

Exam Questions Professional-Cloud-Security-Engineer

Google Cloud Certified - Professional Cloud Security Engineer

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NEW QUESTION 1

You want to evaluate GCP for PCI compliance. You need to identify Google's inherent controls. Which document should you review to find the information?

- A. Google Cloud Platform: Customer Responsibility Matrix
- B. PCI DSS Requirements and Security Assessment Procedures
- C. PCI SSC Cloud Computing Guidelines
- D. Product documentation for Compute Engine

Answer: C

NEW QUESTION 2

While migrating your organization's infrastructure to GCP, a large number of users will need to access GCP Console. The Identity Management team already has a well-established way to manage your users and want to keep using your existing Active Directory or LDAP server along with the existing SSO password. What should you do?

- A. Manually synchronize the data in Google domain with your existing Active Directory or LDAP server.
- B. Use Google Cloud Directory Sync to synchronize the data in Google domain with your existing Active Directory or LDAP server.
- C. Users sign in directly to the GCP Console using the credentials from your on-premises Kerberoscompliant identity provider.
- D. Users sign in using OpenID (OIDC) compatible IdP, receive an authentication token, then use that token to log in to the GCP Console.

Answer: B

NEW QUESTION 3

A customer's company has multiple business units. Each business unit operates independently, and each has their own engineering group. Your team wants visibility into all projects created within the company and wants to organize their Google Cloud Platform (GCP) projects based on different business units. Each business unit also requires separate sets of IAM permissions. Which strategy should you use to meet these needs?

- A. Create an organization node, and assign folders for each business unit.
- B. Establish standalone projects for each business unit, using gmail.com accounts.
- C. Assign GCP resources in a project, with a label identifying which business unit owns the resource.
- D. Assign GCP resources in a VPC for each business unit to separate network access.

Answer: A

NEW QUESTION 4

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

Answer: D

NEW QUESTION 5

You are the Security Admin in your company. You want to synchronize all security groups that have an email address from your LDAP directory in Cloud IAM.

- A. Configure Google Cloud Directory Sync to sync security groups using LDAP search rules that have "user email address" as the attribute to facilitate one-way sync.
- B. Configure Google Cloud Directory Sync to sync security groups using LDAP search rules that have "user email address" as the attribute to facilitate bidirectional sync.
- C. Use a management tool to sync the subset based on the email address attribut
- D. Create a group in the Google domai
- E. A group created in a Google domain will automatically have an explicit Google Cloud Identity and Access Management (IAM) role.
- F. Use a management tool to sync the subset based on group object class attribut
- G. Create a group in the Google domai
- H. A group created in a Google domain will automatically have an explicit Google Cloud Identity and Access Management (IAM) role.

Answer: C

NEW QUESTION 6

Your company is using GSuite and has developed an application meant for internal usage on Google App Engine. You need to make sure that an external user cannot gain access to the application even when an employee's password has been compromised. What should you do?

- A. Enforce 2-factor authentication in GSuite for all users.
- B. Configure Cloud Identity-Aware Proxy for the App Engine Application.
- C. Provision user passwords using GSuite Password Sync.
- D. Configure Cloud VPN between your private network and GCP.

Answer: D

NEW QUESTION 7

Which two implied firewall rules are defined on a VPC network? (Choose two.)

- A. A rule that allows all outbound connections
- B. A rule that denies all inbound connections
- C. A rule that blocks all inbound port 25 connections
- D. A rule that blocks all outbound connections
- E. A rule that allows all inbound port 80 connections

Answer: AB

NEW QUESTION 8

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

Answer: A

NEW QUESTION 9

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

Answer: C

NEW QUESTION 10

A customer needs an alternative to storing their plain text secrets in their source-code management (SCM) system. How should the customer achieve this using Google Cloud Platform?

