

Quiz: Glacier

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1. You have an application for archiving images and videos related to sport events. Game is divided in to 5-minute intervals for storage and a single Archive file contains all images and videos for that 5-minute window. Archive is stored in Glacier for long term storage. Occasionally, you get requests for specific images in an archive.

What is the cost-effective way to retrieve this information?

- A. Retrieve entire archive and extract requested images
 - B. Retrieve only the requested image from Glacier using Range Retrieval capability
 - C. Use Expedited Retrieval
 - D. Use Standard Retrieval
2. How does Glacier store your data?
 - A. Data is encrypted using Server Side Encryption and stored in Glacier
 - B. Data is stored un-encrypted
 - C. Data is stored encrypted; however, you would need to specify keys for encryption when storing archives in Glacier
 - D. Encryption is not supported. You would need to encrypt data outside of Glacier
 3. Your legal department has asked your team to ensure that project documents are not deleted or tampered with. They have further asked for a 5 year retention window. Your team is currently using Glacier for storing the project documents. What option would you pick to enforce this policy?
 - A. Implement IAM Access Policy to remove delete access or modify access
 - B. Use Vault Lock to implement write once, read many type policies
 - C. Either IAM based control or Vault Lock can be used
 - D. Enforce controls like these at application level
 4. What is lowest cost retrieval option from Glacier?
 - A. Standard
 - B. Expedited
 - C. Provisioned
 - D. Bulk
 5. Your team is using Glacier Archive as a low cost backup and archiving solution. Occasionally, you get requests for retrieving files (typically less than 100 MB) and they need to be retrieved in under 30 minutes. What retrieval option can you?
 - A. Standard
 - B. Expedited
 - C. Bulk
 6. Your team wants is using Glacier for low cost storage. Frequently, you get requests for retrieving a small portion of archive (few 10s of MBs). These requests need to be met in under 30 minutes.

What retrieval option can you use?

 - A. Standard
 - B. Expedited
 - C. Bulk
 - D. Expedited with Provisioned Capacity

Answers:

1. B - Range Retrieval allows you to retrieve only specified byte ranges. You pay only for the actual data retrieved
2. A - Glacier automatically encrypts using AES 256. It handles the key management for you
3. B - Vault Lock allows you to set immutable policies and provides a strong enforcement for compliance controls. IAM Access policy dictates who has access to vaults; but on its own is not enough for compliance related controls as it can be changed
4. D - Bulk retrieval is lowest cost option to retrieve data from Glacier and can used to cost-effectively retrieve large amounts of data.
5. B – Expedited option allows to retrieve glacier storage more quickly at additional cost
6. D - Expedited retrieval would meet the requirement. However, expedited retrieval request is accepted by Glacier only if there is capacity available. If capacity is not available, Glacier will reject the request. To guarantee expedited retrieval availability, you can purchase provisioned capacity