

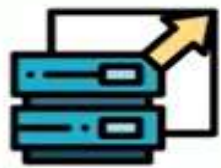
S3

Simple Service Storage

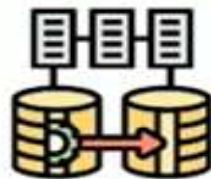
What is S3?

Amazon S3 is an object storage service from Amazon that provides industry-leading scalability, data availability, security, and performance.

- Store and retrieve any amount of data from anywhere



Industry-leading Scalability



Data Availability



Data Security



Performance

What is S3?

It has simple management capabilities that allow you to organize your data and fine-tune access controls to match your specific commercial, organizational, and compliance needs.



What is S3?

Amazon S3 is designed for durability and saves data for millions of apps for businesses all over the world.



Benefits of S3

Performance, scalability, availability, and durability that are unrivalled in the industry.



Many cost-effective storage classes are available.



Security, compliance, and auditing capabilities that are unrivalled.



Manage data and access permissions with ease.



Query-in-place and on-demand processing.



The most widely used cloud storage service.



Objects and Buckets in S3 - Objects

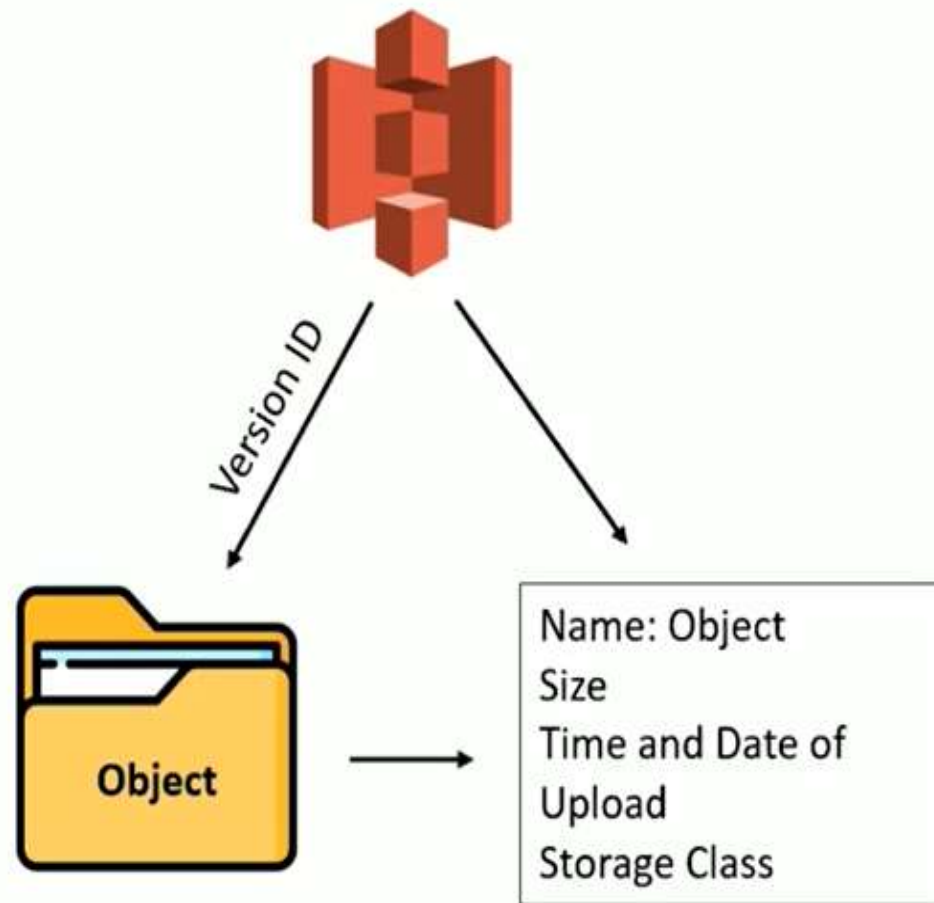
Objects are fundamental entities stored in Amazon S3.

It Consists of its data as well as its metadata.

S3 cannot access the content or data inside the object.

It can only read the metadata associated with the object.

