

# AWS S3-Glacier migration and backup strategies and 3rd party tools

- 3rd Party tools that may help with the migration from Box to S3-Glacier
- AWS information about AWS S3 Glacier storage classes and approximate costs :
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- Lifecycle Management :
  - Lifecycle Management Tools : (video)
- Approximate costs
  - S3 Intelligent - Tiering\* - Optional asynchronous Archive Access tiers
- Scanning Glacier storage.. ( How To ) <https://docs.aws.amazon.com/AmazonS3/latest/userguide/querying-glacier-archives.html>

## 3<sup>rd</sup> Party tools that may help with the migration from Box to S3-Glacier

1. Migration tool
  - a. CloudHQ  
<https://support.cloudhq.net/how-to-backup-all-box-enterprise-business-accounts-to-amazon-s3-glacier/>
2. Best tools for AWS Glacier:: from article ( <https://www.cloudwards.net/best-backup-tools-amazon-glacier/> )
  - a. CloudBerry ( <https://www.msp360.com/> )
  - b. Duplicati ( [www.duplicati.com](http://www.duplicati.com) )

## AWS information about AWS S3 Glacier storage classes and approximate costs :

<https://aws.amazon.com/s3/storage-classes/?nc=sn&loc=3>

### S3 Glacier Storage Classes

#### Instant Retrieval

[https://aws.amazon.com/s3/storage-classes/?nc=sn&loc=3#Instant\\_Retrieval](https://aws.amazon.com/s3/storage-classes/?nc=sn&loc=3#Instant_Retrieval)

Key Features:

- Data retrieval in milliseconds with the same performance as S3 Standard
- Designed for durability of 99.999999999% of objects across multiple Availability Zones
- Data is resilient in the event of the destruction of one entire Availability Zone
- Designed for 99.9% data availability in a given year
- 128 KB minimum object size
- Backed with the Amazon S3 Service Level Agreement for availability
- S3 PUT API for direct uploads to S3 Glacier Instant Retrieval, and S3 Lifecycle management for automatic migration of objects

#### Flexible Retrieval

[https://aws.amazon.com/s3/storage-classes/?nc=sn&loc=3#Flexible\\_Retrieval](https://aws.amazon.com/s3/storage-classes/?nc=sn&loc=3#Flexible_Retrieval)

- Designed for durability of 99.999999999% of objects across multiple Availability Zones
- Data is resilient in the event of one entire Availability Zone destruction
- Supports SSL for data in transit and encryption of data at rest
- Ideal for backup and disaster recovery use cases when large sets of data occasionally need to be retrieved in minutes, without concern for costs
- Configurable retrieval times, from minutes to hours, with free bulk retrievals
- S3 PUT API for direct uploads to S3 Glacier Flexible Retrieval, and S3 Lifecycle management for automatic migration of objects

#### Deep Archive

[https://aws.amazon.com/s3/storage-classes/?nc=sn&loc=3#Deep\\_Archive](https://aws.amazon.com/s3/storage-classes/?nc=sn&loc=3#Deep_Archive)

Key Features:

- Designed for durability of 99.999999999% of objects across multiple Availability Zones
- Lowest cost storage class designed for long-term retention of data that will be retained for 7-10 years

- Ideal alternative to magnetic tape libraries
- Retrieval time within 12 hours
- S3 PUT API for direct uploads to S3 Glacier Deep Archive, and S3 Lifecycle management for automatic migration of objects

## Lifecycle Management :

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/object-lifecycle-mgmt.html>

## Lifecycle Managemet Tools : (video)

<https://youtu.be/OgRT88DjQos>

## Approximate costs

<https://aws.amazon.com/s3/pricing/?nc=sn&loc=4>

### S3 Intelligent - Tiering\* - Optional asynchronous Archive Access tiers

- Archive Access Tier, All Storage / Month \$0.0036 per GB
- Deep Archive Access Tier, All Storage / Month \$0.00099 per GB

S3 Standard - Infrequent Access\*\* - For long lived but infrequently accessed data that needs millisecond access

- All Storage / Month \$0.0125 per GB

S3 One Zone - Infrequent Access\*\* - For re-createable infrequently accessed data that needs millisecond access

- All Storage / Month \$0.01 per GB

S3 Glacier Instant Retrieval\*\*\* - For long-lived archive data accessed once a quarter with instant retrieval in milliseconds

- All Storage / Month \$0.004 per GB

S3 Glacier Flexible Retrieval (Formerly S3 Glacier)\*\*\* - For long-term backups and archives with retrieval option from 1 minute to 12 hours

- All Storage / Month \$0.0036 per GB

S3 Glacier Deep Archive\*\*\* - For long-term data archiving that is accessed once or twice in a year and can be restored within 12 hours

- All Storage / Month \$0.00099 per GB

## Scanning Glacier storage.. ( How To )

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/querying-glacier-archives.html>