aws.amazon.com /s3/pricing/

Amazon S3 Simple Storage Service Pricing - Amazon Web Services

44-56 minutes

Storage pricing

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—S3 Standard, S3 Intelligent-Tiering, S3 Standard-Infrequent Access, S3 One Zone-Infrequent Access, S3 Express One Zone, S3 Glacier Instant Retrieval, S3 Glacier Flexible Retrieval (Formerly S3 Glacier), and S3 Glacier Deep Archive. You pay a monthly monitoring and automation charge per object stored in the S3 Intelligent-Tiering storage class to monitor access patterns and move objects between access tiers. In S3 Intelligent-Tiering there are no retrieval charges, and no additional tiering charges apply when objects are moved between access tiers.

There are per-request ingest charges when using PUT, COPY, or lifecycle rules to move data into any S3 storage class. Consider the ingest or transition cost before moving objects into any storage class. Estimate your costs using the AWS Pricing Calculator. To find the best S3 storage class for your workload, learn more here.

Please note that we list Storage Requests and Data Retrievals Pricing below the Storage Pricing table.

	Storage pricing
S3 Standard - General purpose storage for any type of data, typically used for frequently accessed data	
First 50 TB / Month	$0.023 per GB
Next 450 TB / Month	$0.022 per GB
Over 500 TB / Month	$0.021 per GB
S3 Intelligent - Tiering * - Automatic cost savings for data with unknown or changing access patterns	
Monitoring and Automation, All Storage / Month (Objects > 128 KB)	$0.0025 per 1,000 objects
Frequent Access Tier, First 50 TB / Month	$0.023 per GB
Frequent Access Tier, Next 450 TB / Month	$0.022 per GB
Frequent Access Tier, Over 500 TB / Month	$0.021 per GB
Infrequent Access Tier, All Storage / Month	$0.0125 per GB
Archive Instant Access Tier, All Storage / Month	$0.004 per GB
S3 Intelligent - Tiering * - Optional asynchronous Archive Access tiers	
Archive Access Tier, All Storage / Month	$0.0036 per GB

	Storage pricing
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 Express One Zone - High-performance storage for your most frequently accessed data	
All Storage / Month	$0.16 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 *** - 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
S3 One Zone - Infrequent Access ** - For re-creatable infrequently accessed data that needs millisecond access	
All Storage / Month	$0.01 per GB

* S3 Intelligent-Tiering can store objects smaller than 128 KB, but auto-tiering has a minimum eligible object size of 128 KB. These smaller objects will not be monitored and will always be charged at the Frequent Access tier rates, with no monitoring and automation charge. For each object archived to the Archive Access tier or Deep Archive Access tier in S3 Intelligent-Tiering, Amazon S3 uses 8 KB of storage for the name of the object and other metadata (billed at S3 Standard storage rates) and 32 KB of storage for index and related metadata (billed at S3 Glacier Flexible Retrieval and S3 Glacier Deep Archive storage rates).

** S3 Standard-IA and S3 One Zone-IA storage have a minimum billable object size of 128 KB. Smaller objects may be stored but will be charged for 128 KB of storage at the appropriate storage class rate. S3 Standard-IA, and S3 One Zone-IA storage are charged for a minimum storage duration of 30 days, and objects deleted before 30 days incur a pro-rated charge equal to the storage charge for the remaining days. Objects that are deleted, overwritten, or transitioned to a different storage class before 30 days will incur the normal storage usage charge plus a pro-rated charge for the remainder of the 30-day minimum. This includes objects that are deleted as a result of file operations performed by File Gateway. Objects stored for 30 days or longer will not incur a 30-day minimum charge.

*** For each object that is stored in the S3 Glacier Flexible Retrieval and S3 Glacier Deep Archive storage classes, AWS charges for 40 KB of additional metadata for each archived object, with 8 KB charged at S3 Standard rates and 32 KB charged at S3 Glacier Flexible Retrieval or S3 Deep Archive rates. This allows you to get a real-time list of all of your S3 objects using the S3 LIST API or the S3 Inventory report. S3 Glacier Instant Retrieval has a minimum billable object size of 128 KB. Smaller objects may be stored but will be charged for 128 KB of storage at the appropriate storage class rate.

Objects that are archived to S3 Glacier Instant Retrieval and S3 Glacier Flexible Retrieval are charged for a minimum storage duration of 90 days, and S3 Glacier Deep Archive has a minimum storage duration of 180 days. Objects deleted prior to the minimum storage duration incur a pro-rated charge equal to the storage charge for the remaining days. Objects that are deleted, overwritten, or transitioned to a different storage class before the minimum storage duration will incur the normal storage usage charge plus a pro-rated storage charge for the remainder of the minimum storage duration. Objects stored longer than the minimum storage duration will not incur a minimum storage charge. For customers using the S3 Glacier direct API, pricing for API can be found on the S3 Glacier API pricing page.