It allocates a unique version ID for the object when some data is added to the bucket.



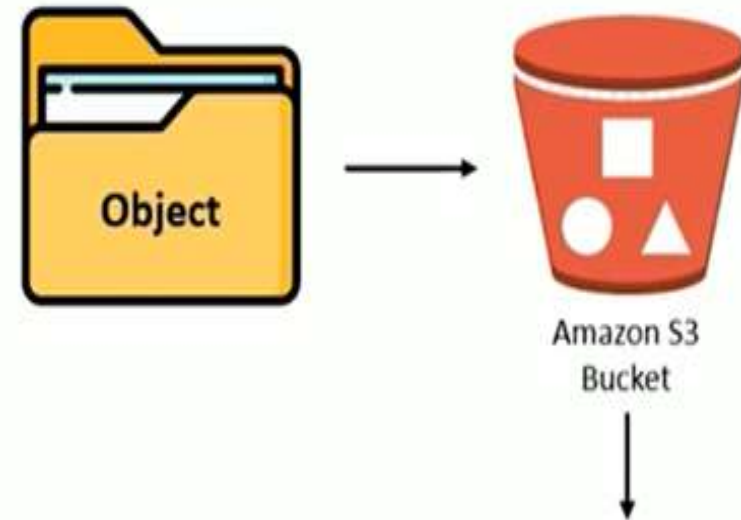
Objects and Buckets in S3 - Buckets

Buckets are the containers where objects are stored and then uploaded to Amazon S3.

There will never be an object without a Bucket.

There is no "Windows Explorer" like hierarchy.

One can create Buckets in any region of the World which is close to you.



Object: Harry Potter Library.jpg
Bucket: simplidemo
Link address: s3://simplidemo/Harry
Potter Library.jpg
AWS Region: US East (Ohio) us-east-2

Working of S3



Practical














- **Create & configure bucket**
- **Upload objects**
- **View objects**
- **Copy/move objects**
- **Delete objects**
- **Delete bucket**

Console Home Info

Reset to default layout

+ Add widgets

Recently visited Info

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|  AWS Glue |  VPC |
|  EC2 |  Lightsail ↗ |
|  Route 53 |  Activate for Startups |
|  AWS Amplify |  Elastic Beanstalk |
|  Elastic Container Registry |  AWS Budgets |
|  Elastic Container Service |  S3 |
|  IAM | |

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Welcome to AWS



Getting started with AWS [↗](#)

Learn the fundamentals and find valuable information to get the most out of AWS.



Training and certification [↗](#)

Learn from AWS experts and advance your skills and knowledge.



What's new with AWS? [↗](#)

Discover new AWS services, features, and Regions.

Storage

Amazon S3

Store and retrieve any amount of data from anywhere

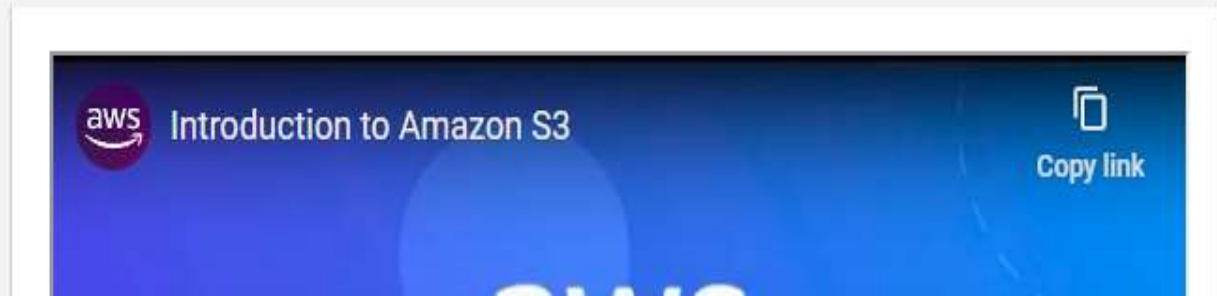
Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

