



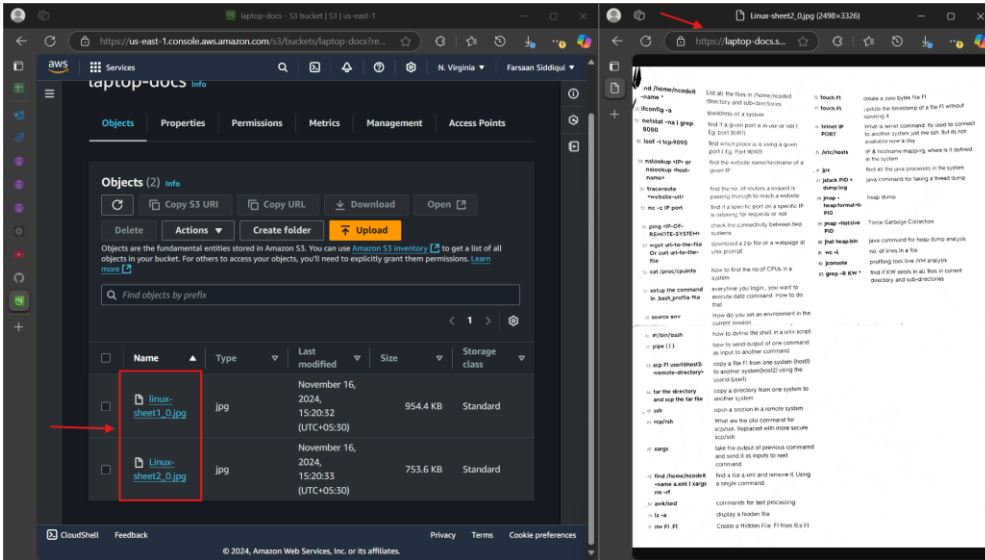
1) Create s3 bucket and upload some objects to s3.

*GO TO S3 AND CREATE NEW BUCKET

*SELECT THE CREATED BUCKET AND UPLOAD FILES FROM LOCAL MACHINE THOSE ARE CALLED OBJECTS AFTER UPLOADED

*MAKE SURE THE PERMISSIONS ARE GIVEN AS PUBLIC ACCESSABLE

*COPY THE OBJECT URL AND TEST IT IN NEW WINDOW

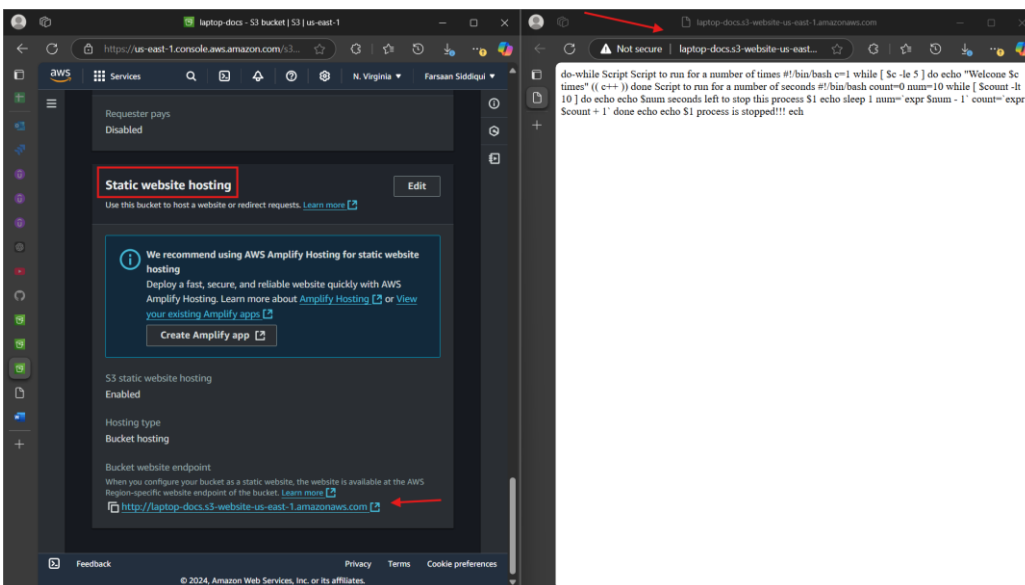


2) Deploy static website in s3 bucket.

