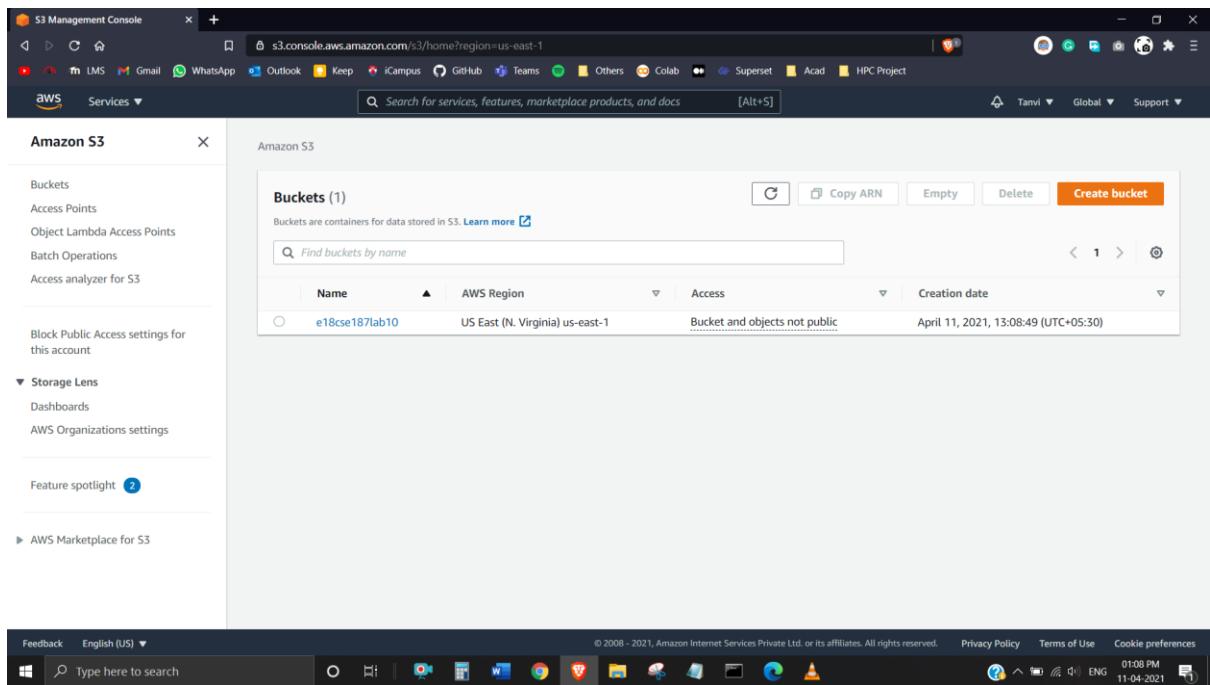


# Lab Assignment-10

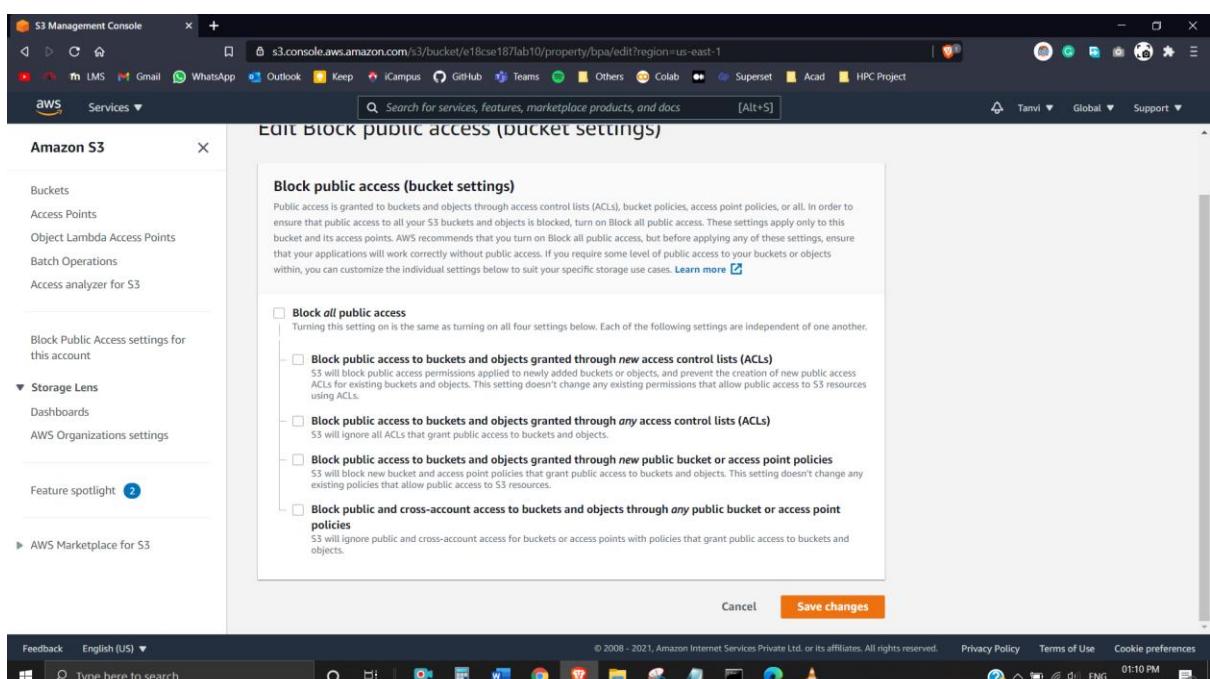
## ECSE304L: Cloud Computing

**Name:** Tanvi Penumudy  
**Enroll no:** E18CSE187  
**Batch:** EB02

### Lab Implementation (Step-by-Step):



The screenshot shows the AWS S3 Management Console. On the left, there's a sidebar with options like Buckets, Access Points, Object Lambda Access Points, Batch Operations, and Access analyzer for S3. The main area is titled 'Amazon S3' and shows a table of buckets. One bucket is listed: 'e18cse187lab10' in the 'US East (N. Virginia) us-east-1' region. The 'Access' column shows 'Bucket and objects not public' and the 'Creation date' is 'April 11, 2021, 13:08:49 (UTC+05:30)'. There are buttons for 'Copy ARN', 'Empty', 'Delete', and 'Create bucket'.



The screenshot shows the 'Edit Block public access (Bucket settings)' dialog. It has a heading 'Block public access (bucket settings)' with a sub-section 'Block all public access'. Below it, there are several checkboxes: 'Block public access to buckets and objects granted through new access control lists (ACLs)', 'Block public access to buckets and objects granted through any access control lists (ACLs)', 'Block public access to buckets and objects granted through new public bucket or access point policies', and 'Block public and cross-account access to buckets and objects through any public bucket or access point policies'. A note states: 'Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.' At the bottom right are 'Cancel' and 'Save changes' buttons.

S3 Management Console

Services ▾

Amazon S3

Buckets

Access Points

Object Lambda Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight 2

AWS Marketplace for S3

Feedback English (US) ▾

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01:10 PM 11-04-2021

Name	AWS Region	Access	Creation date
e18cse187lab10	US East (N. Virginia) us-east-1	Objects can be public	April 11, 2021, 13:08:49 (UTC+05:30)

S3 Management Console

Services ▾

Upload succeeded

View details below.

The information below will no longer be available after you navigate away from this page.

Summary

Destination	Succeeded	Failed
s3://e18cse187lab10	1 file, 7.0 B (100.00%)	0 files, 0 B (0%)

Files and folders Configuration

Files and folders (1 Total, 7.0 B)

Find by name

Name	Folder	Type	Size	Status	Error
E18CSE187_Lab10.txt	-	text/plain	7.0 B	Succeeded	-

Feedback English (US) ▾

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S3 Management Console

s3.console.aws.amazon.com/s3/buckets/e18cse187lab10?region=us-east-1&tab=objects

Services ▾

Amazon S3 > e18cse187lab10

Objects Properties Permissions Metrics Management Access Points

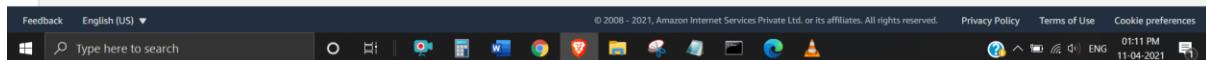
Objects (1)

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](#)

Actions Delete Create folder Upload

Find objects by prefix

Name	Type	Last modified	Size	Storage class
E18CSE187_Lab10.txt	txt	April 11, 2021, 13:11:31 (UTC+05:30)	7.0 B	Standard



S3 Management Console

s3.console.aws.amazon.com/s3/object/e18cse187lab10?region=us-east-1&prefix=E18CSE187\_Lab10.txt