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

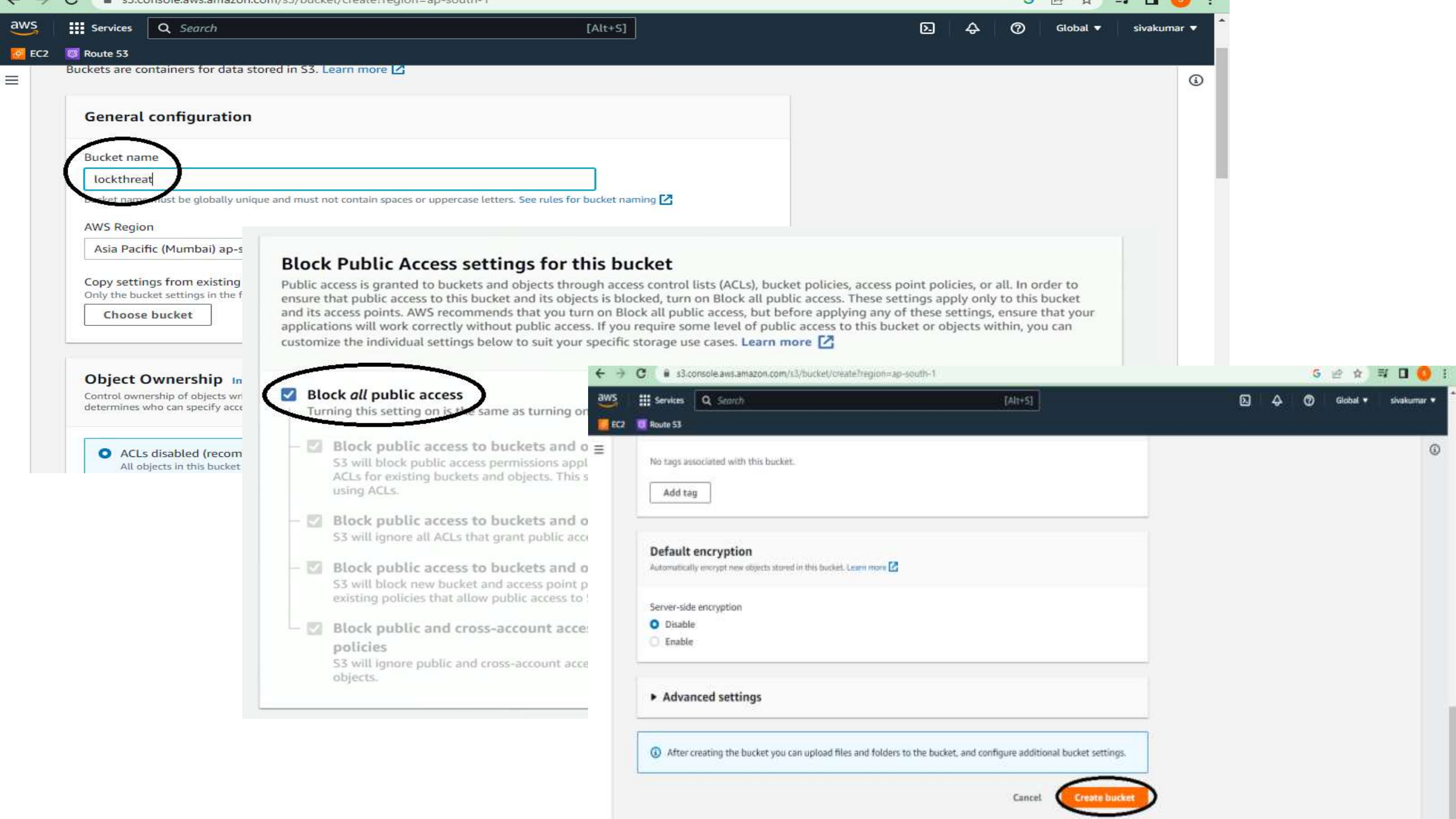
How it works



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](#)



←

→

↺

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

aws

Services

Search

[Alt+S]

🔍

🔔

?

Global

sivakumar

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Amazon S3

×

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight 3

✓ Successfully created bucket "lockthreat"

To upload files and folders, or to configure additional bucket settings choose **View details**.

View details

×

?

📘 Get hands-on guidance on how to get started with S3 Intelligent-Tiering and experience automatic storage cost savings.

