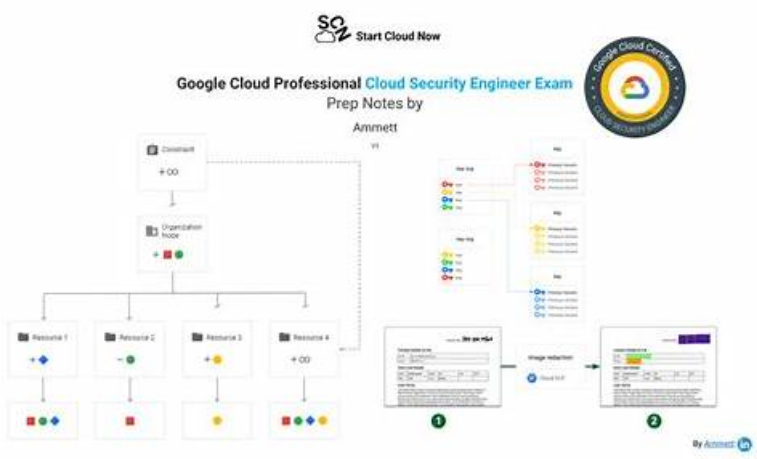
Professional-Cloud-Security-Engineer Study Reference - Latest Professional-Cloud-Security-Engineer Exam Pattern



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Google Professional-Cloud-Security-Engineer (PCSE) exam is an advanced-level certification exam designed to test the knowledge and skills of security engineers who work with Google Cloud Platform (GCP). The PCSE certification is one of the most sought-after certifications in the cloud computing industry, and it demonstrates a high level of expertise in securing GCP environments.

Google Professional-Cloud-Security-Engineer certification exam is designed to validate the skills and knowledge of professionals in securing applications, data, and infrastructure on the Google Cloud Platform. Google Cloud Certified - Professional Cloud Security Engineer Exam certification is intended for security engineers, security architects, and other professionals involved in securing cloud infrastructure and applications. Professional-Cloud-Security-Engineer Exam measures the candidate's ability to design, develop, and implement secure solutions on the Google Cloud Platform.

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Google Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q33-Q38):

NEW QUESTION # 33
You are using Security Command Center (SCC) to protect your workloads and receive alerts for suspected security breaches at

your company. You need to detect cryptocurrency mining software. Which SCC service should you use?

- A. Web Security Scanner
- B. Container Threat Detection
- C. Virtual Machine Threat Detection
- D. Rapid Vulnerability Detection

Answer: C

Explanation:
The goal is to detect cryptocurrency mining software using Security Command Center (SCC).
Security Command Center Threat Detection Services: SCC Premium and Enterprise tiers offer various specialized threat detection services.
Virtual Machine Threat Detection (VMTD): This service is explicitly designed to scan virtual machines (Compute Engine instances and GKE nodes) for specific threats, including cryptocurrency mining software. It operates at the hypervisor level, performing deep scans of VM memory and disks.Extract Reference: "Virtual Machine Threat Detection (VMTD) helps you detect potential threats, such as cryptocurrency mining and malware, within your Compute Engine instances and GKE nodes." (Google Cloud Documentation: "Virtual Machine Threat Detection overview | Security Command Center" - https://cloud.google.com/security-command-center/docs/concepts-vm-threat-detection-overview) Extract Reference: "This service scans virtual machines to detect potentially malicious applications, such as cryptocurrency mining software, kernel-mode rootkits, and malware running in compromised cloud environments." (Google Cloud Documentation: "Virtual Machine Threat Detection overview | Security Command Center" - https://cloud.google.com/security-command-center/docs/concepts-vm-threat-detection- overview) Let's evaluate the other options:
A). Web Security Scanner: This service scans for common web application vulnerabilities like XSS, Flash injection, and mixed content. It is not designed to detect runtime threats like cryptocurrency mining software.
B). Container Threat Detection: While Container Threat Detection (CTD) also detects cryptocurrency mining, it specifically focuses on runtime threats within GKE containers. The question asks for detection of "cryptocurrency mining software" generally, and VMs are a common target for such activity (and GKE nodes are VMs). VMTD provides a more general detection across Compute Engine VMs and GKE nodes for this specific type of threat. If the context explicitly mentioned containers or Cloud Run, CTD would be the more specific answer. However, for a general detection of "software" on "workloads", and given that VMTD explicitly lists "cryptocurrency mining software" for VMs, it is the most direct and broadly applicable answer among the choices.
C). Rapid Vulnerability Detection: This service actively scans internet-exposed assets for network vulnerabilities and misconfigurations. It focuses on finding known vulnerabilities, not detecting active malicious processes like cryptocurrency mining.
Given the direct and explicit mention of cryptocurrency mining detection for VMs in its documentation, Virtual Machine Threat Detection is the correct SCC service to use.

NEW QUESTION # 34
You run applications on Cloud Run. You already enabled container analysis for vulnerability scanning.
However, you are concerned about the lack of control on the applications that are deployed. You must ensure that only trusted container images are deployed on Cloud Run.
What should you do?
Choose 2 answers

- A. Set the organization policy constraint constraints/compute.trustedimageProjects to the list of protects that contain the trusted container images.
- B. Set the organization policy constraint constraints/run. allowedBinaryAuthorizationPolicie to the list of allowed Binary Authorization policy names.
- C. Use Cloud Run breakglass to deploy an image that meets the Binary Authorization policy by default.
- D. Enable Binary Authorization on the existing Cloud Run service.
- E. Enable Binary Authorization on the existing Kubernetes cluster.

Answer: B,D

Explanation:
To ensure that only trusted container images are deployed on Cloud Run, you can implement Binary Authorization, which is a deploy-time security control that ensures only trusted images are used.
* Set Up Binary Authorization:
* Navigate to the Google Cloud Console.
* Go to Security > Binary Authorization.

