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Google Professional-Cloud-Security-Engineer Certification is a highly respected and in-demand certification offered by Google Cloud. Google Cloud Certified - Professional Cloud Security Engineer Exam certification program is designed for IT professionals who are responsible for designing, implementing and managing security solutions in the Google Cloud environment. Google Cloud Certified - Professional Cloud Security Engineer Exam certification exam assesses a candidate's knowledge and skills in securing the GCP infrastructure and services, managing identity and access, ensuring data protection and compliance, and managing incident response.

Ensuring Compliance

The last topic of the certification exam evaluates the applicants' understanding of regulatory concerns as well as compute environment concerns. Specifically, they will need to demonstrate their knowledge of the security shared responsibility model, security guarantees in the framework of Cloud execution environments, security guarantees & constraints for different compute environments (Google Kubernetes Engine, Compute Engine, App Engine), and more.

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Google Professional-Cloud-Security-Engineer Certification is designed for professionals with strong security, compliance, and networking experience who are looking to expand their knowledge and skills in the cloud. Candidates are expected to have at least three years of experience working in a security role with a minimum of one year of experience working specifically in a cloud computing environment. Candidates are also expected to have expertise in designing and implementing cloud security solutions.

Google Cloud Certified - Professional Cloud Security Engineer Exam Sample Questions (Q127-Q132):

NEW QUESTION # 127
You plan to use a Google Cloud Armor policy to prevent common attacks such as cross-site scripting (XSS) and SQL injection (SQLi) from reaching your web application's backend. What are two requirements for using Google Cloud Armor security policies? (Choose two.)

- A. The load balancer must use the Premium Network Service Tier.
- B. The backend service's load balancing scheme must be EXTERNAL.
- C. The load balancer must be an external HTTP(S) load balancer.
- D. The load balancer must be an external SSL proxy load balancer.
- E. Google Cloud Armor Policy rules can only match on Layer 7 (L7) attributes.

Answer: B,C

Explanation:
Google Cloud Armor helps to protect applications from DDoS attacks and web application firewall (WAF) threats like XSS and SQLi. To use Google Cloud Armor security policies, certain requirements must be met:
* External Load Balancers: Google Cloud Armor is specifically designed to work with external HTTP (S) load balancers, which handle traffic at the edge of the Google Cloud network. This type of load balancer provides a global frontend that can distribute traffic to various backends.
* Load Balancing Scheme: The backend service associated with the Google Cloud Armor policy must have an EXTERNAL load balancing scheme. This scheme allows the service to accept traffic from outside the Google Cloud network, which is necessary for applying security policies effectively at the network edge.
These requirements ensure that Google Cloud Armor can inspect and filter incoming traffic before it reaches your web application's backend services, providing an additional layer of security against common web vulnerabilities.
References
* Google Cloud Armor Documentation
* External HTTP(S) Load Balancing Overview

NEW QUESTION # 128
Your company is developing a new application for your organization. The application consists of two Cloud Run services, service A and service B. Service A provides a web-based user front-end. Service B provides back-end services that are called by service A. You need to set up identity and access management for the application. Your solution should follow the principle of least privilege. What should you do?

- A. Use the Compute Engine default service account to run service A and service B. Require authentication for service B. Permit only the default service account to call the backend.
- B. Create a new service account with the permissions to run service A and service B. Require authentication for service B. Permit only the new service account to call the backend.
- C. Create two separate service accounts. Grant one service account the permissions to execute service A, and grant the other service account the permissions to execute service B. Require authentication for service B. Permit only the service account for service A to call the back-end.
- D. Create three separate service accounts. Grant one service account the permissions to execute service A.Grant the second service account the permissions to run service B. Grant the third service account the permissions to communicate between both services A and B. Require authentication for service B. Call the back-end by authenticating with a service account key for the third service account.