View tutorial

×

Amazon S3 > Buckets

←

→

↺

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

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Feature spotlight 3

Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

Buckets (1) [Info](#)

🔄

Copy ARN

Empty

Delete

Create bucket

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

Find buckets by name

< 1 > ⚙️

	Name	AWS Region	Access	Creation date
<input type="radio"/>	lockthreat	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	December 20, 2022, 15:37:42 (UTC+05:30)

✓ Successfully created bucket "lockthreat"

To upload files and folders, or to configure additional bucket settings choose **View details**.

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

Amazon S3

×

Buckets

Access Points

Object Lambda Access Points

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Amazon S3 > Buckets

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<input type="radio"/>	lockthreat	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	December 20, 2022, 15:37:42 (UTC+05:30)

Amazon S3 is a powerful feature-rich service with a wide variety of different settings you can configure like..

The screenshot shows the Amazon S3 console interface. The browser address bar displays the URL: `s3.console.aws.amazon.com/s3/buckets/lockthreat?region=ap-south-1&tab=objects`. The console header includes the AWS logo, a search bar, and navigation links for EC2 and Route 53. The left sidebar shows the 'Amazon S3' section with various options like Buckets, Access Points, and Storage Lens. The main content area is titled 'lockthreat' and includes tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. The 'Objects' tab is active, showing a list of objects (currently empty) and a toolbar with buttons for Refresh, Copy S3 URI, Copy URL, Download, Open, Delete, and an Actions dropdown. The 'Upload' button is highlighted with a red box. Below the toolbar is a search bar labeled 'Find objects by prefix' and a table header with columns: Name, Type, Last modified, Size, and Storage class. The table currently displays 'No objects' and a message: 'You don't have any objects in this bucket.'

← → ↺

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

Google, Star, Menu, S, ...

aws

Services

Search [Alt+S]

EC2, Route 53

Global, sivakumar

Amazon S3 > Buckets > lockthreat > 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 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 folders**.

Files and folders (0)

All files and folders in this table will be uploaded.

Find by name

	Name	Folder
No files You have not chosen any		

Remove, Add files, Add folder

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

aws, Services, Search [Alt+S], EC2, Route 53, Global, sivakumar

<input type="checkbox"/>	2.EC2 Machine.pptx	-	application/vnd.openxmlformats-officedocument.presentationml.presentation	2.7 MB
<input type="checkbox"/>	anjana.jpeg	-	image/jpeg	95.3 KB

Destination


Destination
s3://lockthreat

► 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



 Upload succeeded

View details below.

Upload: status

Close

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

Summary		
Destination s3://lockthreat	Succeeded  2 files, 2.8 MB (100.00%)	Failed  0 files, 0 B (0%)

- Files and folders
- Configuration

Files and folders (2 Total, 2.8 MB)	

So files are uploaded, in below screen we have an object URL lets copy and paste in google will check page will open or not

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with the AWS logo, 'Services' link, a search bar, and user information 'sivakumar'. Below the navigation bar, the breadcrumb trail reads 'Amazon S3 > Buckets > lockthreat > 2.EC2 Machine.pptx'. The main heading is '2.EC2 Machine.pptx' with an 'Info' link. To the right of the heading are buttons for 'Copy S3 URI', 'Download', 'Open', and 'Object actions'. Below the heading are tabs for 'Properties', 'Permissions', and 'Versions'. The 'Properties' tab is selected, showing an 'Object overview' section. This section is divided into two columns. The left column contains 'Owner' (a long alphanumeric string), 'AWS Region' (Asia Pacific (Mumbai) ap-south-1), 'Last modified' (December 20, 2022, 15:55:02 (UTC+05:30)), 'Size' (2.7 MB), and 'Type' (pptx). The right column contains 'S3 URI' (s3://lockthreat/2.EC2 Machine.pptx), 'Amazon Resource Name (ARN)' (arn:aws:s3:::lockthreat/2.EC2 Machine.pptx), 'Entity tag (Etag)' (8fc705f978f125f1038ef16ce80d4211), and 'Object URL' (https://lockthreat.s3.ap-south-1.amazonaws.com/2.EC2+Machine.pptx). The 'Object URL' is highlighted with a black rounded rectangle.

