



Google

Exam Questions Professional-Cloud-Security-Engineer

Google Cloud Certified - Professional Cloud Security Engineer

NEW QUESTION 1

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 2

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 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

Your team sets up a Shared VPC Network where project co-vpc-prod is the host project. Your team has configured the firewall rules, subnets, and VPN gateway on the host project. They need to enable Engineering Group A to attach a Compute Engine instance to only the 10.1.1.0/24 subnet. What should your team grant to Engineering Group A to meet this requirement?

- A. Compute Network User Role at the host project level.
- B. Compute Network User Role at the subnet level.
- C. Compute Shared VPC Admin Role at the host project level.
- D. Compute Shared VPC Admin Role at the service project level.

Answer: C

NEW QUESTION 5

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 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

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 8

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 9

Your team wants to limit users with administrative privileges at the organization level. Which two roles should your team restrict? (Choose two.)

- A. Organization Administrator
- B. Super Admin
- C. GKE Cluster Admin
- D. Compute Admin
- E. Organization Role Viewer

Answer: AB

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 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 11

An employer wants to track how bonus compensations have changed over time to identify employee outliers and correct earning disparities. This task must be performed without exposing the sensitive compensation data for any individual and must be reversible to identify the outlier. Which Cloud Data Loss Prevention API technique should you use to accomplish this?

- A. Generalization
- B. Redaction
- C. CryptoHashConfig
- D. CryptoReplaceFfxFpeConfig

Answer: B

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 18

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 21

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 26

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 27

You are in charge of migrating a legacy application from your company datacenters to GCP before the current maintenance contract expires. You do not know what ports the application is using and no documentation is available for you to check. You want to complete the migration without putting your environment at risk. What should you do?

- A. Migrate the application into an isolated project using a "Lift & Shift" approac
- B. Enable all internal TCP traffic using VPC Firewall rule
- C. Use VPC Flow logs to determine what traffic should be allowed for theapplication to work properly.
- D. Migrate the application into an isolated project using a "Lift & Shift" approach in a custom network.Disable all traffic within the VPC and look at the Firewall logs to determine what traffic should be allowed for the application to work properly.
- E. Refactor the application into a micro-services architecture in a GKE cluste
- F. Disable all traffic from outside the cluster using Firewall Rule
- G. Use VPC Flow logs to determine what traffic should be allowed for the application to work properly.
- H. Refactor the application into a micro-services architecture hosted in Cloud Functions in an isolated project.Disable all traffic from outside your project using Firewall Rule
- I. Use VPC Flow logs to determine what traffic should be allowed for the application to work properly.

Answer: C

NEW QUESTION 32

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 36

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 41

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 45

Your team uses a service account to authenticate data transfers from a given Compute Engine virtual machine instance of 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 46

Your company operates an application instance group that is currently deployed behind a Google Cloud load balancer in us-central-1 and is configured to use the Standard Tier network. The infrastructure team wants to expand to a second Google Cloud region, us-east-2. You need to set up a single external IP address to distribute new requests to the instance groups in both regions. What should you do?

- A. Change the load balancer backend configuration to use network endpoint groups instead of instance groups.
- B. Change the load balancer frontend configuration to use the Premium Tier network, and add the new instance group.
- C. Create a new load balancer in us-east-2 using the Standard Tier network, and assign a static external IP address.
- D. Create a Cloud VPN connection between the two regions, and enable Google Private Access.

Answer: A

NEW QUESTION 48

A customer needs to launch a 3-tier internal web application on Google Cloud Platform (GCP). The customer's internal compliance requirements dictate that end-user access may only be allowed if the traffic seems to originate from a specific known good CIDR. The customer accepts the risk that their application will only have SYN flood DDoS protection. They want to use GCP's native SYN flood protection. Which product should be used to meet these requirements?

- A. Cloud Armor
- B. VPC Firewall Rules
- C. Cloud Identity and Access Management
- D. Cloud CDN

Answer: A

NEW QUESTION 53

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 55

A company allows every employee to use Google Cloud Platform. Each department has a Google Group, with all department members as group members. If a department member creates a new project, all members of that department should automatically have read-only access to all new project resources. Members of any other department should not have access to the project. You need to configure this behavior. What should you do to meet these requirements?

- A. Create a Folder per department under the Organizatio
- B. For each department's Folder, assign the Project Viewer role to the Google Group related to that department.
- C. Create a Folder per department under the Organizatio
- D. For each department's Folder, assign the Project Browser role to the Google Group related to that department.
- E. Create a Project per department under the Organizatio
- F. For each department's Project, assign the Project Viewer role to the Google Group related to that department.
- G. Create a Project per department under the Organizatio
- H. For each department's Project, assign the Project Browser role to the Google Group related to that department.

Answer: C

NEW QUESTION 60

What are the steps to encrypt data using envelope encryption?

- A. Generate a data encryption key (DEK) locally. Use a key encryption key (KEK) to wrap the DE
- B. Encrypt data with the KE
- C. Store the encrypted data and the wrapped KEK.
- D. Generate a key encryption key (KEK) locally. Use the KEK to generate a data encryption key (DEK). Encrypt data with the DE
- E. Store the encrypted data and the wrapped DEK.
- F. Generate a data encryption key (DEK) locally. Encrypt data with the DEK. Use a key encryption key (KEK) to wrap the DE
- G. Store the encrypted data and the wrapped DEK.
- H. Generate a key encryption key (KEK) locally. Generate a data encryption key (DEK) locall
- I. Encrypt data with the KE
- J. Store the encrypted data and the wrapped DEK.

Answer: C

NEW QUESTION 62

You want data on Compute Engine disks to be encrypted at rest with keys managed by Cloud Key Management Service (KMS). Cloud Identity and Access Management (IAM) permissions to these keys must be managed in a grouped way because the permissions should be the same for all keys. What should you do?

- A. Create a single KeyRing for all persistent disks and all Keys in this KeyRin
- B. Manage the IAM permissions at the Key level.
- C. Create a single KeyRing for all persistent disks and all Keys in this KeyRin
- D. Manage the IAM permissions at the KeyRing level.
- E. Create a KeyRing per persistent disk, with each KeyRing containing a single Ke
- F. Manage the IAM permissions at the Key level.
- G. Create a KeyRing per persistent disk, with each KeyRing containing a single Ke
- H. Manage the IAM permissions at the KeyRing level.

Answer: C

NEW QUESTION 65

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