

# Use Cloud Storage Create a storage bucket on your cloud platform and upload/download files. Configure access permissions for the bucket.

## ABOUT:

Cloud storage allows users to store and manage data in a secure and scalable environment, providing access to files from anywhere with an internet connection. By creating a storage bucket on a cloud platform, users can efficiently store files such as documents, images, and backups. In this task, we will walk through the process of creating a storage bucket, uploading and downloading files, and configuring access permissions to ensure that only authorized users can interact with the stored data. Cloud storage solutions, such as those provided by platforms like AWS, Google Cloud, and Azure, offer flexibility and robustness in managing large amounts of data.

## SIGNIFICANCE:

**Scalability:** Cloud storage provides virtually unlimited space, allowing users to store large volumes of data without worrying about running out of storage or managing physical hardware.

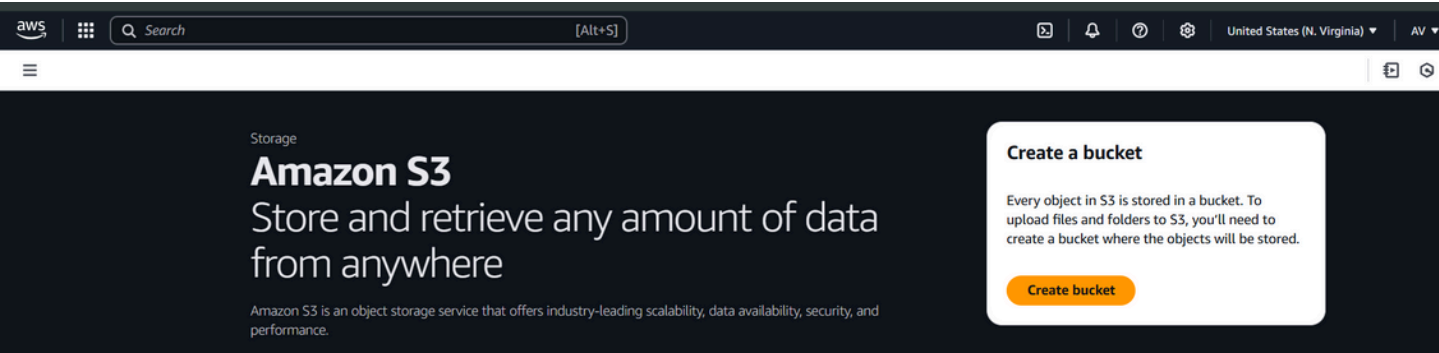
**Accessibility:** Files stored in the cloud can be accessed from anywhere, at any time, using an internet connection, ensuring flexibility for users who need to retrieve or share data remotely.

**Security:** Cloud platforms offer advanced security features, such as encryption, access control, and backup options, ensuring data is protected against unauthorized access, loss, or corruption.

**Cost Efficiency:** With cloud storage, users only pay for the storage they use, eliminating the need for upfront capital investment in physical hardware, maintenance, and upgrades.