- A. Use Cloud Source Repositories, and store secrets in Cloud SQL.
- B. Encrypt the secrets with a Customer-Managed Encryption Key (CMEK), and store them in Cloud Storage.
- C. Run the Cloud Data Loss Prevention API to scan the secrets, and store them in Cloud SQL.
- D. Deploy the SCM to a Compute Engine VM with local SSDs, and enable preemptible VMs.

Answer: B

NEW QUESTION 10

A company is running their webshop on Google Kubernetes Engine and wants to analyze customer transactions in BigQuery. You need to ensure that no credit card numbers are stored in BigQuery. What should you do?

- A. Create a BigQuery view with regular expressions matching credit card numbers to query and delete affected rows.
- B. Use the Cloud Data Loss Prevention API to redact related infoTypes before data is ingested into BigQuery.
- C. Leverage Security Command Center to scan for the assets of type Credit Card Number in BigQuery.
- D. Enable Cloud Identity-Aware Proxy to filter out credit card numbers before storing the logs in BigQuery.

Answer: D

NEW QUESTION 13

You are a member of the security team at an organization. Your team has a single GCP project with credit card payment processing systems alongside web applications and data processing systems. You want to reduce the scope of systems subject to PCI audit standards. What should you do?

- A. Use multi-factor authentication for admin access to the web application.
- B. Use only applications certified compliant with PA-DSS.
- C. Move the cardholder data environment into a separate GCP project.
- D. Use VPN for all connections between your office and cloud environments.

Answer: D

NEW QUESTION 16

Your company runs a website that will store PII on Google Cloud Platform. To comply with data privacy regulations, this data can only be stored for a specific amount of time and must be fully deleted after this specific period. Data that has not yet reached the time period should not be deleted. You want to automate the process of complying with this regulation.

What should you do?

- A. Store the data in a single Persistent Disk, and delete the disk at expiration time.
- B. Store the data in a single BigQuery table and set the appropriate table expiration time.
- C. Store the data in a single Cloud Storage bucket and configure the bucket's Time to Live.
- D. Store the data in a single BigTable table and set an expiration time on the column families.

Answer: B

NEW QUESTION 17

You are on your company's development team. You noticed that your web application hosted in staging on GKE dynamically includes user data in web pages without first properly validating the inputted data. This could allow an attacker to execute gibberish commands and display arbitrary content in a victim user's browser in a production environment.

How should you prevent and fix this vulnerability?

- A. Use Cloud IAP based on IP address or end-user device attributes to prevent and fix the vulnerability.
- B. Set up an HTTPS load balancer, and then use Cloud Armor for the production environment to prevent the potential XSS attack.
- C. Use Web Security Scanner to validate the usage of an outdated library in the code, and then use a secured version of the included library.
- D. Use Web Security Scanner in staging to simulate an XSS injection attack, and then use a templating system that supports contextual auto-escaping.

Answer: D

NEW QUESTION 19

When working with agents in a support center via online chat, an organization's customers often share pictures of their documents with personally identifiable information (PII). The organization that owns the support center is concerned that the PII is being stored in their databases as part of the regular chat logs they retain for

review by internal or external analysts for customer service trend analysis.

Which Google Cloud solution should the organization use to help resolve this concern for the customer while still maintaining data utility?

- A. Use Cloud Key Management Service (KMS) to encrypt the PII data shared by customers before storing it for analysis.
- B. Use Object Lifecycle Management to make sure that all chat records with PII in them are discarded and not saved for analysis.
- C. Use the image inspection and redaction actions of the DLP API to redact PII from the images before storing them for analysis.
- D. Use the generalization and bucketing actions of the DLP API solution to redact PII from the texts before storing them for analysis.

Answer: D

Explanation:

Reference; <https://cloud.google.com/dlp/docs/deidentify-sensitive-data>

NEW QUESTION 22

An organization adopts Google Cloud Platform (GCP) for application hosting services and needs guidance on setting up password requirements for their Cloud Identity account. The organization has a password policy requirement that corporate employee passwords must have a minimum number of characters.

Which Cloud Identity password guidelines can the organization use to inform their new requirements?

