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* Write up :-

1. Storage as a service :

- Storage as a service (StaaS) is a managed service in which the provider supplies the customer with access to a data storage platform.
- The service can be delivered on-premises from infrastructure that is dedicated/dedicated to a single customer, or it can be delivered from the public cloud as a shared service that's purchased by subscription & is billed according to one or more usage metrics.
- StaaS customers access individual storage services through standard system interface protocols or application program interface (APIs). Typical offerings include bare metal storage capacity; raw storage volumes; network file systems; storage objects; and storage applications that support file sharing and backup lifecycle management.
- Storage as a service was originally seen as a cost-effective way for small & mid-size businesses that lacked the technical personnel & capital budget to implement & maintain their own storage infrastructure. Today, companies of all sizes use storage as a service.

Q. S3 Usecases :

- Amazon simple storage service (S3) is a massively scalable storage based on object storage technology. It provides a very high level of durability, with high availability & high performance. Data can be accessed from anywhere via the internet, through the Amazon console & the powerful S3 API.
-) Backup & Archival : One of the primary use cases for S3 storage is backup & archival. Organizations can leverage S3's durability & availability to ensure the safety and longevity of their data. S3's redundant architecture and distributed data storage make it possible to store critical data that needs to be accessed quickly & securely.
-) Content distribution and Hosting : By leveraging S3's global network of edge locations, content creators can distribute their files seamlessly to end-users, reducing latency & improving user experience. S3's integration with content delivery networks (CDNs) further enhances its content distribution capabilities, ensuring that files are delivered quickly & efficiently.
-) Disaster Recovery : With S3's cross-region replication, businesses can automatically save their data

multiple Amazon regions, ensuring that it is protected against regional disasters. In the event of a disaster, organizations can quickly restore their data from the replicated copies stored in S3, minimizing downtime & data loss.

4. Big data & Analytics : S3's low-cost storage object make it suitable for storing large volume raw data. Organizations can ingest data from various sources into S3, including log files, sensor data, & social media feeds.

3. Steps for S3 :-

Step 1: Log on to your AWS console. If you don't have an account, you can create it absolutely free as Amazon provides a 1-year free tier to its new users.

Step 2: In the search bar located at the top of your AWS management console, type "Amazon S3". You will see something.

Step 3: Click on "S3 - Scalable storage in the cloud" and proceed further.

Step 4: Click on "Create Bucket". A new pane will open up where you have to enter the details & configure your bucket.

Step 5: Enter the name of your bucket. The following are some rules for naming a bucket in S3.

- Bucket name should be Unique.
- Bucket names must be between 3 and 63 characters long.

Step 6: Next, choose an AWS region nearest to your location or where you want your data to reside.

- In object ownership category, leave it as recommended. We use it for controlling the access of the file by specifying roles. If Acls are disabled, the bucket owner automatically owns.
- In Block public access settings for this bucket category, ensure that BLOCK ALL PUBLIC ACCESS has been clicked.
- In the Bucket versioning category, choose enabled. Leave other advance settings as default.

Step 7: Click on Create Bucket.

If the Bucket is created, you will see congratulations & you have successfully created your first bucket in Amazon Simple Storage service S3.

S3 (Storage as a service) (File)

The screenshot shows the AWS CloudShell interface. A search bar at the top contains the query 's3'. Below it, the search results are displayed under two main sections: 'Services' and 'Features'.

Services section:

- S3** Scalable Storage in the Cloud
- S3 Glacier** Archive Storage in the Cloud
- AWS Snow Family** Large Scale Data Transport
- Storage Gateway** Hybrid Storage Integration

Features section:

- Imports from S3** DynamoDB feature

On the right side of the interface, there is a sidebar titled 'Actions' with a 'Launch instances' button. The status bar at the bottom indicates the user is in the N. Virginia region and has a session ID of khushit709.

The screenshot shows the 'Homepage | S3 | us-east-1' page. The main heading is 'Amazon S3' with the subtext 'Store and retrieve any amount of data from anywhere'. A callout box on the right says 'Create a bucket'.

Create a bucket
Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.
[Create bucket](#)

Pricing
With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.
Estimate your monthly bill using the [AWS Simple Monthly Calculator](#)
[View pricing details](#)

At the bottom left, there is a video player titled 'Introduction to Amazon S3' with a 'Copy link' button. The status bar at the bottom indicates the user is in the N. Virginia region and has a session ID of khushit709.