Services ▾

Amazon S3 > e18cse187lab10 > E18CSE187\_Lab10.txt

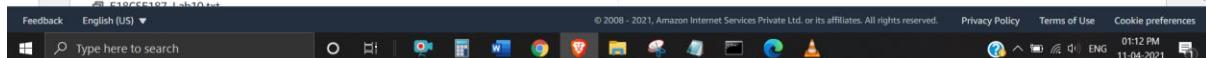
E18CSE187\_Lab10.txt

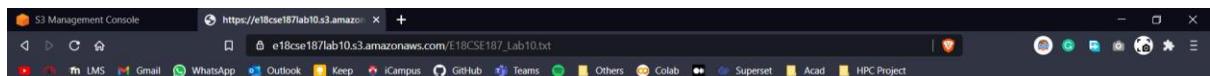
Copy S3 URI Object actions ▾

Properties Permissions Versions

Object overview

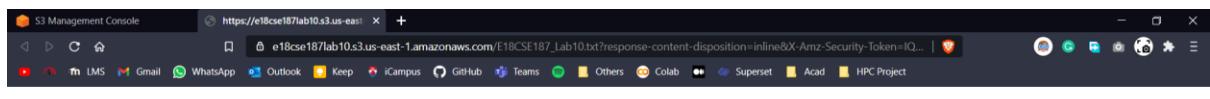
Owner	S3 URI
tp6145	<a href="s3://e18cse187lab10/E18CSE187_Lab10.txt">s3://e18cse187lab10/E18CSE187_Lab10.txt</a>
AWS Region	Amazon Resource Name (ARN)
US East (N. Virginia) us-east-1	<a href="arn:aws:s3:::e18cse187lab10/E18CSE187_Lab10.txt">arn:aws:s3:::e18cse187lab10/E18CSE187_Lab10.txt</a>
Last modified	Entity tag (Etag)
April 11, 2021, 13:11:31 (UTC+05:30)	<a href="#">b73bf7d3ba1a517644661bc4bcd85f9a</a>
Size	Object URL
7.0 B	<a href="https://e18cse187lab10.s3.amazonaws.com/E18CSE187_Lab10.txt">https://e18cse187lab10.s3.amazonaws.com/E18CSE187_Lab10.txt</a>
Type	
txt	
Key	





This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<Error>
<Code>AccessDenied</Code>
<Message>You do not have permission to perform this action.
<RequestId>XX0ATBTYahNPPIXJ</RequestId>
<HostId>Ab5IPghYL6jfzsB2o2UoQhPNaKnVtaemf3vp7DG8gPb2May/+gRObCQnGh+oH/awTxna2bNQeg=</HostId>
```



Hello



S3 Management Console https://e18cse187lab10.s3.us-east-1.amazonaws.com/ + s3.console.aws.amazon.com/s3/buckets/e18cse187lab10/object/edit\_public\_read\_access?region=us-east-1&showversions=false

Services ▾ Search for services, features, marketplace products, and docs [Alt+S]

Successfully edited public access View details below.

### Make public: status

The information below will no longer be available after you navigate away from this page.

Summary	
Source s3://e18cse187lab10	Successfully edited public access 1 object, 7.0 B
	Failed to edit public access 0 objects

**Failed to edit public access** Configuration

#### Failed to edit public access (0)

Name	Type	Last modified	Size	Error
No objects failed to edit				

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S3 Management Console https://e18cse187lab10.s3.us-east-1.amazonaws.com/ + s3.console.aws.amazon.com/s3/buckets/e18cse187lab10?region=us-east-1&tab=properties

Services ▾ Search for services, features, marketplace products, and docs [Alt+S]

### Amazon S3

Buckets Access Points Object Lambda Access Points Batch Operations Access analyzer for S3

Block Public Access settings for this account

Storage Lens Dashboards AWS Organizations settings

Feature spotlight 2

AWS Marketplace for S3

Amazon S3 e18cse187lab10

Objects Properties Permissions Metrics Management Access Points

#### Bucket overview

AWS Region	Amazon Resource Name (ARN)	Creation date
US East (N. Virginia) us-east-1	arn:aws:s3:::e18cse187lab10	April 11, 2021, 13:08:49 (UTC+05:30)

#### Bucket Versioning

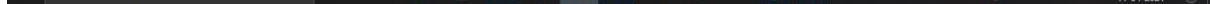
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures.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

Edit

Bucket Versioning  
Disabled

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](#)

https://s3.console.aws.amazon.com/s3/# Type here to search © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences 01:15 PM 11-04-2021



S3 Management Console https://e18cse187lab10.s3.us-east-1.amazonaws.com/ +

53.console.aws.amazon.com/s3/bucket/e18cse187lab10/property/versioning/edit?region=us-east-1

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aws Services

Amazon S3 e18cse187lab10 Edit Bucket Versioning

Buckets

- Access Points
- Object Lambda Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens Dashboards AWS Organizations settings

Feature spotlight 2

AWS Marketplace for S3

**Bucket Versioning**

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](#)

**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

Feedback English (US)

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S3 Management Console https://e18cse187lab10.s3.us-east-1.amazonaws.com/ +

53.console.aws.amazon.com/s3/buckets/e18cse187lab10?region=us-east-1&tab=properties

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aws Services

Amazon S3 e18cse187lab10

Buckets

- Access Points
- Object Lambda Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens Dashboards AWS Organizations settings

Feature spotlight 2

AWS Marketplace for S3

Successfully edited Bucket Versioning  
To transition, archive, or delete older object versions, [configure lifecycle rules](#) for this bucket.

Amazon S3 e18cse187lab10

Objects Properties Permissions Metrics Management Access Points

**Bucket overview**

AWS Region	Amazon Resource Name (ARN)	Creation date
US East (N. Virginia) us-east-1	arn:aws:s3:::e18cse187lab10	April 11, 2021, 13:08:49 (UTC+05:30)

**Bucket Versioning**

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](#)

Edit

Bucket Versioning  
Enabled

Feedback English (US)

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S3 Management Console https://e18cse187lab10.s3.us-east-1.amazonaws.com/ + s3.console.aws.amazon.com/s3/upload/e18cse187lab10?region=us-east-1

Services ▾ Search for services, features, marketplace products, and docs [Alt+S]

Upload succeeded View details below.

The information below will no longer be available after you navigate away from this page.

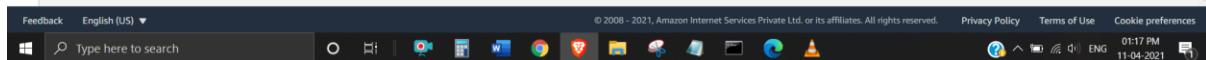
**Summary**

Destination	Succeeded	Failed
s3://e18cse187lab10	1 file, 19.0 B (100.00%)	0 files, 0 B (0%)

**Files and folders** Configuration

**Files and folders (1 Total, 19.0 B)**

Name	Folder	Type	Size	Status	Error
E18CSE187_Lab10.txt	-	text/plain	19.0 B	Succeeded	-



S3 Management Console https://e18cse187lab10.s3.us-east-1.amazonaws.com/ + s3.console.aws.amazon.com/s3/buckets/e18cse187lab10?region=us-east-1&tab=objects&showversions=true

Feedback English (US) ▾

Amazon S3 e18cse187lab10

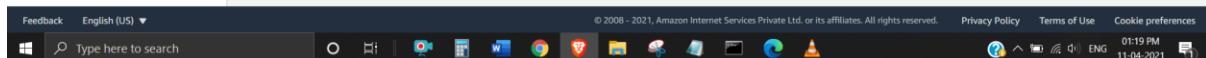
Objects Properties Permissions Metrics Management Access Points

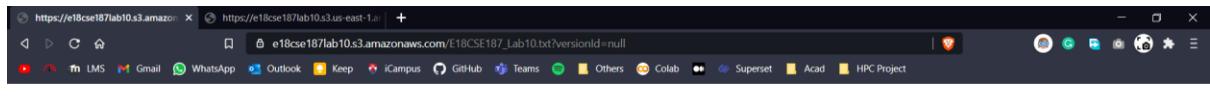
**Objects (2)**

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](#)

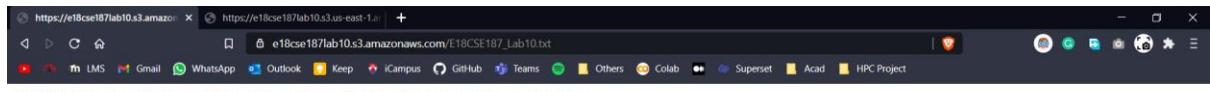
Delete Actions  Create folder  Upload  List versions

Name	Type	Version ID	Last modified	Size	Storage class
E18CSE187_Lab10.txt	txt	SvzBhlN4p4vUd2oevbYa9dND7k4G8JL	April 11, 2021, 13:17:31 (UTC+05:30)	19.0 B	Standard
E18CSE187_Lab10.txt	txt	null	April 11, 2021, 13:11:31 (UTC+05:30)	7.0 B	Standard





Hello



