Professional-Cloud-Security-Engineer Dumps

Google Cloud Certified - Professional Cloud Security Engineer

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NEW QUESTION 1
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

Answer: C

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
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.

Answer: A

NEW QUESTION 4
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 5
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 6
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 7
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 8
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 9
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 10
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 10
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 13
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 17
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 19
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 21
A large e-retailer is moving to Google Cloud Platform with its ecommerce website. The company wants to ensure payment information is encrypted between the customer's browser and GCP when the customers checkout online.
What should they do?

A. Configure an SSL Certificate on an L7 Load Balancer and require encryption.
B. Configure an SSL Certificate on a Network TCP Load Balancer and require encryption.
C. Configure the firewall to allow inbound traffic on port 443, and block all other inbound traffic.
D. Configure the firewall to allow outbound traffic on port 443, and block all other outbound traffic.

Answer: A

NEW QUESTION 23
Your team needs to make sure that their backend database can only be accessed by the frontend application and no other instances on the network.
How should your team design this network?

A. Create an ingress firewall rule to allow access only from the application to the database using firewall tags.
B. Create a different subnet for the frontend application and database to ensure network isolation.
C. Create two VPC networks, and connect the two networks using Cloud VPN gateways to ensure network isolation.
D. Create two VPC networks, and connect the two networks using VPC peering to ensure network isolation.

Answer: A

NEW QUESTION 25
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 30
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 34
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 39
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 44
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 46
A company's application is deployed with a user-managed Service Account key. You want to use Google- recommended practices to rotate the key.
What should you do?

A. Open Cloud Shell and run gcloud iam service-accounts enable-auto-rotate --iam- account=IAM_ACCOUNT.
B. Open Cloud Shell and run gcloud iam service-accounts keys rotate --iam- account=IAM_ACCOUNT--key=NEW_KEY.
C. Create a new key, and use the new key in the applicatio
D. Delete the old key from the Service Account.
E. Create a new key, and use the new key in the applicatio
F. Store the old key on the system as a backup key.

Answer: C

NEW QUESTION 48
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 50
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 52
You want to limit the images that can be used as the source for boot disks. These images will be stored in a dedicated project.
What should you do?

A. Use the Organization Policy Service to create a compute.trustedimageProjects constraint on the organization leve
B. List the trusted project as the whitelist in an allow operation.
C. Use the Organization Policy Service to create a compute.trustedimageProjects constraint on the organization leve
D. List the trusted projects as the exceptions in a deny operation.
E. In Resource Manager, edit the project permissions for the trusted projec
F. Add the organization as member with the role: Compute Image User.
G. In Resource Manager, edit the organization permission
H. Add the project ID as member with the role: Compute Image User.

Answer: B

NEW QUESTION 54
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 57
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 58
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 60
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 63
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 enforcepolicies.
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 65
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 66
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 71
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 75
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 80
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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