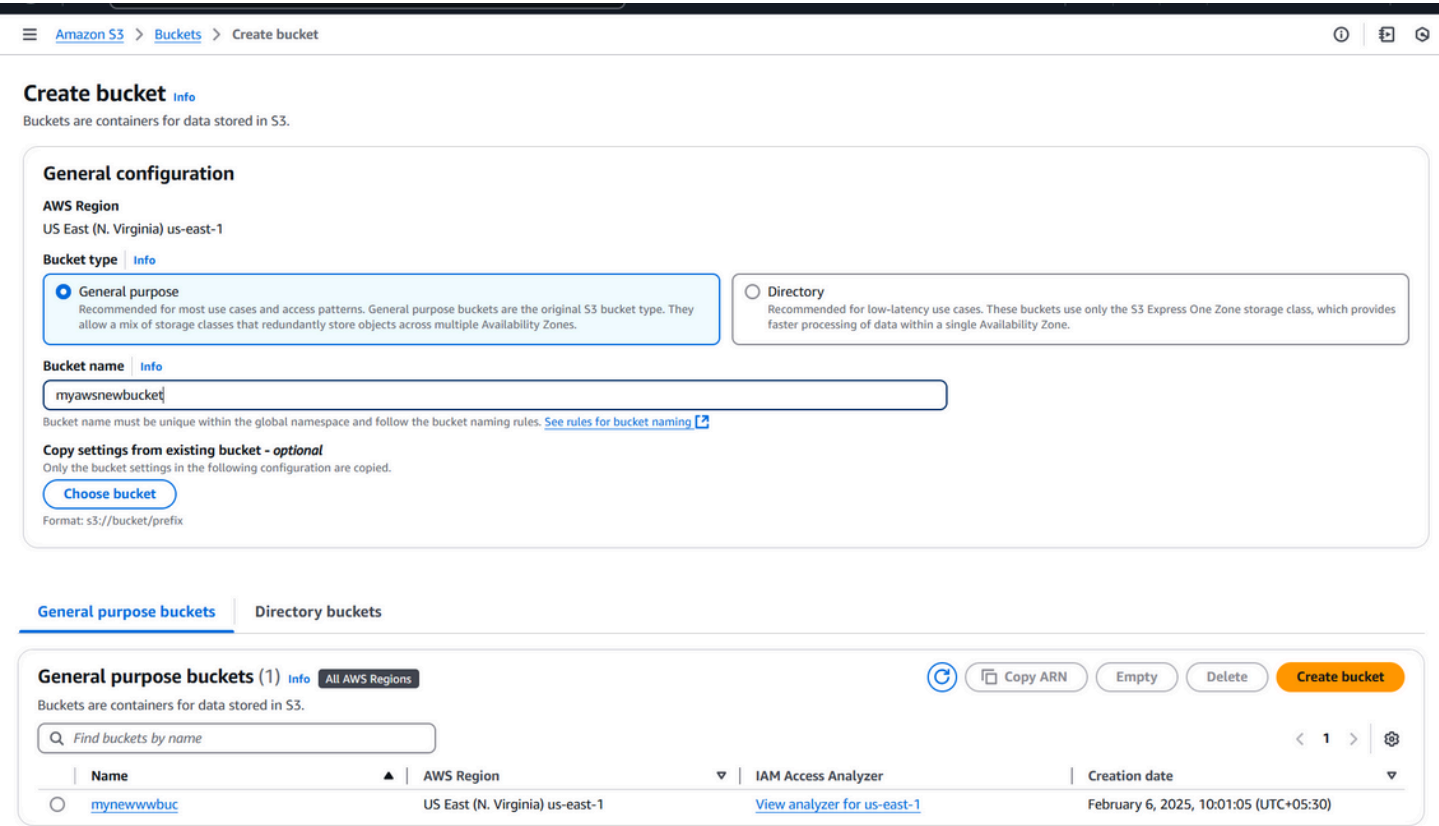
STEP 1:

Sign in to your AWS console and search for S3 bucket



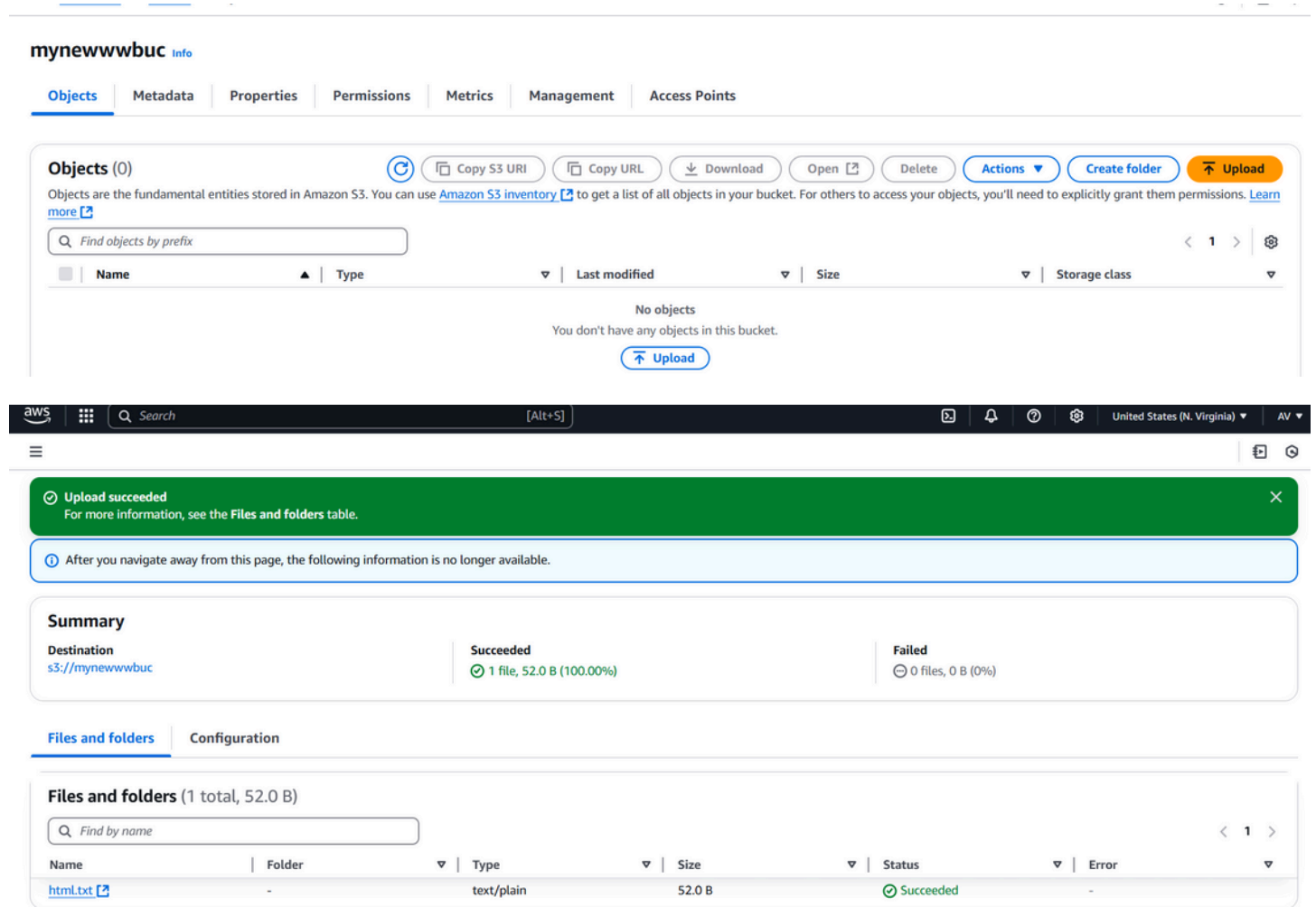
STEP 2:

Create a new bucket with unique bucket



## STEP 3:

Go to created bucket and click on upload and add the files from your PC to the bucket



**mynewwwbuc** Info

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

**Objects (0)** [Refresh](#) [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](#)

Name	Type	Last modified	Size	Storage class
No objects				
You don't have any objects in this bucket.				

[Upload](#)

**Upload succeeded**  
For more information, see the [Files and folders](#) table.

After you navigate away from this page, the following information is no longer available.

**Summary**

<b>Destination</b> s3://mynewwwbuc	<b>Succeeded</b> ✔ 1 file, 52.0 B (100.00%)	<b>Failed</b> ✖ 0 files, 0 B (0%)
---------------------------------------	--	--------------------------------------