```
<?xml version="1.0" encoding="UTF-8"?>
<Error>
<Code>AccessDenied</Code>
<Message>Access Denied</Message>
<RequestId>9BbQZ9KGS8173V8</RequestId>
<HostId>S1n8YElhUPxrEujqag18GPXjKkgMTPcsu8JZr+1SP9Atm3lnW6334XVe6kySzHiyIs56OKnxjyo=</HostId>
</Error>
```



S3 Management Console

s3.console.aws.amazon.com/s3/buckets/e18cse187/lab10/object/edit\_public\_read\_access?region=us-east-1&showversions=false

Services ▾

Search for services, features, marketplace products, and docs [Alt+S]

Tanvi ▾ Global ▾ Support ▾

Successfully edited public access  
View details below.

Make public: status

The information below will no longer be available after you navigate away from this page.

**Summary**

Source	Successfully edited public access	Failed to edit public access
s3://e18cse187lab10	1 object, 19.0 B	0 objects

**Failed to edit public access** Configuration

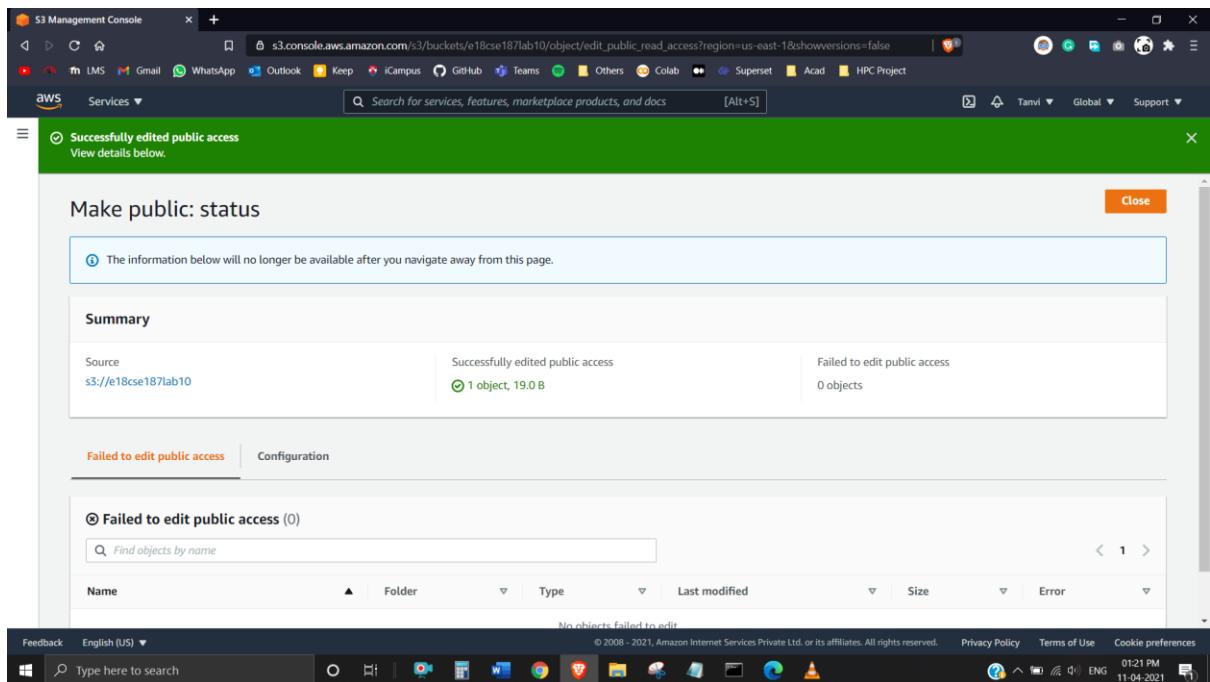
**Failed to edit public access (0)**

Name	Type	Last modified	Size	Error
No objects failed to edit				

Feedback English (US) ▾

Type here to search

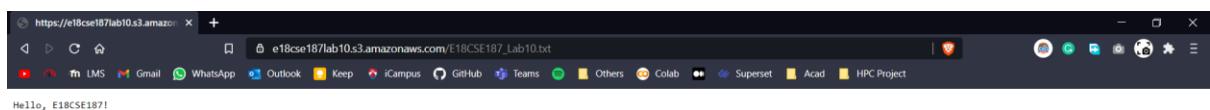
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https://e18cse187lab10.s3.amazonaws.com/

e18cse187lab10.s3.amazonaws.com/E18CSE187\_Lab10.txt

Hello, E18CSE187!



S3 Management Console

Amazon S3 > e18cse187lab10 > Delete objects

## Delete objects

**Specified objects**

Name	Type	Last modified	Size
E18CSE187_Lab10.txt	txt	April 11, 2021, 13:17:31 (UTC+05:30)	19.0 B

**Delete objects?**

To confirm deletion, type *delete* in the text input field.

**Cancel** **Delete objects**

Feedback English (US) ▾

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S3 Management Console

Amazon S3 > e18cse187lab10 > Delete objects

## Delete objects: status

The information below will no longer be available after you navigate away from this page.

**Summary**

Source	Successfully deleted	Failed to delete
s3://e18cse187lab10	1 object, 19.0 B	0 objects

**Failed to delete** Configuration

**Failed to delete (0)**

Name	Folder	Type	Last modified	Size	Error
No objects failed to delete.					

Feedback English (US) ▾

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S3 Management Console

Amazon S3 > e18cse187lab10

Objects (3)

Name	Type	Version ID	Last modified	Size	Storage class
E18CSE187_Lab10.txt	Delete marker	95_lyKvdvGmSw6MqKZYNCHqvleGzGZZC	April 11, 2021, 13:23:29 (UTC+05:30)	0 B	-
E18CSE187_Lab10.txt	txt	SvzBhIN4p4vUd2oeovbYa9dND7k4G8JL	April 11, 2021, 13:17:31 (UTC+05:30)	19.0 B	Standard
E18CSE187_Lab10.txt	txt	null	April 11, 2021, 13:11:31 (UTC+05:30)	7.0 B	Standard

Feedback English (US) ▾

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S3 Management Console

Amazon S3 > e18cse187lab10 > Delete objects

Delete objects

⚠ Deleting the specified objects can't be undone.  
Learn more ↗

Specified objects

Name	Version ID	Type	Last modified	Size
E18CSE187_Lab10.txt	95_lyKvdvGmSw6MqKZYNCHqvleGzGZZC	Delete marker	April 11, 2021, 13:23:29 (UTC+05:30)	0 B

Permanently delete objects?

To confirm deletion, type *permanently delete* in the text input field.

permanently delete

Cancel Delete objects

Feedback English (US) ▾

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S3 Management Console

Successfully deleted objects

Delete objects: status

The information below will no longer be available after you navigate away from this page.

**Summary**

Source	Successfully deleted	Failed to delete
s3://e18cse187lab10	1 object	0 objects

**Failed to delete** Configuration

**Failed to delete (0)**

Name	Folder	Version ID	Type	Last modified	Size	Error
No objects failed to delete						

Feedback English (US) ▾

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This screenshot shows the AWS S3 Management Console. A success message at the top indicates 'Successfully deleted objects'. Below it, a 'Delete objects: status' section shows a summary table with one successfully deleted object from the source 's3://e18cse187lab10'. The 'Failed to delete' tab is selected, showing a table with zero entries. The bottom part of the screen displays the AWS navigation bar and system status indicators.

S3 Management Console

Amazon S3

Buckets

- Access Points
- Object Lambda Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Amazon S3 > e18cse187lab10

Objects (1)

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](#)

**Actions** Delete Actions Create folder Upload

**Find objects by prefix**

**List versions**

Name	Type	Last modified	Size	Storage class
E18CSE187_Lab10.txt	txt	April 11, 2021, 13:17:31 (UTC+05:30)	19.0 B	Standard

Feedback English (US) ▾

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This screenshot shows the AWS S3 Management Console with the 'e18cse187lab10' bucket selected. The left sidebar has 'Buckets' selected. The main area shows the 'Objects' tab with one object named 'E18CSE187\_Lab10.txt'. The object details show it's a text file ('txt') from April 11, 2021, at 13:17:31 UTC+05:30, 19.0 B in size, and stored in the 'Standard' storage class. The bottom part of the screen displays the AWS navigation bar and system status indicators.

S3 Management Console x

s3.console.aws.amazon.com/s3/bucket/create?region=ap-south-1

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Services ▾

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Tanvi Global Support

