



**Google**

## **Exam Questions Professional-Cloud-Security-Engineer**

Google Cloud Certified - Professional Cloud Security Engineer

#### NEW QUESTION 1

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 2

Your team needs to make sure that a Compute Engine instance does not have access to the internet or to any Google APIs or services. Which two settings must remain disabled to meet these requirements? (Choose two.)

- A. Public IP
- B. IP Forwarding
- C. Private Google Access
- D. Static routes
- E. IAM Network User Role

**Answer: CD**

#### NEW QUESTION 3

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 4

An organization is evaluating the use of Google Cloud Platform (GCP) for certain IT workloads. A well- established directory service is used to manage user identities and lifecycle management. This directory service must continue for the organization to use as the “source of truth” directory for identities. Which solution meets the organization's requirements?

- A. Google Cloud Directory Sync (GCDS)
- B. Cloud Identity
- C. Security Assertion Markup Language (SAML)
- D. Pub/Sub

**Answer: B**

#### NEW QUESTION 5

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. Create a custom role with the permission compute.instances.list and grant the Service Account this role.
- C. Give the Service Account the role of Compute Viewer, and use the new Service Account for all instances.
- D. Give the Service Account the role of Project Viewer, and use the new Service Account for all instances.

**Answer: A**

#### NEW QUESTION 6

You are part of a security team investigating a compromised service account key. You need to audit which new resources were created by the service account. What should you do?

- A. Query Data Access logs.
- B. Query Admin Activity logs.
- C. Query Access Transparency logs.
- D. Query Stackdriver Monitoring Workspace.

**Answer: A**

#### NEW QUESTION 7

A company is running workloads in a dedicated server room. They must only be accessed from within the private company network. You need to connect to these

workloads from Compute Engine instances within a Google Cloud Platform project.  
Which two approaches can you take to meet the requirements? (Choose two.)

- A. Configure the project with Cloud VPN.
- B. Configure the project with Shared VPC.
- C. Configure the project with Cloud Interconnect.
- D. Configure the project with VPC peering.
- E. Configure all Compute Engine instances with Private Access.

**Answer:** DE

#### NEW QUESTION 8

A customer wants to deploy a large number of 3-tier web applications on Compute Engine.  
How should the customer ensure authenticated network separation between the different tiers of the application?

- A. Run each tier in its own Project, and segregate using Project labels.
- B. Run each tier with a different Service Account (SA), and use SA-based firewall rules.
- C. Run each tier in its own subnet, and use subnet-based firewall rules.
- D. Run each tier with its own VM tags, and use tag-based firewall rules.

**Answer:** C

#### NEW QUESTION 9

When creating a secure container image, which two items should you incorporate into the build if possible? (Choose two.)

- A. Ensure that the app does not run as PID 1.
- B. Package a single app as a container.
- C. Remove any unnecessary tools not needed by the app.
- D. Use public container images as a base image for the app.
- E. Use many container image layers to hide sensitive information.

**Answer:** BC

#### NEW QUESTION 10

A patch for a vulnerability has been released, and a DevOps team needs to update their running containers in Google Kubernetes Engine (GKE).  
How should the DevOps team accomplish this?

- A. Use Puppet or Chef to push out the patch to the running container.
- B. Verify that auto upgrade is enabled; if so, Google will upgrade the nodes in a GKE cluster.
- C. Update the application code or apply a patch, build a new image, and redeploy it.
- D. Configure containers to automatically upgrade when the base image is available in Container Registry.

**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 11

An organization's security and risk management teams are concerned about where their responsibility lies for certain production workloads they are running in Google Cloud Platform (GCP), and where Google's responsibility lies. They are mostly running workloads using Google Cloud's Platform-as-a-Service (PaaS) offerings, including App Engine primarily.  
Which one of these areas in the technology stack would they need to focus on as their primary responsibility when using App Engine?

- A. Configuring and monitoring VPC Flow Logs
- B. Defending against XSS and SQLi attacks
- C. Manage the latest updates and security patches for the Guest OS
- D. Encrypting all stored data

**Answer:** D

#### NEW QUESTION 16

A customer wants to make it convenient for their mobile workforce to access a CRM web interface that is hosted on Google Cloud Platform (GCP). The CRM can only be accessed by someone on the corporate network. The customer wants to make it available over the internet. Your team requires an authentication layer in front of the application that supports two-factor authentication.  
Which GCP product should the customer implement to meet these requirements?