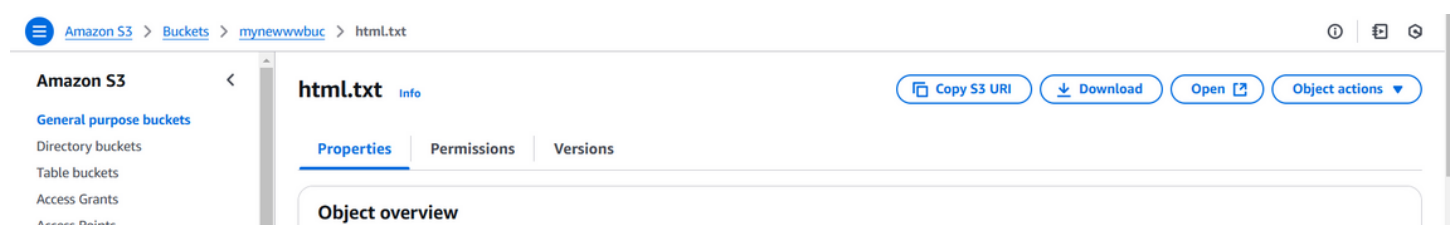
[Files and folders](#) [Configuration](#)

**Files and folders (1 total, 52.0 B)**

Name	Folder	Type	Size	Status	Error
<a href="#">html.txt</a>	-	text/plain	52.0 B	✔ Succeeded	-

## STEP 4:

Click on uploaded file and on the top right corner select download



[Amazon S3](#) > [Buckets](#) > [mynewwwbuc](#) > [html.txt](#)

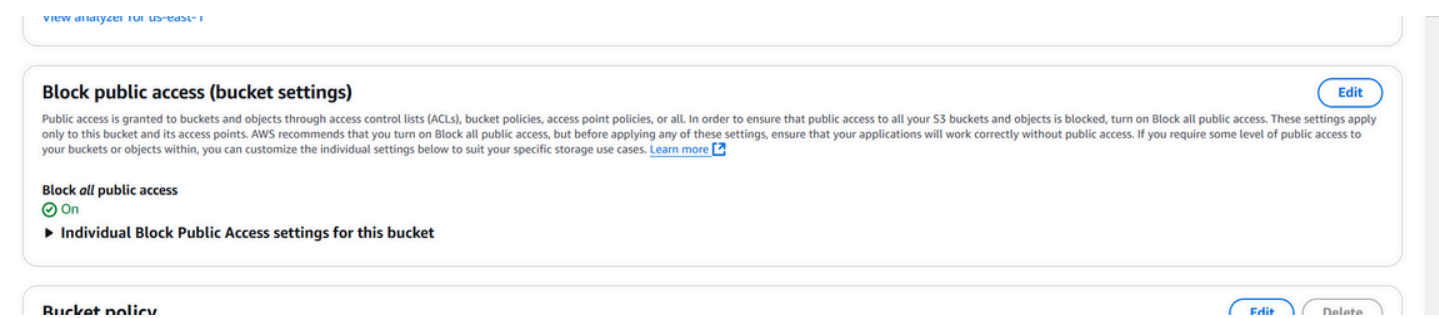
**html.txt** Info [Copy S3 URI](#) [Download](#) [Open](#) [Object actions](#)

[Properties](#) [Permissions](#) [Versions](#)