Amazon S3 > Create bucket

## Create bucket

Buckets are containers for data stored in S3. [Learn more](#)

### General configuration

Bucket name: e18cse187lab10-replica

AWS Region: Asia Pacific (Mumbai) ap-south-1

Copy settings from existing bucket - optional  
Only the bucket settings in the following configuration are copied.

Choose bucket

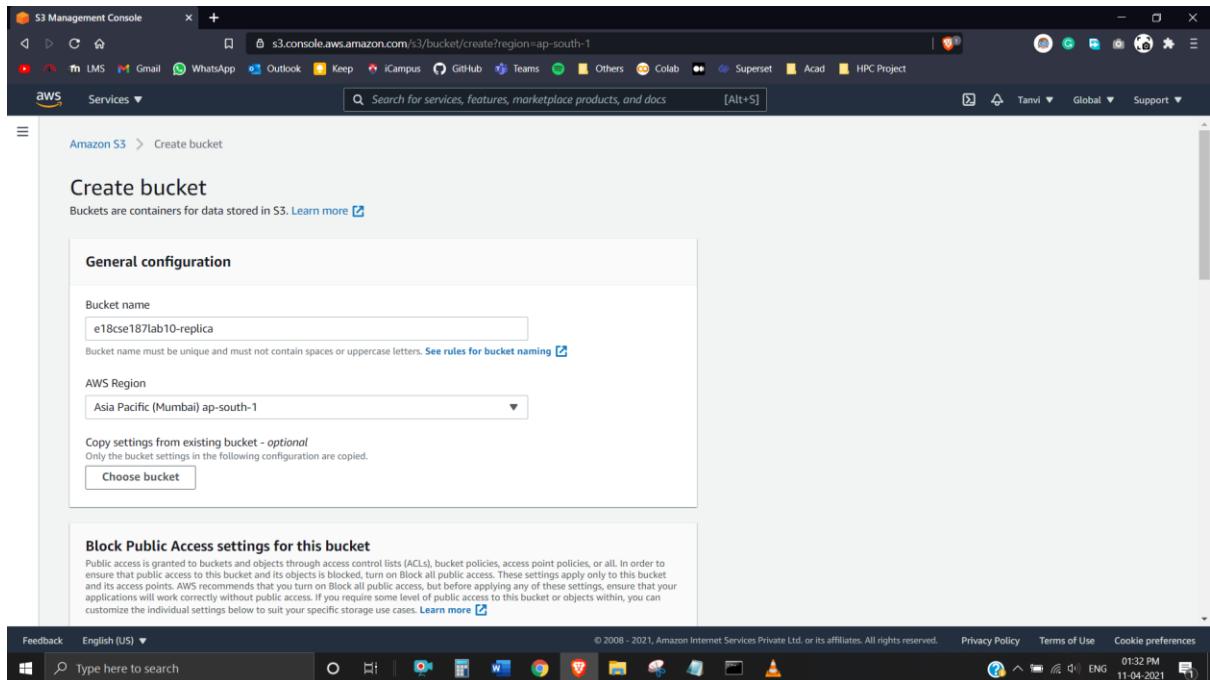
### Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Feedback English (US) ▾

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S3 Management Console x

s3.console.aws.amazon.com/s3/bucket/create?region=ap-south-1

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Services ▾

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Tanvi Global Support

### Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

**Block all public access**  
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- Block public access to buckets and objects granted through new access control lists (ACLs)**  
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- Block public access to buckets and objects granted through any access control lists (ACLs)**  
S3 will ignore all ACLs that grant public access to buckets and objects.
- Block public access to buckets and objects granted through new public bucket or access point policies**  
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- Block public and cross-account access to buckets and objects through any public bucket or access point policies**  
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

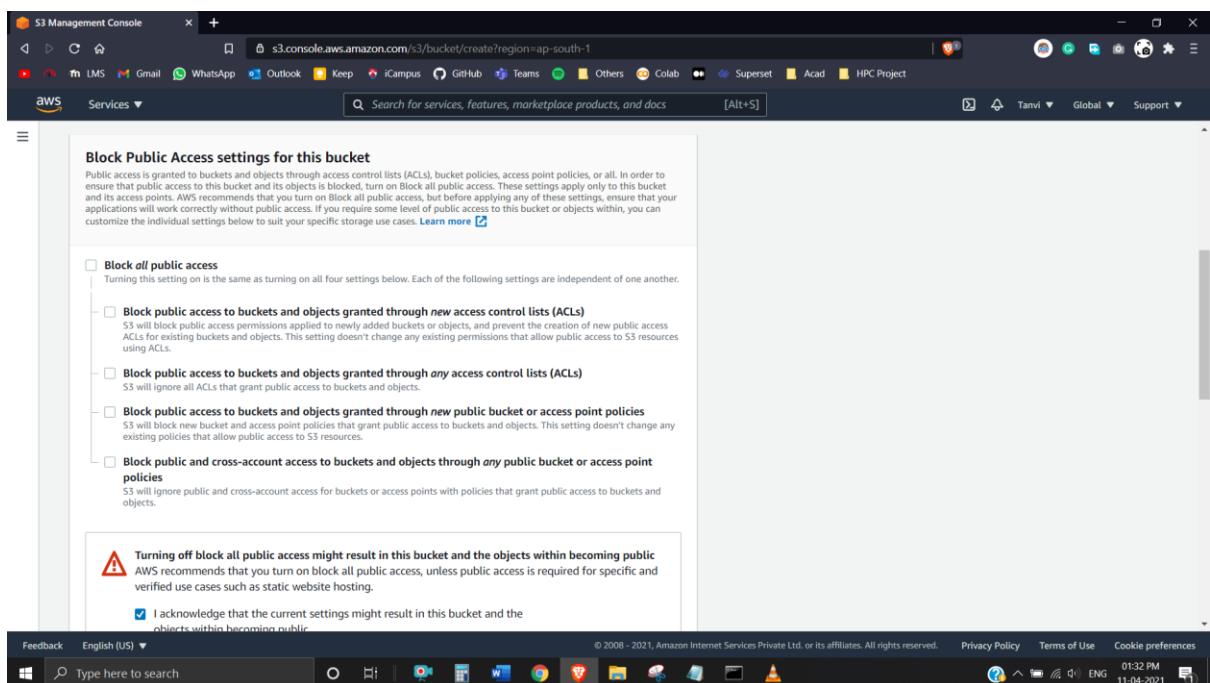
**⚠️ Turning off block all public access might result in this bucket and the objects within becoming public**  
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

I acknowledge that the current settings might result in this bucket and the objects within becoming public

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S3 Management Console

s3.console.aws.amazon.com/s3/bucket/create?region=ap-south-1

Services ▾

Bucket Versioning

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

Disable

Enable

Tags (0) - optional

Track storage cost or other criteria by tagging your bucket. [Learn more](#)

No tags associated with this bucket.

Add tag

Default encryption

Automatically encrypt new objects stored in this bucket. [Learn more](#)

Server-side encryption

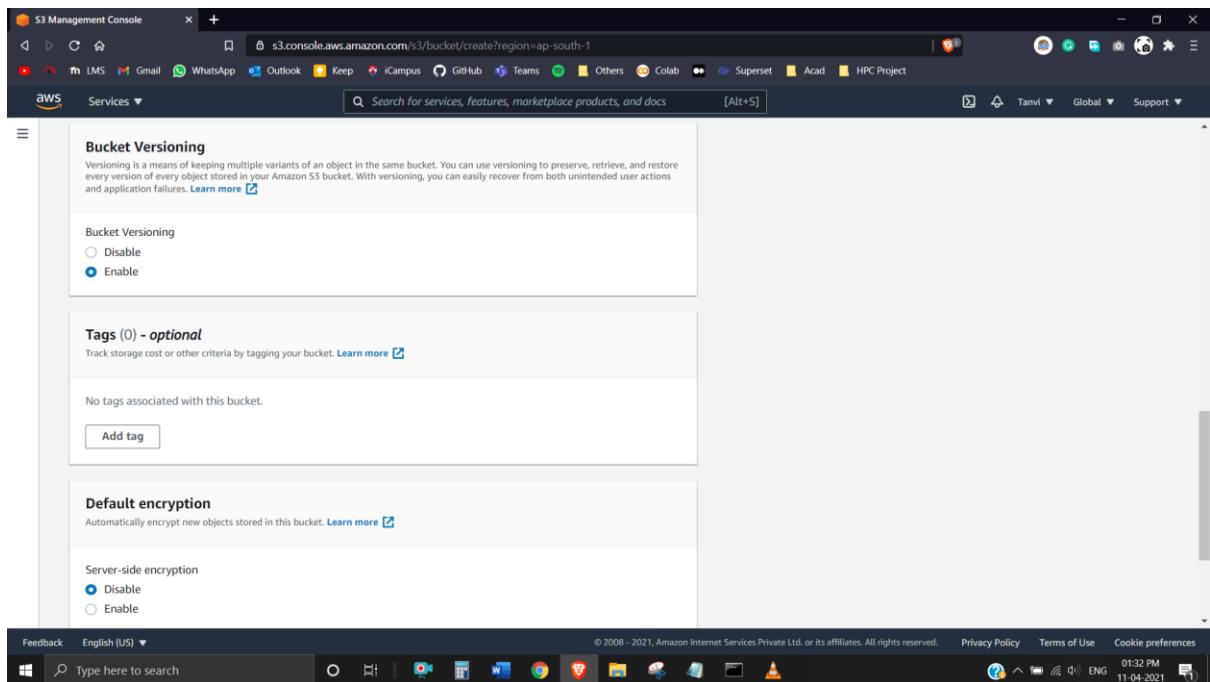
Disable

Enable

Feedback English (US) ▾

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S3 Management Console

s3.console.aws.amazon.com/s3/home?region=ap-south-1

Services ▾

Amazon S3

Successfully created bucket "e18cse187lab10-replica"  
To upload files and folders, or to configure additional bucket settings choose [View details](#).

View details

Buckets

Access Points

Object Lambda Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Buckets (3)

Buckets are containers for data stored in S3. [Learn more](#)

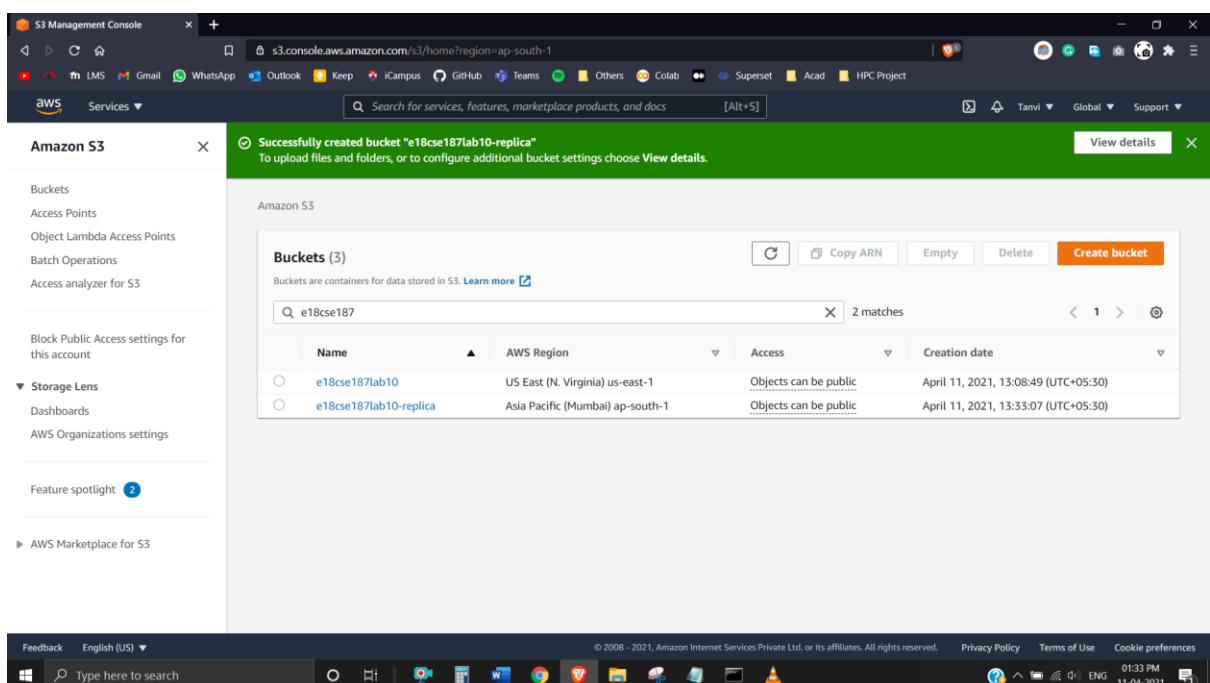
Name AWS Region Access Creation date

Name	AWS Region	Access	Creation date
e18cse187lab10	US East (N. Virginia) us-east-1	Objects can be public	April 11, 2021, 13:08:49 (UTC+05:30)
e18cse187lab10-replica	Asia Pacific (Mumbai) ap-south-1	Objects can be public	April 11, 2021, 13:33:07 (UTC+05:30)

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S3 Management Console

Services ▾

Amazon S3 > e18cse187lab10 > Replication rules > Create replication rule

## Create replication rule

**Replication rule configuration**

Replication rule name: bucketreplicationrule  
Up to 255 characters.

Status: Enabled

Priority: 0

**Source bucket**

Source bucket name: e18cse187lab10

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This screenshot shows the 'Create replication rule' configuration page in the AWS S3 Management Console. The 'Replication rule configuration' section contains a 'Replication rule name' field set to 'bucketreplicationrule'. The 'Status' section has 'Enabled' selected. The 'Priority' field is set to 0. The 'Source bucket' section shows 'e18cse187lab10' as the source bucket. The bottom navigation bar includes links for Feedback, English (US), Type here to search, Privacy Policy, Terms of Use, and Cookie preferences, along with system status information like the date and time.

S3 Management Console

Services ▾

## Source bucket

Source bucket name: e18cse187lab10

Source Region: US East (N. Virginia) us-east-1

Choose a rule scope:  
 Limit the scope of this rule using one or more filters  
 This rule applies to *all* objects in the bucket

## Destination

Destination  
You can replicate objects across buckets in different AWS Regions (Cross-Region Replication) or you can replicate objects across buckets in the same AWS Region (Same-Region Replication). You also specify a different bucket for each rule in the configuration. [Learn more](#) or see [Amazon S3 pricing](#)

Choose a bucket in this account  
 Specify a bucket in another account

Bucket name: e18cse187lab10-replica

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This screenshot continues the configuration of the replication rule. It shows the 'Source bucket' section with 'e18cse187lab10' and the 'Source Region' set to 'us-east-1'. The 'Rule scope' is set to apply to all objects. The 'Destination' section shows the 'Bucket name' as 'e18cse187lab10-replica'. The bottom navigation bar includes links for Feedback, English (US), Type here to search, Privacy Policy, Terms of Use, and Cookie preferences, along with system status information like the date and time.

