Google

Exam Questions Professional-Cloud-Security-Engineer

Google Cloud Certified - Professional Cloud Security Engineer

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
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 3
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 4
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 5
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 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
For compliance reasons, an organization needs to ensure that in-scope PCI Kubernetes Pods reside on "in- scope" Nodes only. These Nodes can only contain the "in-scope" Pods.
How should the organization achieve this objective?

A. Add a nodeSelector field to the pod configuration to only use the Nodes labeled inscope: true.
B. Create a node pool with the label inscope: true and a Pod Security Policy that only allows the Pods to run on Nodes with that label.
C. Place a taint on the Nodes with the label inscope: true and effect NoSchedule and a toleration to match in the Pod configuration.
D. Run all in-scope Pods in the namespace "in-scope-pci".

Answer: C

NEW QUESTION 8
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 9
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 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
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 11
A customer is running an analytics workload on Google Cloud Platform (GCP) where Compute Engine instances are accessing data stored on Cloud Storage. Your team wants to make sure that this workload will not be able to access, or be accessed from, the internet.
Which two strategies should your team use to meet these requirements? (Choose two.)

A. Configure Private Google Access on the Compute Engine subnet
B. Avoid assigning public IP addresses to the Compute Engine cluster.
C. Make sure that the Compute Engine cluster is running on a separate subnet.
D. Turn off IP forwarding on the Compute Engine instances in the cluster.
E. Configure a Cloud NAT gateway.

Answer: BE

NEW QUESTION 13
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 14
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 17
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 18
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 19
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 20
A customer wants to run a batch processing system on VMs and store the output files in a Cloud Storage bucket. The networking and security teams have decided that no VMs may reach the public internet.
How should this be accomplished?

A. Create a firewall rule to block internet traffic from the VM.
B. Provision a NAT Gateway to access the Cloud Storage API endpoint.
C. Enable Private Google Access on the VPC.
D. Mount a Cloud Storage bucket as a local filesystem on every VM.

Answer: B

NEW QUESTION 21
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.

Answer: C

NEW QUESTION 23
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 24
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 27
Your team wants to make sure Compute Engine instances running in your production project do not have public IP addresses. The frontend application Compute Engine instances will require public IPs. The product engineers have the Editor role to modify resources. Your team wants to enforce this requirement.
How should your team meet these requirements?

A. Enable Private Access on the VPC network in the production project.
B. Remove the Editor role and grant the Compute Admin IAM role to the engineers.
C. Set up an organization policy to only permit public IPs for the front-end Compute Engine instances.
D. Set up a VPC network with two subnets: one with public IPs and one without public IPs.

Answer: C

NEW QUESTION 29
You are the security admin of your company. Your development team creates multiple GCP projects under the "implementation" folder for several dev, staging, and production workloads. You want to prevent data exfiltration by malicious insiders or compromised code by setting up a security perimeter. However, you do not want to restrict communication between the projects.
What should you do?

A. Use a Shared VPC to enable communication between all projects, and use firewall rules to prevent data exfiltration.
B. Create access levels in Access Context Manager to prevent data exfiltration, and use a shared VPC for communication between projects.
C. Use an infrastructure-as-code software tool to set up a single service perimeter and to deploy a Cloud Function that monitors the "implementation" folder via Stackdriver and Cloud Pub/Su
D. When the function notices that a new project is added to the folder, it executes Terraform to add the new project to the associated perimeter.
E. Use an infrastructure-as-code software tool to set up three different service perimeters for dev, staging, and prod and to deploy a Cloud Function that monitors the "implementation" folder via Stackdriver and Cloud Pub/Su
F. When the function notices that a new project is added to the folder, it executes Terraform to add the new project to the respective perimeter.

Answer: B

NEW QUESTION 34
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 39
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 42
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 bucke
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 administrato
D. Create a job trigger using the Cloud Data Loss Prevention AP
E. Configure the trigger to delete any files from theshared 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 uploade
H. Use Cloud Functions to capture the trigger and delete such files.

Answer: C

NEW QUESTION 46
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 47
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 49
A customer deployed an application on Compute Engine that takes advantage of the elastic nature of cloud computing.
How can you work with Infrastructure Operations Engineers to best ensure that Windows Compute Engine VMs are up to date with all the latest OS patches?

A. Build new base images when patches are available, and use a CI/CD pipeline to rebuild VMs, deploying incrementally.
B. Federate a Domain Controller into Compute Engine, and roll out weekly patches via Group Policy Object.
C. Use Deployment Manager to provision updated VMs into new serving Instance Groups (IGs).
D. Reboot all VMs during the weekly maintenance window and allow the StartUp Script to download the latest patches from the internet.

Answer: D

NEW QUESTION 50
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 54
You have an application where the frontend is deployed on a managed instance group in subnet A and the data layer is stored on a mysql Compute Engine virtual

machine (VM) in subnet B on the same VPC. Subnet A and Subnet B hold several other Compute Engine VMs. You only want to allow thee application frontend to access the data in the application's mysql instance on port 3306.
What should you do?

A. Configure an ingress firewall rule that allows communication from the src IP range of subnet A to the tag "data-tag" that is applied to the mysql Compute Engine VM on port 3306.
B. Configure an ingress firewall rule that allows communication from the frontend's unique service account to the unique service account of the mysql Compute Engine VM on port 3306.
C. Configure a network tag "fe-tag" to be applied to all instances in subnet A and a network tag "data-tag" to be applied to all instances in subnet
D. Then configure an egress firewall rule that allows communication from Compute Engine VMs tagged with data-tag to destination Compute Engine VMs tagged fe-tag.
E. Configure a network tag "fe-tag" to be applied to all instances in subnet A and a network tag "data-tag" to be applied to all instances in subnet
F. Then configure an ingress firewall rule that allows communication from Compute Engine VMs tagged with fe-tag to destination Compute Engine VMs tagged with data-tag.

Answer: B

NEW QUESTION 57
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 61
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 63
A manager wants to start retaining security event logs for 2 years while minimizing costs. You write a filter to select the appropriate log entries.
Where should you export the logs?

A. BigQuery datasets
B. Cloud Storage buckets
C. StackDriver logging
D. Cloud Pub/Sub topics

Answer: C

NEW QUESTION 65
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.

Answer: C

NEW QUESTION 69
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 72
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 76
Your team needs to prevent users from creating projects in the organization. Only the DevOps team should be allowed to create projects on behalf of the requester.
Which two tasks should your team perform to handle this request? (Choose two.)

A. Remove all users from the Project Creator role at the organizational level.
B. Create an Organization Policy constraint, and apply it at the organizational level.
C. Grant the Project Editor role at the organizational level to a designated group of users.
D. Add a designated group of users to the Project Creator role at the organizational level.
E. Grant the billing account creator role to the designated DevOps team.

Answer: BD

NEW QUESTION 79
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 84
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