

# Exam Questions Professional-Cloud-Security-Engineer

Google Cloud Certified - Professional Cloud Security Engineer

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#### NEW QUESTION 1

In a shared security responsibility model for IaaS, which two layers of the stack does the customer share responsibility for? (Choose two.)

- A. Hardware
- B. Network Security
- C. Storage Encryption
- D. Access Policies
- E. Boot

**Answer:** CD

#### NEW QUESTION 2

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 3

A website design company recently migrated all customer sites to App Engine. Some sites are still in progress and should only be visible to customers and company employees from any location.

Which solution will restrict access to the in-progress sites?

- A. Upload an .htaccess file containing the customer and employee user accounts to App Engine.
- B. Create an App Engine firewall rule that allows access from the customer and employee networks and denies all other traffic.
- C. Enable Cloud Identity-Aware Proxy (IAP), and allow access to a Google Group that contains the customer and employee user accounts.
- D. Use Cloud VPN to create a VPN connection between the relevant on-premises networks and the company's GCP Virtual Private Cloud (VPC) network.

**Answer:** C

#### NEW QUESTION 4

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 5

A customer wants to move their sensitive workloads to a Compute Engine-based cluster using Managed Instance Groups (MIGs). The jobs are bursty and must be completed quickly. They have a requirement to be able to manage and rotate the encryption keys.

Which boot disk encryption solution should you use on the cluster to meet this customer's requirements?

- A. Customer-supplied encryption keys (CSEK)
- B. Customer-managed encryption keys (CMEK) using Cloud Key Management Service (KMS)
- C. Encryption by default
- D. Pre-encrypting files before transferring to Google Cloud Platform (GCP) for analysis

**Answer:** B

#### Explanation:

Reference <https://cloud.google.com/kubernetes-engine/docs/how-to/dynamic-provisioning-cmek>

#### NEW QUESTION 6

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 7

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 8

In order to meet PCI DSS requirements, a customer wants to ensure that all outbound traffic is authorized. Which two cloud offerings meet this requirement without additional compensating controls? (Choose two.)

- A. App Engine
- B. Cloud Functions
- C. Compute Engine
- D. Google Kubernetes Engine
- E. Cloud Storage

**Answer:** AC

#### NEW QUESTION 9

A customer terminates an engineer and needs to make sure the engineer's Google account is automatically deprovisioned. What should the customer do?

- A. Use the Cloud SDK with their directory service to remove their IAM permissions in Cloud Identity.
- B. Use the Cloud SDK with their directory service to provision and deprovision users from Cloud Identity.
- C. Configure Cloud Directory Sync with their directory service to provision and deprovision users from Cloud Identity.
- D. Configure Cloud Directory Sync with their directory service to remove their IAM permissions in Cloud Identity.

**Answer:** C

#### NEW QUESTION 10

A customer has 300 engineers. The company wants to grant different levels of access and efficiently manage IAM permissions between users in the development and production environment projects.

Which two steps should the company take to meet these requirements? (Choose two.)

- A. Create a project with multiple VPC networks for each environment.
- B. Create a folder for each development and production environment.
- C. Create a Google Group for the Engineering team, and assign permissions at the folder level.
- D. Create an Organizational Policy constraint for each folder environment.
- E. Create projects for each environment, and grant IAM rights to each engineering user.

**Answer:** BD

#### NEW QUESTION 10

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 13

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 14

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 20

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 24

Which two security characteristics are related to the use of VPC peering to connect two VPC networks? (Choose two.)

- A. Central management of routes, firewalls, and VPNs for peered networks
- B. Non-transitive peered networks; where only directly peered networks can communicate
- C. Ability to peer networks that belong to different Google Cloud Platform organizations
- D. Firewall rules that can be created with a tag from one peered network to another peered network
- E. Ability to share specific subnets across peered networks

**Answer:** AD

#### NEW QUESTION 29

A business unit at a multinational corporation signs up for GCP and starts moving workloads into GCP. The business unit creates a Cloud Identity domain with an organizational resource that has hundreds of projects.

Your team becomes aware of this and wants to take over managing permissions and auditing the domain resources.

Which type of access should your team grant to meet this requirement?

- A. Organization Administrator
- B. Security Reviewer
- C. Organization Role Administrator
- D. Organization Policy Administrator

**Answer:** C

#### NEW QUESTION 31

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 33

Your team needs to obtain a unified log view of all development cloud projects in your SIEM. The development projects are under the NONPROD organization folder with the test and pre-production projects. The development projects share the ABC-BILLING billing account with the rest of the organization. Which logging export strategy should you use to meet the requirements?