Requests & data retrievals

You pay for requests made against your S3 buckets and objects. S3 request costs are based on the request type, and are charged on the quantity of requests as listed in the table below. When you use the Amazon S3 console to browse your storage, you incur charges for GET, LIST, and other requests that are made to facilitate browsing. Charges are accrued at the same rate as requests that are made using the API/SDK. Reference the S3 developer guide for technical details on the following request types: PUT, COPY, POST, LIST, GET, SELECT, Lifecycle Transition, and Data Retrievals. DELETE and CANCEL requests are free. LIST requests for any storage class are charged at the same rate as S3 Standard PUT, COPY, and POST requests. You pay for retrieving objects that are stored in S3 Standard – Infrequent Access, S3 One Zone – Infrequent Access, S3 Glacier Instant Retrieval, S3 Glacier Flexible Retrieval, and S3 Glacier Deep Archive. Reference the S3 developer guide for technical details on Data Retrievals.

S3 Lifecycle Transition request pricing below represents requests to that storage class. For example, transitioning data from S3 Standard to S3 Standard-Infrequent Access will be charged $0.01 per 1,000 requests.

There are no retrieval charges in S3 Intelligent-Tiering. If an object in the infrequent access tier is accessed later, it is automatically moved back to the frequent access tier. No additional tiering charges apply when objects are moved between access tiers within the S3 Intelligent-Tiering storage class.

desktop table (1/1)

	PUT, COPY, POST, LIST requests (per 1,000 requests)	GET, SELECT, and all other requests (per 1,000 requests)	Lifecycle Transition requests into (per 1,000 requests)	Data Retrieval requests (per 1,000 requests)	Data retrievals (per GB)
S3 Standard	$0.005	$0.0004	n/a	n/a	n/a
S3 Intelligent-Tiering *	$0.005	$0.0004	$0.01	n/a	n/a
Frequent Access	n/a	n/a	n/a	n/a	n/a
Infrequent Access	n/a	n/a	n/a	n/a	n/a
Archive Instant	n/a	n/a	n/a	n/a	n/a
Archive Access, Standard	n/a	n/a	n/a	n/a	n/a

	PUT, COPY, POST, LIST requests (per 1,000 requests)	GET, SELECT, and all other requests (per 1,000 requests)	Lifecycle Transition requests into (per 1,000 requests)	Data Retrieval requests (per 1,000 requests)	Data retrievals (per GB)
Archive Access, Bulk	n/a	n/a	n/a	n/a	n/a
Archive Access, Expedited	n/a	n/a	n/a	$10.00	$0.03
Deep Archive Access, Standard	n/a	n/a	n/a	n/a	n/a
Deep Archive Access, Bulk	n/a	n/a	n/a	n/a	n/a
S3 Standard-Infrequent Access **	$0.01	$0.001	$0.01	n/a	$0.01
S3 Express One Zone ***	$0.0025	$0.0002	n/a	n/a	$0***
S3 Glacier Instant Retrieval ****	$0.02	$0.01	$0.02	n/a	$0.03
S3 Glacier Flexible Retrieval ****	$0.03	$0.0004	$0.03	See below	See below
Expedited	n/a	n/a	n/a	$10.00	$0.03
Standard	n/a	n/a	n/a	$0.05	$0.01
Bulk ****	n/a	n/a	n/a	n/a	n/a
Provisioned Capacity Unit *****	n/a	n/a	n/a	n/a	$100.00 per unit
S3 Glacier Deep Archive ****	$0.05	$0.0004	$0.05	See below	See below
Standard	n/a	n/a	n/a	$0.10	$0.02
Bulk	n/a	n/a	n/a	$0.025	$0.0025
S3 One Zone-Infrequent Access **	$0.01	$0.001	$0.01	n/a	$0.01

S3 Lifecycle Transition request pricing above represents requests to that storage class.

* S3 Intelligent-Tiering standard and bulk data retrieval and restore requests are free of charge for all five access tiers: Frequent, Infrequent, Archive Instant, Archive, and Deep Archive access tiers. Subsequent restore requests called on objects already being restored will be billed as a GET request. Expedited retrievals are available for the S3 Intelligent-Tiering Archive Access Tier and are charged at the Expedited request and retrieval rate.

** S3 Standard-IA and S3 One Zone-IA storage are charged for a minimum storage duration of 30 days. Objects that are deleted, overwritten, or transitioned to a different storage class before the minimum storage duration will incur the normal storage usage charge plus a pro-rated charge for the remainder of the minimum storage duration. Objects stored longer than the minimum storage duration will not incur aminimum charge.

*** S3 Express One Zone applies a flat per request charge for request sizes up to 512 KB. An additional per GB charge is applied for PUTs and GETs for portion of request greater than 512 KB. The charge is $0.008/GB for PUTs and $0.0015/GB for GETs in the US East (N. Virginia), US West (Oregon), and Europe (Stockholm) Regions and $0.0075/GB for PUTs and $0.0014/GB for GETs in the Asia Pacific (Tokyo) Region.

