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Professional Cloud Security Engineer

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QUESTION 1

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

<https://cloud.google.com/architecture/identity/federating-gcp-with-active-directory-configuring-single-sign-on>
<https://cloud.google.com/blog/products/identity-security/using-your-existing-identity-management-system-with-google-cloud-platform>

QUESTION 2

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.

Correct Answer: A

Compute Engine doesn't automatically update the OS or the software on your deployed instances. You will need to patch or update your deployed Compute Engine instances when necessary. However, in the cloud it is not recommended that you patch or update individual running instances. Instead it is best to patch the image that was used to launch the instance and then replace each affected instance with a new copy.

QUESTION 3

Your organization's customers must scan and upload the contract and their driver license into a web portal in Cloud Storage. You must remove all personally identifiable information (PII) from files that are older than 12 months. Also you must archive the anonymized files for retention purposes.

What should you do?

- A. Set a time to live (TTL) of 12 months for the files in the Cloud Storage bucket that removes PH and moves the files to the archive storage class.
- B. Create a Cloud Data Loss Prevention (DLP) inspection job that de-identifies PII in files created more than 12 months ago and archives them to another Cloud Storage bucket. Delete the original files.
- C. Schedule a Cloud Key Management Service (KMS) rotation period of 12 months for the encryption keys of the Cloud Storage files containing PII to de-identify them Delete the original keys.
- D. Configure the Autoclass feature of the Cloud Storage bucket to de-identify PII Archive the files that are older than 12 months Delete the original files.

Correct Answer: B

QUESTION 4

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

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

Reference: <https://cloud.google.com/blog/products/identity-security/understanding-google-cloud-armors-new-waf-capabilities>

QUESTION 5

Your company must follow industry specific regulations. Therefore, you need to enforce customer-managed encryption keys (CMEK) for all new Cloud Storage resources in the organization called org1. What command should you execute?

- A. `organization poli-cy:constraints/gcp.restrictStorageNonCmekServices binding at: org1 policy type: allow policy value: all supported services`
- B. `organization policy: con-straints/gcp.restrictNonCmekServices binding at: org1 policy type: deny policy value: storage.googleapis.com`

C. organization policy: con-straints/gcp.restrictStorageNonCmekServices binding at: org1 policy type: deny policy value: storage.googleapis.com

D. organization policy: con-straints/gcp.restrictNonCmekServices binding at: org1 policy type: allow policy value: storage.googleapis.com

Correct Answer: B

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