- A. Set the minimum length for passwords to be 8 characters.
- B. Set the minimum length for passwords to be 10 characters.
- C. Set the minimum length for passwords to be 12 characters.
- D. Set the minimum length for passwords to be 6 characters.

Answer: C

NEW QUESTION 27

Your team needs to make sure that their backend database can only be accessed by the frontend application and no other instances on the network.

How should your team design this network?

- A. Create an ingress firewall rule to allow access only from the application to the database using firewall tags.
- B. Create a different subnet for the frontend application and database to ensure network isolation.
- C. Create two VPC networks, and connect the two networks using Cloud VPN gateways to ensure network isolation.
- D. Create two VPC networks, and connect the two networks using VPC peering to ensure network isolation.

Answer: A

NEW QUESTION 32

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. Network Load Balancing
- B. HTTP(S) Load Balancing
- C. TCP Proxy Load Balancing
- D. SSL Proxy Load Balancing

Answer: D

NEW QUESTION 36

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

NEW QUESTION 37

A company's application is deployed with a user-managed Service Account key. You want to use Google- recommended practices to rotate the key. What should you do?

- A. Open Cloud Shell and run `gcloud iam service-accounts enable-auto-rotate --iam- account=IAM_ACCOUNT`.
- B. Open Cloud Shell and run `gcloud iam service-accounts keys rotate --iam- account=IAM_ACCOUNT--key=NEW_KEY`.
- C. Create a new key, and use the new key in the applicatio
- D. Delete the old key from the Service Account.
- E. Create a new key, and use the new key in the applicatio
- F. Store the old key on the system as a backup key.

Answer: C

NEW QUESTION 41

A customer needs to prevent attackers from hijacking their domain/IP and redirecting users to a malicious site through a man-in-the-middle attack. Which solution should this customer use?

- A. VPC Flow Logs
- B. Cloud Armor
- C. DNS Security Extensions
- D. Cloud Identity-Aware Proxy

Answer: C

NEW QUESTION 45

An organization is starting to move its infrastructure from its on-premises environment to Google Cloud Platform (GCP). The first step the organization wants to take is to migrate its ongoing data backup and disaster recovery solutions to GCP. The organization's on-premises production environment is going to be the next phase for migration to GCP. Stable networking connectivity between the on-premises environment and GCP is also being implemented. Which GCP solution should the organization use?

- A. BigQuery using a data pipeline job with continuous updates via Cloud VPN
- B. Cloud Storage using a scheduled task and gsutil via Cloud Interconnect
- C. Compute Engines Virtual Machines using Persistent Disk via Cloud Interconnect
- D. Cloud Datastore using regularly scheduled batch upload jobs via Cloud VPN

Answer: B

NEW QUESTION 48

Your team wants to make sure Compute Engine instances running in your production project do not have public IP addresses. The frontend application Compute Engine instances will require public IPs. The product engineers have the Editor role to modify resources. Your team wants to enforce this requirement. How should your team meet these requirements?

- A. Enable Private Access on the VPC network in the production project.
- B. Remove the Editor role and grant the Compute Admin IAM role to the engineers.
- C. Set up an organization policy to only permit public IPs for the front-end Compute Engine instances.
- D. Set up a VPC network with two subnets: one with public IPs and one without public IPs.

Answer: C

NEW QUESTION 50

You want to limit the images that can be used as the source for boot disks. These images will be stored in a dedicated project. What should you do?

- A. Use the Organization Policy Service to create a `compute.trustedimageProjects` constraint on the organization leve
- B. List the trusted project as the whitelist in an allow operation.
- C. Use the Organization Policy Service to create a `compute.trustedimageProjects` constraint on the organization leve
- D. List the trusted projects as the exceptions in a deny operation.
- E. In Resource Manager, edit the project permissions for the trusted projec
- F. Add the organization as member with the role: Compute Image User.
- G. In Resource Manager, edit the organization permission
- H. Add the project ID as member with the role: Compute Image User.

