

Enterprises today face significant challenges with exponential data growth

Regulatory compliance requires long retention periods for a lot of that data. As the volume of data grows, you need to store that data more cost effectively while unlocking the value of your data with analytics and machine learning from AWS.



IDC estimates the volume of data will grow **40-50%** per year



Everyone around the world has archival data—every company, every vertical, and every industry. Often petabytes of data need to be stored indefinitely, such as medical records, news media content, and manufacturing datasets.

Storing all this data requires

- Enhanced data durability
- Faster retrieval times
- Better security and compliance
- Greater data accessibility for analytics and business intelligence

Tape drives and other on-premises storage devices don't provide the solution to exponential data growth.



AWS data archiving solutions eliminate the infrastructure management headache for your team while creating value for your business.

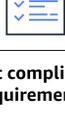
Benefits customers achieve when archiving data in AWS

The vast majority of data in the world is cold and this represents the perfect candidate for archival data in the cloud. The Amazon S3 Glacier storage classes are secure, durable, and extremely low-cost storage classes purpose-built for data archiving and long-term backup. Using the Amazon S3 Glacier storage classes, businesses can safely and securely store cold data for years or even decades without worrying about expensive and failure-prone tape drives or off-premises tape archival services.

Benefits of archiving on AWS



Cost-effective storage



Meet compliance requirements



Business agility



Zero hardware to manage



Data protection and integrity



Unlimited scale



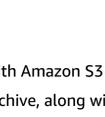
When you're considering where to store long-term, rarely accessed data, AWS offers various storage classes optimized for specific use cases and data access patterns. Each of these storage classes provide unique benefits that map to specific use cases, giving you plenty of flexibility to tailor your rarely accessed or archive storage usage and optimize for both cost and performance.

AWS offers archive storage solutions for long term retention, compliance, and digital preservation

The Amazon S3 Glacier storage classes provide long-term, secure, durable storage classes for data archiving at the lowest cost and milliseconds access. The Amazon S3 Glacier storage classes have unprecedented availability, flexibility, and scalability providing a way to archive and retrieve data safely and reliably — maximizing the value of your digital assets.



All S3 Glacier storage classes provide virtually unlimited scalability and are designed for **99.99999999%** of data durability



Depending on your required storage duration, access patterns, or performance needs, the S3 Glacier storage classes offer retrieval options from milliseconds to hours

With Amazon S3 Glacier Instant Retrieval, Amazon S3 Glacier Flexible Retrieval, Amazon S3 Glacier Deep Archive, along with the Amazon S3 Intelligent-Tiering storage class, there is an optimal S3 storage class for every data archiving use case.

Amazon S3 Glacier Instant Retrieval

For archive data that needs immediate access, such as medical images, news media assets, or genomics data



Designed for data that is accessed once per quarter, that still needs immediate access



Lowest cost storage for long-term archive data, with milliseconds retrieval



Used in performance-sensitive use cases such as image hosting, online file-sharing applications, news media assets

Amazon S3 Glacier Flexible Retrieval

For archive data that does not require immediate access but needs the flexibility to retrieve large sets of data at no cost



Designed for data that is accessed 1-2 times per year and is retrieved asynchronously



Save up to 10% on storage costs compared with using S3 Glacier Instant Retrieval



Delivers the most retrieval speed options that balance cost with access times ranging from minutes to hours, ideal for backup or disaster recovery use cases

Amazon S3 Glacier Deep Archive

To save even more on long-lived archive storage such as compliance archives and digital media preservation



Designed for data that is accessed once or less per year and is retrieved asynchronously



Lowest cost cloud storage designed for long-term data retention



An easy-to-manage alternative to tape, designed for customers that retain datasets for 7-10 years or longer to meet regulatory compliance requirements



If you have unknown, changing, or unpredictable access patterns, such as data lakes, analytics, or user generated content, the Amazon S3 Intelligent-Tiering storage class automates storage cost savings by moving data when access patterns change.

Amazon S3 Intelligent-Tiering

The only cloud storage class that delivers automatic storage cost savings when data access patterns change, without performance impact or operational overhead



Automatically moves objects between optimal access tiers



Use as the default storage class for virtually any workload, especially data lakes, data analytics, new applications, and user-generated content



To save even more on rarely accessed data, you can activate the optional asynchronous Archive or Deep Archive Access tiers

Many customers look to AWS to innovate and increase the value of their archives while decreasing the time they spend managing this type of infrastructure. Innovate faster by focusing your highly valuable IT resources on developing applications that differentiate your business instead of the undifferentiated heavy lifting of managing archival data on your data centers. There is no better place for archive data to be than in AWS.

Learn more about modernizing your data archive with AWS

aws.amazon.com/archive

Learn more about Amazon S3 Glacier storage classes

aws.amazon.com/s3/storage-classes/glacier