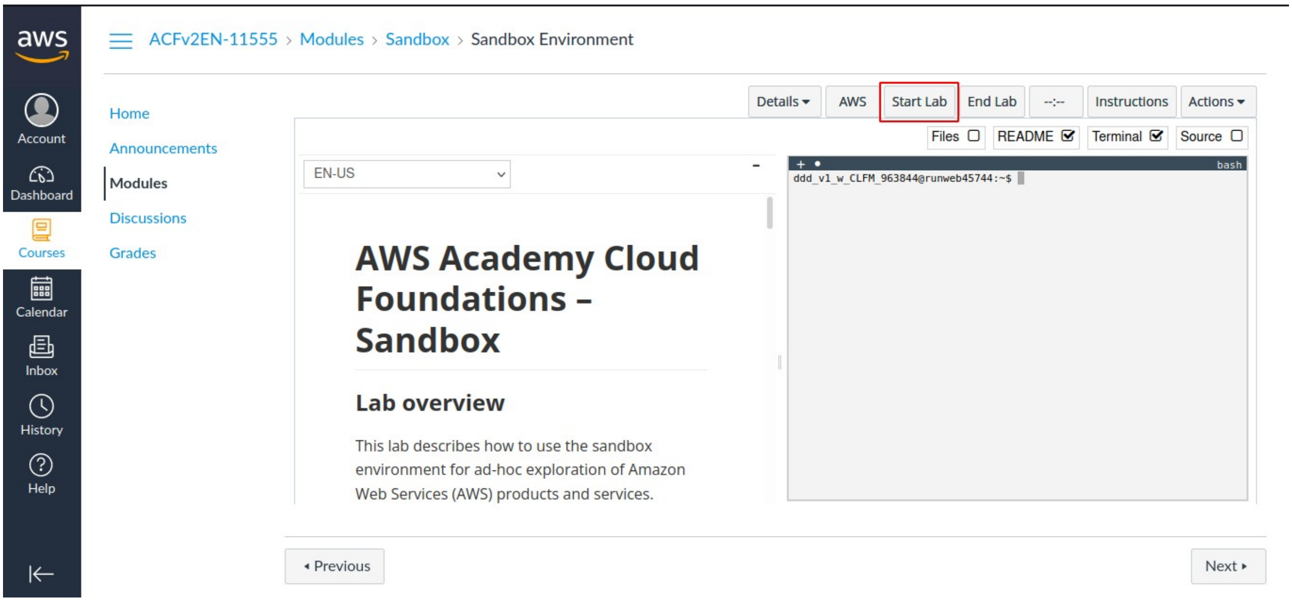
Name: Atharva Mahamuni.
Enroll No: 2002276

Cloud Computing

Practical Assignment No. 4 - *Practical Implementation of Storage as a Service*

Create an S3 Bucket, Upload a file to S3 Bucket, Retrieve a File from S3 Bucket, Delete a File From S3 Bucket using AWS.

Step 1: At the top right panel above the console, choose **Start Lab** to launch your lab.



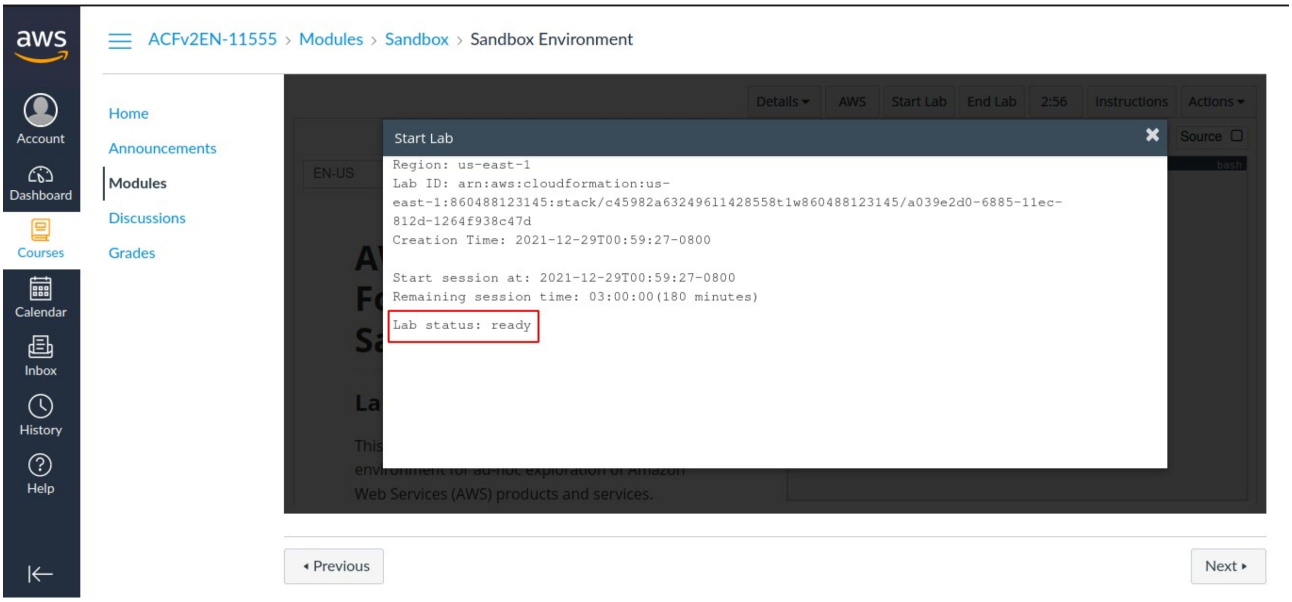
```
ddd_v1_w_CLFM_963844@runweb45744:~$
```

AWS Academy Cloud Foundations – Sandbox

Lab overview

This lab describes how to use the sandbox environment for ad-hoc exploration of Amazon Web Services (AWS) products and services.

