

Lab 2 Create Buckets, Versioning, and Permissions

In the challenge, you will create an S3 Bucket that has version control enabled, upload a file, and then make the file publicly accessible. Note: Once you begin a challenge you will not be able to pause, save, or return to your progress. Please ensure you have set aside enough time to complete the challenge before you start.

Task 1: Create s3 bucket

S3 -> create bucket

Create S3 bucket | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/bucket/create?region=us-east-2&bucketType=general

aws Search [Alt+S] United States (Ohio) LabUserRole/LabUserIod51562023 @ 8675-1266-4153

Amazon S3 > Buckets > Create bucket

Buckets are containers for data stored in S3.

General configuration

AWS Region
US East (Ohio) us-east-2

Bucket type [Info](#)

☒ **General purpose**
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ **Directory**
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name [Info](#)

lab-51562023

Bucket names must be 3 to 63 characters and unique within the global namespace. Bucket names must also begin and end with a letter or number. Valid characters are a-z, 0-9, periods (.), and hyphens (-). [Learn More](#)

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

[Choose bucket](#)

Format: s3://bucket/prefix

CloudShell Feedback © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Air: Poor Now Search 1:29 PM 5/22/2025

Create S3 bucket | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/bucket/create?region=us-east-2&bucketType=general

Amazon S3 > Buckets > Create bucket

Object Ownership [Info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☐ **ACLs disabled (recommended)**
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☒ **ACLs enabled**
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership

☒ **Bucket owner preferred**
If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

☐ **Object writer**
The object writer remains the object owner.

Info If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [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.

Warning 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.

Click create bucket

S3 buckets | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/buckets?region=us-east-2&bucketType=general

Amazon S3 > Buckets

Successfully created bucket "lab-51562023"
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

Account snapshot - updated every 24 hours [All AWS Regions](#) [View Storage Lens dashboard](#)
Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. [Learn more](#)

General purpose buckets | Directory buckets

General purpose buckets (1) [Info](#) [All AWS Regions](#)

Buckets are containers for data stored in S3.

Find buckets by name

Name	AWS Region	IAM Access Analyzer	Creation date
lab-51562023	US East (Ohio) us-east-2	View analyzer for us-east-2	May 22, 2025, 13:29:58 (UTC+05:30)

CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Hot weather Now

Search

1:30 PM 5/22/2025

Task 2: Enable versioning for your bucket

Open the lab created -> properties tab -> click edit for bucket versioning

lab-51562023 - S3 bucket | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/buckets/lab-51562023?region=us-east-2&bucketType=general&tab=properties

Amazon S3 > Buckets > lab-51562023

lab-51562023 [Info](#)

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

Bucket overview

AWS Region US East (Ohio) us-east-2	Amazon Resource Name (ARN) arn:aws:s3:::lab-51562023	Creation date May 22, 2025, 13:29:58 (UTC+05:30)
---	--	--

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
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