Screenshot of the AWS S3 Create Bucket page.

General configuration

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

Bucket type: **General purpose** (selected)

Bucket name: khushi1709

Copy settings from existing bucket - optional

Choose bucket: Format: s3://bucket/prefix

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Screenshot of the AWS S3 Buckets page showing the newly created bucket.

Successfully created bucket "khushi1709". To upload files and folders, or to configure additional bucket settings, choose View details.

Amazon S3 > Buckets

Account snapshot - updated every 24 hours (All AWS Regions)

General purpose buckets (All AWS Regions)

Buckets are containers for data stored in S3.

Find buckets by name:

Name	AWS Region	IAM Access Analyzer	Creation date
Loading buckets			

View Storage Lens dashboard | View details | Create bucket

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Upload objects - S3 bucket khushit1709

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK 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)

All files and folders in this table will be uploaded.

Find by name

Name | Folder | Type

No files or folders

You have not chosen any files or folders to upload.

Destination [Info](#)

Destination
s3://khushit1709

▶ Destination details

Bucket settings that impact new objects stored in the specified destination.

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Search

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Upload objects - S3 bucket khushit1709

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK 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 (1 Total, 21.2 KB)

All files and folders in this table will be uploaded.

Find by name

Name | Folder | Type

Screenshot 2024-07-30 223021.png - image/png

Destination [Info](#)

Destination
s3://khushit1709

▶ Destination details

Bucket settings that impact new objects stored in the specified destination.

▶ Permissions

Grant public access and access to other AWS accounts.

▶ Properties

Specify storage class, encryption settings, tags, and more.

Cancel **Upload**

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Upload objects - S3 bucket khush1709

us-east-1.console.aws.amazon.com/s3/upload/khush1709?region=us-east-1&bucketType=general

Services Search [Alt+S]

Upload succeeded
View details below.

Upload: status

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

Summary

Destination	Succeeded	Failed
s3://khush1709	1 file, 21.2 KB (100.00%)	0 files, 0 B (0%)

Files and folders (1 Total, 21.2 KB)

Name	Folder	Type	Size	Status	Error
Screenshot ...	-	image/png	21.2 KB	Succeeded	-

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khush1709 - S3 bucket | S3 | + Merge PDF files online. Free ser...

us-east-1.console.aws.amazon.com/s3/buckets/khush1709?region=us-east-1&bucketType=general&tab=objects

Services Search [Alt+S]

Amazon S3 > Buckets > khush1709

khush1709 Info

Objects (1) Info

C Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Objects are 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
Screenshot 2024-07-30_223021.png	png	August 3, 2024, 10:29:29 (UTC+05:30)	21.2 KB	Standard

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S3 (Storage as a service) (Folder)

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK 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 (5 Total, 426.8 KB)

Name	Folder	Type
new_indices.ipynb	Try/	-
nifty-tmi-Q2-2024.csv	Try/	text/csv
Screenshot 2024-06-07 205148.png	Try/	image/png
Screenshot 2024-06-10 162852.png	Try/	image/png
Screenshot 2024-06-10 163141.png	Try/	image/png

Destination

s3://khushit1709

Total remaining: 1 file: 7.8 KB(1.82%)
Estimated time remaining: a few seconds
Transfer rate: 47.8 KB/s

s3://khushit1709

Files and folders (5 Total, 426.8 KB)