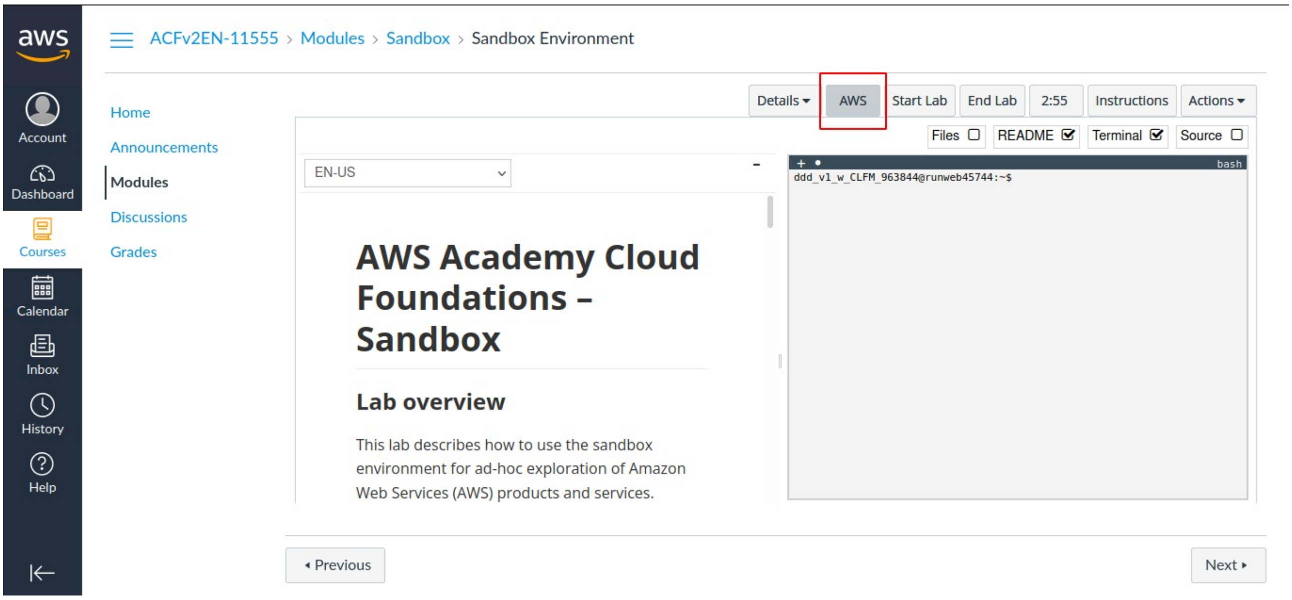
Step 2: Wait until you see the message "**Lab status: ready**", then choose the **X** to close the Start Lab panel.



```
Region: us-east-1
Lab ID: arn:aws:cloudformation:us-
east-1:860488123145:stack/c45982a63249611428558t1w860488123145/a039e2d0-6885-11ec-
812d-1264f938c47d
Creation Time: 2021-12-29T00:59:27-0800

Start session at: 2021-12-29T00:59:27-0800
Remaining session time: 03:00:00(180 minutes)
Lab status: ready
```

Step 3: Now choose AWS
This will open the AWS Management Console in a new browser tab. The system will automatically log you in.



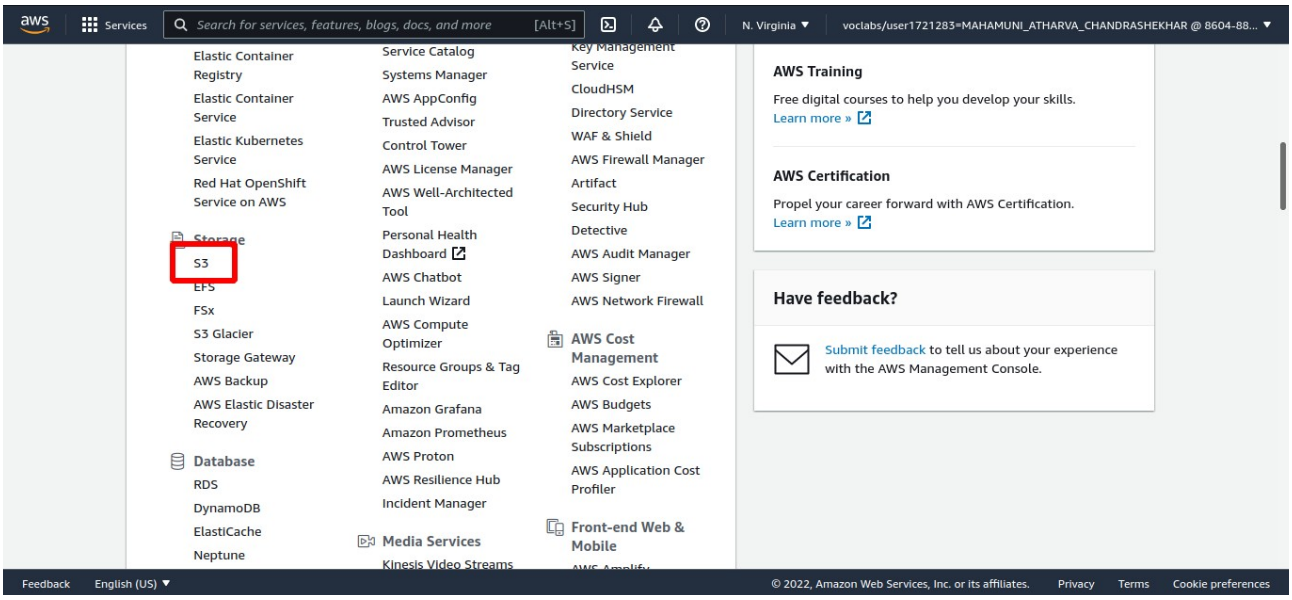
```
ddd_v1_w_CLFM_963844@runweb45744:~$
```

AWS Academy Cloud Foundations – Sandbox

Lab overview

This lab describes how to use the sandbox environment for ad-hoc exploration of Amazon Web Services (AWS) products and services.