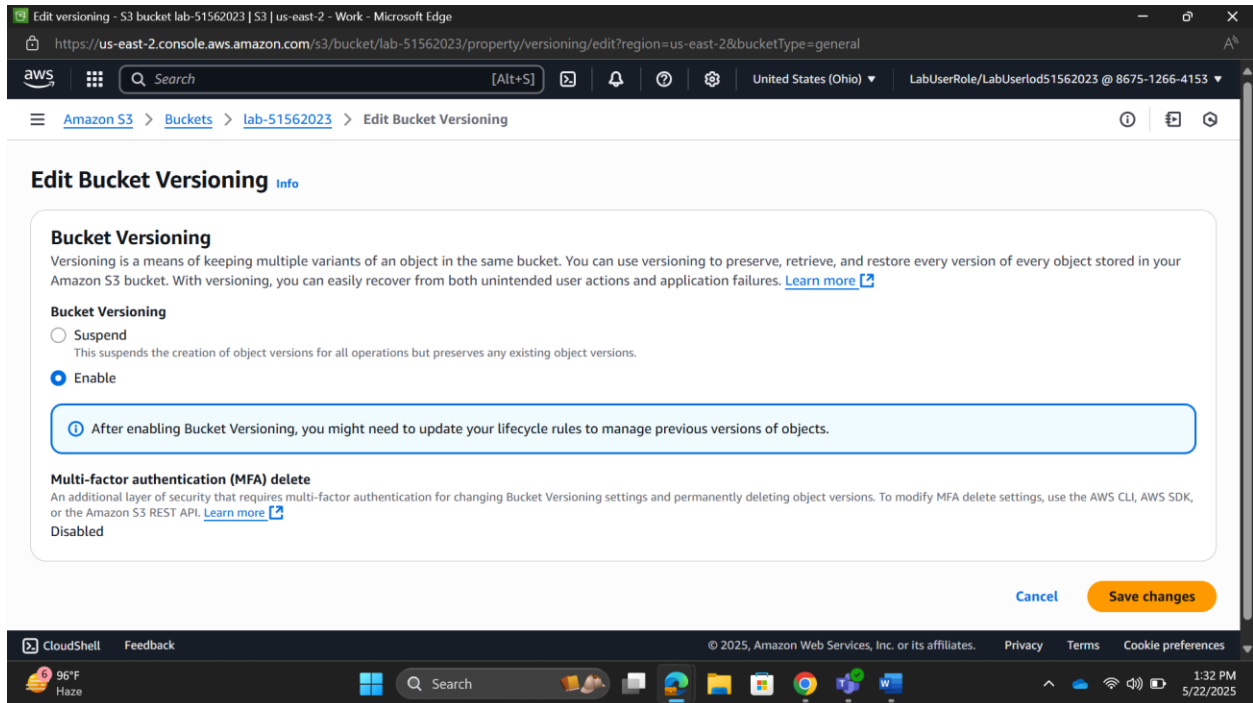
CloudShell Feedback

© 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Hot weather Now

Search

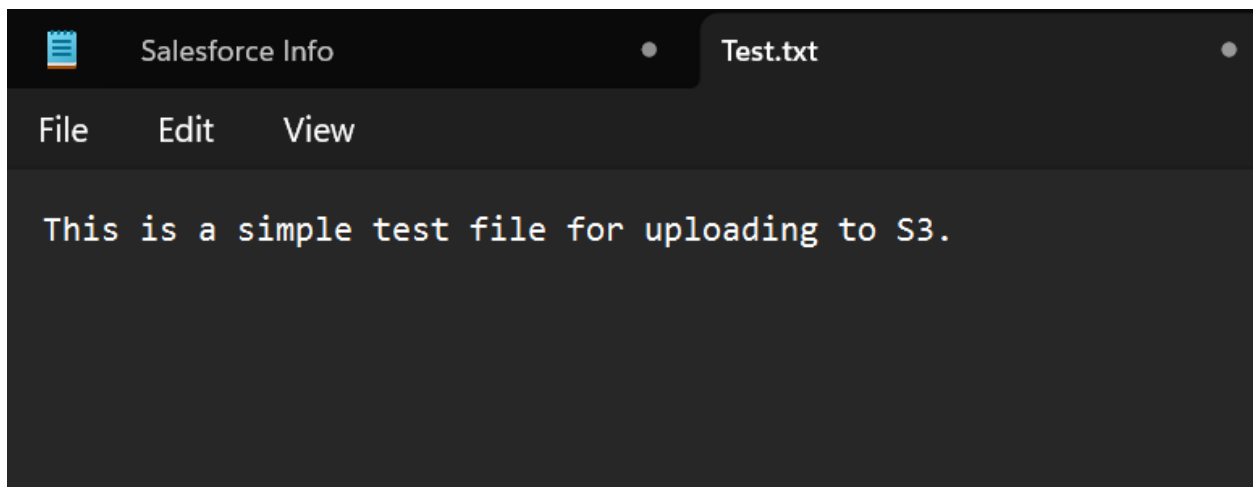
1:31 PM 5/22/2025



Click enable -> save changes

Task 3: Create and upload a file

Create a text file in notepad with name Test.txt and save it



Open created lab -> objects tab -> click upload -> select the Test.txt file -> click upload

lab-51562023 [Info](#)

[Objects](#) Metadata Properties Permissions Metrics Management Access Points

Objects (0)



Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

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](#)

Find objects by prefix

Show versions

< 1 >



Name	Type	Last modified	Size	Storage class
------	------	---------------	------	---------------

No objects

You don't have any objects in this bucket.

