

# Amazon S3

Amazon Simple Storage Service (Amazon S3), provides developers and IT teams with secure, durable, highly-scalable object storage. Amazon S3 is easy to use, with a simple web service interface to store and retrieve any amount of data from anywhere on the web. With Amazon S3, you pay only for the storage you actually use. There is no minimum fee and no setup cost.

Amazon S3 offers a range of storage classes designed for different use cases including Amazon S3 Standard for general-purpose storage of frequently accessed data, Amazon S3 Standard - Infrequent Access (Standard - IA) for long-lived, but less frequently accessed data, and Amazon Glacier for long-term archive. Amazon S3 also offers configurable lifecycle policies for managing your data throughout its lifecycle. Once a policy is set, your data will automatically migrate to the most appropriate storage class without any changes to your applications.

Amazon S3 can be used alone or together with other AWS services

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Amazon S3

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Amazon S3 SLA

such as Amazon Elastic Compute Cloud (Amazon EC2) and AWS Identity and Access Management (IAM), as well as third party storage repositories and gateways. Amazon S3 provides cost-effective object storage for a wide variety of use cases including cloud applications, content distribution, backup and archiving, disaster recovery, and big data analytics.

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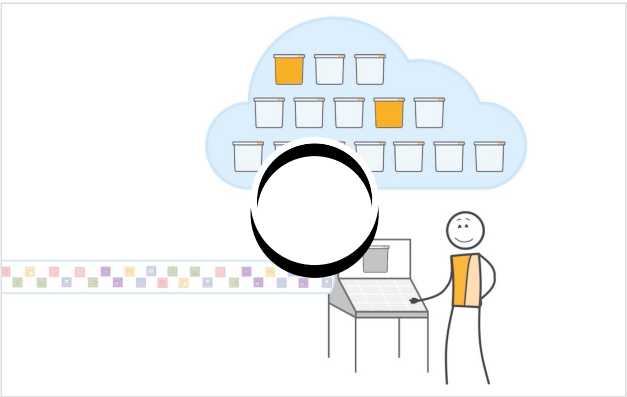
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Introduction to Amazon S3 (3:16)

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Benefits



## Durable

Amazon S3 provides durable infrastructure to store important data and is designed for durability of 99.999999999% of objects. Your data is redundantly stored across multiple facilities and multiple devices in each facility.

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## Low Cost

Amazon S3 allows you to store large amounts of data at a very low cost. Using lifecycle management, you can set policies to automatically migrate your data to Standard - Infrequent Access and Amazon Glacier as it ages to further reduce costs. You pay for what you need, with no minimum commitments or up-front fees.

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## Available

Amazon S3 Standard is designed for up to 99.99% availability of objects over a given year and is backed by the [Amazon S3 Service Level Agreement](#), ensuring that you can rely on it when needed. You can also choose an AWS region to optimize for latency, minimize costs, or address regulatory requirements.



## Secure

Amazon S3 supports data transfer over SSL and automatic encryption of your data once it is uploaded. You can also configure bucket policies to manage object permissions and control access to your data using [AWS Identity](#)

and Access Management (IAM).

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## Scalable

With Amazon S3, you can store as much data as you want and access it when needed. You can stop guessing your future storage needs and scale up and down as required, dramatically increasing business agility.



## Send Event Notifications

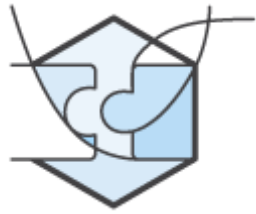
Amazon S3 can send event notifications when objects are uploaded to Amazon S3. Amazon S3 event notifications can be delivered using [Amazon SQS](#) or [Amazon SNS](#), or sent directly to [AWS Lambda](#), enabling you to trigger workflows, alerts, or other processing. For example, you could use Amazon S3 event notifications to trigger transcoding of media files when they are uploaded, processing of data files when they become available, or synchronization of Amazon S3 objects with other data stores.

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## High Performance

Amazon S3 supports multi-part uploads to help maximize network throughput and resiliency, and lets you choose the AWS region to store your data close to the end user and minimize network latency. And Amazon S3 is integrated with [Amazon CloudFront](#), a content delivery web service that distributes content to end users with low latency, high data transfer speeds, and no minimum usage commitments.



## Integrated

Amazon S3 is integrated with other AWS services to simplify uploading and downloading data from Amazon S3 and make it easier to build solutions that use a range of AWS services. Amazon S3 integrations include [Amazon CloudFront](#), [Amazon CloudWatch](#), [Amazon Kinesis](#), [Amazon RDS](#), [Amazon Glacier](#), [Amazon EBS](#), [Amazon DynamoDB](#), [Amazon Redshift](#), [Amazon Route 53](#), [Amazon EMR](#), [Amazon VPC](#), [Amazon KMS](#), and [AWS Lambda](#).



## Easy to use

Amazon S3 is easy to use with a web-based management console and mobile app and full REST APIs and SDKs for easy integration with third party technologies.

[Getting Started With Amazon S3](#)

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## Use Cases

### Backup and Archiving

Amazon S3 offers a highly durable, scalable, and secure solution for backing up and archiving your critical data. You can use Amazon S3's versioning capability to provide even further protection for your stored data. You can also define

### Content Storage & Distribution

Amazon S3 provides highly durable and available storage for a variety of content. It allows you to offload your entire storage infrastructure into the cloud, where you can take advantage of Amazon S3's scalability and pay-as-

### Big Data Analytics

Whether you're storing pharmaceutical or financial data, or multimedia files such as photos and videos, Amazon S3 can be used as your big data object store. Amazon Web Services offers a comprehensive portfolio of services to

lifecycle rules to automatically migrate less frequently accessed data to Standard - IA and archive sets of objects to Amazon Glacier.

[Learn more about Backup](#)

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you-go pricing to handle your growing storage needs. You can distribute your content directly from Amazon S3 or use Amazon S3 as an origin store for delivering content to your Amazon CloudFront edge locations.

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help you manage big data by reducing costs, scaling to meet demand, and increasing the speed of innovation.

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## Static Website Hosting

You can host your entire static website on Amazon S3 for a low-cost, highly available hosting solution that can scale automatically to meet traffic demands. With Amazon S3, you can reliably serve your traffic and handle unexpected peaks without worrying about scaling your infrastructure.

[Learn more](#)

## Cloud-native Application Data

Amazon S3 provides high performance, highly available storage that makes it easy to scale and maintain cost-effective mobile and Internet-based apps that run fast. With Amazon S3, you can add any amount of content and access it from anywhere, so you can deploy applications faster and reach more customers.

## Disaster Recovery

Amazon S3's highly durable, secure, global infrastructure offers a robust disaster recovery solution designed to provide superior data protection. Cross-Region Replication (CRR) automatically replicates every S3 object to a destination bucket located in a different AWS region.

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