

Professional Cloud Security Engineer.23q

Passing Score: 800 Time Limit: 120 min

Google Cloud Certified - Professional Cloud Security Engineer



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Exam A

QUESTION 1

A customer needs to launch a 3-tier internal web application on Google Cloud Platform (GCP). The customer's internal compliance requirements dictate that enduser 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.



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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

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

 $\textbf{Reference:}\ \underline{\text{https://cloud.google.com/blog/products/identity-security/understanding-google-cloud-armors-new-waf-capabilities}$

QUESTION 2

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.

Correct Answer: Section: (none) Explanation



Explanation/Reference:

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

DE

Reference: https://cloud.google.com/solutions/secure-data-workloads-use-cases

QUESTION 3

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. Enable notifications.
- B. Create an Alerting Policy in Stackdriver using the CPU usage metric. Set the threshold to 80% to be notified when the CPU usage goes above this 80%.
- C. Log every execution of the script to Stackdriver Logging. Create a User-defined metric in Stackdriver Logging on the logs, and create a Stackdriver Dashboard displaying the metric.
- D. Log every execution of the script to Stackdriver Logging. Configure BigQuery as a log sink, and create a BigQuery scheduled query to count the number of executions in a specific timeframe.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Reference: https://cloud.google.com/logging/docs/logs-based-metrics/

QUESTION 4

A customer's data science group wants to use Google Cloud Platform (GCP) for their analytics workloads. Company policy dictates that all data must be company-



owned and all user authentications must go through their own Security Assertion Markup Language (SAML) 2.0 Identity Provider (IdP). The Infrastructure Operations Systems Engineer was trying to set up Cloud Identity for the customer and realized that their domain was already being used by G Suite.

How should you best advise the Systems Engineer to proceed with the least disruption?

- A. Contact Google Support and initiate the Domain Contestation Process to use the domain name in your new Cloud Identity domain.
- B. Register a new domain name, and use that for the new Cloud Identity domain.
- C. Ask Google to provision the data science manager's account as a Super Administrator in the existing domain.
- D. Ask customer's management to discover any other uses of Google managed services, and work with the existing Super Administrator.



Correct Answer: Section: (none) **Explanation**



Explanation/Reference:

QUESTION 5

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?

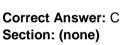
A. Organization Administrator

B. Security Reviewer

C. Organization Role Administrator

D. Organization Policy Administrator

Section: (none) **Explanation**





QUESTION 6

An application running on a Compute Engine instance needs to read data from a Cloud Storage bucket. Your team does not allow Cloud Storage buckets to be globally readable and wants to ensure the principle of least privilege.

Which option meets the requirement of your team?

A. Create a Cloud Storage ACL that allows read-only access from the Compute Engine instance's IP address and allows the application to read from the bucket without credentials.





- B. Use a service account with read-only access to the Cloud Storage bucket, and store the credentials to the service account in the config of the application on the Compute Engine instance.
- C. Use a service account with read-only access to the Cloud Storage bucket to retrieve the credentials from the instance metadata.
- D. Encrypt the data in the Cloud Storage bucket using Cloud KMS, and allow the application to decrypt the data with the KMS key.

C

QUESTION 7

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-premises. Allow developers free rein in GCP as their dev and QA platforms.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 8

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

Correct Answer: Section: (none) Explanation



Explanation/Reference:

C. CryptoHashConfig

D. CryptoReplaceFfxFpeConfig

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

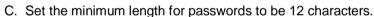
QUESTION 9

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.



D. Set the minimum length for passwords to be 6 characters.



Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 10

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 encryption key (KEK) in Cloud KMS to encrypt the DEK. Store both the encrypted data and the encrypted DEK.
- B. 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 DEK. Store both the encrypted data and the KEK.



- C. 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 key. Store both the encrypted data and the encrypted DEK.
- D. 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 key. Store both the encrypted data and the KEK.

Correct Answer: A Section: (none) Explanation





Explanation/Reference:

Reference: https://cloud.google.com/kms/docs/envelope-encryption

QUESTION 11

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.



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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

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations#centralize_network_control

QUESTION 12

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.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 13

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.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 14

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. Correct Answer: D

Section: (none) **Explanation**

Explanation/Reference:

QUESTION 15

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 service project level.

 D. Compute Shared VPC Admin Role at the service project level. C. Compute Shared VPC Admin Role at the host project level.

Correct Answer: C Section: (none) **Explanation**

Explanation/Reference:

Reference: https://cloud.google.com/vpc/docs/shared-vpc

QUESTION 16

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 onpremises 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



Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 17

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

Correct Answer: A Section: (none) Explanation



Explanation/Reference:

QUESTION 18

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

Correct Answer: B Section: (none) Explanation



Explanation/Reference:

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

QUESTION 19

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.

Correct Answer: BD Section: (none) Explanation

Explanation/Reference:



QUESTION 20

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

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Reference: https://cloud.google.com/solutions/pci-dss-compliance-in-gcp



QUESTION 21

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.

Correct Answer: B Section: (none) **Explanation**

Explanation/Reference:

QUESTION 22

QUESTION 22
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 Kerberos compliant 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.

Correct Answer: B Section: (none) **Explanation**

Explanation/Reference:

Reference: https://cloud.google.com/blog/products/identity-security/using-your-existing-identity-management-system-with-google-cloud-platform

QUESTION 23



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.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:



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