Upload

[Amazon S3](#) > [Buckets](#) > [lab-51562023](#) > Upload

Upload [Info](#)

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDKs or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

Files and folders (0)

Remove

Add files

Add folder

All files and folders in this table will be uploaded.

Find by name

< 1 >

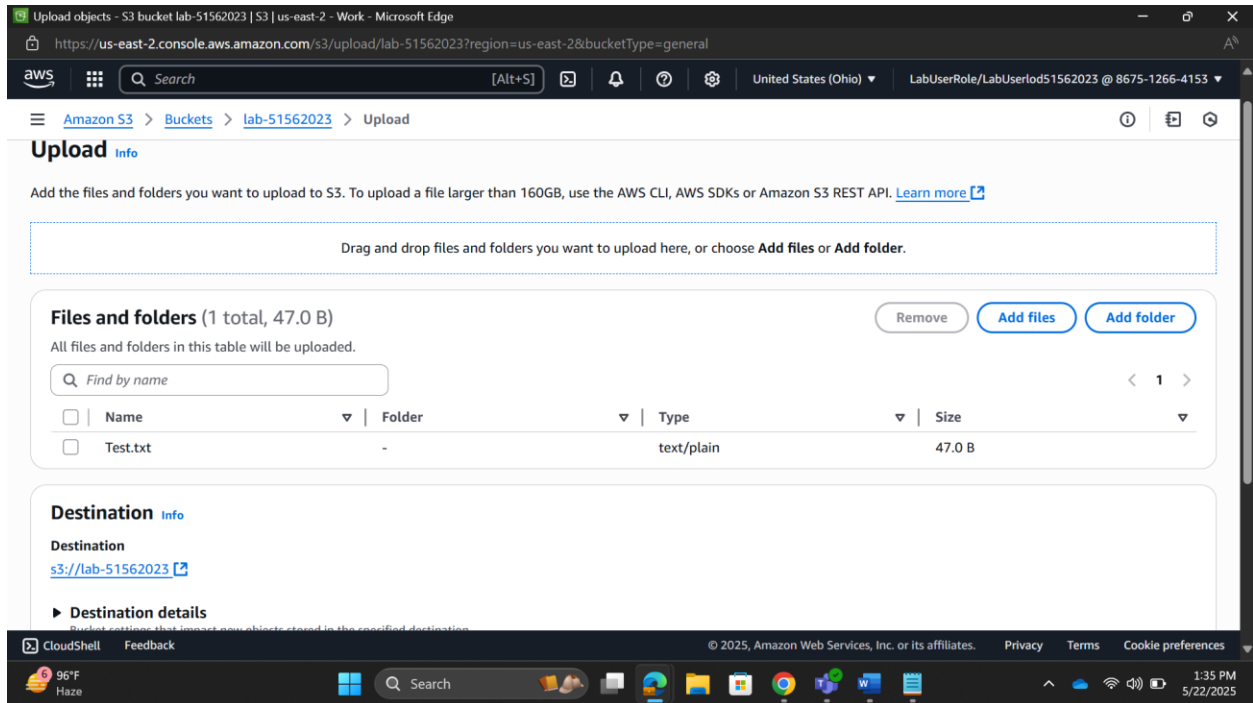
Name	Folder	Type	Size
------	--------	------	------