Answer: C

Explanation:
The problem describes an application with two Cloud Run services (Service A - frontend, Service B - backend) and requires setting up IAM with the principle of least privilege. Service A calls Service B.
Principle of Least Privilege: This principle dictates that each entity (in this case, a Cloud Run service) should only have the minimum permissions necessary to perform its function.
Separate Service Accounts for Separate Services: To adhere to the principle of least privilege, it's best practice to assign a unique service account to each distinct service or component. This ensures that a compromise of one service account does not grant excessive permissions across other services. Service A needs permissions to run itself and to invoke Service B. Service B only needs permissions to run itself.Extract Reference:
"Assign a service account to a Cloud Run service. The service account acts as the identity for your service and determines what permissions your revisions have when executing requests. It is a best practice to grant each service account only the permissions that are required to run the specific service (principle of least privilege)." (Google Cloud documentation: https://cloud.google.com/run/docs/configuring/service-accounts) Authentication for Cloud Run Services: When one Cloud Run service (caller) needs to invoke another Cloud Run service (callee), the caller must be authorized to do so. This is typically achieved by assigning the roles
/run.invoker role on the callee service to the caller's service account.Extract Reference: "To allow a service to invoke another service, grant the roles/run.invoker role on the called service to the caller's service account." (Google Cloud documentation: https://cloud.google.com/run/docs/securing/service-to-service) Let's evaluate the options:
A). Create a new service account with the permissions to run service A and service B. Require authentication for service B. Permit only the new service account to call the backend. This violates the principle of least privilege by giving a single service account permissions for both services. If that service account were compromised, both services would be affected.
B). Create two separate service accounts. Grant one service account the permissions to execute service A, and grant the other service account the permissions to execute service B. Require authentication for service B.
Permit only the service account for service A to call the back-end. This aligns perfectly with least privilege.
Service A gets its own identity, Service B gets its own identity. Service A's service account is then granted run.invoker permissions on Service B, allowing it to call the backend while Service B requires authentication.
This is the recommended approach.
C). Use the Compute Engine default service account to run service A and service B. Require authentication for service B. Permit only the default service account to call the backend. The Compute Engine default service account often has broad permissions (e.g., editor role in its project). Using it violates the principle of least privilege and is generally discouraged for production applications due to the potential for excessive permissions.
D). Create three separate service accounts. Grant one service account the permissions to execute service A.
Grant the second service account the permissions to run service B. Grant the third service account the permissions to communicate between both services A and B. Require authentication for service B. Call the back-end by authenticating with a service account key for the third service account. This introduces unnecessary complexity with a third service account just for communication. More critically, using a service account key for authentication is generally discouraged in Cloud Run environments where ADC (Application Default Credentials) can be used, as managing keys securely becomes an operational overhead and security risk. Cloud Run services automatically use their attached service accounts for authentication when making calls to other Google Cloud services, including other Cloud Run services.
Therefore, option B is the best solution, adhering to the principle of least privilege and Google Cloud best practices for Cloud Run service-to-service authentication.

NEW QUESTION # 129
A company is deploying their application on Google Cloud Platform. Company policy requires long-term data to be stored using a solution that can automatically replicate data over at least two geographic places.
Which Storage solution are they allowed to use?

- A. Compute Engine SSD Disk
- B. Compute Engine Persistent Disk
- C. Cloud Bigtable
- D. Cloud BigQuery

Answer: D

Explanation:
Explanation/Reference: https://cloud.google.com/bigquery/docs/locations

NEW QUESTION # 130
A company has been running their application on Compute Engine. A bug in the application allowed a malicious user to repeatedly execute a script that results in the Compute Engine instance crashing. Although the bug has been fixed, you want to get notified in case this hack re- occurs.
What should you do?

- A. Create an Alerting Policy in Stackdriver using the CPU usage metric. Set the threshold to 80% to be notified when the CPU usage goes above this 80%.
- B. Log every execution of the script to Stackdriver Logging. Configure BigQuery as a log sink, and create a BigQuery scheduled query to count the number of executions in a specific timeframe.
- C. Log every execution of the script to Stackdriver Logging. Create a User-defined metric in Stackdriver Logging on the logs, and create a Stackdriver Dashboard displaying the metric.
- D. Create an Alerting Policy in Stackdriver using a Process Health condition, checking that the number of executions of the script remains below the desired threshold. Enable notifications.

Answer: C

Explanation:
https://cloud.google.com/logging/docs/logs-based-metrics/

NEW QUESTION # 131
You manage a fleet of virtual machines (VMs) in your organization. You have encountered issues with lack of patching in many VMs. You need to automate regular patching in your VMs and view the patch management data across multiple projects.
What should you do? (Choose two.)

- A. Deploy patches with Security Command Genter by using Rapid Vulnerability Detection.
- B. View patch management data in VM Manager by using OS patch management.
- C. View patch management data in Artifact Registry.
- D. View patch management data in a Security Command Center dashboard.
- E. Deploy patches with VM Manager by using OS patch management.

Answer: D,E

NEW QUESTION # 132
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