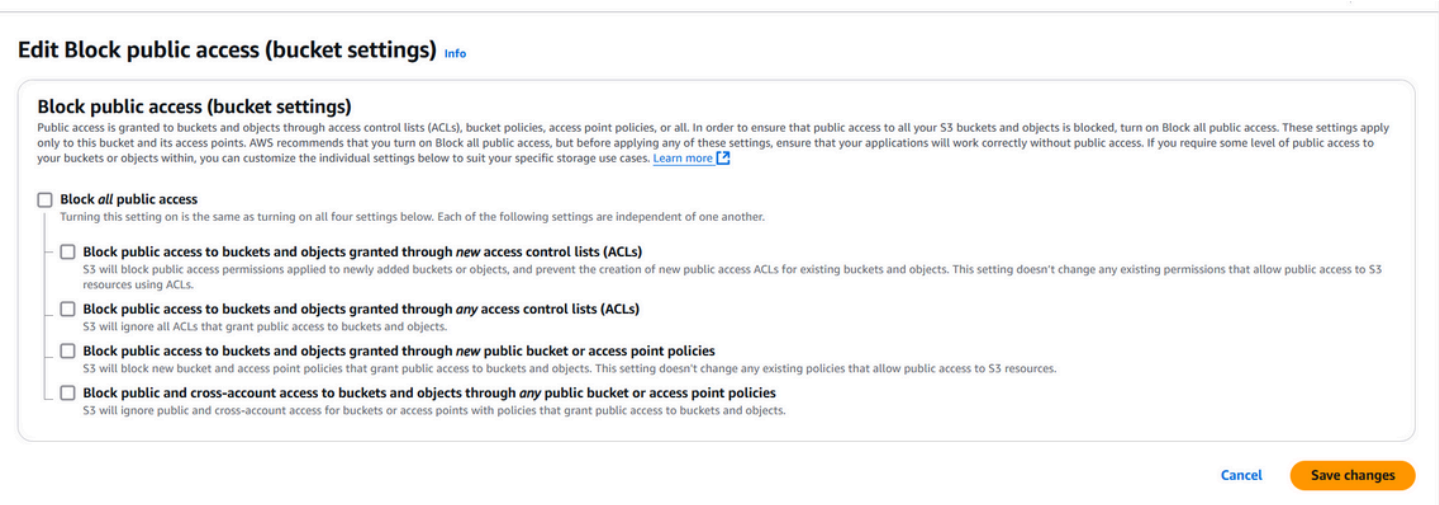
**Object overview**

## STEP 5:

Move to the permission table and click on edit public access

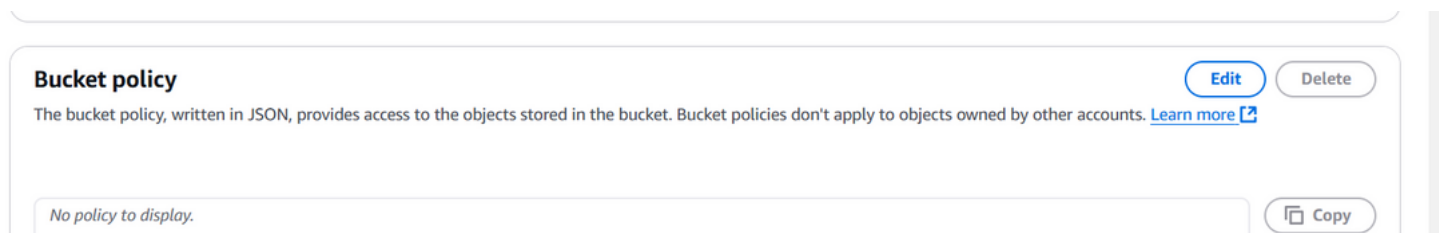


Click on save changes after enabling public access



STEP 6:

Go to permission in your bucket and edit the bucket policy



STEP 7:

Go to permission under bucket and scroll down to bucket policy. Copy the following JSON code

Amazon S3

General purpose buckets

Directory buckets

Table buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

Storage Lens groups

AWS Organizations settings

Bucket policy

Policy examples Policy generator

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

Bucket ARN

arn:aws:s3:::newbucaws

Policy

1 {

2 "Version": "2012-10-17",

3 "Statement": [

4 {

5 "Effect": "Allow",

6 "Principal": "\*",

7 "Action": "s3:GetObject",

8 "Resource": "arn:aws:s3:::newbucaws/\*"

9 }

10 ]

11 }

12 }

13 }

Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement

click on save changes

## STEP 8:

Go to Objects and copy the URL

Directory buckets

Table buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Objects

Properties

Permissions

Tags

Management

Access control

Objects (1)