No files or folders

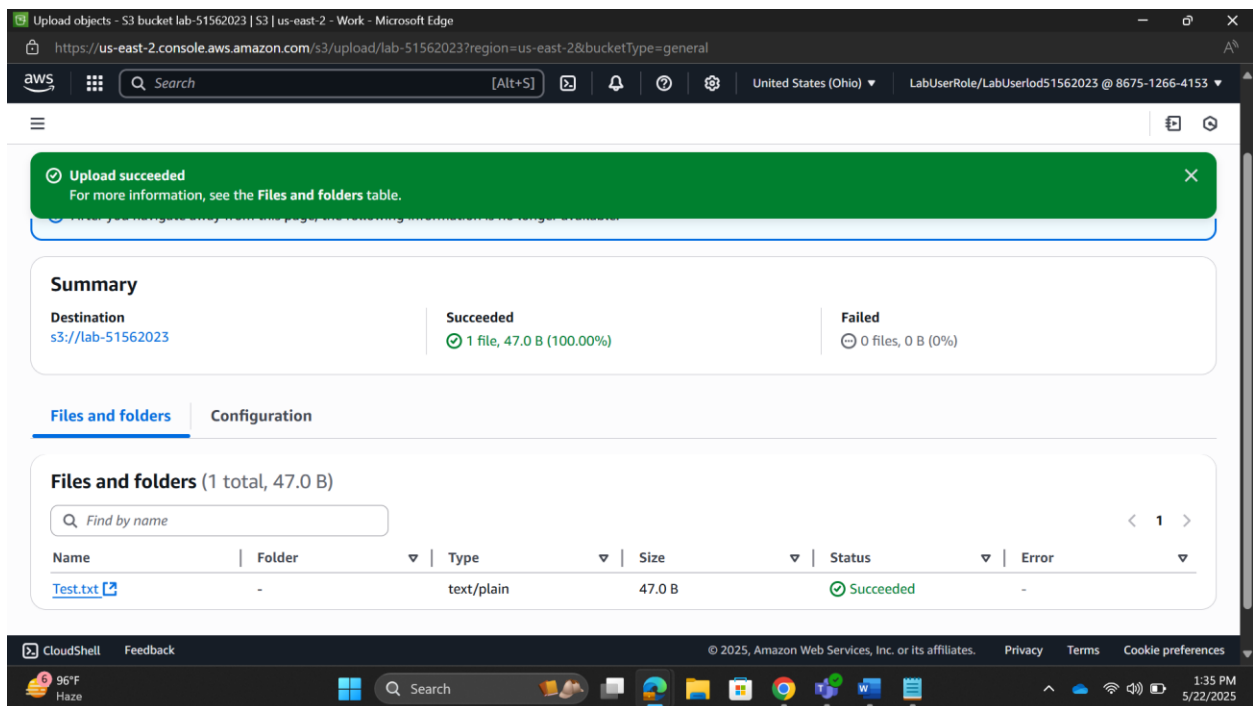
You have not chosen any files or folders to upload.

Destination [Info](#)