S3 Management Console

s3.console.aws.amazon.com/s3/management/e18cse187lab10/replication/create?region=us-east-1

Services ▾

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**Destination**

Destination  
You can replicate objects across buckets in different AWS Regions (Cross-Region Replication) or you can replicate objects across buckets in the same AWS Region (Same-Region Replication). You can also specify a different bucket for each rule in the configuration. [Learn more](#) or see [Amazon S3 pricing](#)

Choose a bucket in this account

Specify a bucket in another account

Bucket name  
Choose the bucket that will receive replicated objects.

e18cse187lab10-replica [Browse S3](#)

Destination Region  
Asia Pacific (Mumbai) ap-south-1

**IAM role**

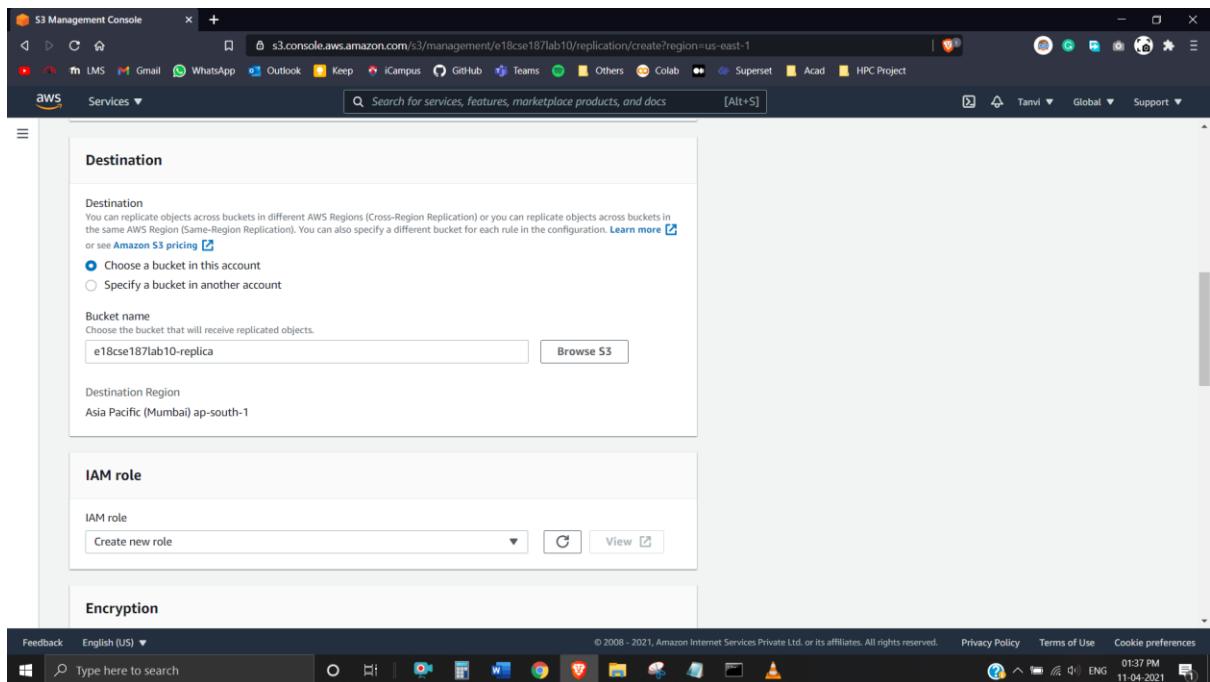
IAM role  
[Create new role](#) [View](#)

**Encryption**

Feedback English (US) ▾

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S3 Management Console

s3.console.aws.amazon.com/s3/management/e18cse187lab10/replication/create?region=us-east-1

Services ▾

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**IAM role**

IAM role  
[Create new role](#) [View](#)

**Encryption**

Replicate objects encrypted with AWS KMS  
You can use replication for AWS Key Management Service encrypted objects to replicate data encrypted using AWS KMS across AWS Regions.

**Destination storage class**

Amazon S3 offers a range of storage classes designed for different use cases. [Learn more](#) or see [Amazon S3 pricing](#)

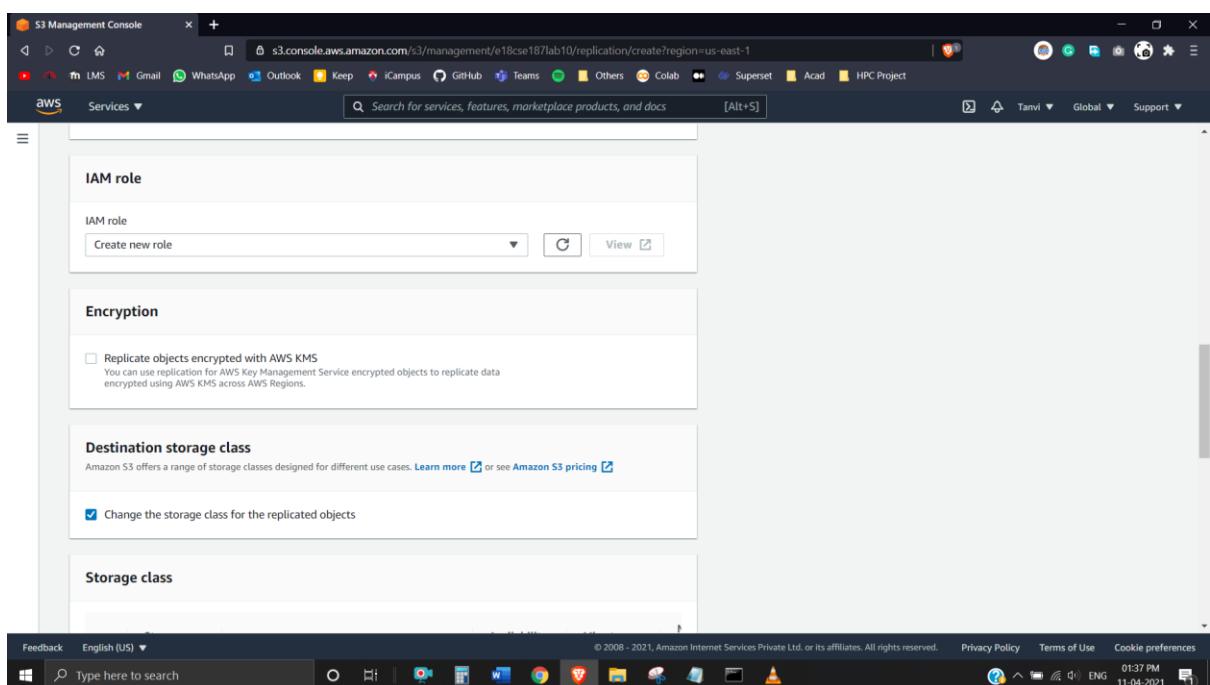
Change the storage class for the replicated objects

**Storage class**

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S3 Management Console

s3.console.aws.amazon.com/s3/management/e18cse187lab10/replication/create?region=us-east-1

Services ▾

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Change the storage class for the replicated objects

**Storage class**

Storage class	Designed for	Availability Zones	Min storage duration
Standard	Frequently accessed data	≥ 3	-
Standard-IA	Long-lived, infrequently accessed data	≥ 3	30 days
One Zone- IA	Long-lived, infrequently accessed, non-critical data	1	30 days
Reduced redundancy	Frequently accessed, non-critical data	≥ 3	-
Intelligent-Tiering	Long-lived data with changing or unknown access patterns	≥ 3	30 days
Glacier	Long-term data archiving with retrieval times ranging from minutes to hours	≥ 3	90 days
Glacier Deep Archive	Long-term data archiving with retrieval times within 12 hours	≥ 3	180 days

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S3 Management Console

s3.console.aws.amazon.com/s3/management/e18cse187lab10/replication/create?region=us-east-1

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Glacier Long-term data archiving with retrieval times ranging from minutes to hours ≥ 3 90 days

Glacier Deep Archive Long-term data archiving with retrieval times within 12 hours ≥ 3 180 days

**Additional replication options**

**Replication Time Control (RTC)**  
Replication Time Control replicates 99.99% of new objects within 15 minutes and provides replication metrics and notifications. Additional fees will apply. Learn more ↗

**Replication metrics and notifications**  
Monitor the progress of your replication rule through Cloudwatch Metrics. Cloudwatch metrics fees apply. Learn more ↗ or see Amazon Cloudwatch pricing ↗

**Delete marker replication**  
Delete markers created by S3 delete operations will be replicated. Delete markers created by lifecycle rules are not replicated. Learn more ↗

**Replica modification sync**  
Replicate metadata changes made to replicas in this bucket to the destination bucket. Learn more ↗

Cancel Save

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S3 Management Console x

s3.console.aws.amazon.com/s3/management/e18cse187lab10/replication?region=us-east-1

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Services ▾

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Replication configuration successfully updated  
Press the refresh button if changes to the configuration are not displayed.

Amazon S3 > e18cse187lab10 > Replication rules

## Replication rules

Replication enables automatic and asynchronous copying of objects across buckets in the same or different AWS Regions. A replication configuration is a set of rules that define what options should be applied to a group of objects during replication.

**Replication configuration settings**

Configuration settings affect all replication rules in the bucket.

Source bucket: e18cse187lab10

Source Region: US East (N. Virginia) us-east-1

IAM role: s3crrole\_for\_e18cse187lab10

**Replication rules (1)**

Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. [Learn more](#)

C View details Edit rule Delete Actions ▾ Create replication rule

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s3.console.aws.amazon.com/s3/management/e18cse187lab10/replication?region=us-east-1

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Replication configuration successfully updated  
Press the refresh button if changes to the configuration are not displayed.