aws Services Search [Alt+S] Global sivakumar

EC2 Route 53

Amazon S3 > Buckets > lockthreat > 2.EC2 Machine.pptx

2.EC2 Machine.pptx Info

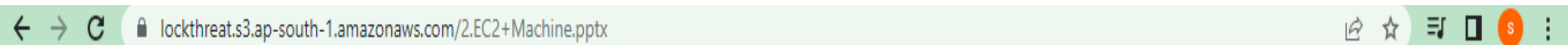
Copy S3 URI Download Open Object actions

Properties Permissions Versions

Object overview

Owner	f28221b48f445cd5681f370ab7486f50d63fa1c15ce4f3b651f996c54a3d5793
AWS Region	Asia Pacific (Mumbai) ap-south-1
Last modified	December 20, 2022, 15:55:02 (UTC+05:30)
Size	2.7 MB
Type	pptx
S3 URI	s3://lockthreat/2.EC2 Machine.pptx
Amazon Resource Name (ARN)	arn:aws:s3:::lockthreat/2.EC2 Machine.pptx
Entity tag (Etag)	8fc705f978f125f1038ef16ce80d4211
Object URL	https://lockthreat.s3.ap-south-1.amazonaws.com/2.EC2+Machine.pptx

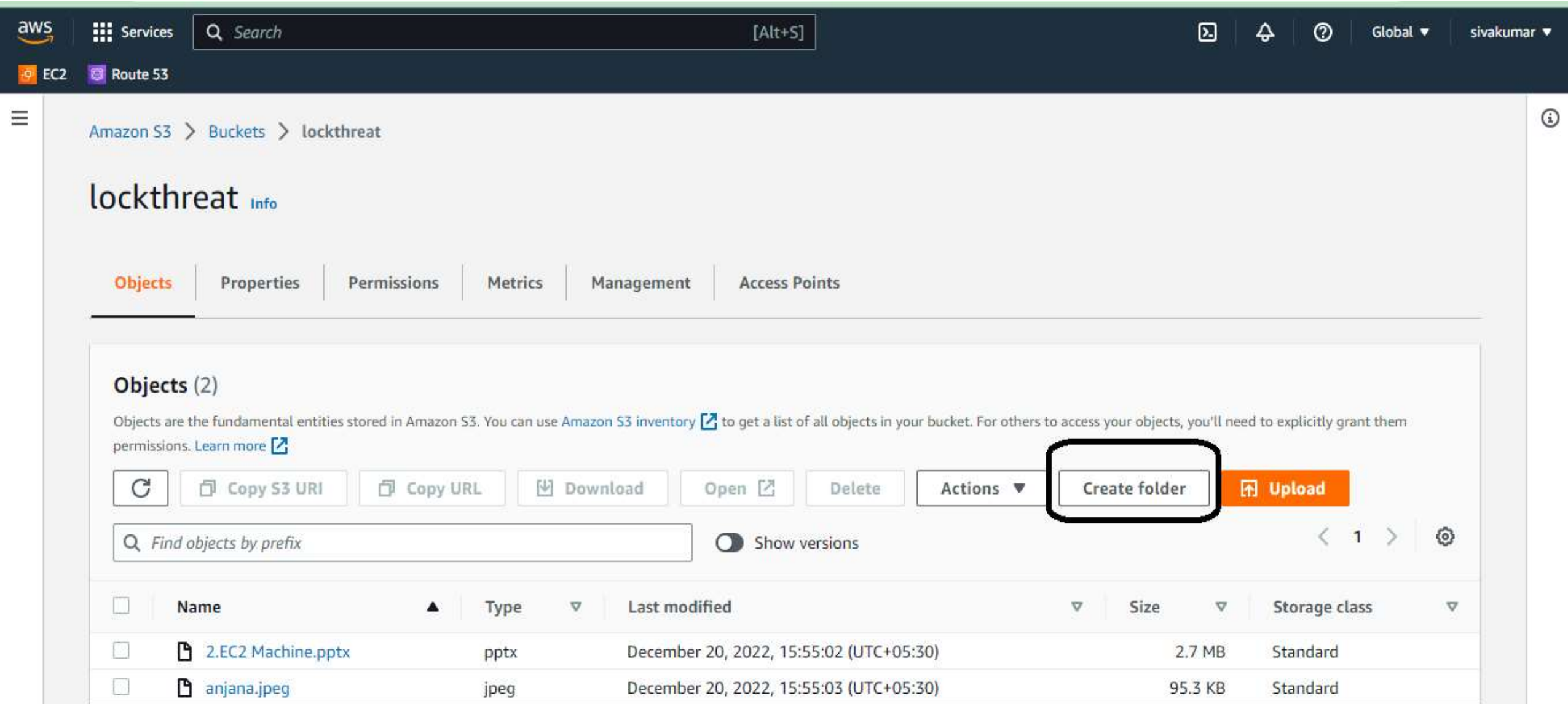
- We've disabled public access to our bucket, we are not allowed to use,
- since the file doesn't have public access, we blocked all public access.