**** Objects that are archived to S3 Glacier Instant Retrieval and S3 Glacier Flexible Retrieval are charged for a minimum storage duration of 90 days, and S3 Glacier Deep Archive has a minimum storage duration of 180 days. Objects deleted prior to the minimum storage duration incur a pro-rated charge equal to the storage charge for the remaining days. Objects that are deleted, overwritten, or transitioned to a different storage class before the minimum storage duration will incur the normal storage usage charge plus a pro-rated charge for the remainder of the minimum storage duration. Objects stored longer than the minimum storage duration will not incur a minimum charge. S3Glacier Flexible Retrieval Bulk data retrievals and requests are free of charge.

***** Provisioned Capacity Units allow you to provision capacity for expedited retrievals from S3 Glacier for a given month. Each provisioned capacity unit can provide at least three expedited retrievals every five minutes and up to 150 MB/s of retrieval throughput.

mobile table (1/2)

	PUT, COPY, POST, LIST requests (per 1,000 requests)	**GET, SELECT, and all other requests (per 1,000 requests)**	**Lifecycle Transition requests into (per 1,000 requests)**
S3 Standard	$0.005	$0.0004	$0.00
Frequent Access	n/a	n/a	n/a
Infrequent Access	n/a	n/a	n/a
Archive Instant	n/a	n/a	n/a
Archive Access, Standard	n/a	n/a	n/a
Archive Access, Bulk	n/a	n/a	n/a
Archive Access, Expedited	n/a	n/a	n/a

	PUT, COPY, POST, LIST requests (per 1,000 requests)	GET, SELECT, and all other requests (per 1,000 requests)	Lifecycle Transition requests into (per 1,000 requests)
Deep Archive Access, Standard	n/a	n/a	n/a
Deep Archive Access, Bulk	n/a	n/a	n/a
S3 Standard - Infrequent Access **	$0.01	$0.001	$0.01
S3 Express One Zone ***	$0.0025	$0.0002	n/a
S3 Glacier Instant Retrieval ****	$0.02	$0.01	$0.02
S3 Glacier Flexible Retrieval ****	$0.03	$0.0004	$0.03
Expedited	n/a	n/a	n/a
Standard	n/a	n/a	n/a
Bulk ****	n/a	n/a	n/a
Provisioned Capacity Unit *****	n/a	n/a	n/a
S3 Glacier Deep Archive ****	$0.05	$0.0004	$0.05
Standard	n/a	n/a	n/a
Bulk	n/a	n/a	n/a
S3 One Zone - Infrequent Access **	$0.01	$0.001	$0.01

mobile table (2/2)

	Data retrieval requests (per 1,000 requests)	Data retrievals (per GB)
S3 Standard	$0.00	$0.00
S3 Intelligent - Tiering *	n/a	n/a
Frequent Access	n/a	n/a
Infrequent Access, Bulk	n/a	n/a

	Data retrieval requests (per 1,000 requests)	Data retrievals (per GB)
Archive Instant	n/a	n/a
Archive Access, Standard	n/a	n/a
Archive Access, Bulk	n/a	n/a
Archive Access, Expedited	$10.00	$0.03
Deep Archive Access, Standard	n/a	n/a
Deep Archive Access, Bulk	n/a	n/a
S3 Standard - Infrequent Access **	n/a	$0.01
S3 Express One Zone ***	n/a	$0***
S3 Glacier Instant Retrieval ***	n/a	$0.03
S3 Glacier Flexible Retrieval ***	See below	See below
Expedited	$10.00	$0.03
Standard	$0.05	$0.01
Bulk ***	n/a	n/a
Provisioned Capacity Unit ****	n/a	$100.00 per unit
S3 Glacier Deep Archive ***	See below	See below
Standard	$0.10	$0.02
Bulk	$0.025	$0.0025
S3 One Zone - Infrequent Access **	n/a	$0.01

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

- Data transferred out to the internet for the first 100GB per month, aggregated across all AWS Services and Regions (except China and GovCloud)
- Data transferred in from the internet.
- Data transferred between S3 buckets in the same AWS Region.
- Data transferred from an Amazon S3 bucket to any AWS service(s) within 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).
- EU customers may request reduced data transfer rates for eligible use cases under the European Data Act. Please contact AWS Customer Support for more information.

The pricing below is based on data transferred "in" and "out" of Amazon S3 (over the public internet)†††. Learn more about AWS Direct Connect pricing.

	Price

	Price
Data Transfer IN To Amazon S3 From Internet	
All data transfer in	$0.00 per GB

Data Transfer OUT From Amazon S3 To Internet

AWS customers receive 100GB of data transfer out to the internet free each month, aggregated across all AWS Services and Regions (except China and GovCloud). The 100 GB free tier for data transfer out to the internet is global and does not apply separately or individually to AWS Regions.

