AWS Glacier

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What is AWS Glacier

- Amazon Glacier is an extremely low-cost storage service that provides durable storage with security features for data archiving and backup.
- With Amazon Glacier, customers can store their data cost effectively for months, years, or even decades.
- □ You can upload a single file as an archive or aggregate multiple files into a TAR or ZIP file and upload as one archive.
- A single archive can be as large as 40 terabytes.
- Amazon Glacier is a REST- based web service.

AWS Glacier: Features

Low Cost

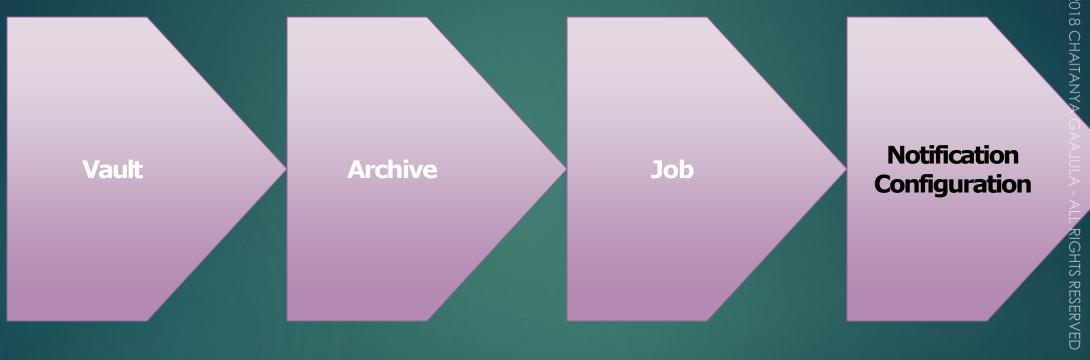
Secure

Durable

Simple

Flexible

Integrated



AWS Glacier: Vault

- □ Vault is a container for storing archives.
- Within a region, an account must use unique vault names.
- An AWS account can create same-named vaults in different regions
- Each vault resource has a unique address. The general form is:
- https://<region-specific endpoint>/<account-id>/vaults/<vaultname>
- Example, create a vault (examplevault) in the US West region.
- https://glacier.us-west-2.amazonaws.com/111122223333/vaults/examplevault
 - glacier.us-west-2.amazonaws.com identifies the region.
 - 111122223333 is the AWS account ID that owns the vault.
 - vaults refers to the collection of vaults owned by the AWS account.
 - examplevault identifies a specific vault in the vaults collection.



AWS Glacier: Archive

- Archive can be any data such as a photo, video, or document
- Archive is a base unit of storage in Amazon Glacier.
- Each archive has a unique ID.
- You can store an unlimited number of archives in a vault.
- Amazon Glacier assigns the archive an ID, which is unique in the AWS region in which it is stored.
- https://<region-specific endpoint>/<account-id>/vaults/
- < <vault-name>/archives/<archive-id>
- You cannot update an existing archive.



Expedited

Allow you to quickly access your data Data are typically made available within 1–5 minutes.

Types

- ✓ On-Demand
- ✓ Provisioned

Standard

AWS Glacier: Archive RetrievalOptions

Allow you to access your data within several hours

(Approx. 3-5 hours)

This is default option

Bulk

Lowest-cost retrieval option.
Retrieve large amounts, of data inexpensively in a day.
Bulk retrievals complete within 5–12 hours.

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AWS Glacier: Retrieval Policies

Free Tier

Max Retrieval Rate

No Retrieval Limit

With AWS Glacier, your data retrieval requests are queued and most jobs take about four hours to complete.

A vault can have multiple jobs in progress at any point in time.

 \square When you send a job request (initiate a job), AWS Glacier returns to you a job ID to track the job.

□ For each job, AWS Glacier maintains information such as job type, description, creation date, completion date, date, and job status.

You can obtain information about a specific job or obtain a list of all your jobs associated with a vault.

- Each job is uniquely identified in the form:
- https://<region-specific endpoint>/<account-id>/vaults/<vault-name>/jobs/<job-id>

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AWS Glacier: Notification Configuration

- Because jobs take time to complete, AWS Glacier supports a notification mechanism to notify you when a job is complete.
- □ You can configure a vault to send notification to an Amazon Simple Notification Service (Amazon SNS) topic when jobscomplete.

AWS Glacier: Retrieval Options

- Glacier Pricing
 - \$0.004 per GB / month
- Retrieval Pricing

| Description | Expedited | Standard | Bulk |
|--------------------|---|----------------------------|-------------------------------|
| Data Access Time | 1 - 5 minutes | 3 - 5 hours | 5 - 12 hours |
| Data Retrievals | \$0.03 per GB | \$0.01 per GB | \$0.0025 per GB |
| Retrieval Requests | On-Demand: \$0.01 per request Provisioned: \$100 per Provisioned Capacity Unit | \$0.050 per 1,000 requests | \$0.025 per 1,000 requests |

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Create Vault

AWS Glacier: Operation

Delete Vault

Retrieving Vault Metadata

Downloading a Vault Inventory

Uploading an Archive

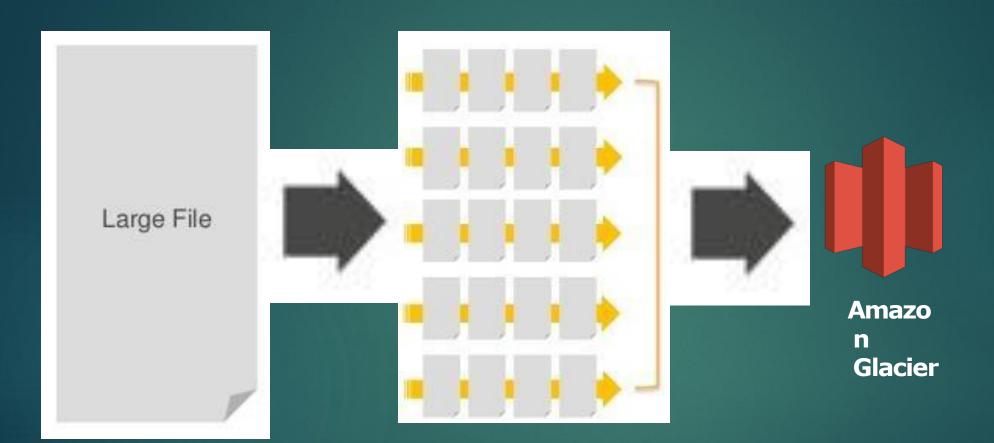
Downloading an Archive

Deleting an Archive

Updating an Archive

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AWS Glacier: Multipart Upload





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| Description | Limitation |
|--|------------|
| You can create up to 1,000 vaults per region | 1000 |

AWS Glacier: Limitations

THANK YOU