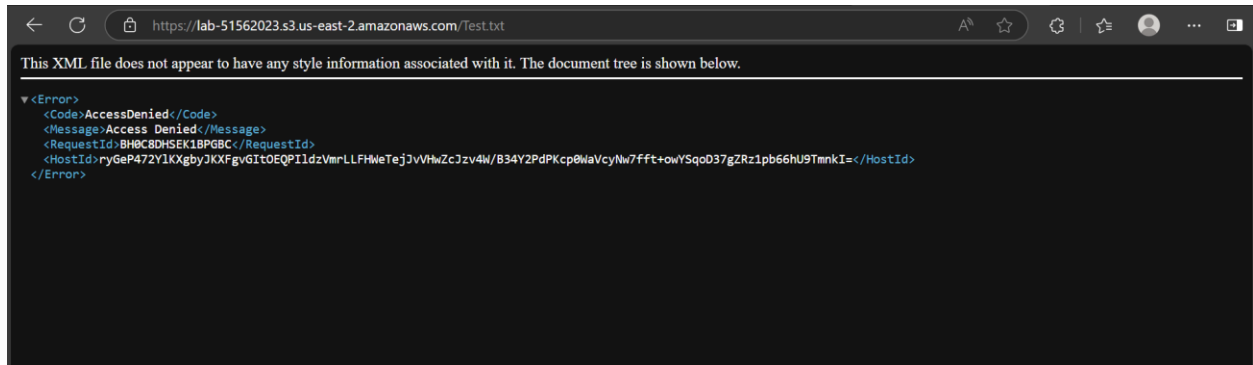
Destination



Click upload

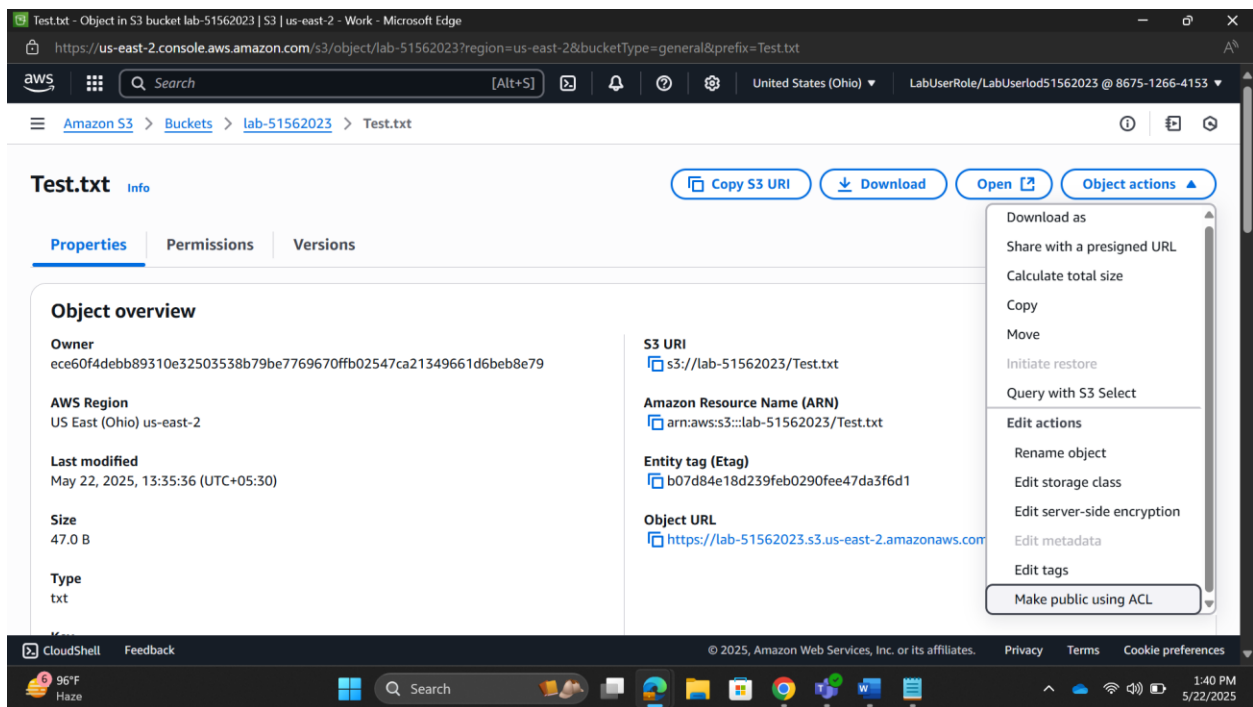


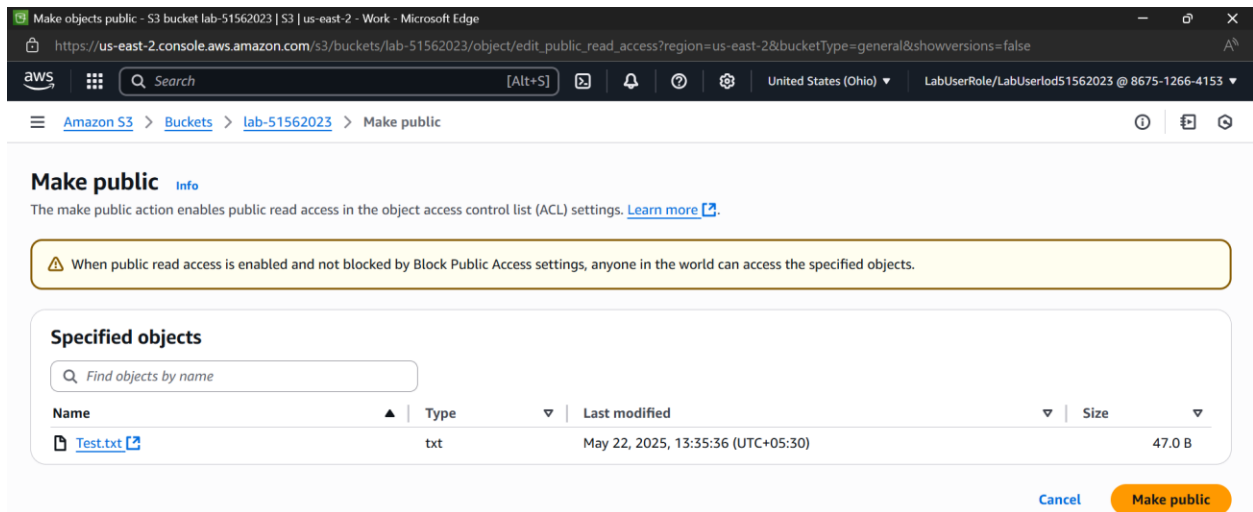
Open Test file -> copy object URL and open it in new tab -> review error message