First 10 TB / Month	$0.09 per GB
Next 40 TB / Month	$0.085 per GB
Next 100 TB / Month	$0.07 per GB
Greater than 150 TB / Month	$0.05 per GB

Amazon CloudFront	$0.00 per GB
AWS GovCloud (US-West)	$0.02 per GB
AWS GovCloud (US-East)	$0.02 per GB
Africa (Cape Town)	$0.02 per GB
Asia Pacific (Hong Kong)	$0.02 per GB
Asia Pacific (Hyderabad)	$0.02 per GB
Asia Pacific (Jakarta)	$0.02 per GB
Asia Pacific (Malaysia)	$0.02 per GB
Asia Pacific (Melbourne)	$0.02 per GB
Asia Pacific (Mumbai)	$0.02 per GB
Asia Pacific (Osaka)	$0.02 per GB
Asia Pacific (Seoul)	$0.02 per GB
Asia Pacific (Singapore)	$0.02 per GB
Asia Pacific (Sydney)	$0.02 per GB
Asia Pacific (Tokyo)	$0.02 per GB
Canada (Central)	$0.02 per GB
Canada West (Calgary)	$0.02 per GB
Europe (Frankfurt)	$0.02 per GB

Europe (Ireland)	$0.02 per GB
Europe (London)	$0.02 per GB
Europe (Milan)	$0.02 per GB
Europe (Paris)	$0.02 per GB
Europe (Spain)	$0.02 per GB
Europe (Stockholm)	$0.02 per GB
Europe (Zurich)	$0.02 per GB
Israel (Tel Aviv)	$0.02 per GB
Middle East (Bahrain)	$0.02 per GB
Middle East (UAE)	$0.02 per GB
South America (Sao Paulo)	$0.02 per GB
US East (Ohio)	$0.01 per GB
US West (Los Angeles)	$0.02 per GB
US West (N. California)	$0.02 per GB
US West (Oregon)	$0.02 per GB

S3 Multi-Region Access Points pricing

Amazon S3 Multi-Region Access Points accelerate performance by up to 60% when accessing data sets that are replicated across multiple AWS Regions. Based on AWS Global Accelerator, S3 Multi-Region Access Points consider factors like network congestion and the location of the requesting application to dynamically route your requests over the AWS network to the lowest latency copy of your data. This automatic routing allows you to take advantage of the global infrastructure of AWS while maintaining a simple application architecture.

S3 Multi-Region Access Points data routing pricing

When you use an S3 Multi-Region Access Point to route requests within AWS, you pay a data routing cost for each gigabyte (GB) processed, as well as standard charges for S3 requests, storage, data transfer, and replication.

S3 Multi-Region Access Points data routing	**Pricing**	
Data routing cost	$0.0033 per GB	

S3 Multi-Region Access Points internet acceleration pricing

If your application runs outside of AWS and accesses S3 over the internet, S3 Multi-Region Access Points increase performance by automatically routing your requests through an AWS edge location, over the global private AWS network, to the closest copy of your data based on access latency. When you

accelerate requests made over the internet, you pay the data routing cost outlined above and an internet acceleration cost.

S3 Multi-Region Access Points internet acceleration pricing varies based on whether the source client is in the same or in a different location as the destination AWS Region, and is in addition to standard S3 data transfer pricing.

For S3 Multi-Region Access Points availability in AWS Regions, please visit the user guide.

Internet acceleration pricing between locations

- North America

Internet acceleration WITHIN North America	**Pricing**
Data transfer IN to Amazon S3 from the internet	$0.0025 per GB
Data transfer OUT from Amazon S3 to the internet	$0.0050 per GB
Internet acceleration BETWEEN North America AND any other location	
Data transfer IN to Amazon S3 from the internet	$0.0500 per GB
Data transfer OUT from Amazon S3 to the internet	$0.0500 per GB

- Europe

Internet acceleration WITHIN Europe	**Pricing**
Data transfer IN to Amazon S3 from the internet	$0.0025 per GB
Data transfer OUT from Amazon S3 to the internet	$0.0050 per GB
Internet acceleration BETWEEN Europe AND any other location	
Data transfer IN to Amazon S3 from the internet	$0.0500 per GB
Data transfer OUT from Amazon S3 to the internet	$0.0500 per GB

- Asia Pacific

Internet acceleration WITHIN Asia Pacific	**Pricing**
Data transfer IN to Amazon S3 from the internet	$0.0100 per GB
Data transfer OUT from Amazon S3 to the internet	$0.0150 per GB

Internet acceleration BETWEEN Asia Pacific AND any other location	
Data transfer IN to Amazon S3 from the internet	$0.0600 per GB
Data transfer OUT from Amazon S3 to the internet	$0.0600 per GB

- South America

Internet acceleration WITHIN South America	**Pricing**
Data transfer IN to Amazon S3 from the internet	$0.0250 per GB
Data transfer OUT from Amazon S3 to the internet	$0.0400 per GB
Internet acceleration BETWEEN South America AND any other location	
Data transfer IN to Amazon S3 from the internet	$0.0600 per GB
Data transfer OUT from Amazon S3 to the internet	$0.0600 per GB

S3 Multi-Region Access Points failover controls pricing

S3 Multi-Region Access Points failover controls let you shift S3 data access request traffic routed through an Amazon S3 Multi-Region Access Point within minutes to an alternate AWS Region to build highly available applications for business continuity. To use failover controls, you are charged for S3 API costs to view the current routing control status of each Region and submit any routing control changes for initiating a failover.