*GO TO BUCKET AND SELECT PROPERTIES SCROLL ALL THE WAY DOWN EDIT STATIC WEBSITE HOSTING AND ADD THE WEB PAGE NAME

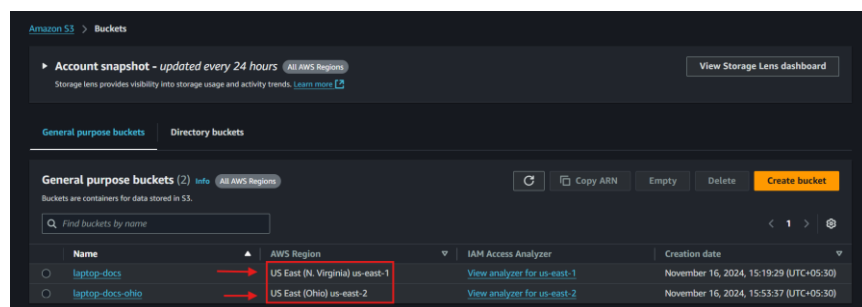
*GO TO OBJECTS AND UPLOAD THE WEB PAGE FILR THERE WITH THE SAME NAME AND ALLOW ACL PERMISSION AS PUBLIC

*NOW WITH THE BUCKET URL TEST THE PAGE



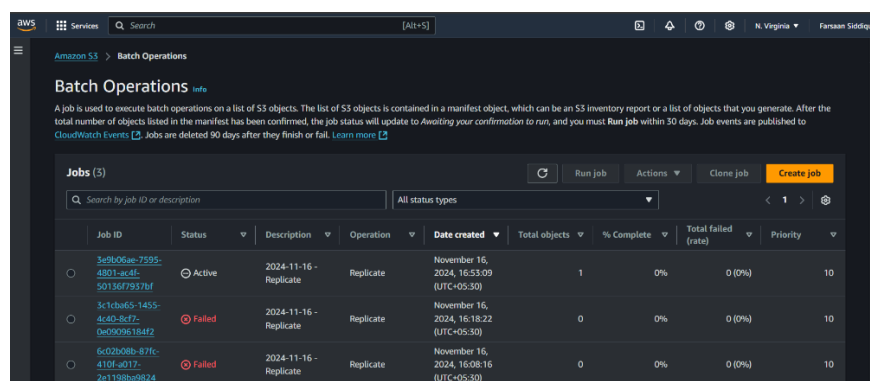
3) Enable cross region replication on s3 buckets.

*CREATE TWO BUCKETS IN DIFFERENT REGION



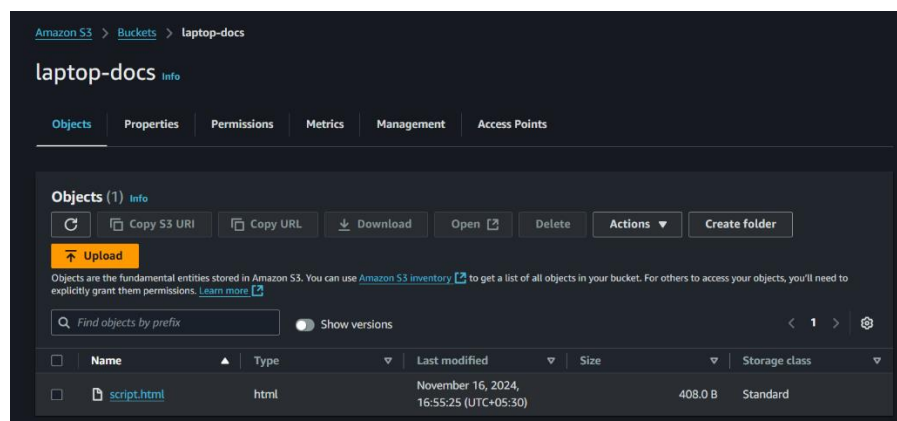
*SELECT THE SOURCE BUCKET AND GO TO MANAGEMENT>CREATE RELICATION RULE AND FOLLOW THE STEPS

(AT THE POINT OF ROLE JUST SELECT CREATE NEW ROLE AND IT WILL CREATE A JSON FORMAT ROLE)