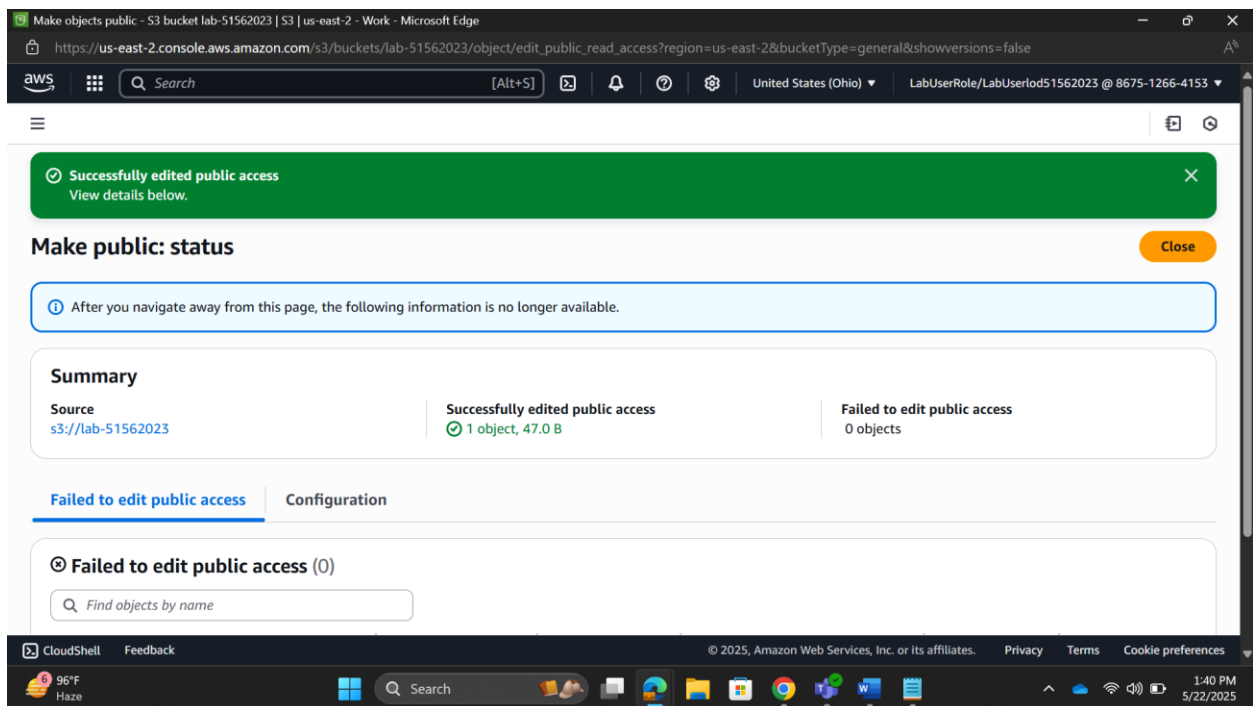
Task 4: Modify your file permissions

Open Test.txt file -> object actions -> Make public using ACL -> Make Public