S3 Multi-Region Access Points pricing examples

Example 1: Using S3 Multi-Region Access Points within an AWS Region

You have an application in US East (N. Virginia), and an S3 Multi-Region Access Point that is configured to dynamically route requests to an S3 bucket in either US East (N. Virginia) or US West (Oregon). Your application sends a 10 GB of data through an S3 Multi-Region Access Point. In this case, the lowest latency bucket to your application will be the bucket in US East (N. Virginia), so your requests will remain within that region. We calculate your cost as follows.

S3 Multi-Region Access Point data routing cost: The S3 Multi-Region Access Point data routing cost is $0.0033 per GB. In this example, 10 GB of data was routed by your S3 Multi-Region Access Point.

Total S3 Multi-Region Access Point data routing cost = $0.0033 * 10 GB = **$0.033**

Total charges:

S3 Multi-Region Access Point data routing = **$0.033**

Total = **$0.033**

Example 2: Using S3 Multi-Region Access Points across AWS Regions

You have an application in US East (N. Virginia) and a S3 Multi-Region Access Point that is configured to dynamically route requests to an S3 bucket in either US East (Ohio) or US West (Oregon). Your application sends a 10 GB of data through an S3 Multi-Region Access Point. In this case, the lowest latency bucket to your application will be the bucket in US East (Ohio).

Since your application is in US East (N. Virginia) and your lowest latency bucket is in US East (Ohio), your requests will automatically traverse the private AWS network from one AWS Region to another AWS Region. As a result, you will incur standard AWS cross-region data transfer charges, in addition to a S3 Multi-Region Access Point data routing cost. We calculate your cost as follows.

S3 Multi-Region Access Point data routing cost

The S3 Multi-Region Access Point data routing cost is $0.0033 per GB. In this example, 10 GB of data was routed by your S3 Multi-Region Access Point.

Total S3 Multi-Region Access Point data routing cost = $0.0033 * 10 GB = **$0.033**

Data transfer charges from Amazon EC2 in US East (N. Virginia) to Amazon S3 in US East (Ohio)

The data transfer charge from US East (N. Virginia) to US East (Ohio) is $0.01 per GB. In this example, 10 GB of data went through your S3 Multi-Region Access Point and was routed over the private AWS network from your application in US East (N. Virginia), to an S3 bucket in US East (Ohio).

Total S3 data transfer cost = $0.01 * 10 GB = **$0.10**

Total Charges:

S3 Multi-Region Access Point data routing cost = $0.033

S3 data transfer charges - US East (N. Virginia) to US East (Ohio) = $0.10

Total = $0.133

Example 3: Using S3 Multi-Region Access Points over the internet

You have an application that supports customers in North America, Europe, and Asia. These customers send and receive data over the internet to and from an S3 bucket in either US East (N. Virginia), or Europe (Ireland). You created an S3 Multi-Region Access Point to accelerate your application by routing customer requests to the S3 bucket closest to them.

One of your customers sends 10 GB over the internet into S3 from a client in North America. This request is automatically routed to the bucket in US East (N. Virginia). A second customer downloads 10 GB of data over the internet from S3 to a client in Europe. This request is automatically routed to the bucket in Europe (Ireland). A third customer downloads 10 GB of data over the internet from S3 to a client in Asia. This request is automatically routed to the bucket in Europe (Ireland) as well.

Since two of your customers are transferring data out of S3 over the internet you will incur standard AWS data transfer out charges, in addition to a S3 Multi-Region Access Point data routing cost. We calculate your cost as follows.

S3 Multi-Region Access Point data routing cost

The S3 Multi-Region Access Point data routing cost is $0.0033 per GB. In this example, 30 GB of data was routed by your S3 Multi-Region Access Point to your buckets.

Total S3 Multi-Region Access Point data routing cost = $0.0033 * 30 GB = **$0.099**

S3 Multi-Region Access Point internet acceleration cost:

The 10 GB uploaded from a client in North America, through an S3 Multi-Region Access Point, to a bucket in North America will incur a charge of $0.0025 per GB.

The 10 GB downloaded from a bucket in Europe, through an S3 Multi-Region Access Point, to a client in Europe will incur a charge of $0.005 per GB.

The 10 GB downloaded from a bucket in Europe, through an S3 Multi-Region Access Point, to a client in Asia will incur a charge of $0.05 per GB.

Total S3 Multi-Region Access Point internet acceleration cost = $0.0025 * 10 GB + $0.005 * 10 GB + $0.05 * 10 GB = **$0.575**

S3 data transfer OUT from Amazon S3 in Europe (Ireland) to internet

The Data Transfer out charge from Amazon S3 in Europe (Ireland) to internet is $0.09 per GB. In this example, 20 GB were transferred out; one to a client in Europe, and one to a client in Asia.

Total data transfer cost = $0.09 * 20 GB = **$1.80**

Total Charges:

S3 Multi-Region Access Point data routing cost = $0.099

S3 Multi-Region Access Point internet acceleration cost = $0.575

S3 data transfer charges - Europe (Ireland) data transfer OUT to internet = $1.80

Total = $2.474

Example 4: Using S3 Multi-Region Access Points with cross-account buckets across AWS Regions

You have an application in US East (N. Virginia) and a S3 Multi-Region Access Point in AWS account 1 that is configured to dynamically route requests. You can route to an S3 bucket belonging to a separate AWS account 2 in US East (Ohio) or to an S3 bucket belonging to a separate AWS account 3 in US West (Oregon). Your application sends a 10 GB of data through an S3 Multi-Region Access Point. In this case, the lowest latency bucket to your application will be the bucket in US East (Ohio).