- A. 1. Export logs to a Cloud Pub/Sub topic with folders/NONPROD parent and includeChildren property set to True in a dedicated SIEM projec
- B. 2. Subscribe SIEM to the topic.
- C. 1. Create a Cloud Storage sink with billingAccounts/ABC-BILLING parent and includeChildren property set to False in a dedicated SIEM projec
- D. 2. Process Cloud Storage objects in SIEM.
- E. 1. Export logs in each dev project to a Cloud Pub/Sub topic in a dedicated SIEM projec
- F. 2. Subscribe SIEM to the topic.
- G. 1. Create a Cloud Storage sink with a publicly shared Cloud Storage bucket in each projec
- H. 2. Process Cloud Storage objects in SIEM.

**Answer:** B

#### NEW QUESTION 35

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 38

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 TimespanContfig to sample data and minimize transformation units.

**Answer:** C

#### NEW QUESTION 43

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 Entry
- 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 Entry
- 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 45

A company has redundant mail servers in different Google Cloud Platform regions and wants to route customers to the nearest mail server based on location. How should the company accomplish this?

- A. Configure TCP Proxy Load Balancing as a global load balancing service listening on port 995.
- B. Create a Network Load Balancer to listen on TCP port 995 with a forwarding rule to forward traffic based on location.
- C. Use Cross-Region Load Balancing with an HTTP(S) load balancer to route traffic to the nearest region.
- D. Use Cloud CDN to route the mail traffic to the closest origin mail server based on client IP address.

**Answer:** D

#### NEW QUESTION 48

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. Forseti Security

**Answer: C**

#### NEW QUESTION 52

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

**Answer: B**

#### NEW QUESTION 55

A company is backing up application logs to a Cloud Storage bucket shared with both analysts and the administrator. Analysts should only have access to logs that do not contain any personally identifiable information (PII). Log files containing PII should be stored in another bucket that is only accessible by the administrator. What should you do?

- A. Use Cloud Pub/Sub and Cloud Functions to trigger a Data Loss Prevention scan every time a file is uploaded to the shared bucket
- B. If the scan detects PII, have the function move into a Cloud Storage bucket only accessible by the administrator.
- C. Upload the logs to both the shared bucket and the bucket only accessible by the administrator
- D. Create a job trigger using the Cloud Data Loss Prevention API
- E. Configure the trigger to delete any files from the shared bucket that contain PII.
- F. On the bucket shared with both the analysts and the administrator, configure Object Lifecycle Management to delete objects that contain any PII.
- G. On the bucket shared with both the analysts and the administrator, configure a Cloud Storage Trigger that is only triggered when PII data is uploaded
- H. Use Cloud Functions to capture the trigger and delete such files.

**Answer: C**

#### NEW QUESTION 59

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 60

An organization's typical network and security review consists of analyzing application transit routes, request handling, and firewall rules. They want to enable their developer teams to deploy new applications without the overhead of this full review.

How should you advise this organization?

- A. Use Forseti with Firewall filters to catch any unwanted configurations in production.
- B. Mandate use of infrastructure as code and provide static analysis in the CI/CD pipelines to enforce policies.
- C. Route all VPC traffic through customer-managed routers to detect malicious patterns in production.
- D. All production applications will run on-premise
- E. Allow developers free rein in GCP as their dev and QA platforms.

**Answer: B**

#### NEW QUESTION 62

Your team wants to centrally manage GCP IAM permissions from their on-premises Active Directory Service. Your team wants to manage permissions by AD group membership.

What should your team do to meet these requirements?

- A. Set up Cloud Directory Sync to sync groups, and set IAM permissions on the groups.
- B. Set up SAML 2.0 Single Sign-On (SSO), and assign IAM permissions to the groups.
- C. Use the Cloud Identity and Access Management API to create groups and IAM permissions from Active Directory.
- D. Use the Admin SDK to create groups and assign IAM permissions from Active Directory.

**Answer: B**

#### NEW QUESTION 65

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 70**

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 current data backup and disaster recovery solutions to GCP for later analysis. The organization's production environment will remain on-premises for an indefinite time. The organization wants a scalable and cost-efficient solution. Which GCP solution should the organization use?

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

**Answer:** A

**NEW QUESTION 73**

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