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>Access Denied</Message>
  <RequestId>40RKKB9RVK8ZX5BJ</RequestId>
  <HostId>u5uyiBoOnU3a10uAHU0QZRXdK2tFELlf6G9RoqJxzHVqjAhLqdbPcsNDj03HGEmCoGkeW0FS5+E=</HostId>
</Error>
```


Let we create a folder S3 uses a flat structure to organize objects



The screenshot shows the Amazon S3 console interface. At the top, there's a navigation bar with the AWS logo, 'Services' link, a search bar, and user information 'sivakumar'. Below the navigation bar, the breadcrumb trail reads 'Amazon S3 > Buckets > lockthreat'. The main heading is 'lockthreat' with an 'Info' link. A tabbed interface shows 'Objects' as the active tab, with other tabs for 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. Under the 'Objects' tab, there's a section titled 'Objects (2)' with a descriptive paragraph and a 'Learn more' link. Below this, there's a row of action buttons: a refresh icon, 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', an 'Actions' dropdown menu, a 'Create folder' button (highlighted with a black box), and an 'Upload' button. A search bar labeled 'Find objects by prefix' and a 'Show versions' toggle are also present. At the bottom, a table lists the objects in the bucket.

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	 2.EC2 Machine.pptx	pptx	December 20, 2022, 15:55:02 (UTC+05:30)	2.7 MB	Standard
<input type="checkbox"/>	 anjana.jpeg	jpeg	December 20, 2022, 15:55:03 (UTC+05:30)	95.3 KB	Standard

Folder created

← → ↻ s3.console.aws.amazon.com/s3/buckets/lockthreat/object/create_folder?region=ap-south-1

aws Services Search [Alt+S]

EC2 Route 53

Global ▼ sivakumar ▼

configuration to upload an empty folder and specify the appropriate settings.

Folder

Folder name

lockthreat data /

Folder names can't contain "/". See rules for naming [\[?\]](#)

Server-side encryption

i The following settings apply only to the new folder object and not to the objects contained within it.

Server-side encryption

☒ Disable

☐ Enable

Cancel Create folder

The uploaded files moving to the folder

The screenshot shows the AWS S3 console interface for the 'lockthreat' bucket. The 'Move' action is highlighted in the context menu, and the 'lockthreat data/' folder is selected in the object list.

Navigation: Amazon S3 > Buckets > lockthreat

lockthreat Info

Objects (3)

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. [Learn more](#)

Actions: Copy, Move, Upload, Download, Open, Delete, Create folder, Upload

Find objects by prefix:

Show versions: ☐

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	2.EC2 Machine.pptx	pptx	December 20, 2022, 15:55:02 (UTC+05:30)	2.7 MB	Standard
<input checked="" type="checkbox"/>	anjana.jpeg	jpeg	December 20, 2022, 15:55:03 (UTC+05:30)	95.3 KB	Standard
<input checked="" type="checkbox"/>	lockthreat data/	Folder	-	-	-

- If the bucket you are copying objects from uses the bucket owner enforced setting for S3 Object Ownership, object ACLs will not be copied to the specified destination.
- If you want to copy objects to a bucket that uses the bucket owner enforced setting for S3 Object Ownership, you'll need to ensure that the source bucket also uses the bucket owner enforced setting or object ACL grants to other AWS accounts and groups have been removed.

[Learn more](#)

Destination

Destination type

- ☒ Bucket
- ☐ Access Point

Destination

s3://[bucket-name]/[prefix/]

[View](#)

[Browse S3](#)

Format: s3://[bucket-name]/[prefix/]

Destination bucket name

-

Destination prefix

-

Destination

S3 Buckets > lockthreat

Objects



< 1 >