Since your application is in US East (N. Virginia) and your lowest latency bucket is in US East (Ohio), your requests will automatically traverse the private AWS network from one AWS Region to another AWS Region. As a result, you will incur standard AWS cross-Region data transfer charges, in addition to a S3 Multi-Region Access Point data routing cost. We calculate your cost as follows.

As an account owner that owns only the Multi-Region Access Point, but not the US East (Ohio) bucket, you incur the following charges:

S3 Multi-Region Access Point data routing cost:

The S3 Multi-Region Access Point data routing cost is $0.0033 per GB. In this example, 10 GB of data was routed by your S3 Multi-Region Access Point.

Total S3 Multi-Region Access Point data routing cost = $0.0033 * 10 GB = **$0.033**

Total Charges:

S3 Multi-Region Access Point data routing cost = **$0.033**

The owner of the bucket in US East (Ohio) will only incur the following charges:

The data transfer charge from US East (N. Virginia) to US East (Ohio) is $0.01 per GB. In this example, 10 GB of data went through your S3 Multi-Region Access Point and was routed over the private AWS network from your application in US East (N. Virginia) to an S3 bucket in US East (Ohio).

Total S3 data transfer cost = $0.01 * 10 GB = **$0.10**

Total Charges:

S3 data transfer cost = **$0.10**

The owner of the bucket in US West (Oregon) will not incur any data transfer costs or request costs as the current request is not being routed to their bucket.

Note:

The behavior for each request to a Multi-Region Access Point is determined by the respective bucket where the request lands. As a bucket owner, if your bucket is configured to be a Requester Pays bucket, the requester pays all of the cost associated to the endpoint usage, including the cost for requests and data transfer cost associated to both the bucket and the Multi-Region Access Point. Typically, you want to configure your buckets as requester pays buckets if you wish to share data but not incur charges associated with others accessing the data. To learn more, please visit S3 Requester Pays.

S3 Transfer Acceleration pricing

S3 Transfer Acceleration accelerates internet transfers between the client and a single S3 bucket. Pricing is based on the AWS edge location used to accelerate your transfer. S3 Transfer Acceleration pricing is in addition to Data Transfer pricing.

Each time you use S3 Transfer Acceleration to upload an object, we will check whether the service is likely to be faster than a regular Amazon S3 transfer. If we determine that it is not likely to be faster than a regular Amazon S3 transfer of the same object to the same destination AWS Region, we will not charge for that use of S3 Transfer Acceleration for that transfer, and may bypass the S3 Transfer Acceleration system for that upload.

Check your performance with the Amazon S3 Transfer Acceleration speed comparison tool.

Data Transfer IN to Amazon S3 from the Internet:	
Accelerated by AWS Edge Locations in the United States, Europe, and Japan	$0.04 per GB
Accelerated by all other AWS Edge Locations	$0.08 per GB
Data Transfer OUT from Amazon S3 to the Internet:	
Accelerated by any AWS Edge Location	$0.04 per GB
Data Transfer between Amazon S3 and another AWS region:	
Accelerated by any AWS Edge Location	$0.04 per GB

For Data Transfers exceeding 500 TB/Month, please contact us.

Storage and bandwidth size includes all file overhead.

Rate tiers take into account your aggregate usage for Data Transfer Out to the Internet across all AWS services.

††† Data Transfer Out may be different from the data received by your application in case the connection is prematurely terminated by you, for example, if you make a request for a 10 GB object and terminate the connection after receiving the first 2 GB of data. Amazon S3 attempts to stop the streaming of data, but it does not happen instantaneously. In this example, the Data Transfer Out may be 3 GB (1 GB more than 2 GB you received). As a result, you will be billed for 3 GB of Data Transfer Out.

S3 Encryption

Server-side encryption with Amazon S3 managed keys (SSE-S3)	Free
Server-side encryption with customer provided keys (SSE-C)	Free
Server-side encryption with keys stored in AWS Key Management Service (SSE-KMS)	Free†
Dual-layer server-side encryption with keys stored in AWS Key Management Service (DSSE-KMS)	$0.003 per gigabyte ††

Amazon S3 automatically applies server-side encryption with Amazon S3 managed keys (SSE-S3) as a base layer of encryption to all new objects added to S3, at no additional cost and with no impact on performance. SSE-C also does not incur any additional S3 charges.

† For SSE-KMS, you pay AWS KMS charges to generate or retrieve the data key used for encryption and decryption. For pricing on AWS KMS, visit the AWS KMS pricing page. You can also optimize your SSE-KMS costs with Amazon S3 Bucket Keys.

†† For DSSE-KMS, in addition to the charges for AWS KMS mentioned above, you pay an additional per gigabyte encryption fee for the second layer of encryption and decryption of data.

