FIPS 140-2 L1 compliance is required for all data types. What should you do?

- A. Encrypt non-sensitive data with Google default encryption, and encrypt sensitive data with Cloud External Key Manager.
- **B. Encrypt non-sensitive data and sensitive data with Cloud Key Management Service**
- C. Encrypt non-sensitive data with Google default encryption, and encrypt sensitive data with Cloud Key Management Service.
- D. Encrypt non-sensitive data and sensitive data with Cloud External Key Manager.

Answer: B

NEW QUESTION # 54

A customer wants to move their sensitive workloads to a Compute Engine-based cluster using Managed Instance Groups (MIGs). The jobs are bursty and must be completed quickly. They have a requirement to be able to manage and rotate the encryption keys. Which boot disk encryption solution should you use on the cluster to meet this customer's requirements?

- A. Pre-encrypting files before transferring to Google Cloud Platform (GCP) for analysis
- B. Encryption by default
- **C. Customer-managed encryption keys (CMEK) using Cloud Key Management Service (KMS)**
- D. Customer-supplied encryption keys (CSEK)

Answer: C

Explanation:

Reference:

<https://cloud.google.com/kubernetes-engine/docs/how-to/dynamic-provisioning-cmek>

NEW QUESTION # 55

Your organization is transitioning to Google Cloud. You want to ensure that only trusted container images are deployed on Google Kubernetes Engine (GKE) clusters in a project. The containers must be deployed from a centrally managed Container Registry and signed by a trusted authority.

What should you do?

Choose 2 answers

- A. Enable Pod Security standards and set them to Restricted.
- **B. Configure the Binary Authorization policy with respective attestations for the project.**
- C. Create a custom organization policy constraint to enforce Binary Authorization for Google Kubernetes Engine (GKE).
- D. Enable Container Threat Detection in the Security Command Center (SCC) for the project.
- **E. Configure the trusted image organization policy constraint for the project.**

Answer: B,E

NEW QUESTION # 56

Your organization relies heavily on virtual machines (VMs) in Compute Engine. Due to team growth and resource demands, VM sprawl is becoming problematic. Maintaining consistent security hardening and timely package updates poses an increasing challenge. You need to centralize VM image management and automate the enforcement of security baselines throughout the virtual

machine lifecycle. What should you do?

- A. Activate Security Command Center Enterprise. Use VM discovery and posture management features to monitor hardening state and trigger automatic responses upon detection of issues.
- B. Create a Cloud Build trigger to build a pipeline that generates hardened VM images. Run vulnerability scans in the pipeline, and store images with passing scans in a registry. Use instance templates pointing to this registry.
- C. Use VM Manager to automatically distribute and apply patches to VMs across your projects. Integrate VM Manager with hardened organization-standard VM images stored in a central repository.

Answer: B

Explanation:

The most effective way to address VM sprawl while enforcing consistent security baselines at the VM creation stage (VM lifecycle management) is through the use of immutable, hardened images built via an automated pipeline.

Centralized Image Management and Hardening: A Cloud Build pipeline is the standard way to automate the creation of "golden images." The pipeline can install OS/packages, apply hardening scripts (e.g., CIS benchmarks), run vulnerability scans, and then store only the verified, secure images in a central registry. This centralizes control over the security baseline.

Enforcement: Instance Templates are the mechanism to standardize VM deployment. By configuring the templates to only point to the central registry of approved, hardened images, you ensure that every new VM spun up automatically adheres to the security baseline. This prevents teams from deploying unhardened or insecure images, solving the "VM sprawl" and "consistent security hardening" problem at its source.

Option A (SCC Posture Management) is a detective control that monitors after the VM is deployed; it does not prevent unhardened VMs from being created, which is the goal of lifecycle management.

Option D (VM Manager) is excellent for ongoing patching and updating of existing VMs, but it doesn't solve the initial problem of ensuring a secure, centralized, hardened image is used for creation (which is where the baseline is enforced).

Extracts:

"Golden images that are configured and used to create servers play a key role in allowing companies to scale securely." (Source 1.2)

"Using an automated tool eradicates this issue. When engineers use images produced by [automated tools], the evidence is clear, as everything needed is pre-baked into the image." (Source 1.2)

"An instance template is a convenient way to save a virtual machine (VM) instance's configuration that includes machine type, boot disk image... You can use an instance template to... Create individual VMs." (Source 3.3) The overall strategy described in Option B-automate hardening, scan, store, and enforce usage via templates-is the best practice for secure and compliant VM deployment at scale.

NEW QUESTION # 57

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