**Replication configuration settings**

Configuration settings affect all replication rules in the bucket.

Source bucket: e18cse187lab10

Source Region: US East (N. Virginia) us-east-1

IAM role: s3crrole\_for\_e18cse187lab10

**Replication rules (1)**

Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. [Learn more](#)

C View details Edit rule Delete Actions ▾ Create replication rule

Replication rule name	Status	Destination bucket	Destination Region	Priority	Scope	Storage class	Replica owner	Replication Time Control	KMS-encrypted objects	Replica modification sync
bucketreplicationrule	Enabled	s3://e18cse187lab10-replica	Asia Pacific (Mumbai) ap-south-1	0	Entire bucket	Transition to Standard-IA	Same as source	Disabled	Do not replicate	Disabled

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The screenshot shows the AWS S3 Management Console with a green header bar indicating "Upload succeeded". The main content area displays the upload status with a summary table and a "Files and folders" section below it.

**Upload: status**

The information below will no longer be available after you navigate away from this page.

Summary		
Destination s3://e18cse187lab10	Succeeded 1 file, 19.0 B (100.0%)	Failed 0 files, 0 B (0%)

**Files and folders** (1 Total, 19.0 B)

Name	Folder	Type	Size	Status	Error
File1.txt		Text	19.0 B	Success	

S3 Management Console x + s3.console.aws.amazon.com/s3/buckets/e18cse187lab10?region=us-east-1&tab=objects

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Amazon S3 > e18cse187lab10

## e18cse187lab10

Objects Properties Permissions Metrics Management Access Points

### Objects (2)

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](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	E18CSE187_Lab10 File 2.txt	txt	April 11, 2021, 13:40:19 (UTC+05:30)	19.0 B	Standard
<input type="checkbox"/>	E18CSE187_Lab10.txt	txt	April 11, 2021, 13:17:31 (UTC+05:30)	19.0 B	Standard

S3 Management Console

Amazon S3

Buckets

- Access Points
- Object Lambda Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

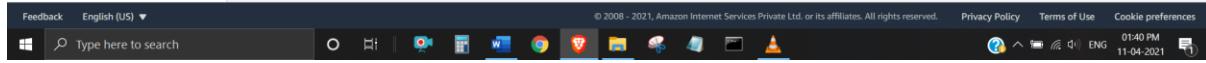
Feature spotlight

AWS Marketplace for S3

Objects (1)

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](#)

Name	Type	Last modified	Size	Storage class
E18CSE187_Lab10 File 2.txt	txt	April 11, 2021, 13:40:19 (UTC+05:30)	19.0 B	Standard-IA



S3 Management Console

SuccessFully edited public access

View details below:

Make public: status

The information below will no longer be available after you navigate away from this page.

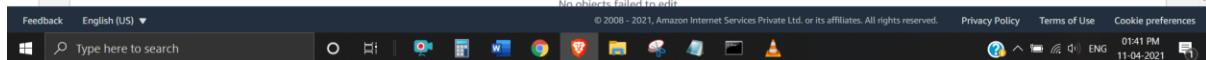
Summary

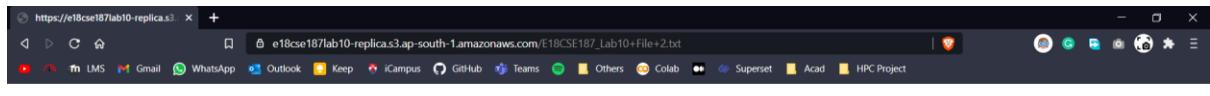
Source	Successfully edited public access	Failed to edit public access
s3://e18cse187lab10	1 object, 19.0 B	0 objects

Failed to edit public access Configuration

Failed to edit public access (0)

Name	Type	Last modified	Size	Error
No objects failed to edit				





A screenshot of the AWS S3 Management Console. The URL in the address bar is: <https://s3.console.aws.amazon.com/s3/buckets/e18cse187lab10/object/delete/?region=us-east-1&showversions=false>. A green banner at the top states "Successfully deleted objects". Below it, a section titled "Delete objects: status" shows a summary table:

Source	Successfully deleted	Failed to delete
s3://e18cse187lab10	1 object, 19.0 B	0 objects

The "Failed to delete" tab is selected, showing a table with zero entries. The bottom of the screen shows the Windows taskbar and system tray.

S3 Management Console

Amazon S3

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- Access analyzer for S3

Block Public Access settings for this account

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Feature spotlight

AWS Marketplace for S3

Objects (1)

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](#)

Name	Type	Last modified	Size	Storage class
E18CSE187_Lab10.txt	txt	April 11, 2021, 13:17:31 (UTC+05:30)	19.0 B	Standard

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S3 Management Console

Amazon S3

Buckets

- Access Points
- Object Lambda Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Objects (1)

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](#)

Name	Type	Last modified	Size	Storage class
E18CSE187_Lab10 File 2.txt	txt	April 11, 2021, 13:40:19 (UTC+05:30)	19.0 B	Standard-IA

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S3 Management Console

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Amazon S3

Buckets

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- Object Lambda Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight 2

AWS Marketplace for S3

e18cse187lab10

Objects (4)

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](#)

Actions

Upload

Find objects by prefix

List versions

Name	Type	Version ID	Last modified	Size	Storage class
E18CSE187_Lab10 File 2.txt	Delete marker	IHev0AGeERyZNHpp0iXODmXnLcq7qZ3	April 11, 2021, 13:46:17 (UTC+05:30)	0 B	-
E18CSE187_Lab10 File 2.txt	txt	Ojs6GKnpg5zvwMWCr79yj37NgRK3qt3x	April 11, 2021, 13:40:19 (UTC+05:30)	19.0 B	Standard
E18CSE187_Lab10.txt	txt	SvzBhln4p4vUd2oeovbYa9dND7k4G8JL	April 11, 2021, 13:17:31 (UTC+05:30)	19.0 B	Standard
E18CSE187_Lab10.txt	txt	null	April 11, 2021, 13:11:31 (UTC+05:30)	7.0 B	Standard

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S3 Management Console

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Successfully deleted objects