- A. Cloud Identity-Aware Proxy
- B. Cloud Armor

- C. Cloud Endpoints
- D. Cloud VPN

**Answer:** D

#### NEW QUESTION 20

You need to follow Google-recommended practices to leverage envelope encryption and encrypt data at the application layer. What should you do?

- A. Generate a data encryption key (DEK) locally to encrypt the data, and generate a new key encryptionkey (KEK) in Cloud KMS to encrypt the DE
- B. Store both the encrypted data and the encrypted DEK.
- C. Generate a data encryption key (DEK) locally to encrypt the data, and generate a new key encryption key (KEK) in Cloud KMS to encrypt the DE
- D. Store both the encrypted data and the KEK.
- E. Generate a new data encryption key (DEK) in Cloud KMS to encrypt the data, and generate a key encryption key (KEK) locally to encrypt the ke
- F. Store both the encrypted data and the encrypted DEK.
- G. Generate a new data encryption key (DEK) in Cloud KMS to encrypt the data, and generate a key encryption key (KEK) locally to encrypt the ke
- H. Store both the encrypted data and the KEK.

**Answer:** A

#### NEW QUESTION 24

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 28

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 31

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 33

A large e-retailer is moving to Google Cloud Platform with its ecommerce website. The company wants to ensure payment information is encrypted between the customer's browser and GCP when the customers checkout online. What should they do?

- A. Configure an SSL Certificate on an L7 Load Balancer and require encryption.
- B. Configure an SSL Certificate on a Network TCP Load Balancer and require encryption.
- C. Configure the firewall to allow inbound traffic on port 443, and block all other inbound traffic.
- D. Configure the firewall to allow outbound traffic on port 443, and block all other outbound traffic.

**Answer:** A

#### NEW QUESTION 35

A customer is collaborating with another company to build an application on Compute Engine. The customer is building the application tier in their GCP Organization, and the other company is building the storage tier in a different GCP Organization. This is a 3-tier web application. Communication between portions

of the application must not traverse the public internet by any means.  
Which connectivity option should be implemented?

- A. VPC peering
- B. Cloud VPN
- C. Cloud Interconnect
- D. Shared VPC

**Answer: B**

#### NEW QUESTION 40

In an effort for your company messaging app to comply with FIPS 140-2, a decision was made to use GCP compute and network services. The messaging app architecture includes a Managed Instance Group (MIG) that controls a cluster of Compute Engine instances. The instances use Local SSDs for data caching and UDP for instance-to-instance communications. The app development team is willing to make any changes necessary to comply with the standard. Which options should you recommend to meet the requirements?

- A. Encrypt all cache storage and VM-to-VM communication using the BoringCrypto module.
- B. Set Disk Encryption on the Instance Template used by the MIG to customer-managed key and use BoringSSL for all data transit between instances.
- C. Change the app instance-to-instance communications from UDP to TCP and enable BoringSSL on clients' TLS connections.
- D. Set Disk Encryption on the Instance Template used by the MIG to Google-managed Key and use BoringSSL library on all instance-to-instance communications.

**Answer: D**

#### NEW QUESTION 44

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. Admin Activity logs
- B. System Event logs
- C. Data Access logs
- D. VPC Flow logs
- E. Agent logs

**Answer: AC**

#### NEW QUESTION 46

As adoption of the Cloud Data Loss Prevention (DLP) API grows within the company, you need to optimize usage to reduce cost. DLP target data is stored in Cloud Storage and BigQuery. The location and region are identified as a suffix in the resource name.  
Which cost reduction options should you recommend?

- A. Set appropriate rowsLimit value on BigQuery data hosted outside the US and set appropriate bytesLimitPerFile value on multiregional Cloud Storage buckets.
- B. Set appropriate rowsLimit value on BigQuery data hosted outside the US, and minimize transformation units on multiregional Cloud Storage buckets.
- C. Use rowsLimit and bytesLimitPerFile to sample data and use CloudStorageRegexFileSet to limit scans.
- D. Use FindingLimits and TimespanConfig to sample data and minimize transformation units.