* Configure the policy to include attestors that verify your trusted images.
* Enable Binary Authorization on Cloud Run:
* Go to the Cloud Run service.
* Enable Binary Authorization on your existing Cloud Run services by selecting the appropriate Binary Authorization policy.
* Set Organization Policy:
* Go to the Organization Policies page in the Google Cloud Console.
* Add a constraint for constraints/run.allowedBinaryAuthorizationPolicies.
* Specify the list of allowed Binary Authorization policy names to enforce across your organization.
These steps ensure that any container image deployed on Cloud Run is validated against the specified Binary Authorization policies, preventing untrusted images from being deployed.
References:
* Binary Authorization Documentation
* Enabling Binary Authorization on Cloud Run

NEW QUESTION # 35
Your organization's application is being integrated with a partner application that requires read access to customer data to process customer orders. The customer data is stored in one of your Cloud Storage buckets. You have evaluated different options and determined that this activity requires the use of service account keys. You must advise the partner on how to minimize the risk of a compromised service account key causing a loss of dat a. What should you advise the partner to do?

- A. Ensure that all data for the application that is accessed through the relevant service accounts is encrypted at rest by using customer-managed encryption keys (CMEK).
- B. Scan the Cloud Storage bucket with Sensitive Data Protection when new data is added, and automatically mask all customer data.
- C. Implement a secret management service. Configure the service to frequently rotate the service account key. Configure proper access control to the key, and restrict who can create service account keys.
- D. Define a VPC Service Controls perimeter, and restrict the Cloud Storage API. Add an ingress rule to the perimeter to allow access to the Cloud Storage API for the service account from outside of the perimeter.

Answer: C

Explanation:
When integrating applications that require access to sensitive data stored in Cloud Storage, managing service account keys securely is crucial to prevent unauthorized access or data loss.
Option A: Defining a VPC Service Controls perimeter enhances security by restricting access to Google Cloud services. However, configuring ingress rules to allow external access for the service account may introduce complexities and potential security gaps, especially if the partner's infrastructure is outside the defined perimeter.
Option B: Scanning and masking customer data addresses data sensitivity but does not mitigate risks associated with compromised service account keys. This approach focuses on data content rather than access control mechanisms.
Option C: Encrypting data at rest using customer-managed encryption keys (CMEK) ensures data confidentiality but does not directly address the security of service account keys or access controls.
Option D: Implementing a secret management service to handle service account keys is a best practice. By configuring the service to frequently rotate keys, you reduce the window of opportunity for malicious actors to exploit compromised keys. Additionally, enforcing strict access controls ensures that only authorized personnel can create or manage service account keys, minimizing the risk of unauthorized access. This approach directly addresses the security concerns related to service account key management.
Therefore, Option D is the most appropriate recommendation, as it focuses on securely managing service account keys through rotation and access controls, thereby minimizing the risk of data loss due to compromised keys.
Reference:
Best Practices for Managing Service Account Keys
Secret Manager Documentation

NEW QUESTION # 36
Applications often require access to "secrets" - small pieces of sensitive data at build or run time. The administrator managing these secrets on GCP wants to keep a track of "who did what, where, and when?" within their GCP projects.
Which two log streams would provide the information that the administrator is looking for? (Choose two.)

- A. Agent logs
- B. Data Access logs

- C. System Event logs
- D. Admin Activity logs
- E. VPC Flow logs

Answer: B,D

Explanation:
To keep track of "who did what, where, and when?" within GCP projects, the administrator should focus on Admin Activity logs and Data Access logs. Here's a detailed explanation of why these two log streams are essential:
* Admin Activity Logs:
* These logs capture administrative actions performed in your Google Cloud resources. This includes actions like creating, modifying, or deleting resources.
* Admin Activity logs provide detailed information about the user who performed the action, the resource that was affected, the action performed, and the timestamp.
* Data Access Logs:
* These logs capture read and write operations on data within your Google Cloud services. This includes actions like accessing or modifying data stored in databases, storage buckets, etc.
* Data Access logs help track the access patterns of users and services to sensitive data, providing insights into who accessed which data and when.
Steps to Enable and Access Logs:
* Navigate to the Google Cloud Console.
* Go to Logging in the left-hand menu.
* Enable Admin Activity and Data Access logs if not already enabled.
* Use Logs Explorer to filter and view specific logs based on your requirements.
By monitoring both Admin Activity and Data Access logs, administrators can gain comprehensive visibility into the actions performed on their GCP resources and data, ensuring robust security and compliance tracking.
Google Cloud Logging Documentation
Audit Logs Overview

NEW QUESTION # 37
Your company is storing sensitive data in Cloud Storage. You want a key generated on-premises to be used in the encryption process.
What should you do?

- A. Use customer-supplied encryption keys to manage the data encryption key (DEK).
- B. Use the Cloud Key Management Service to manage a key encryption key (KEK).
- C. Use the Cloud Key Management Service to manage a data encryption key (DEK).
- D. Use customer-supplied encryption keys to manage the key encryption key (KEK).

Answer: A

NEW QUESTION # 38
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Appropriately, we can wrap up this post with the way that the test centers around the material that is essential to handily clear your Google Cloud Certified - Professional Cloud Security Engineer Exam certification exam. You can trust the material and set aside an edge to zero in on those before you win eventually over the last Google Cloud Certified - Professional Cloud Security Engineer Exam (Professional-Cloud-Security-Engineer) exam dates. To get it, find the source that assists you with getting the right test and spotlight on material agreeable for you for organizing the Google Cloud Certified - Professional Cloud Security Engineer Exam exam.

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