



# PROFESSIONAL-CLOUD-SECURITY-ENGINEER<sup>Q&As</sup>

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### QUESTION 1

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

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

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### QUESTION 2

You need to use Cloud External Key Manager to create an encryption key to encrypt specific BigQuery data at rest in Google Cloud. Which steps should you do first?

- A. 1. Create or use an existing key with a unique uniform resource identifier (URI) in your Google Cloud project.  
2. Grant your Google Cloud project access to a supported external key management partner system.
- B. 1. Create or use an existing key with a unique uniform resource identifier (URI) in Cloud Key Management Service (Cloud KMS).  
2. In Cloud KMS, grant your Google Cloud project access to use the key.
- C. 1. Create or use an existing key with a unique uniform resource identifier (URI) in a supported external key management partner system.  
2. In the external key management partner system, grant access for this key to use your Google Cloud project.
- D. 1. Create an external key with a unique uniform resource identifier (URI) in Cloud Key Management Service (Cloud KMS).  
2. In Cloud KMS, grant your Google Cloud project access to use the key.

Correct Answer: C

[https://cloud.google.com/kms/docs/ekm#how\\_it\\_works](https://cloud.google.com/kms/docs/ekm#how_it_works)

-First, you create or use an existing key in a supported external key management partner system. This key has a unique URI or key path.

-Next, you grant your Google Cloud project access to use the key, in the external key management partner system.



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-In your Google Cloud project, you create a Cloud EKM key, using the URI or key path for the externally- managed key.

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### QUESTION 3

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 Cloud Storage bucket, and configure the bucket's Object Lifecycle Management feature.
- D. Store the data in a single BigTable table and set an expiration time on the column families.

Correct Answer: C

"To support common use cases like setting a Time to Live (TTL) for objects, retaining noncurrent versions of objects, or "downgrading" storage classes of objects to help manage costs, Cloud Storage offers the Object Lifecycle Management feature. This page describes the feature as well as the options available when using it. To learn how to enable Object Lifecycle Management, and for examples of lifecycle policies, see Managing Lifecycles."

<https://cloud.google.com/storage/docs/lifecycle>

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### QUESTION 4

You need to create a VPC that enables your security team to control network resources such as firewall rules. How should you configure the network to allow for separation of duties for network resources?

- A. Set up multiple VPC networks, and set up multi-NIC virtual appliances to connect the networks.
- B. Set up VPC Network Peering, and allow developers to peer their network with a Shared VPC.
- C. Set up a VPC in a project. Assign the Compute Network Admin role to the security team, and assign the Compute Admin role to the developers.
- D. Set up a Shared VPC where the security team manages the firewall rules, and share the network with developers via service projects.

Correct Answer: D

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### QUESTION 5

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

Correct Answer: A

<https://cloud.google.com/blog/products/g-suite/7-ways-admins-can-help-secure-accounts-against-phishing-g-suite>

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