<input type="checkbox"/>	Name	Storage class	Size	Last modified
<input checked="" type="checkbox"/>	LOCKTHREAT FILE/	-	-	-
<input type="checkbox"/>	2.EC2 Machine.pptx	Standard	2.7 MB	December 20, 2022, 16:53:28 (UTC+05:30)

Cancel

[Choose destination](#)

EC2 Route 53

Specified objects

< 1 >

Name	Type	Last modified	Size
2.EC2 Machine.pptx	pptx	December 20, 2022, 16:53:28 (UTC+05:30)	2.7 MB

Additional checksums

Checksum functions are used for additional data integrity verification of new objects. [Learn more](#)

Additional checksums

- ☒ Copy existing checksum functions

Apply the same checksum function to the destination object. The checksum value may change compared to when it was added. [Learn more](#)

- ☐ Replace with a new checksum function

Specify a new checksum function for additional data integrity validation which will overwrite any existing data integrity settings.

Cancel

[Move](#)

Deleting Steps:

Amazon S3 > Buckets > lockt

lockt [Info](#)

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](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) **Delete** [Actions](#) [Create folder](#) [Upload](#)

☐ Show versions < 1 > [Settings](#)

<input checked="" type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input checked="" type="checkbox"/>	anjana.jpeg	jpeg	December 21, 2022, 16:56:54 (UTC+05:30)	95.3 KB	Standard

aws Services Search [Alt+S] Global sivakumar

EC2 Route 53

Deleting the specified objects adds delete markers to them
If you need to undo the delete action, you can delete the delete markers. [Learn more](#)

Specified objects

< 1 >

Name	Type	Last modified	Size
anjana.jpeg	jpeg	December 21, 2022, 16:56:54 (UTC+05:30)	95.3 KB

Delete objects?

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

[Cancel](#) **Delete objects**

Amazon S3 > Buckets > lockthreat > Delete bucket

Delete bucket [Info](#)



This bucket is not empty

Buckets must be empty before they can be deleted. To delete all objects in the bucket, use the [empty bucket configuration](#).

[empty bucket](#)


Delete bucket "lockthreat"?

To confirm deletion, enter the name of the bucket in the text input field.

lockthreat


aws Services Search [Alt+S]
EC2 Route 53

Empty bucket [Info](#)

 Emptying the bucket deletes all objects in the bucket and cannot be undone.

- Objects added to the bucket while the empty bucket action is in progress might be deleted.
- To prevent new objects from being added to this bucket while the empty bucket action is in progress, you might need to update your bucket policy to stop objects from being added to the bucket.

[Learn more](#)

 If your bucket contains a large number of objects, creating a lifecycle rule to delete all objects in the bucket might be a more efficient way of emptying your bucket. [Learn more](#)

[Go to lifecycle rule configuration](#)

Permanently delete all objects in bucket "lockthreat"?

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

permanently delete

Cancel [Empty](#)



Amazon S3 > Buckets > lockthreat > Delete bucket

Delete bucket [Info](#)



- Deleting a bucket cannot be undone.
- Bucket names are unique. If you delete a bucket, another AWS user can use the name.

[Learn more](#)

Delete bucket "lockthreat"?

To confirm deletion, enter the name of the bucket in the text input field.

lockthreat

Cancel

Delete bucket

Interview Questions

- **What is AWS S3?**
- **What are the benefits of AWS Simple Storage Service?**
- **What is the use of AWS S3?**
- **What is an Object in AWS S3?**
- **Explain the benefits of S3 versioning.**

- Thank You