Step 4: In the **AWS Management Console** on the **Services** menu, choose S**3**.



AWS Training

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Have feedback?

Submit feedback to tell us about your experience with the AWS Management Console.

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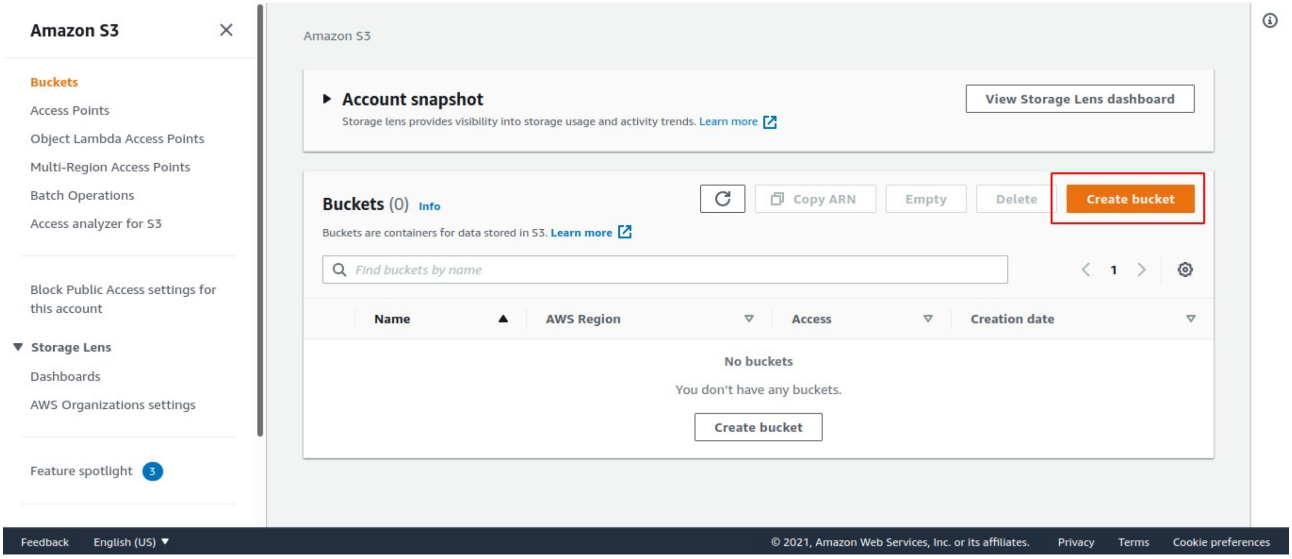
Step 5: Click on C**reate bucket**.



Account snapshot

Storage lens provides visibility into storage usage and activity trends. Learn more

Buckets (0) Info

Buckets are containers for data stored in S3. Learn more

No buckets

You don't have any buckets.

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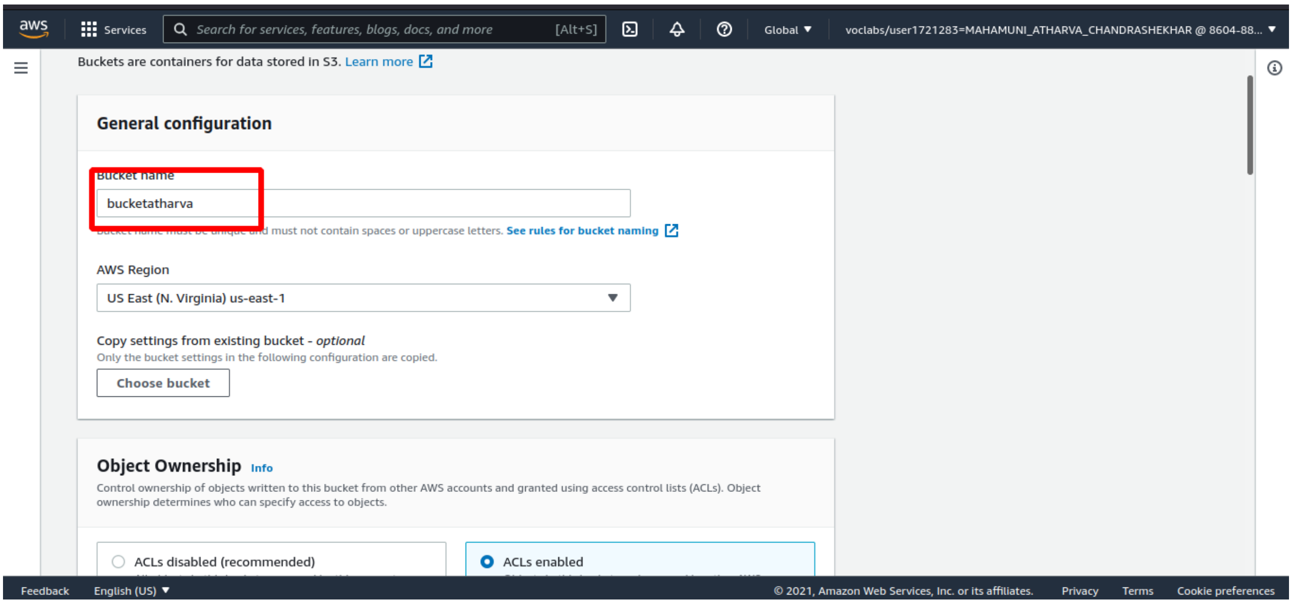
Step 6: Add bucket name.


aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global
voclabs/user1721283=MAHAMUNI_ATHARVA_CHANDRASHEKHAR @ 8604-88...
Choose bucket
Info
Feedback
English (US)
Privacy
Terms
Cookie preferences

Buckets are containers for data stored in S3. Learn more

General configuration

Bucket name

bucketatharva

Bucket name must be unique and must not contain spaces or uppercase letters. See rules for bucket naming

AWS Region

US East (N. Virginia) us-east-1

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

Object Ownership

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

○ ACLs disabled (recommended)

● ACLs enabled

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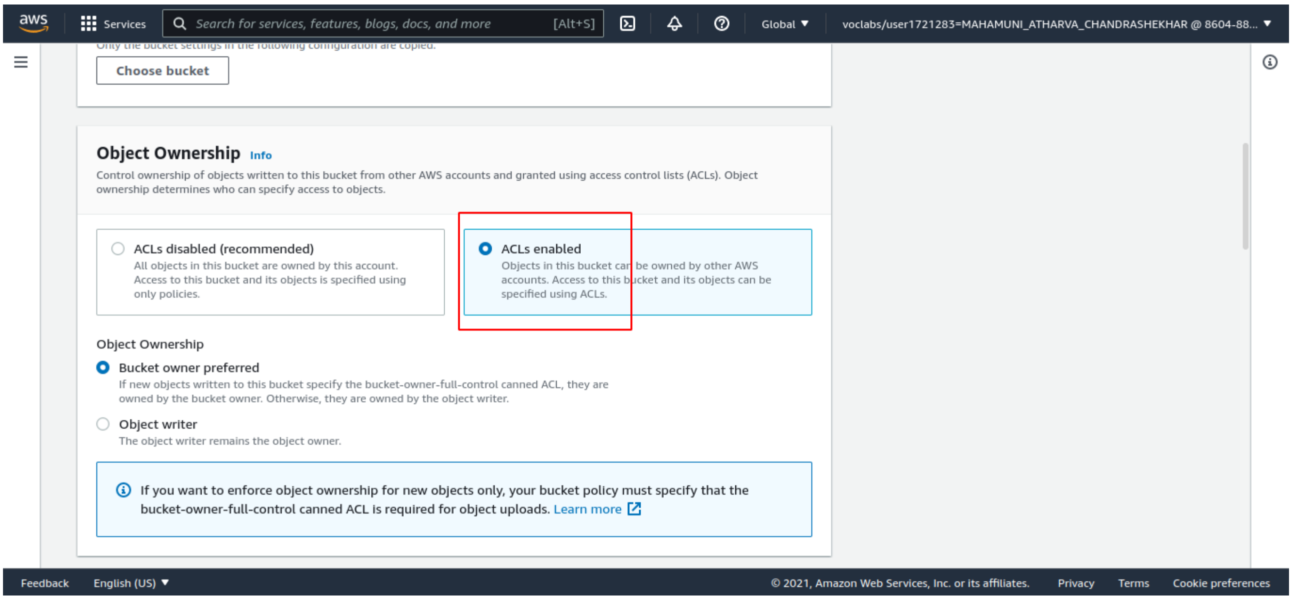
Step 7: Select ACLs enabled and scroll down.


aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global ▼
voclabs/user1721283=MAHAMUNI_ATHARVA_CHANDRASHEKHAR @ 8604-88... ▼
Choose bucket

Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and granted using 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.

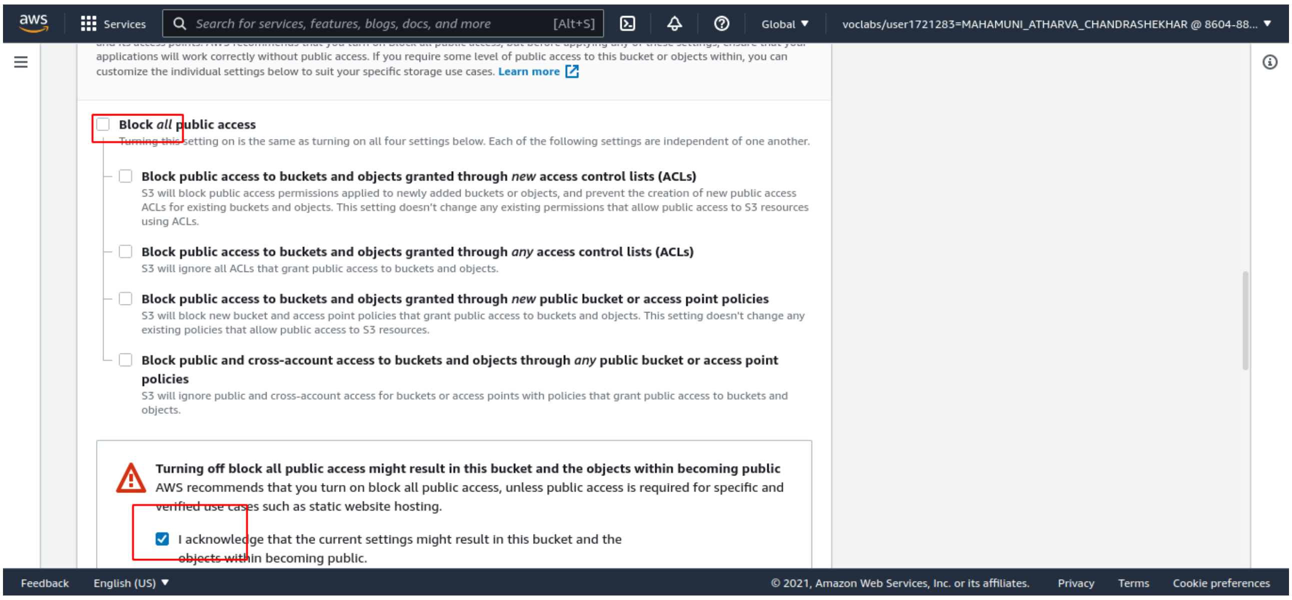
Object Ownership

● 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.