View details below.

Delete objects: status

The information below will no longer be available after you navigate away from this page.

Summary

Source	Successfully deleted	Failed to delete
s3://e18cse187lab10	1 object	0 objects

Failed to delete Configuration

Failed to delete (0)

No objects failed to delete

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▼ Storage Lens

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AWS Organizations settings

Feature spotlight 2

► AWS Marketplace for S3

Amazon S3 > e18cse187lab10

Objects (2)

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](#)

Name	Type	Last modified	Size	Storage class
E18CSE187_Lab10 File 2.txt	txt	April 11, 2021, 13:40:19 (UTC+05:30)	19.0 B	Standard
E18CSE187_Lab10.txt	txt	April 11, 2021, 13:17:31 (UTC+05:30)	19.0 B	Standard

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Amazon S3

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Dashboards

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Feature spotlight 2

► AWS Marketplace for S3

Amazon S3 > e18cse187lab10-replica

Objects (0)

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](#)

Name	Type	Last modified	Size	Storage class
No objects				

You don't have any objects in this bucket.

Upload

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S3 Management Console

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Feature spotlight

AWS Marketplace for S3

Objects (2)

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](#)

Name	Type	Version ID	Last modified	Size	Storage class
E18CSE187_Lab10 File 2.txt	Delete marker	_JpLFKmEX7UpXjMyBJNyrTmE2lcGXJ7x	April 11, 2021, 13:47:30 (UTC+05:30)	0 B	-
E18CSE187_Lab10 File 2.txt	txt	Ojs6GKnpg5zvvvMWc79yj57NgRK3qT3x	April 11, 2021, 13:40:19 (UTC+05:30)	19.0 B	Standard-IA

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S3 Management Console

Amazon S3

e18cse187lab10

Lifecycle configuration

Create lifecycle rule

Lifecycle rule configuration

Lifecycle rule name: lifecyclerule

Choose a rule scope:

- Limit the scope of this rule using one or more filters
- This rule applies to **all** objects in the bucket

**Warning:** This rule applies to **all** objects in the bucket. If you want the rule to apply to specific objects, you must use a filter to identify those objects. Choose "Limit the scope of this rule using one or more filters". [Learn more](#)

I acknowledge that this rule will apply to all objects in the bucket.

Lifecycle rule actions

Choose the actions you want this rule to perform. Per-request fees apply. [Learn more](#) or see [Amazon S3 pricing](#)

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s3.console.aws.amazon.com/s3/management/e18cse187lab10/lifecycle/create?region=us-east-1

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I acknowledge that this rule will apply to all objects in the bucket.

**Lifecycle rule actions**  
Choose the actions you want this rule to perform. Per-request fees apply. [Learn more](#) or see [Amazon S3 pricing](#)

Transition *current* versions of objects between storage classes  
 Transition *previous* versions of objects between storage classes  
 Expire *current* versions of objects  
 Permanently delete *previous* versions of objects  
 Delete expired delete markers or incomplete multipart uploads  
When a lifecycle rule is scoped with tags, these actions are unavailable.

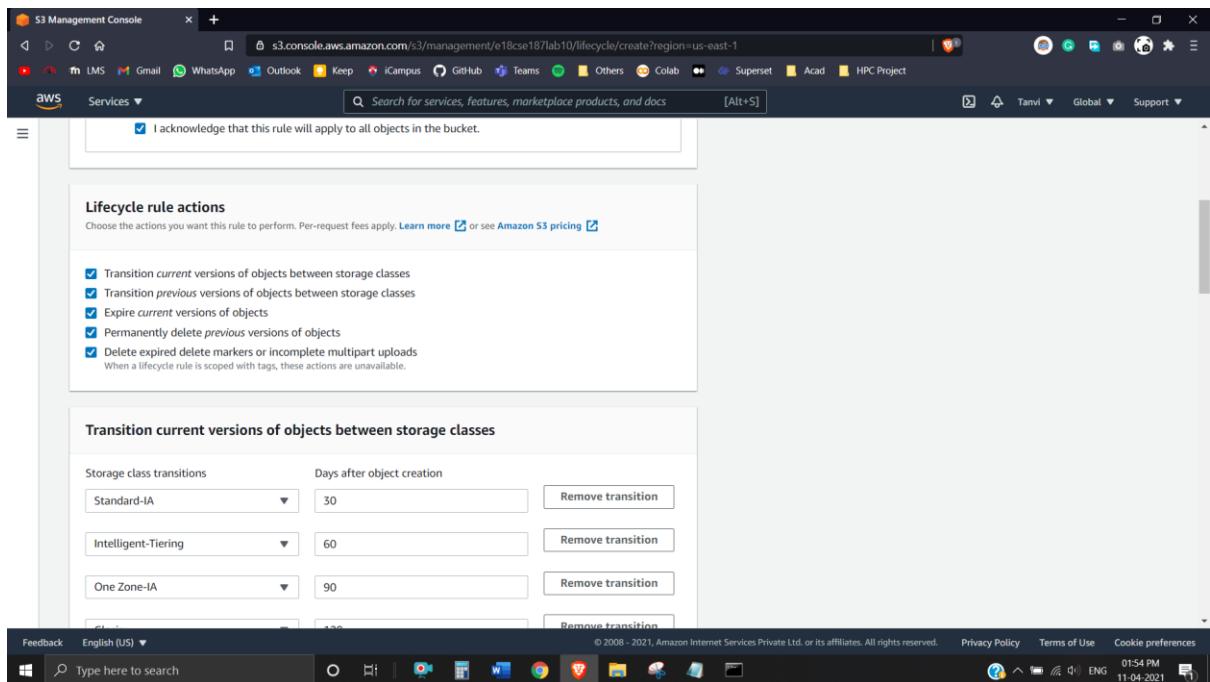
**Transition current versions of objects between storage classes**

Storage class transitions	Days after object creation	Remove transition
Standard-IA	30	Remove transition
Intelligent-Tiering	60	Remove transition
One Zone-IA	90	Remove transition
Glacier	120	Remove transition

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s3.console.aws.amazon.com/s3/management/e18cse187lab10/lifecycle/create?region=us-east-1

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**Transition current versions of objects between storage classes**

Storage class transitions	Days after object creation	Remove transition
Standard-IA	30	Remove transition
Intelligent-Tiering	60	Remove transition
One Zone-IA	90	Remove transition
Glacier	120	Remove transition

Add transition

**⚠️ Transitioning small objects to Glacier or Glacier Deep Archive will increase costs**  
Before creating a lifecycle rule that transitions small objects to Glacier or Glacier Deep Archive, consider how many objects will be transitioned and how long you plan to keep the objects. Lifecycle request charges for these objects will increase your costs. [Learn more](#) or see [Amazon S3 pricing](#)

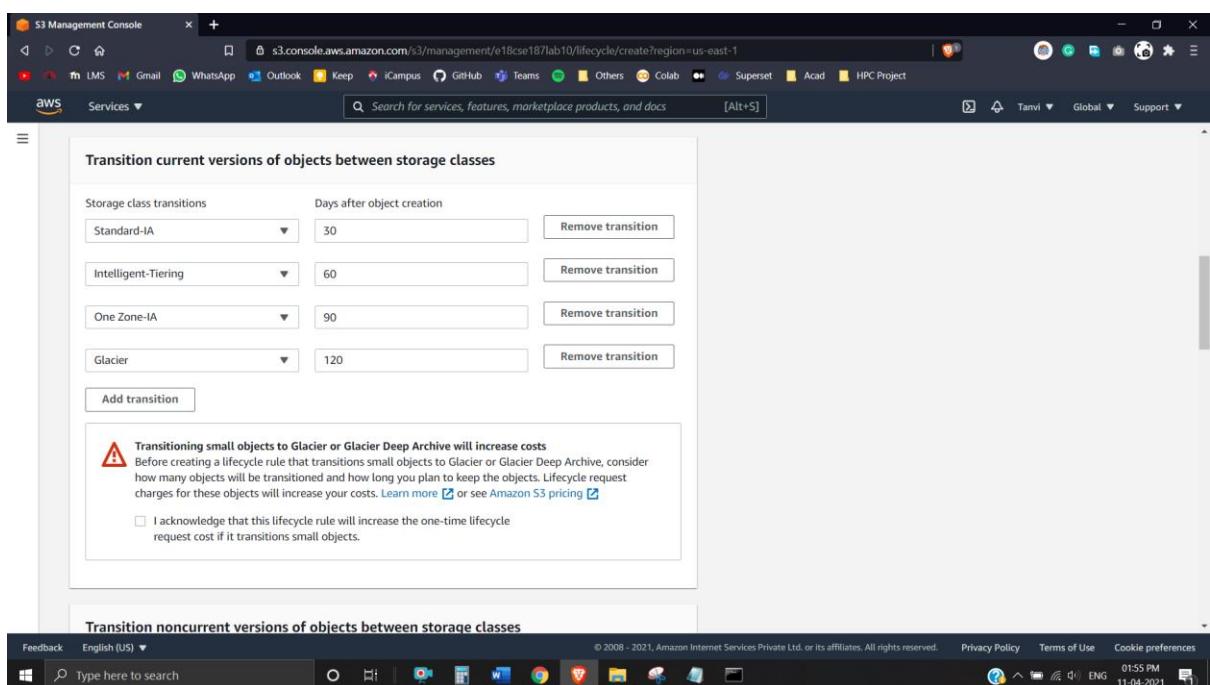
I acknowledge that this lifecycle rule will increase the one-time lifecycle request cost if it transitions small objects.

**Transition noncurrent versions of objects between storage classes**

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S3 Management Console

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Services ▾

Transition current versions of objects between storage classes

Storage class transitions Days after object creation

- Standard-IA ▾ 30 Remove transition
- Intelligent-Tiering ▾ 60 Remove transition
- One Zone-IA ▾ 90 Remove transition

Add transition

Transition noncurrent versions of objects between storage classes

