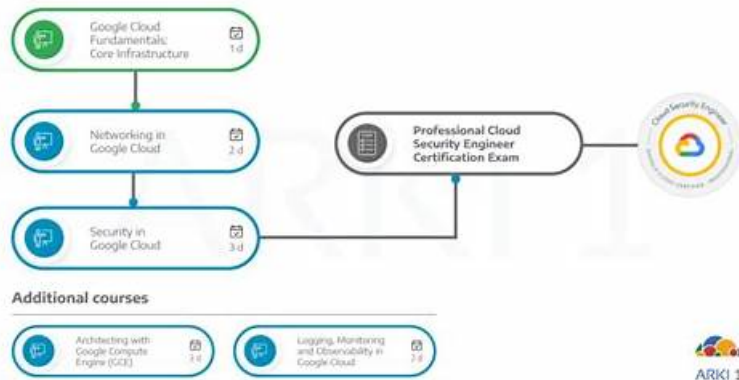


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最新的 Google Cloud Certified Professional-Cloud-Security-Engineer 免費考試真題 (Q13-Q18):

問題 #13

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. Generate an encryption key in the Google Cloud Platform Console, and upload an object to Cloud Storage using the specified key.
- B. Encrypt the object, then use the gsutil command line tool or the Google Cloud Platform Console to upload the object to Cloud Storage.
- C. Upload the encryption key to a Cloud Storage bucket, and then upload the object to the same bucket.
- D. Use the gsutil command line tool to upload the object to Cloud Storage, and specify the location of the encryption key.

答案: D

解題說明:

<https://cloud.google.com/storage/docs/encryption/customer-supplied-keys#gsutil>

問題 #14

Your company plans to move most of its IT infrastructure to Google Cloud. They want to leverage their existing on-premises Active Directory as an identity provider for Google Cloud. Which two steps should you take to integrate the company's on-premises Active Directory with Google Cloud and configure access management? (Choose two.)

- A. Use Cloud Identity SAML integration to provision users and groups to Google Cloud.
- **B. Create Identity and Access Management (IAM) groups with permissions corresponding to each Active Directory group.**
- **C. Install Google Cloud Directory Sync and connect it to Active Directory and Cloud Identity.**
- D. Use Identity Platform to provision users and groups to Google Cloud.
- E. Create Identity and Access Management (IAM) roles with permissions corresponding to each Active Directory group.

答案: B,C

解題說明:

Explanation

<https://cloud.google.com/architecture/identity/federating-gcp-with-active-directory-synchronizing-user-accounts?>

<https://cloud.google.com/architecture/identity/federating-gcp-with-active-directory-synchronizing-user-accounts?>

問題 #15

Your company's storage team manages all product images within a specific Google Cloud project. To maintain control, you must isolate access to Cloud Storage for this project, allowing the storage team to manage restrictions at the project level. They must be restricted to using corporate computers. What should you do?

- A. Implement VPC Service Controls by establishing an organization-wide service perimeter with all projects. Configure ingress and egress rules to restrict access to Cloud Storage based on IP address ranges.
- B. Employ organization-level firewall rules to block all traffic to Cloud Storage. Create exceptions for specific service accounts used by the storage team within their project.
- **C. Use Context-Aware Access. Create an access level that defines the required context. Apply it as an organization policy specifically at the project level, restricting access to Cloud Storage based on that context.**
- D. Use Identity and Access Management (IAM) roles at the project level within the storage team's project. Grant the storage team granular permissions on the project's Cloud Storage resources.

答案: C

解題說明:

The key requirement is restricting access based on the client device (i.e., "corporate computers"). Context-Aware Access (CAA) is the specific Google Cloud tool designed to enforce access based on contextual factors, including the device security status or IP address.

Context Restriction: Context-Aware Access allows you to define an Access Level based on attributes like device policy compliance, operating system, or IP address range-this addresses the "corporate computers" requirement.

Isolation and Control: The Access Level is then enforced via an Organization Policy applied at the Project Level (or the folder/organization level), which fulfills the requirement to isolate access to Cloud Storage for this project and restrict the access to specific resources (Cloud Storage).

VPC Service Controls (VPC SC) (Option B) are great for isolating projects and preventing data exfiltration, but its primary access restriction mechanisms are based on IP range, not fine-grained device security posture and user identity together, making CAA the more precise tool for device-specific enforcement. Also, applying VPC SC ingress/egress based on IP addresses for end-user access can be complex and less flexible than CAA.

IAM (Option D) only controls who (identity) can access a resource, not where or how (context) they are accessing it from.

Extracts:

"Context-Aware Access (CAA) integrates with Google Workspace or Cloud Identity to enforce granular access to Google Cloud resources based on a user's context, such as their location, device security status, and IP address." (Source 7.1)

"To enforce CAA for Google Cloud resources like Cloud Storage, you create an Access Level that defines the required context (e.g., only corporate-managed devices) and apply it via an Organization Policy constraint (e.g., iam.allowedServices) at the project level." (Source 7.2)

"CAA allows you to restrict access based on the device security posture, a key requirement for enforcing 'corporate computer' access." (Source 7.3)

問題 #16

Your organization has implemented synchronization and SAML federation between Cloud Identity and Microsoft Active Directory. You want to reduce the risk of Google Cloud user accounts being compromised. What should you do?

- A. Create an Active Directory domain password policy with strong password settings, and configure post-SSO (single sign-on) 2-Step Verification with verification codes via text or phone call in the Google Admin console.
- B. Create a Cloud Identity password policy with strong password settings, and configure 2-Step Verification with verification codes via text or phone call in the Google Admin console.
- C. Create a Cloud Identity password policy with strong password settings, and configure 2-Step Verification with security keys in the Google Admin console.
- **D. Create an Active Directory domain password policy with strong password settings, and configure post-SSO (single sign-on) 2-Step Verification with security keys in the Google Admin console.**

答案： D

問題 #17

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. Pre-encrypting files before transferring to Google Cloud Platform (GCP) for analysis
- **C. Customer-managed encryption keys (CMEK) using Cloud Key Management Service (KMS)**
- D. Encryption by default

答案： C

解題說明：

Explanation

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

問題 #18

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