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

Step 8**:** Remove checkbox of **block public access** and select **I acknowledge that…**


aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global ▼
voclabs/user1721283=MAHAMUNI_ATHARVA_CHANDRASHEKHAR @ 8604-88... ▼

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.

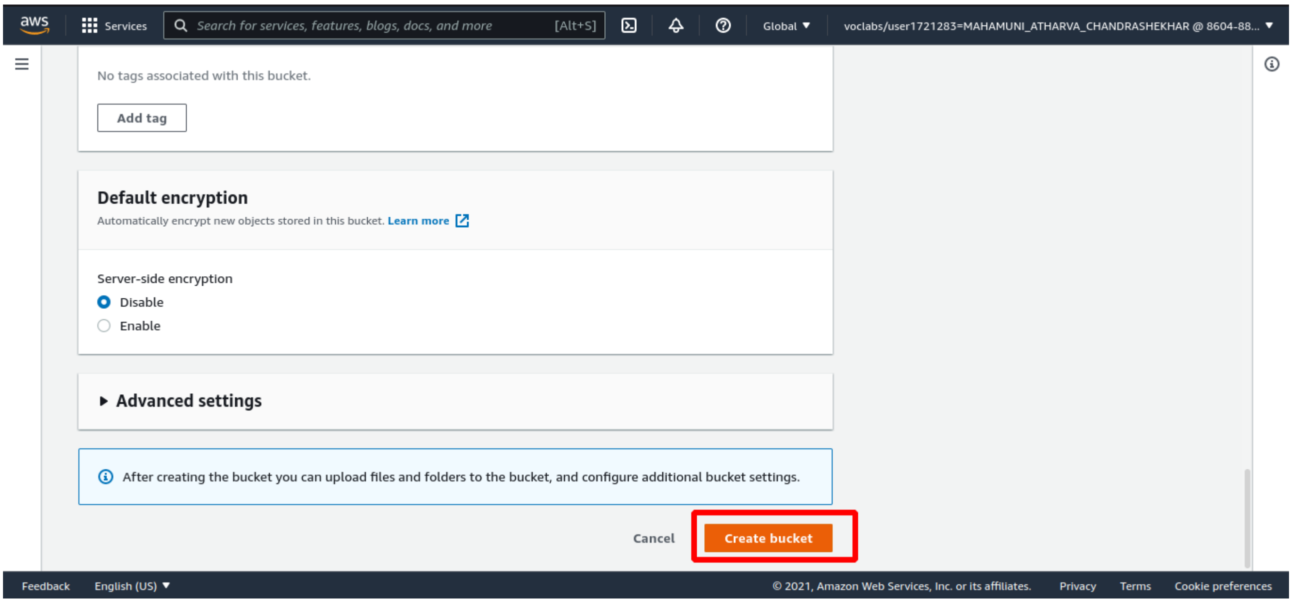
□ **Block public access to buckets and objects granted through *new* public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

□ **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.

Step 9**:** scroll down and click on **create bucket.**


aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Global ▼
voclabs/user1721283=MAHAMUNI_ATHARVA_CHANDRASHEKHAR @ 8604-88... ▼
Add tag
Advanced settings
Cancel
Create bucket
Feedback
English (US) ▼
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Cookie preferences

No tags associated with this bucket.

