

S3 Versioning

- S3 supports versioning
- Versioning can be enabled and suspended
- Create a bucket
- upload a object
- Enable versioning

Amazon S3 > Buckets > ltstoragedemo0306

ltstoragedemo0306 [Info](#)

Objects | **Properties** | Permissions | Metrics | Management | Access Points

Bucket overview

AWS Region Asia Pacific (Mumbai) ap-south-1	Amazon Resource Name (ARN) arn:aws:s3:::ltstoragedemo0306	Creation date June 3, 2024, 09:27:50 (UTC+05:30)
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Bucket Versioning

[Edit](#)

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning
Disabled
Multi-factor authentication (MFA) delete

Edit Bucket Versioning [Info](#)

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Bucket Versioning

☐ Suspend
This suspends the creation of object versions for all operations but preserves any existing object versions.

☒ **Enable**

After enabling Bucket Versioning, you might need to update your lifecycle rules to manage previous versions of objects.

Multi-factor authentication (MFA) delete

An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

Disabled

Cancel [Save changes](#)

- upload the same file with some changes

Objects (7) Info

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

☒ Show versions

<input type="checkbox"/>	Name	Type	Version ID	Last modified	Size	Storage class
<input type="checkbox"/>	hello.txt	txt	TE.uss0E6R GGkMQKo6 xH.D0Ypka2 s3gp	June 5, 2024, 09:25:43 (UTC+05:30)	18.0 B	Standard
<input type="checkbox"/>	hello.txt	txt	null	June 5, 2024, 09:04:40 (UTC+05:30)	5.0 B	Standard
<input type="checkbox"/>	storage63.png	png	null	June 3, 2024, 09:34:13 (UTC+05:30)	65.0 KB	Standard
<input type="checkbox"/>	storage64.png	png	null	June 3, 2024, 09:34:13 (UTC+05:30)	59.6 KB	Standard
<input type="checkbox"/>	storage65.png	png	null	June 3, 2024, 09:34:13	65.5 KB	Standard

Objects (8) Info

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☒ Show versions

<input type="checkbox"/>	Name	Type	Version ID	Last modified	Size	Storage class
<input type="checkbox"/>	hello.txt	txt	ZA6AWw64 pq_qxDca_ GvaYvFQuIP pVkmm	June 5, 2024, 09:27:18 (UTC+05:30)	30.0 B	Standard
<input type="checkbox"/>	hello.txt	txt	TE.uss0E6R GGkMQKo6 xH.D0Ypka2 s3gp	June 5, 2024, 09:25:43 (UTC+05:30)	18.0 B	Standard
<input type="checkbox"/>	hello.txt	txt	null	June 5, 2024, 09:04:40 (UTC+05:30)	5.0 B	Standard
<input type="checkbox"/>	storage63.png	png	null	June 3, 2024, 09:34:13 (UTC+05:30)	65.0 KB	Standard

- Now, when we suspend versioning, existing versions will stay and aws will not create new versions

S3 Bucket Pricing

- Factors that impact cost of s3 are
 - size
 - data transfer
 - redundancy
- Terms
 - Availability
 - Durability
- S3 Storage Classes: S3 Storage class helps us in selecting
 - cost of storage
 - cost of data transfer
 - redundancy levels
- S3 Storage classes
 - Intellegent tier

- standard:
 - high storage cost
 - low data transfer cost
- standard - ia:
 - low storage cost
 - high data transfer cost
- One zone - ia
 - low storage cost
 - high data transfer cost
 - reduced redundancy
- Glacier
 - data transfer (not possible)
 - storage cost is cheapest
- Reduced redundancy
 - high storage cost
 - low data transfer cost
 - reduced redundancy
- Consider pricing
 - Scenario - 1: 10 TB storage 100 TB access
 - standard: 307.20 USD
 - storage: 235.52 USD
 - access cost: 71.68 USD
 - standard-ia: 1,152.00 USD
 - storage: 128.00 USD
 - access cost: 1,024.00 USD
 - onezone-ia: 1,126.40 USD
 - storage: 102.40 USD
 - access cost: 1,024.00 USD
 - Glacier: 10.27 USD
 - storage: 10.27 USD
 - Scenario - 2: 1000 TB access zero
 - standard: 22,138.88 USD
 - storage: 22,138.88 USD
 - access cost: 0
 - standard-ia: 13,824.00 USD
 - storage: 13,824.00 USD
 - access cost: 0
 - onezone-ia: 11,264.00 USD
 - storage: 11,264.00 USD
 - access cost: 0
 - Glacier: 1,027.24 USD
 - storage: 1,027.24 USD
 - Scenario 3: 10 TB access 10 GB
 - standard: 235.53 USD
 - storage: 235.52 USD
 - access cost: 0.007 USD

- standard-ia: 128.10 USD
 - storage: 128.00 USD
 - access cost: 0.10 USD
- onezone-ia: 102.50 USD
 - storage: 102.40 USD
 - access cost: 0.10 USD
- Glacier: 10.27 USD (Access not possible)
 - storage: 10.27 USD
- Lifecycle Transitions:
 - if you want to change the storage classes based on some patterns mostly in dates then we can create lifecycle to transition from one storage class to another and also to expire.