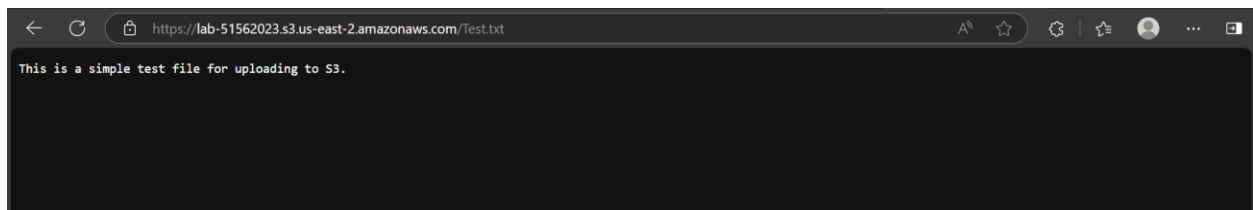




Click make public

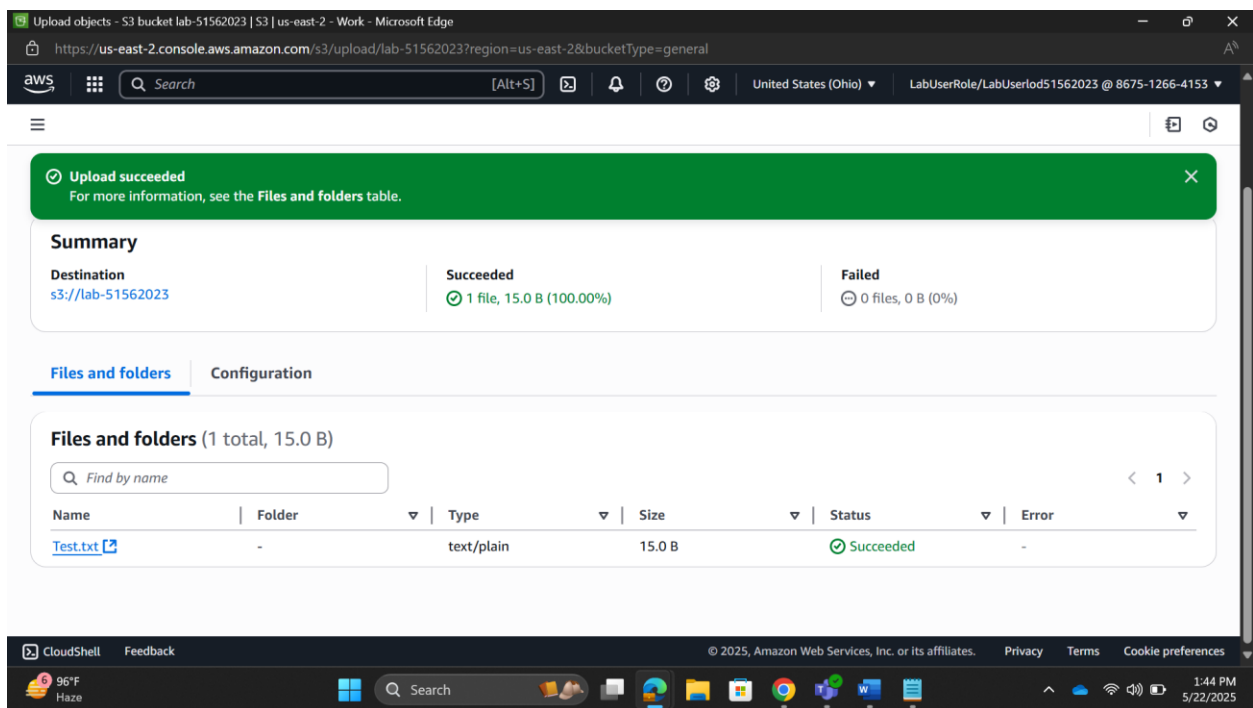
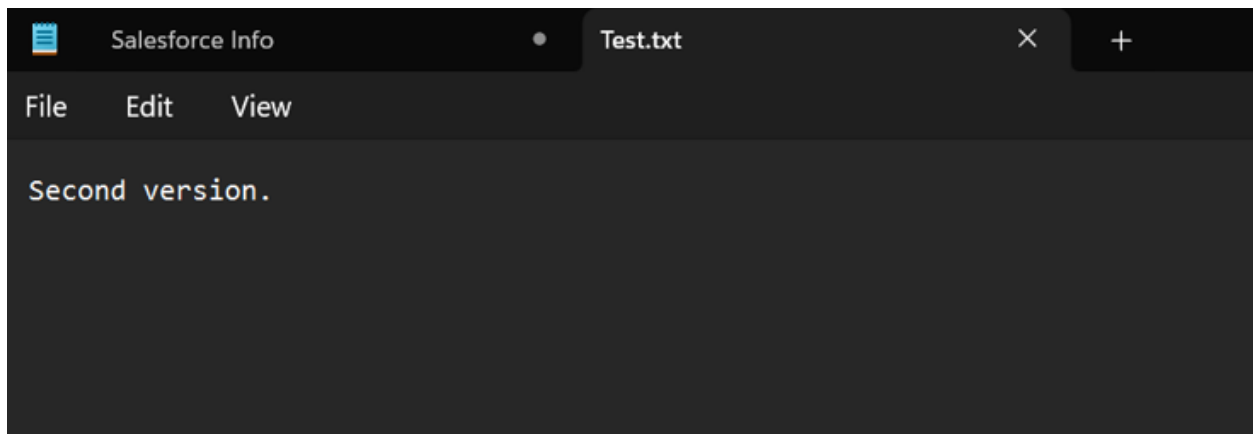