Default encryption

Automatically encrypt new objects stored in this bucket. Learn more

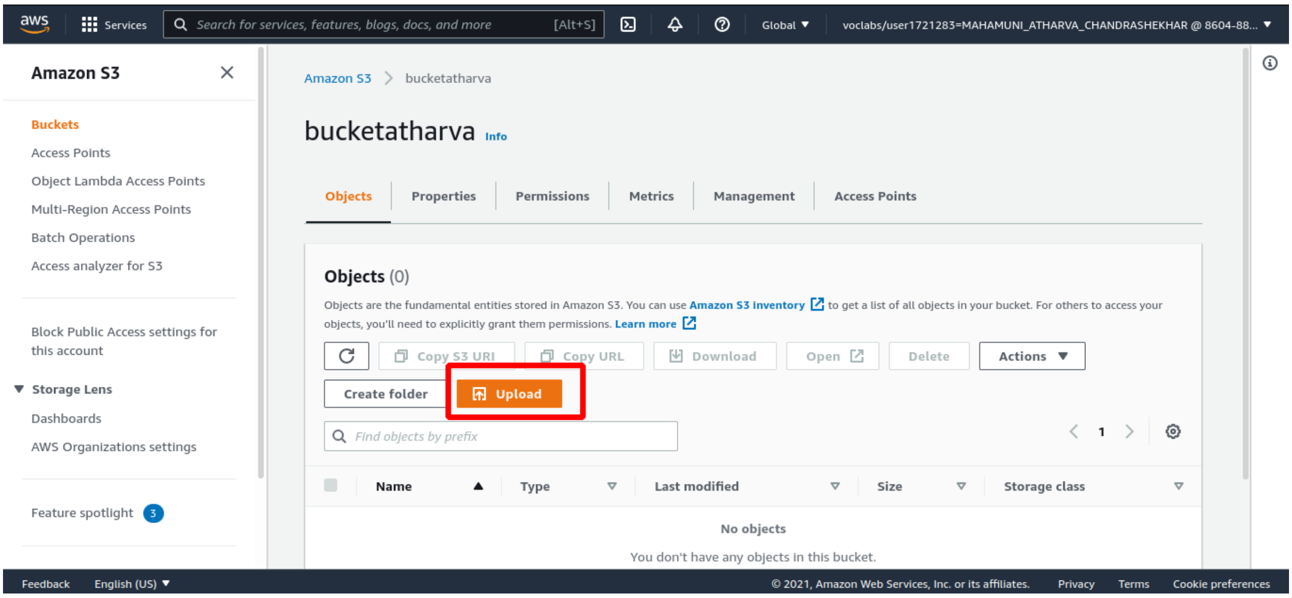
Server-side encryption

● Disable

○ Enable

After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

Step 10: Select your bucket and Choose **upload**



bucketatharva

Objects (0)

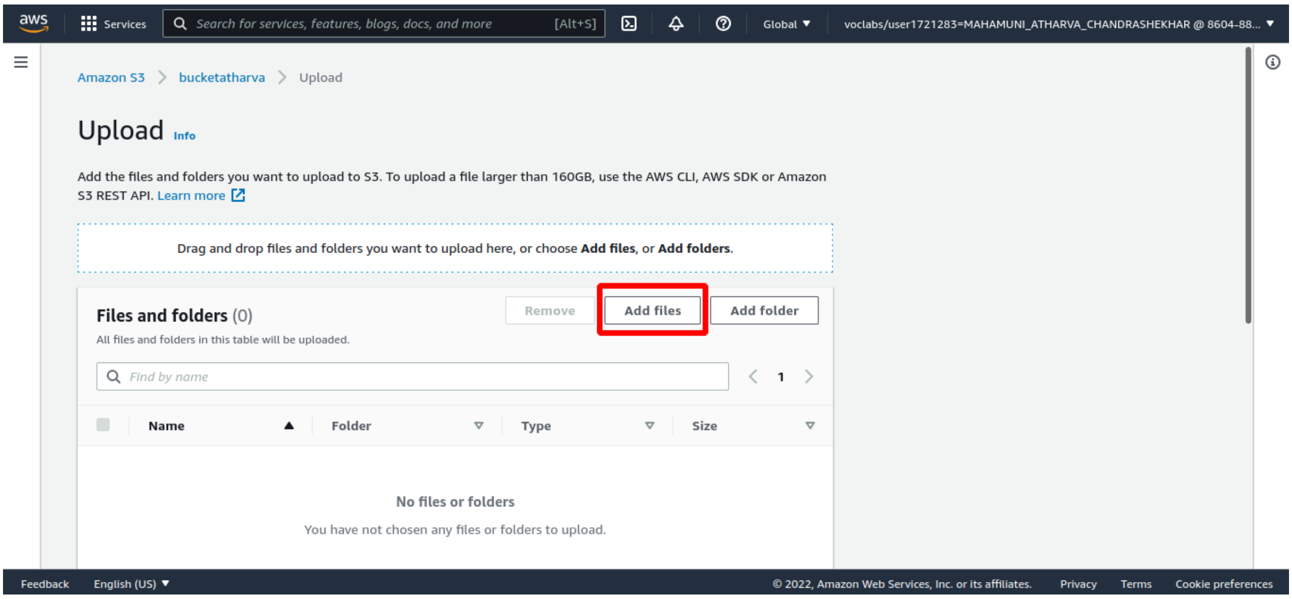
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more

Name ▲	Type	Last modified	Size	Storage class

No objects

You don't have any objects in this bucket.

Step 11: Click on **add files** and select a file to upload and click **Upload**.


aws
Services
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[Alt+S]
Global
voclabs/user1721283=MAHAMUNI_ATHARVA_CHANDRASHEKHAR @ 8604-88...
Amazon S3 > bucketatharva > Upload
Remove
Add files
Add folder
Find by name
Name
Folder
Type
Size
Feedback
English (US)
Privacy
Terms
Cookie preferences

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.

No files or folders

You have not chosen any files or folders to upload.

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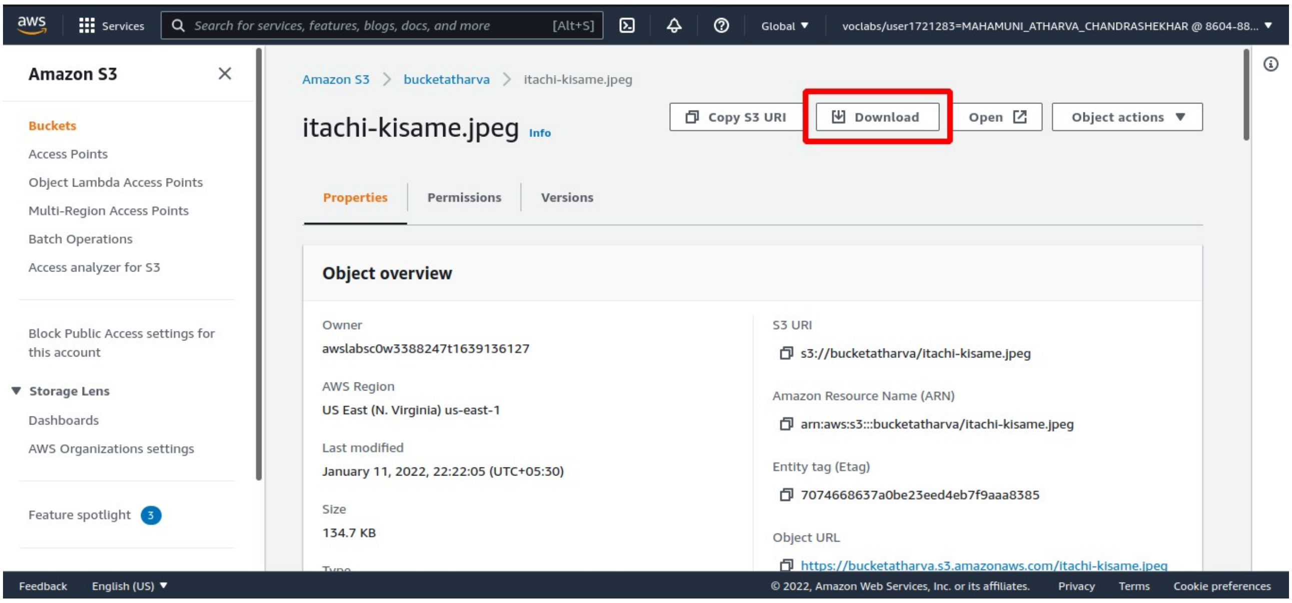
Step 12: click on the file and select **Download**.


