



TD SYNnex AWS S3 y S3 Glacier



Below is a list of action items as part of the deployment process and post deployment recommendations to customize the Cloud Environment.

Technical Requirements – Customer Inputs

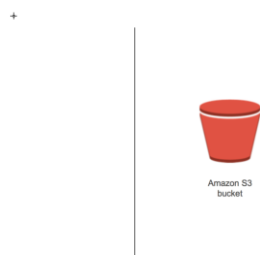
- Which availability zone will the solution be deployed to?
- What will you name the the S3 bucket?

Benefits of s3 Object Storage Service

AWS Simple Storage Service (S3) is an object service that offers industry-leading scalability, data availability, security, and performance. Amazon S3 is engineered for an impressive 99.999999999% (11 9's) of durability to help protect against failures, errors, and threats.

AWS S3 Glacier is a storage class of the S3 service that provides secure, durable, and low cost storage that provides multiple retrieval options that range from a few minutes to hours depending on needs. This low cost design is ideal for long term archiving and resilient for even an entire availability zone destruction.

Architecture Diagram



Resources Deployed

The following resources are deployed to build and configure this bundle.

S3 Bucket: If S3 Click to Run solution is deployed the S3 bucket will be configured with S3 Standard Storage Class and if the S3 Glacier Click to Run solution is deployed then the S3 bucket will be configured with the S3 Glacier Storage Class. Amazon S3 Glacier uses “vaults” as containers to store archives. You can view a list of your vaults in the AWS Management Console and use the AWS SDKs to perform a variety of vault operations such as create vault, delete vault, lock vault, list vault metadata, retrieve vault inventory, tag vaults for filtering and configure vault notifications. You can also set access policies for each vault to grant or deny specific activities to users. Under a single AWS account, you can have up to 1000 vaults.

Cost Breakdown

You pay for storing objects in your S3 buckets. The rate you’re charged depends on your objects’ size, how long you stored the objects during the month, and the storage class. There are per-request ingest fees when using PUT, COPY, or lifecycle rules to move data into any S3 storage class as well as data transfer fees that should be considered.

Storage Classes:

- S3 Standard
- S3 Intelligent-Tiering
- S3 Standard - Infrequent Access
- S3 One Zone - Infrequent Access
- S3 Glacier
- S3 Glacier Deep Archive
- S3 Reduced Redundancy Storage (RRS)

For reference purposes, if the S3 Standard storage class is used then the first 50TB in US East will cost \$0.023 per GB per month. If the S3 Glacier storage class (long term archive with retrieval between 1 minute and 12 hours) is used then the cost will be \$0.004 per GB per month. If the S3 Glacier Deep Archive storage class (long term archive with access one or two times per year and with 12 hour retrieval) is used then the cost will be \$0.00099 per GB per month.

Requests and Data Retrieval:

For reference purposes, PUT/COPY/POST/LIST cost \$0.005 per 1,000 requests for S3 Standard and \$0.05 per 1,000 requests for S3 Glacier and S3 Glacier Deep Archive storage classes. GET/SELECT and all other requests cost \$0.0004 per 1,000 requests. The S3 Glacier and S3 Glacier Deep Archive storage classes have additional fee for number of data retrieval request and also the amount of data requested ranging from \$10.00 per 1,000 requests and \$0.03 per GB of data requested to \$0.025 for retrieval requests per 1,000 requests and \$0.0025 per GB of data requested depending on type. Please reference <https://aws.amazon.com/s3/pricing/> for more information.

Data Transfer:

You pay for all bandwidth into and out of Amazon S3, except for the following:

- Data transferred in from the internet.
- Data transferred out to an Amazon Elastic Compute Cloud (Amazon EC2) instance, when the instance is in the same AWS Region as the S3 bucket (including to a different account in the same AWS region).
- Data transferred out to Amazon CloudFront (CloudFront).

For reference purposes, in the US East Region, all data IN to Amazon S3 from the internet is free. The data transfer fees from AWS to internet for up to 1GB per month is free. The next 9.999TB data transfer fee is \$0.09 per GB.

Summary:

S3 Standard

First 50TB / Month	\$ 0.023 per GB
PUT/COPY/POST/LIST	\$ 0.005 per 1,000 requests
GET/SELECT, All Others	\$ 0.0004 per 1,000 requests
Data Retrieval Requests	\$0.00
Data Retrieval Amount	\$0.00
Data Transfer IN	\$0.00
Data Transfer Out	\$ 0.00 up to 1GB/mo and next 9.999TB is \$0.09 per GB

S3 Glacier

All Storage / Month	\$ 0.004 per GB
PUT/COPY/POST/LIST	\$0.05 per 1,000 requests
GET/SELECT, All Others	\$0.0004 per 1,000 requests
Data Retrieval Requests	Ranges from \$10.00 to \$0.025 per 1,000 requests
Data Retrieval Amount	Ranges from \$0.03 to \$0.0025 per GB
Data Transfer IN	\$0.00
Data Transfer Out	\$0.00 up to 1GB/mo and next 9.999TB is \$0.09 per GB

S3 Glacier Deep Archive

All Storage / Month	\$0.00099 per GB
PUT/COPY/POST/LIST	\$0.05 per 1,000 requests
GET/SELECT, todos los demás	\$0.0004 per 1,000 requests
Solicitudes de recuperación de datos	Ranges from \$0.10 to \$0.025 per 1,000 requests
Importe de Recuperación de Datos	Ranges from \$0.02 to \$0.0025 per GB
Transferencia de datos de entrada	\$0.00
Transferencia de datos de salida	\$0.00 up to 1GB/mo and next 9.999TB is \$0.09 per GB