



Google

Exam Questions Professional-Cloud-Security-Engineer

Google Cloud Certified - Professional Cloud Security Engineer

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NEW QUESTION 1

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 2

Your team needs to configure their Google Cloud Platform (GCP) environment so they can centralize the control over networking resources like firewall rules, subnets, and routes. They also have an on-premises environment where resources need access back to the GCP resources through a private VPN connection. The networking resources will need to be controlled by the network security team.

Which type of networking design should your team use to meet these requirements?

- A. Shared VPC Network with a host project and service projects
- B. Grant Compute Admin role to the networking team for each engineering project
- C. VPC peering between all engineering projects using a hub and spoke model
- D. Cloud VPN Gateway between all engineering projects using a hub and spoke model

Answer: A

NEW QUESTION 3

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 4

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 5

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 6

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 7

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 8

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 9

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 10

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 10

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 12

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 16

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 21

How should a customer reliably deliver Stackdriver logs from GCP to their on-premises SIEM system?

- A. Send all logs to the SIEM system via an existing protocol such as syslog.
- B. Configure every project to export all their logs to a common BigQuery DataSet, which will be queried by the SIEM system.
- C. Configure Organizational Log Sinks to export logs to a Cloud Pub/Sub Topic, which will be sent to the SIEM via Dataflow.
- D. Build a connector for the SIEM to query for all logs in real time from the GCP RESTful JSON APIs.

Answer: C

NEW QUESTION 22

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 24

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 29

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 30

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 33

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 35

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 38

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 39

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 41

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 44

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 46

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 50

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 54

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 57

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 61

A company migrated their entire data/center to Google Cloud Platform. It is running thousands of instances across multiple projects managed by different departments. You want to have a historical record of what was running in Google Cloud Platform at any point in time.

What should you do?

- A. Use Resource Manager on the organization level.
- B. Use Forseti Security to automate inventory snapshots.
- C. Use Stackdriver to create a dashboard across all projects.
- D. Use Security Command Center to view all assets across the organization.

Answer: C

NEW QUESTION 62

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 65

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 66

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