aws
Services
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Global
voclabs/user1721283=MAHAMUNI_ATHARVA_CHANDRASHEKHAR @ 8604-88...
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
Amazon S3 > bucketatharva > itachi-kisame.jpeg
Copy S3 URI
Download
Open
Object actions
Properties
Permissions
Versions
Feedback
English (US)
Privacy
Terms
Cookie preferences

itachi-kisame.jpeg Info

Object overview

Owner
awslabsc0w3388247t1639136127

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

Last modified
January 11, 2022, 22:22:05 (UTC+05:30)

Size
134.7 KB

S3 URI
s3://bucketatharva/itachi-kisame.jpeg

Amazon Resource Name (ARN)
arn:aws:s3:::bucketatharva/itachi-kisame.jpeg

Entity tag (Etag)
7074668637a0be23eed4eb7f9aaa8385

Object URL
https://bucketatharva.s3.amazonaws.com/itachi-kisame.jpeg

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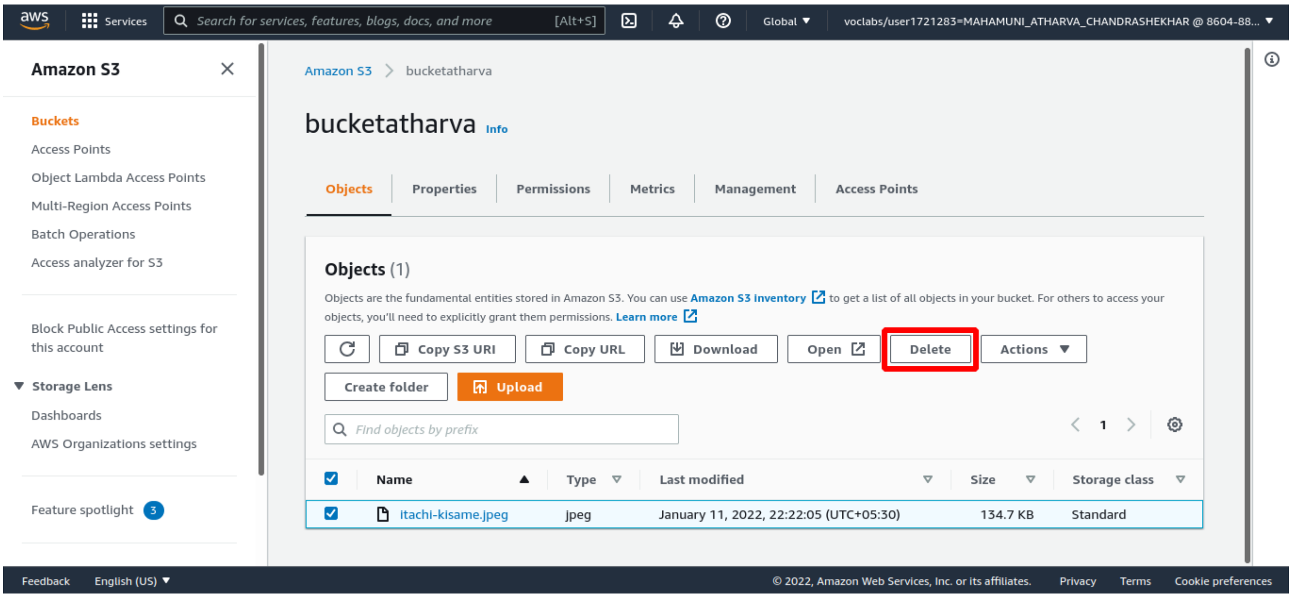
Step 13: Select a file and click on **Delete.**

