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Google Professional-Cloud-Security-Engineer Certification Exam covers a range of topics related to cloud security, including security management, data protection, identity and access management, compliance and regulation, and incident management. Google Cloud Certified - Professional Cloud Security Engineer Exam certification exam is ideal for professionals who want to work with Google Cloud Platform (GCP) and ensure that their organizations can maintain a secure and compliant cloud environment.

Google Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q242-Q247):

NEW QUESTION # 242

You will create a new Service Account that should be able to list the Compute Engine instances in the project.

You want to follow Google-recommended practices.

What should you do?

- A. Create an Instance Template, and allow the Service Account Read Only access for the Compute Engine Access Scope.
- B. Give the Service Account the role of Project Viewer, and use the new Service Account for all instances.
- C. Give the Service Account the role of Compute Viewer, and use the new Service Account for all instances.
- D. Create a custom role with the permission `compute.instances.list` and grant the Service Account this role.

Answer: D

Explanation:

* Objective: Create a Service Account that can list Compute Engine instances in the project following Google-recommended practices.

* Solution: Create a custom role and assign it to the Service Account.

* Steps:

* Step 1: Open the Google Cloud Console.

* Step 2: Navigate to the IAM & Admin page and select "Roles".

* Step 3: Click on "Create Role" and define a new role with a suitable name and description.

* Step 4: Add the permission `compute.instances.list` to the custom role.

* Step 5: Save the custom role.

* Step 6: Go to the "Service Accounts" section.

* Step 7: Create a new Service Account or select an existing one.

* Step 8: Assign the newly created custom role to the Service Account.

By creating a custom role with the specific permission to list Compute Engine instances, you follow the principle of least privilege, which is a recommended security practice.

References:

* Creating and Managing Custom Roles

* Best Practices for IAM

NEW QUESTION # 243

Your company's detection and response team requires break-glass access to the Google Cloud organization in the event of a security investigation. At the end of each day, all security group membership is removed. You need to automate user provisioning to a Cloud Identity security group. You have created a service account to provision group memberships. Your solution must follow Google-recommended practices and comply with the principle of least privilege. What should you do?

- A. In Google Workspace, grant the Groups Editor role to the service account, enable the Cloud Identity API, and use Application Default Credentials with the resource-attached service account.
- B. In Google Workspace, grant the Groups Editor role to the service account. Enable the Cloud Identity API. Use a service account key.
- C. In Google Workspace, grant the service account client ID access to the scope, <https://www.googleapis.com/auth/admin.directory.group>, by using domain-wide delegation, and use a service account key.
- D. In Google Workspace, grant the service account client ID access to the scope, <https://www.googleapis.com/auth/admin.directory.group>, by using domain-wide delegation. Use Application Default Credentials with the resource-attached service account.

Answer: D

Explanation:

The problem requires automating user provisioning to a Cloud Identity security group using a service account, adhering to Google-recommended practices and the principle of least privilege.

Cloud Identity Groups and Google Workspace: Cloud Identity groups are managed as part of Google Workspace. To programmatically manage Google Workspace resources (like groups), you typically use the Admin SDK APIs.

Domain-Wide Delegation: Service accounts cannot directly authenticate to Google Workspace APIs using IAM roles. Instead, they require "domain-wide delegation" to impersonate a user with the necessary administrative privileges within Google Workspace. This allows a service account to access user data or perform administrative tasks across the domain. The correct scope for managing groups is <https://www.googleapis.com/auth/admin.directory.group>.

Extract Reference: "To allow a service account to access user data on behalf of users in a Google Workspace domain, you must delegate domain-wide authority to your service account." (Google Cloud documentation: <https://developers.google.com/identity/protocols/oauth2/service-account#delegating>)

Extract Reference (Admin SDK Scopes): The <https://www.googleapis.com/auth/admin.directory.group> scope is explicitly listed for "View and manage all groups on the domain." (Google Workspace Admin SDK documentation: <https://developers.google.com/admin-sdk/directory/v1/scopes>) Application Default Credentials (ADC) with Resource-Attached

Service Account: Google-recommended practices strongly advise against using service account keys directly for authentication when running on Google Cloud infrastructure. Instead, it's recommended to use Application Default Credentials (ADC) with a service account attached to the resource (e.g., a Compute Engine VM, Cloud Run service, or Cloud Functions). This method manages credentials automatically and securely, reducing the risk associated with managing and rotating keys. Extract Reference: "For most Google Cloud services, Application Default Credentials (ADC) is the recommended way to authenticate." and "When running code in a Google Cloud environment, such as Compute Engine, Cloud Run, or Cloud Functions, use the built-in service account to authenticate automatically with ADC. This is the most secure approach, as you don't need to manually create or manage service account keys." (Google Cloud documentation: <https://cloud.google.com/docs/authentication/production>)

Options C and D are incorrect because granting an IAM role like "Groups Editor" in Google Cloud does not enable a service account to manage Google Workspace (Cloud Identity) group memberships; domain-wide delegation is required for that. Option A uses a service account key, which is less secure than ADC with a resource-attached service account according to Google's recommendations.