S3 Access Grants

Amazon S3 Access Grants map identities in directories such as Active Directory, or AWS Identity and Access Management (IAM) Principals, to datasets in S3. This helps you manage data permissions at scale by automatically granting S3 access to end-users based on their corporate identity. Additionally, S3 Access Grants log end-user identity, as well as the application used to access S3 data, in AWS CloudTrail. This helps to provide a detailed audit history down to the end-user identity for all access to the data in your S3 buckets.

S3 Access Grants is priced on a per-request basis. You are charged a flat rate for all Access Grants requests, such as GetDataAccess to obtain credentials. Delete-related requests, such as DeleteAccessGrant, are free.

S3 Access Grants Requests (per 1,000 requests)	$0.03

You pay for the storage management features and analytics (Amazon S3 Inventory, S3 Storage Class Analysis, S3 Storage Lens, and S3 Object Tagging) that are enabled on your account's buckets. S3 Storage management and analytics is priced per feature as detailed in the table below. For pricing on Amazon CloudWatch Metrics, visit the Amazon CloudWatch pricing page. For pricing on S3 Data Events in AWS CloudTrail, visit the AWS CloudTrail pricing page.

Storage management

S3 Inventory††	$0.0025 per million objects listed
S3 Object Tagging	$0.01 per 10,000 tags per month

†† The files produced by S3 Inventory exports are stored in your specified S3 bucket, and are subject to S3 Standard storage charges.

S3 Batch Operations pricing

Batch Operations – Jobs	$0.25 per job
Batch Operations – Objects	$1.00 per million objects processed
Batch Operations – Manifest (optional)	$0.015 per 1 million objects in the source bucket

†† You are charged for S3 Batch Operations jobs, objects, manifests, and requests in addition to any charges associated with the operation that S3 Batch Operations performs on your behalf, including data transfer, requests, and other charges.

When S3 Batch Operations generates a manifest, you are charged for an S3 Batch Operations manifest containing a list of objects for Batch Operations to operate on.

Storage insights

S3 Storage Lens pricing

S3 Storage Lens free metrics	$0.00
S3 Storage Lens advanced metrics and recommendations†	
Up to 25B objects monitored	$0.20 per million objects monitored per month
Greater than 25B to 100B objects monitored	$0.16 per million objects monitored per month
Greater than 100B objects monitored	$0.12 per million objects monitored per month

† For S3 Storage Lens advanced metrics and recommendations, you will be charged object monitoring charges for each Storage Lens dashboard used. The Storage Lens advanced metrics and recommendations pricing includes 15-months data retention, 35 additional metrics across 4 categories (activity, advanced cost optimization, advanced data protection, and detailed status code metrics), prefix-level aggregation, and CloudWatch metrics support.

S3 Storage Class Analysis pricing

S3 Analytics Storage Class Analysis††	$0.10 per million objects monitored per month

†† The files produced by S3 Storage Class Analysis exports are stored in your specified S3 bucket, and are subject to S3 Standard storage charges.

Except as otherwise noted, our prices are exclusive of applicable taxes and duties, including VAT and applicable sales tax. For customers with a Japanese billing address, use of AWS is subject to Japanese Consumption Tax. To learn more, visit our consumption tax FAQs »

Amazon S3 storage usage is calculated in binary gigabytes (GB), where 1 GB is 2^{30} bytes. This unit of measurement is also known as a gibibyte (GiB), defined by the International Electrotechnical Commission (IEC). Similarly, 1 TB is 2^{40} bytes, i.e. 1024 GBs.

For S3 pricing examples, go to the S3 billing FAQs or use the AWS Pricing Calculator.

S3 Cross-Region Replication, Same-Region Replication, and Replication Time Control

For Cross-Region Replication (CRR) and Same-Region Replication (SRR), you pay the S3 charges for storage in the selected destination S3 storage classes, for the primary copy, for replication PUT requests, and for applicable infrequent access storage retrieval charges. For CRR, you also pay for inter-region Data Transfer OUT from S3 to each destination region. When you use S3 Replication Time Control, you also pay a Replication Time Control Data Transfer charge and S3 Replication Metrics charges that are billed at the same rate as Amazon CloudWatch custom metrics.

Storage and PUT request pricing for the replicated copy is based on the selected destination AWS Regions, while pricing for inter-region data transfers is based on the source AWS Region. For more details on replication pricing, read the pricing FAQs.

S3 Replication Time Control data transfer†	$0.015 per GB

† Amazon S3 Replication Time Control Data Transfer pricing is the same in all AWS Regions. Replication Time Control is available in all commercial AWS Regions, including the AWS China (Beijing) Region and the AWS China (Ningxia) Region, but not in the AWS GovCloud (US) Regions.