**Answer: C**

#### NEW QUESTION 47

A customer's internal security team must manage its own encryption keys for encrypting data on Cloud Storage and decides to use customer-supplied encryption keys (CSEK).  
How should the team complete this task?

- A. Upload the encryption key to a Cloud Storage bucket, and then upload the object to the same bucket.
- B. Use the gsutil command line tool to upload the object to Cloud Storage, and specify the location of the encryption key.
- C. Generate an encryption key in the Google Cloud Platform Console, and upload an object to Cloud Storage using the specified key.
- D. Encrypt the object, then use the gsutil command line tool or the Google Cloud Platform Console to upload the object to Cloud Storage.

**Answer: D**

#### NEW QUESTION 50

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 51

You are creating an internal App Engine application that needs to access a user's Google Drive on the user's behalf. Your company does not want to rely on the current user's credentials. It also wants to follow Google recommended practices. What should you do?

- A. Create a new Service account, and give all application users the role of Service Account User.
- B. Create a new Service account, and add all application users to a Google Group.
- C. Give this group the role of Service Account User.
- D. Use a dedicated G Suite Admin account, and authenticate the application's operations with these G Suite credentials.
- E. Create a new service account, and grant it G Suite domain-wide delegation.
- F. Have the application use it to impersonate the user.

**Answer:** A

#### NEW QUESTION 56

Last week, a company deployed a new App Engine application that writes logs to BigQuery. No other workloads are running in the project. You need to validate that all data written to BigQuery was done using the App Engine Default Service Account.

What should you do?

- A. \* 1. Use StackDriver Logging and filter on BigQuery Insert Jobs.\* 2. Click on the email address in line with the App Engine Default Service Account in the authentication field.\* 3. Click Hide Matching Entries
- B. \* 4. Make sure the resulting list is empty.
- C. \* 1. Use StackDriver Logging and filter on BigQuery Insert Jobs.\* 2. Click on the email address in line with the App Engine Default Service Account in the authentication field.\* 3. Click Show Matching Entries
- D. \* 4. Make sure the resulting list is empty.
- E. \* 1. In BigQuery, select the related dataset.\* 2. Make sure the App Engine Default Service Account is the only account that can write to the dataset.
- F. \* 1. Go to the IAM section on the project.\* 2. Validate that the App Engine Default Service Account is the only account that has a role that can write to BigQuery.

**Answer:** C

#### NEW QUESTION 58

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 level
- 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 level
- D. List the trusted projects as the exceptions in a deny operation.
- E. In Resource Manager, edit the project permissions for the trusted project
- 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 60

Your team uses a service account to authenticate data transfers from a given Compute Engine virtual machine instance to a specified Cloud Storage bucket. An engineer accidentally deletes the service account, which breaks application functionality. You want to recover the application as quickly as possible without compromising security.

What should you do?

- A. Temporarily disable authentication on the Cloud Storage bucket.
- B. Use the undelete command to recover the deleted service account.
- C. Create a new service account with the same name as the deleted service account.
- D. Update the permissions of another existing service account and supply those credentials to the applications.

**Answer:** B

#### NEW QUESTION 64

A customer deploys an application to App Engine and needs to check for Open Web Application Security Project (OWASP) vulnerabilities.

Which service should be used to accomplish this?

- A. Cloud Armor
- B. Google Cloud Audit Logs
- C. Cloud Security Scanner
- D. Forti Security

**Answer:** C

#### NEW QUESTION 66

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 71

A customer implements Cloud Identity-Aware Proxy for their ERP system hosted on Compute Engine. Their security team wants to add a security layer so that the

ERP systems only accept traffic from Cloud Identity- Aware Proxy.  
What should the customer do to meet these requirements?

- A. Make sure that the ERP system can validate the JWT assertion in the HTTP requests.
- B. Make sure that the ERP system can validate the identity headers in the HTTP requests.
- C. Make sure that the ERP system can validate the x-forwarded-for headers in the HTTP requests.
- D. Make sure that the ERP system can validate the user's unique identifier headers in the HTTP requests.

**Answer:** A

#### NEW QUESTION 75

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