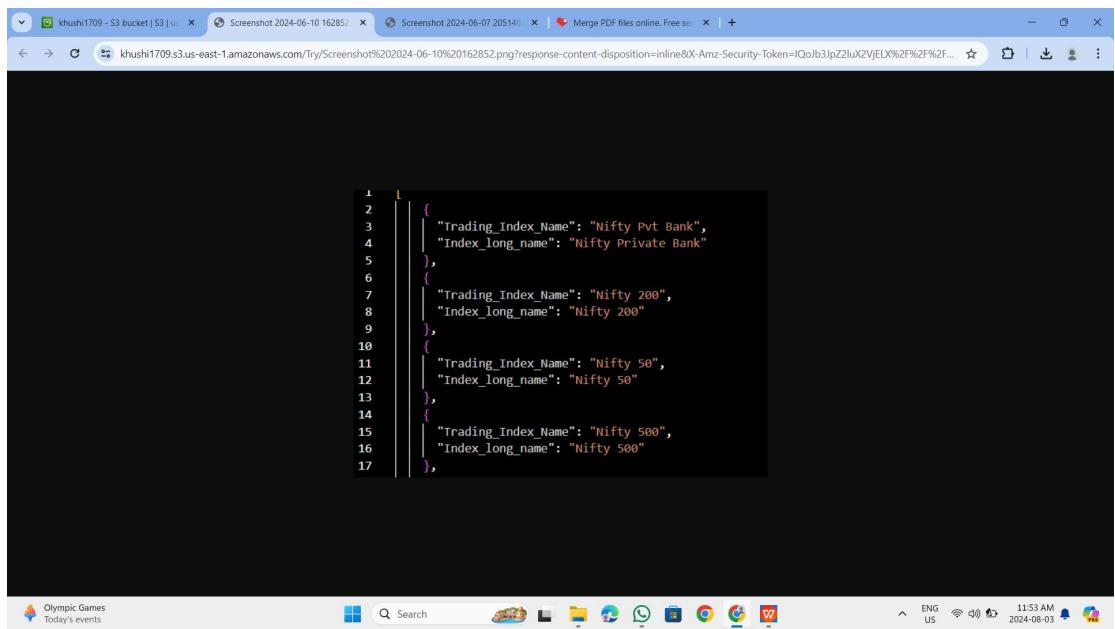
Name	Folder	Type	Size	Status	Error
new_indices...	Try/	-	334.7 KB	Succeeded	-
nifty-tmi-Q...	Try/	text/csv	48.7 KB	Succeeded	-
Screenshot ...	Try/	image/png	8.7 KB	Succeeded	-
Screenshot ...	Try/	image/png	27.0 KB	Succeeded	-
Screenshot ...	Try/	image/png	7.8 KB	Pending	-

The screenshot shows the AWS S3 console interface. At the top, the URL is `us-east-1.console.aws.amazon.com/s3/buckets/khushi1709?region=us-east-1&bucketType=general&tab=objects`. The navigation bar shows 'Amazon S3 > Buckets > khushi1709'. The main content area is titled 'khushi1709' with a 'Info' link. Below it is a table titled 'Objects (1) Info' showing one item: 'Try/' which is a 'Folder'. The table includes columns for Name, Type, Last modified, Size, and Storage class.

Name	Type	Last modified	Size	Storage class
Try/	Folder	-	-	-

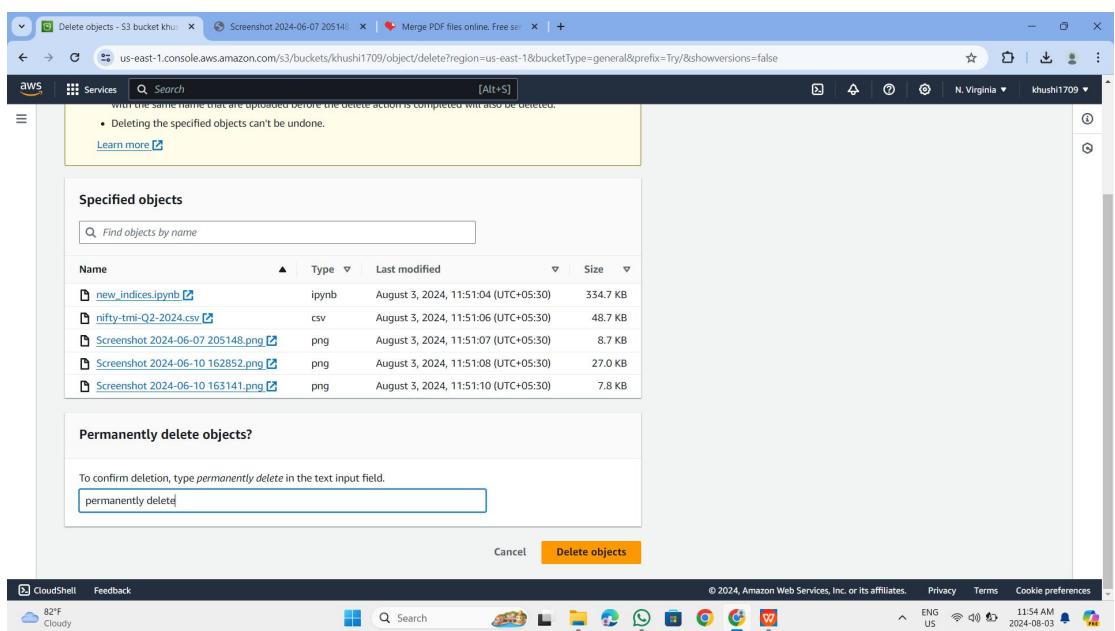
The screenshot shows the AWS S3 console interface, similar to the first one but with a different path: 'Amazon S3 > Buckets > khushi1709 > Try/'. The main content area is titled 'Try/' with a 'Copy S3 URI' button. Below it is a table titled 'Objects (5) Info' showing five files. The table includes columns for Name, Type, Last modified, Size, and Storage class.