Answer: B

NEW QUESTION 55

You are the security admin of your company. Your development team creates multiple GCP projects under the "implementation" folder for several dev, staging, and production workloads. You want to prevent data exfiltration by malicious insiders or compromised code by setting up a security perimeter. However, you do not want to restrict communication between the projects.

What should you do?

- A. Use a Shared VPC to enable communication between all projects, and use firewall rules to prevent data exfiltration.
- B. Create access levels in Access Context Manager to prevent data exfiltration, and use a shared VPC for communication between projects.
- C. Use an infrastructure-as-code software tool to set up a single service perimeter and to deploy a Cloud Function that monitors the "implementation" folder via Stackdriver and Cloud Pub/Su
- D. When the function notices that a new project is added to the folder, it executes Terraform to add the new project to the associated perimeter.
- E. Use an infrastructure-as-code software tool to set up three different service perimeters for dev, staging, and prod and to deploy a Cloud Function that monitors the "implementation" folder via Stackdriver and Cloud Pub/Su
- F. When the function notices that a new project is added to the folder, it executes Terraform to add the new project to the respective perimeter.

Answer: B

NEW QUESTION 58

An organization receives an increasing number of phishing emails.
Which method should be used to protect employee credentials in this situation?

- A. Multifactor Authentication
- B. A strict password policy
- C. Captcha on login pages
- D. Encrypted emails

Answer: D

NEW QUESTION 62

An organization is migrating from their current on-premises productivity software systems to G Suite. Some network security controls were in place that were mandated by a regulatory body in their region for their previous on-premises system. The organization's risk team wants to ensure that network security controls are maintained and effective in G Suite. A security architect supporting this migration has been asked to ensure that network security controls are in place as part of the new shared responsibility model between the organization and Google Cloud.
What solution would help meet the requirements?

- A. Ensure that firewall rules are in place to meet the required controls.
- B. Set up Cloud Armor to ensure that network security controls can be managed for G Suite.
- C. Network security is a built-in solution and Google's Cloud responsibility for SaaS products like G Suite.
- D. Set up an array of Virtual Private Cloud (VPC) networks to control network security as mandated by the relevant regulation.

Answer: B

NEW QUESTION 67

An engineering team is launching a web application that will be public on the internet. The web application is hosted in multiple GCP regions and will be directed to the respective backend based on the URL request.
Your team wants to avoid exposing the application directly on the internet and wants to deny traffic from a specific list of malicious IP addresses
Which solution should your team implement to meet these requirements?

- A. Cloud Armor
- B. Network Load Balancing
- C. SSL Proxy Load Balancing
- D. NAT Gateway

Answer: A

NEW QUESTION 71

You are part of a security team that wants to ensure that a Cloud Storage bucket in Project A can only be readable from Project B. You also want to ensure that data in the Cloud Storage bucket cannot be accessed from or copied to Cloud Storage buckets outside the network, even if the user has the correct credentials.
What should you do?

- A. Enable VPC Service Controls, create a perimeter with Project A and B, and include Cloud Storage service.
- B. Enable Domain Restricted Sharing Organization Policy and Bucket Policy Only on the Cloud Storage bucket.
- C. Enable Private Access in Project A and B networks with strict firewall rules to allow communication between the networks.
- D. Enable VPC Peering between Project A and B networks with strict firewall rules to allow communication between the networks.

Answer: B

NEW QUESTION 72

Your company is using Cloud Dataproc for its Spark and Hadoop jobs. You want to be able to create, rotate, and destroy symmetric encryption keys used for the persistent disks used by Cloud Dataproc. Keys can be stored in the cloud.
What should you do?

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

Answer: A

NEW QUESTION 73

A retail customer allows users to upload comments and product reviews. The customer needs to make sure the text does not include sensitive data before the

comments or reviews are published.

Which Google Cloud Service should be used to achieve this?

- A. Cloud Key Management Service
- B. Cloud Data Loss Prevention API
- C. BigQuery
- D. Cloud Security Scanner

Answer: D

NEW QUESTION 77

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