Therefore, option B is the most aligned with Google's recommended practices for securely automating group provisioning using a service account and domain-wide delegation.

NEW QUESTION # 244

Your organization develops software involved in many open source projects and is concerned about software supply chain threats. You need to deliver provenance for the build to demonstrate the software is untampered.

What should you do?

- A. * 1. Publish the software code on GitHub as open source.
* 2. Establish a bug bounty program, and encourage the open source community to review, report, and fix the vulnerabilities.
- B. * 1. Review the software process.
* 2. Generate private and public key pairs and use Pretty Good Privacy (PGP) protocols to sign the output software artifacts together with a file containing the address of your enterprise and point of contact.
* 3. Publish the PGP signed attestation to your public web page.
- C. * 1. Hire an external auditor to review and provide provenance
* 2. Define the scope and conditions.
* 3. Get support from the Security department or representative.
- D. * 1- Generate Supply Chain Levels for Software Artifacts (SLSA) level 3 assurance by using Cloud Build.
* 2. View the build provenance in the Security insights side panel within the Google Cloud console.

Answer: D

Explanation:

* 4. Publish the attestation to your public web page.

Explanation:

Generate Supply Chain Levels for Software Artifacts (SLSA) level 3 assurance by using Cloud Build: SLSA is a framework for ensuring the integrity of software artifacts. By using Cloud Build, you can automate the build process and generate SLSA level 3 compliance, which includes verifiable build steps and provenance.

View the build provenance in the Security insights side panel within the Google Cloud console: The build provenance provides a detailed history of how the software was built, including the source code, build process, and any dependencies. This information is accessible through the Security insights side panel in the Google Cloud console, allowing you to verify the integrity and authenticity of your software artifacts.

Reference:

Supply Chain Levels for Software Artifacts (SLSA) documentation

Cloud Build documentation

Security insights in Google Cloud console

NEW QUESTION # 245

A company allows every employee to use Google Cloud Platform. Each department has a Google Group, with all department members as group members. If a department member creates a new project, all members of that department should automatically have read-only access to all new project resources. Members of any other department should not have access to the project. You need to configure this behavior.

What should you do to meet these requirements?

- A. Create a Project per department under the Organization. For each department's Project, assign the Project Browser role

to the Google Group related to that department.

- **B. Create a Folder per department under the Organization. For each department's Folder, assign the Project Viewer role to the Google Group related to that department.**
- C. Create a Project per department under the Organization. For each department's Project, assign the Project Viewer role to the Google Group related to that department.
- D. Create a Folder per department under the Organization. For each department's Folder, assign the Project Browser role to the Google Group related to that department.

Answer: B

NEW QUESTION # 246

You need to set up two network segments: one with an untrusted subnet and the other with a trusted subnet. You want to configure a virtual appliance such as a next-generation firewall (NGFW) to inspect all traffic between the two network segments. How should you design the network to inspect the traffic?

- **A. 1. Set up two VPC networks: one trusted and the other untrusted. 2. Configure a virtual appliance using multiple network interfaces, with each interface connected to one of the VPC networks.**
- B. 1. Set up one VPC with two subnets: one trusted and the other untrusted. 2. Configure a custom route for all traffic (0.0.0.0/0) pointed to the virtual appliance.
- C. 1. Set up one VPC with two subnets: one trusted and the other untrusted. 2. Configure a custom route for all RFC1918 subnets pointed to the virtual appliance.
- D. 1. Set up two VPC networks: one trusted and the other untrusted, and peer them together. 2. Configure a custom route on each network pointed to the virtual appliance.

Answer: A

Explanation:

Multiple network interfaces. The simplest way to connect multiple VPC networks through a virtual appliance is by using multiple network interfaces, with each interface connecting to one of the VPC networks. Internet and on-premises connectivity is provided over one or two separate network interfaces. With many NGFW products, internet connectivity is connected through an interface marked as untrusted in the NGFW software.

https://www.cisco.com/c/en/us/td/docs/security/firepower/quick_start/gcp/ftdv-gcp-gsg/ftdv-gcp-intro.html

NEW QUESTION # 247

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