Again copy object URL and open in new tab and review the file



Task 5: Verify version control

Change the content of Test.txt file to **Second Version** and again upload the file to bucket



Open the Test file -> versions Tab -> check there must be 2 versions

The screenshot displays the AWS S3 console interface for a bucket named 'lab-51562023'. The 'Test.txt' object is selected, and the 'Versions' tab is active. The table below shows two versions of the file.


Version ID	Type	Last modified	Size	Storage class
eXe_NWRzBjIR1qEETo2S... (Current version)	txt	May 22, 2025, 13:44:16 (UTC...)	15.0 B	Standard
2hObnnBwwLzTmBDc...	txt	May 22, 2025, 13:35:36 (UTC...)	47.0 B	Standard

Below the screenshot, a Windows taskbar is visible with the system clock showing 1:45 PM on 5/22/2025. A browser window is open, displaying the content of the 'Second version.' of the file.

labclient.labondemand.com/Instructions/ExamResult/58ccdf5-a04e-4ea6-9663-6b642fcb9f54 - Work - Microsoft Edge
https://labclient.labondemand.com/Instructions/ExamResult/58ccdf5-a04e-4ea6-9663-6b642fcb9f54

Amazing work! [Print](#)

Clear out some room in the trophy case!



Areas where you excelled

- **Create an S3 bucket**
No doubt about it, in this section you know your stuff.
- **Enable versioning for your bucket**
You showed your skills in this area and finished with success.
- **Create and upload a file**
You showed your skills in this area and finished with success.
- **Modify your file permissions**

97°F Haze
Search
1:48 PM 5/22/2025

You are done with the Lab!!!!