Storage class transitions Days after objects become noncurrent

- Standard-IA ▾ A valid integer value is required. Remove transition

Add transition

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This screenshot shows the 'Transition current versions of objects between storage classes' section. It lists three storage class transitions: Standard-IA (30 days), Intelligent-Tiering (60 days), and One Zone-IA (90 days). Each entry has a 'Remove transition' button. Below this is a section for transitioning noncurrent versions, which currently has no entries.

S3 Management Console

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Services ▾

Add transition

Expire current versions of objects

For version-enabled buckets, Amazon S3 adds a delete marker and the current version of an object is retained as a previous version. For non-versioned buckets, Amazon S3 permanently removes the object. [Learn more](#)

Number of days after object creation

365

Permanently delete previous versions of objects

Number of days after objects become previous versions

365

Delete expired delete markers or incomplete multipart uploads

Expired object delete markers

This action will remove expired object delete markers and may improve performance. An expired object delete marker is retained if all previous versions of an object expire after deleting a versioned object. This action is not available when "Expire current versions of objects" is selected. [Learn more](#)

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This screenshot shows the 'Expire current versions of objects' and 'Permanently delete previous versions of objects' sections. Both sections have a 'Number of days' input field set to 365. Below these are sections for 'Delete expired delete markers' and 'Delete incomplete multipart uploads', both of which have descriptive text and 'Learn more' links.

S3 Management Console

s3.console.aws.amazon.com/s3/management/e18cse187lab10/lifecycle/create?region=us-east-1

Services ▾

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Delete expired delete markers or incomplete multipart uploads

Expired object delete markers  
This action will remove expired object delete markers and may improve performance. An expired object delete marker is retained if all previous versions of an object expire after deleting a versioned object. This action is not available when "Expire current versions of objects" is selected. [Learn more](#)

Delete expired object delete markers

ⓘ You cannot enable Delete expired object delete markers if you enable Expire current versions of objects.

Incomplete multipart uploads  
This action will stop all incomplete multipart uploads, and the parts associated with the multipart upload will be deleted. [Learn more](#)

Delete incomplete multipart uploads

Number of days  
7

Integer must be greater than 0.

Timeline summary

Current version actions	Previous version actions
Day 0	Day 0

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S3 Management Console

s3.console.aws.amazon.com/s3/management/e18cse187lab10/lifecycle/create?region=us-east-1

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Number of days  
7

Integer must be greater than 0.

Timeline summary

Current version actions	Previous version actions
Day 0	Day 0
Objects uploaded	Objects become noncurrent
↓	↓
Day 30	Day 365
Objects transition to Standard-IA	Objects are permanently deleted
↓	↓
Day 60	Day --
Objects transition to Intelligent-Tiering	Objects transition to Standard-IA
↓	
Day 90	
Objects transition to One Zone-IA	
↓	

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S3 Management Console

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Current version actions

- Day 0 Objects uploaded
- ↓
- Day 30 Objects transition to Standard-IA
- ↓
- Day 60 Objects transition to Intelligent-Tiering
- ↓
- Day 90 Objects transition to One Zone-IA
- ↓
- Day 365 Objects expire

Previous version actions

- Day 0 Objects become noncurrent
- ↓
- Day 365 Objects are permanently deleted
- ↓
- Day -- Objects transition to Standard-IA

Create rule

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S3 Management Console

The lifecycle configuration was updated. Lifecycle rule "lifecyclerule" was successfully added.

It may take some time for the configuration to be updated. Press the refresh button if changes to the rule are not displayed.

Amazon S3 > e18cse187lab10 > Lifecycle configuration

## Lifecycle configuration

To manage your objects so that they are stored cost effectively throughout their lifecycle, configure their lifecycle. A lifecycle configuration is a set of rules that define actions that Amazon S3 applies to a group of objects. Lifecycle rules run once per day.

### Lifecycle rules (1)

Use lifecycle rules to define actions you want Amazon S3 to take during an object's lifetime such as transitioning objects to another storage class, archiving them, or deleting them after a specified period of time. [Learn more](#)

Lifecycle rule name	Status	Scope	Current version actions	Previous version actions	Expired object delete markers	Incomplete multipart uploads
<a href="#">lifecyclerule</a>	<a href="#">Enabled</a>	Entire bucket	Transition to Standard-IA, then Intelligent-Tiering, then One Zone-IA, then expires	Permanently delete	-	Permanently delete

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