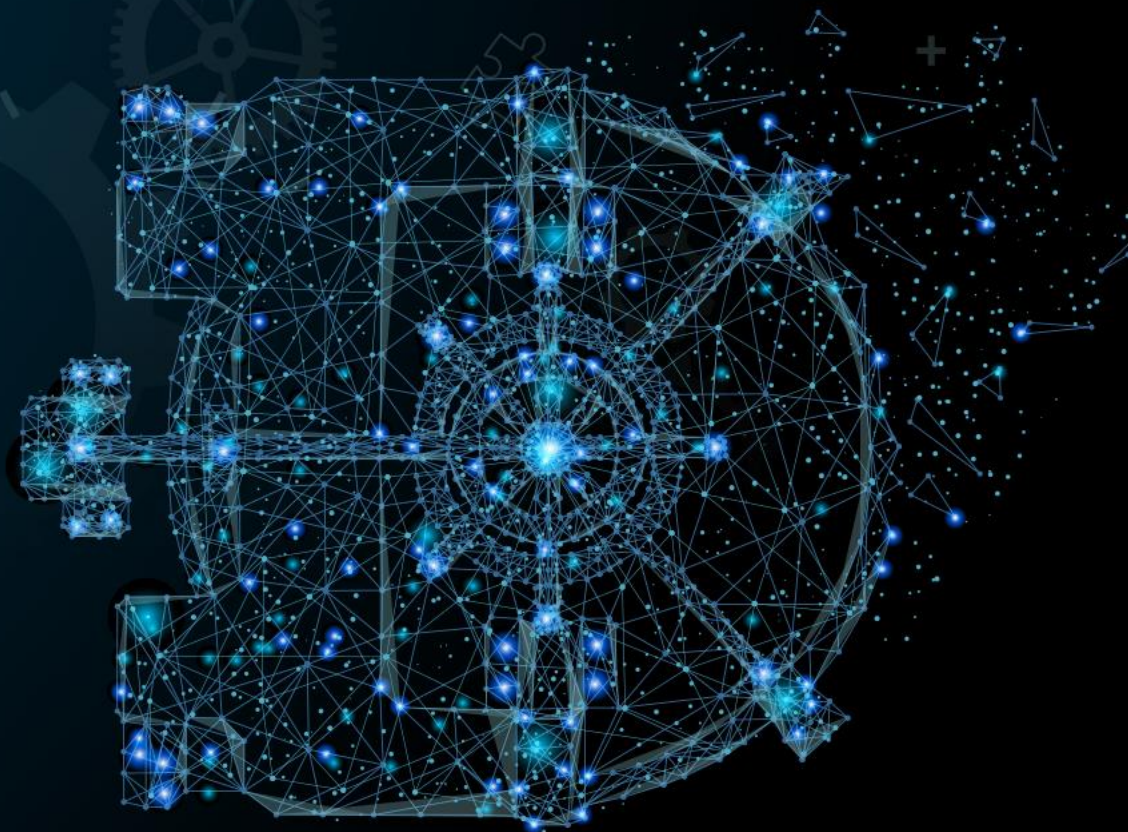AWS How-To-Guide

How to delete an Amazon S3 Glacier Vault?

Amazon S3
Glacier

Amazon S3 Glacier Vaults

Amazon Glacier offers secure, durable, and extremely low-cost cloud storage classes for data archiving and long-term backup.

- Data is stored in Amazon S3 Glacier in "archives." - Upload a single file as an archive or aggregate multiple files in tar/zip format

- Single archive can be up to 40TB

- Archive is immutable, meaning that after an archive is created it cannot be updated

- Amazon S3 Glacier uses "vaults" as containers to store archives

- Under a single AWS account, you can have up to 1000 vaults

- Vault Lock allows you to enforce compliance controls

Amazon S3 Glacier

Vault   Archive

Amazon S3 Glacier Vaults

How to delete old vaults you no longer need if they contain archives?

- S3 Glacier vaults can be deleted via the console or CLI. However, this is only possible the vault is empty. If you need to delete a nonempty vault you must first delete all existing archives before deleting the vault

- S3 Glacier Archives can only be deleted by writing code or via the Command Line Interface (CLI)

Commands to perform the delete operation are provided in the description below.

Amazon S3 Glacier

Vault   Archive

How to delete old vaults you no longer need if they contain archives?

- **Step 1**
  - Run an inventory job on your AWS Glacier Vault.

    aws glacier initiate-job --vault-name *awsexamplevault* --account-id *111122223333* --job-parameters '{"Type": "inventory-retrieval"}'

    Important Note – if you are running the command on a Microsoft Windows machine using the command prompt, then use this command:

    aws glacier initiate-job --account-id *111122223333* --vault-name *awsexamplevault* --job-parameters "{\"Type\": \"inventory-retrieval\"}"

Amazon S3 Glacier Vaults

How to delete old vaults you no longer need if they contain archives?

- **Step 2**
  - Use the describe-job command to check status of the previous retrieval job

    aws glacier describe-job --vault-name *awsexamplevault* --account-id *111122223333* --job-id *** *jobid* ***

Amazon S3 Glacier Vaults

How to delete old vaults you no longer need if they contain archives?

- **Step 3**
  - Use the get-job-output command to download the retrieval job to the file output.json.

    aws glacier get-job-output --vault-name *awsexamplevault* --account-id *111122223333* --job-id *** *jobid* *** output.json

Amazon S3 Glacier Vaults

How to delete old vaults you no longer need if they contain archives?

- **Step 4**
  - Extract the Archive IDs from the output.json file using *jq*

    jq '.ArchiveList[] | .ArchiveId' output.json > archiveIds.txt

    jq ".ArchiveList[] | .ArchiveId" output.json > archiveIds.txt – Windows Machines CMD

Amazon S3 Glacier Vaults

How to delete old vaults you no longer need if they contain archives?

- **Step 5**
  - Delete archives by referencing the archive ID in the archiveids.txt file

    aws glacier delete-archive --vault-name *awsexamplevault* --account-id *111122223333* --archive-id *** *archiveid* ***

Amazon S3 Glacier Vaults

How to delete old vaults you no longer need if they contain archives?

- **Step 6**
  - Create a script to delete all the archives from the command prompt

```
1  @echo off
2  setlocal enabledelayedexpansion
3
4  set "vault=panamericaglacier"
5  set "file=archiveIds.txt"
6  set /a count=1
7
8  echo !vault! !file! !count!
9  if exist !file! (
10     for /F "tokens=*" %%A in (!file!) do (
11         set line=%%A
12         echo Deleting Archive !line!
13         echo Count: !count!
14         aws glacier delete-archive --account-id 903452794896 --vault-name !vault! --archive-id=!line! --profile kevin
15         set /a count+=1
16         echo %%A
17     )
18 ) else (
19     echo file does not exists
20 )
21
22 :end
23 endlocal
```

Amazon S3 Glacier Vaults

Completion of the Batch Program
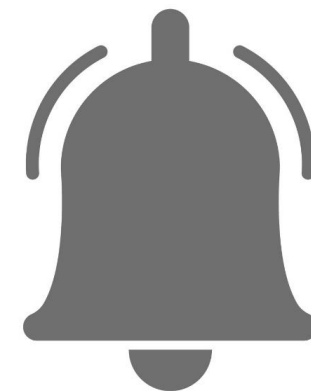
Amazon S3 Glacier
Vaults

Thank You...
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