Name	Type	Last modified	Size	Storage class
new_indices.ipynb	ipynb	August 3, 2024, 11:51:04 (UTC+05:30)	334.7 KB	Standard
nifty-tmi-Q2-2024.csv	csv	August 3, 2024, 11:51:06 (UTC+05:30)	48.7 KB	Standard
Screenshot 2024-06-07_205148.png	png	August 3, 2024, 11:51:07 (UTC+05:30)	8.7 KB	Standard
Screenshot 2024-06-10_162852.png	png	August 3, 2024, 11:51:08 (UTC+05:30)	27.0 KB	Standard
Screenshot 2024-06-10_163141.png	png	August 3, 2024, 11:51:10 (UTC+05:30)	7.8 KB	Standard



A screenshot of a web browser window displaying a JSON file. The JSON structure lists four trading indices with their names and long names:

```
1 | [
2 | | "Trading_Index_Name": "Nifty Pvt Bank",
3 | | "Index_long_name": "Nifty Private Bank"
4 | ],
5 | [
6 | | "Trading_Index_Name": "Nifty 200",
7 | | "Index_long_name": "Nifty 200"
8 | ],
9 | [
10 | | "Trading_Index_Name": "Nifty 50",
11 | | "Index_long_name": "Nifty 50"
12 | ],
13 | [
14 | | "Trading_Index_Name": "Nifty 500",
15 | | "Index_long_name": "Nifty 500"
16 | ],
17 | }
```



A screenshot of the AWS S3 console showing a list of objects in a bucket named 'khushi1709'. The objects listed are:

Name	Type	Last modified	Size
new_indices.ipynb	ipynb	August 3, 2024, 11:51:04 (UTC+05:30)	334.7 KB
nifty-tmi-Q2-2024.csv	csv	August 3, 2024, 11:51:06 (UTC+05:30)	48.7 KB
Screenshot 2024-06-07 205148.png	png	August 3, 2024, 11:51:07 (UTC+05:30)	8.7 KB
Screenshot 2024-06-10 162852.png	png	August 3, 2024, 11:51:08 (UTC+05:30)	27.0 KB
Screenshot 2024-06-10 163141.png	png	August 3, 2024, 11:51:10 (UTC+05:30)	7.8 KB

The interface shows a confirmation dialog for deleting the objects. The message states: "Warning: The same name that are uploaded before the delete action is completed will also be deleted. • Deleting the specified objects can't be undone." A link to "Learn more" is provided.

At the bottom, there is a text input field containing "permanently delete" and a button labeled "Delete objects".

Screenshot of the AWS S3 console showing the results of a delete operation.

The browser tab bar shows:

- Delete objects - S3 bucket khushit1709
- Screenshot 2024-06-07 205140
- Merge PDF files online. Free site

The AWS S3 console URL is: us-east-1.console.aws.amazon.com/s3/buckets/khushit1709/object/delete?region=us-east-1&bucketType=general&prefix=Try/&showversions=false

The page displays the results of a successful delete operation:

- Successfully deleted objects:** View details below.
- A message: "The information below will no longer be available after you navigate away from this page."
- Summary:**

Source	Successfully deleted	Failed to delete
s3://khushit1709/Try/	5 objects, 426.8 KB	0 objects
- Failed to delete:** Configuration
- Failed to delete (0):** Find objects by name
- A table header for failed objects:

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

The bottom of the screen shows the Windows taskbar with various pinned icons and system status indicators.