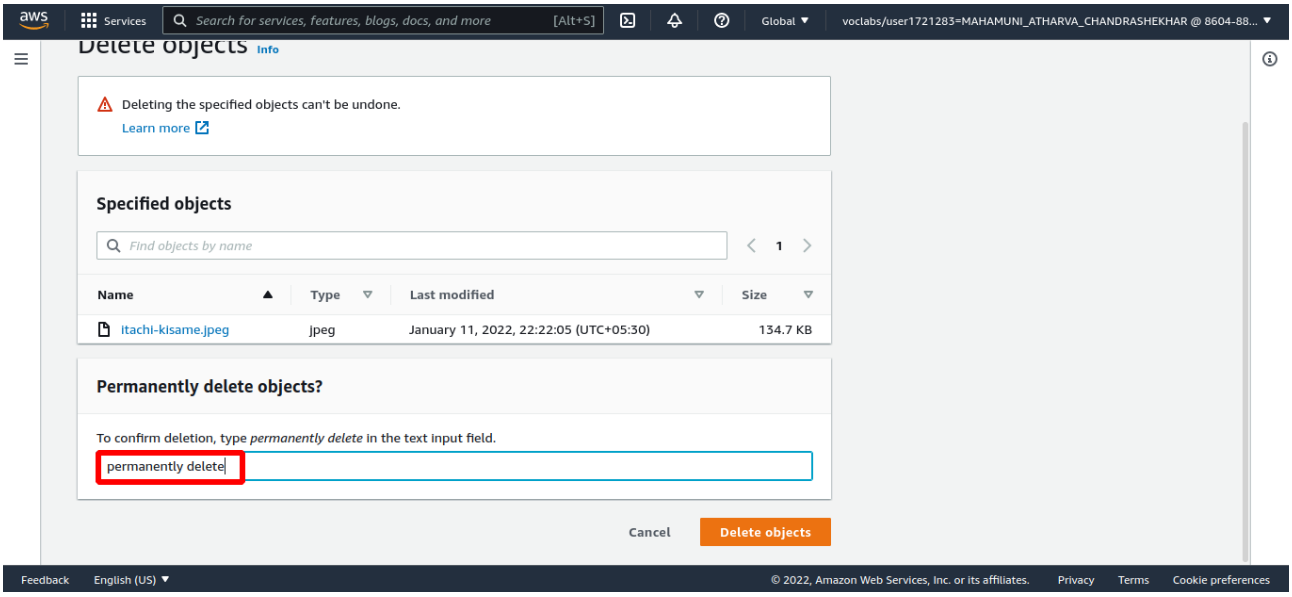


Objects (1)

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
☑	itachi-kisame.jpeg	jpeg	January 11, 2022, 22:22:05 (UTC+05:30)	134.7 KB	Standard

Step 14: type **permanently delete** and click **Delete objects**.


aws
Services
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Global
voclabs/user1721283=MAHAMUNI_ATHARVA_CHANDRASHEKHAR @ 8604-88...
Delete objects Info
Learn more
Find objects by name
1
Cancel
Delete objects
Feedback
English (US)
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Deleting the specified objects can't be undone.

Specified objects

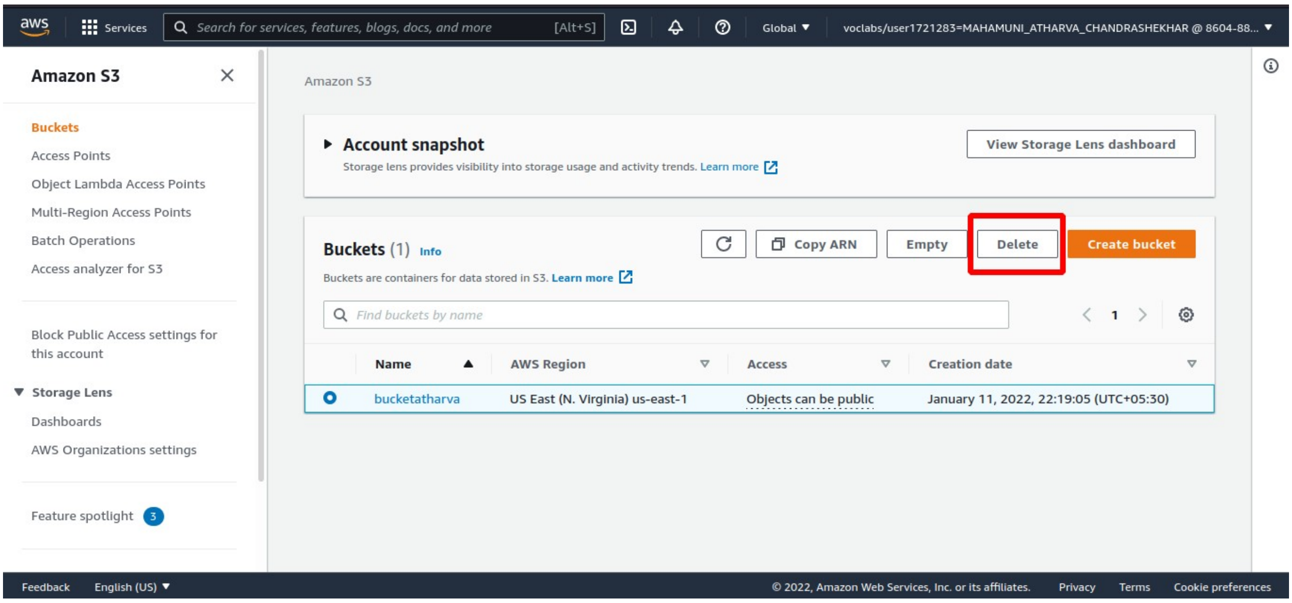
Name	Type	Last modified	Size
itachi-kisame.jpeg	jpeg	January 11, 2022, 22:22:05 (UTC+05:30)	134.7 KB

Permanently delete objects?

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

permanently delete

Delete your bucket and end lab.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Global ▼
voclabs/user1721283=MAHAMUNI_ATHARVA_CHANDRASHEKHAR @ 8604-88... ▼
Amazon S3
Buckets
Access Points
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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
Amazon S3
▶ Account snapshot
View Storage Lens dashboard
Buckets (1) Info
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
1
Feedback
English (US) ▼
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Storage lens provides visibility into storage usage and activity trends. Learn more

Buckets are containers for data stored in S3. Learn more

	Name ▲	AWS Region	Access	Creation date
●	bucketatharva	US East (N. Virginia) us-east-1	Objects can be public	January 11, 2022, 22:19:05 (UTC+05:30)