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

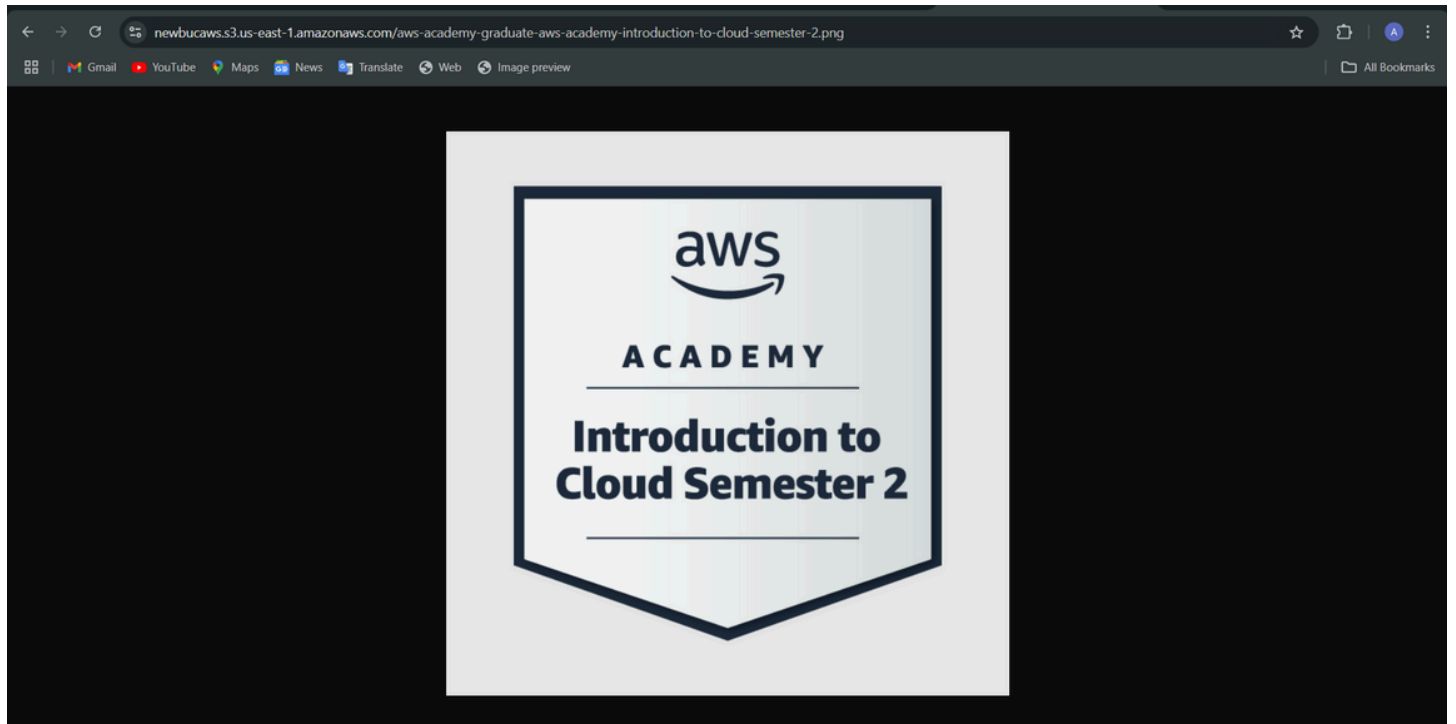
1

Find objects by prefix

<input checked="" type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input checked="" type="checkbox"/>	<a href="#">aws-academy-graduate-aws-academy-introduction-to-cloud-semester-2.png</a>	png	February 6, 2025, 10:51:27 (UTC+05:30)	28.2 KB	Standard

## STEP 9:

Open a new tab and paste the copied URL link. You will be able to see the file you have uploaded in the S3 Bucket



## OUTCOME:

1. **Easy File Management:** Efficient organization and retrieval of files through intuitive interfaces and flexible folder structures.
2. **Streamlined Collaboration:** Multiple users can access, edit, and share files in real-time, improving teamwork and productivity across distributed teams.
3. **Automated Backups:** Cloud storage ensures data is automatically backed up and protected, reducing the risk of data loss due to hardware failure or human error.
4. **Customizable Access Control:** Users can define specific permissions (read, write, delete) for different individuals or groups, ensuring secure and authorized access to sensitive data.
5. **Improved Disaster Recovery:** Cloud storage enables businesses and individuals to quickly recover lost data in the event of hardware failure, accidental deletion, or cyber threats, ensuring minimal downtime.