S3 Batch Replication

While live replication like CRR and SRR automatically replicates newly uploaded objects as they are written to your bucket, S3 Batch Replication allows you to replicate existing objects. S3 Batch Replication is built using S3 Batch Operations to replicate objects as fully managed Batch Operations jobs. Similar to SRR and CRR, you pay the S3 charges for storage in the selected destination S3 storage classes, for the primary copy, for replication PUT requests, and for applicable infrequent access storage retrieval charges. When replicating across AWS Regions, you also pay for inter-Region Data Transfer OUT from S3 to each destination Region. If an object already exists in the destination bucket, we will check if the destination object is in sync with the source object. If the metadata is not in sync and needs to be replicated, you will incur the replication PUT request charge but not the inter-Region Data Transfer OUT charge. If the metadata is in sync, Batch Replication will do nothing and you incur no charge. For more details on replication pricing, read the pricing FAQs.

In addition to these charges, you also pay the S3 Batch Operations charges for Batch Replication jobs. See the following table for details.

Finally, when replicating existing objects, you need to indicate what objects to replicate. You can do this by providing a list of objects to S3 yourself, or use an AWS-generated manifest where you can specify filters such as object creation date and replication status. If you use the manifest, there is a charge based on the number of objects in the source bucket.

Batch Operations – Jobs	$0.25 per job
Batch Operations – Objects	$1.00 per million objects processed

Batch Operations – Manifest (optional)	$0.015 per 1 million objects in the source bucket

S3 Object Lambda pricing

With S3 Object Lambda, you can add your own code to S3 GET, HEAD, and LIST requests to modify and process data as it is returned to an application. You can use custom code to modify the data returned by standard S3 GET requests to filter rows, dynamically resize images, redact confidential data, and much more. Additionally, you can use S3 Object Lambda to modify the output of S3 LIST requests to create a custom view of objects in a bucket and S3 HEAD requests to modify object metadata like object name and size. Powered by AWS Lambda functions, your code runs on infrastructure that is fully managed by AWS, eliminating the need to create and store derivative copies of your data or to run expensive proxies, all with no changes required to applications.

When you use S3 Object Lambda, your S3 GET, HEAD, and LIST requests invoke an AWS Lambda function that you define. This function will process your data and return a processed object back to your application. In the US East (N. Virginia) Region, you pay $0.0000167 per GB-second for the duration of your AWS Lambda function, and $0.20 per 1M AWS Lambda requests. You pay for requests based on the request type, which vary by storage class. For example, if the data is stored in S3 Standard, you pay $0.0004 per 1,000 requests for all S3 GET and HEAD requests, or $0.005 per 1,000 requests for all LIST requests. You also pay a $0.005 per-GB charge for the data S3 Object Lambda returns to your application. S3 request and Lambda prices depend on the AWS Region, and the duration and memory allocated to your Lambda function. All regional prices are on the AWS Lambda and Amazon S3 pricing pages.

	Price
Data returned	$0.005 per GB

S3 Object Lambda pricing example

You have 1,000,000 objects that contain historical log data, generated by many applications. Confidential log entries make up 50% of the data. These logs are stored in the S3 Standard storage class, and the average object size is 1000 KB. You are building an application that analyzes this data, but should not have access to confidential log entries.

You can use S3 Object Lambda to filter out confidential log entries. This filtering occurs as your logs are retrieved from S3 with standard S3 GET requests. The Lambda function to filter your data is allocated 512MB of memory, has a 1 second runtime, and returns filtered objects that are 500 KB in size (on average) back to your application. This example assumes one retrieval per month for each object. This example uses the US East (N. Virginia) Region.

Your charges would be calculated as follows:

Amazon S3 GET request charge

S3 GET requests from the S3 Standard storage class cost $0.0004 per 1,000 requests.

S3 GET Request cost: 1,000,000 requests * $0.0004/1K requests = **$0.40**

AWS Lambda Charges

The Lambda compute cost is $0.0000167 per GB-second. GB-seconds are calculated based on the number of seconds that a Lambda function runs, adjusted by the amount of memory allocated to it.

The Lambda request price is $0.20 per 1 million requests.

Lambda compute charge: 1,000,000 requests * 1 second * 0.5 GB (512 MB/1024) memory allocated * $0.0000167 per GB-second = $8.35

Lambda request charge = 1,000,000 requests * $0.20 per 1 million requests = $0.20

Total Lambda cost = $8.35 + $0.20 = **$8.55**

S3 Object Lambda Charge
After the Lambda function filters the object, 500 KB is returned to the application at a cost of $0.005/GB of data returned.

Data Return Charge: 1,000,000 * 500 KB * $0.005/GB = **$2.50**

Total Charges:

Amazon S3 GET request charges = $0.40

AWS Lambda charges = $8.55

Amazon S3 Object Lambda charges = $2.50

Total = $11.45

S3 Select & S3 Glacier Select pricing

	Data scanned (price per GB)	**Data returned (price per GB)**
S3 Standard	$0.002	$0.0007
S3 Intelligent - Tiering	$0.002	$0.0007
S3 Standard - Infrequent Access	$0.002	$0.01
S3 Express One Zone	n/a	n/a
S3 Glacier Instant Retrieval	$0.002	$0.03
S3 Glacier Flexible Retrieval	See below	See below
Expedited	$0.02	$0.03
Standard	$0.008	$0.01
Bulk	$0.001	$0.0025
S3 Glacier Deep Archive	n/a	n/a
S3 One Zone - Infrequent Access	$0.002	$0.01