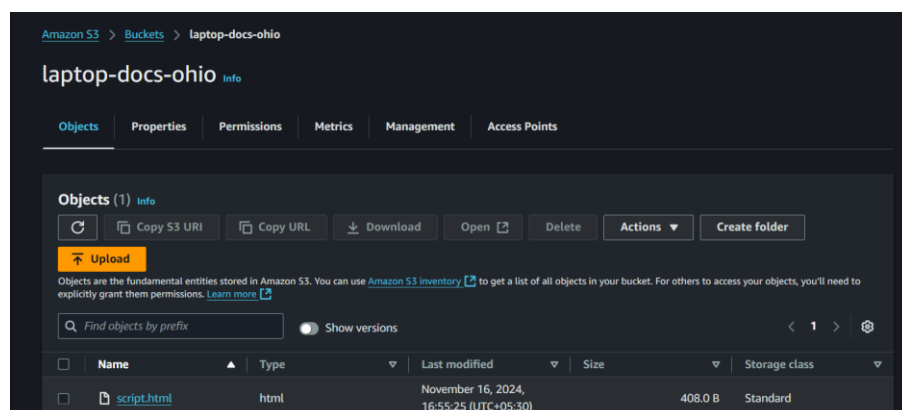


*NOW ADD A FILE IN SOURCE BUCKET AND CHECK THE DESTINATION BUCKET IF THE FILE IS REPLICATED OR NOT.

>>SOURCE BUCKET

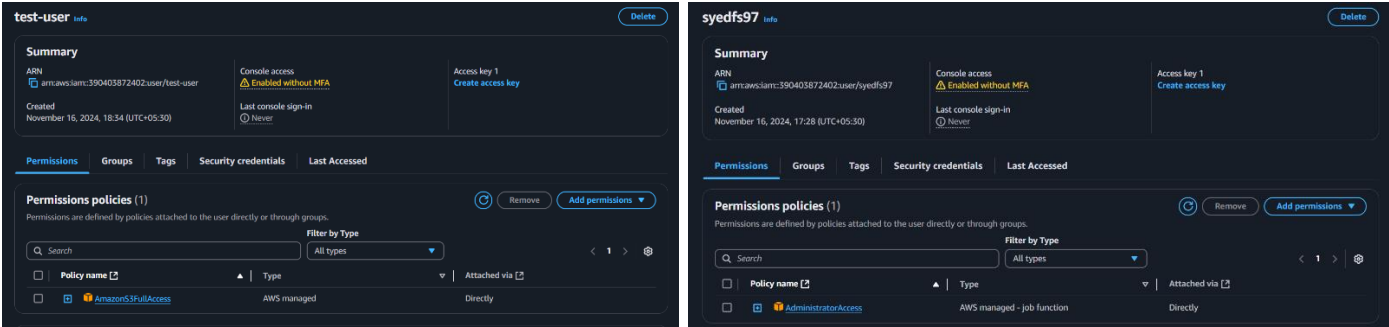


>>DESTINATION BUCKET



4) Configure bucket policy,only Admin user can see the objects of s3 bucket.

*CREATING TWO USERS 1.WITH ADMIN ACCESS 2.WITH FULL S3 ACCESS.



*NOW ADD THE POLICY TO BUCKET FOR WHICH ONLY ADMIN CAN ACCESS THE OBJECTS

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "Principal": "*",
      "Action": "s3:*",
      "Resource": [
        "arn:aws:s3:::laptop-docs-ohio",
        "arn:aws:s3:::laptop-docs-ohio/*"
      ],
      "Condition": {
        "StringNotEquals": {
          "aws:userid": "arn:aws:iam::390403872402:user/syedfs97"
        }
      }
    },
    {
      "Effect": "Allow",
      "Principal": {
        "AWS": "arn:aws:iam::390403872402:user/syedfs97"
      },
      "Action": "s3:*",
      "Resource": [
        "arn:aws:s3:::laptop-docs-ohio",
        "arn:aws:s3:::laptop-docs-ohio/*"
      ]
    }
  ]
}
```

*NOW TEST WITH BOTH THE ACCOUNTS TO ACCESS THE OBJECTS OF BUCKET

The screenshot shows the AWS S3 console for the bucket 'laptop-docs-ohio'. The user is 'test-user @ 3904-0387-2402'. The 'Objects' tab is selected, but a red error message is displayed: 'Insufficient permissions to list objects. After you or your AWS administrator has updated your permissions to allow the s3:ListBucket action, refresh the page. Learn more about Identity and access management in Amazon S3'. The error message is highlighted with a red box.

Amazon S3

laptop-docs-ohio

Objects Properties Permissions Metrics Management Access Points

Objects Info

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

Insufficient permissions to list objects

After you or your AWS administrator has updated your permissions to allow the s3:ListBucket action, refresh the page. Learn more about [Identity and access management in Amazon S3](#)

CloudShell Feedback

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*ACCESS DENIED FROM TEST-USER WITH FULL S3 ACCESS

The screenshot shows the AWS S3 console for the bucket 'laptop-docs-ohio'. The user is 'syedfs97 @ 3904-0387-2402'. The 'Objects' tab is selected, and the 'Upload' button is highlighted in orange. The objects are listed in a table:

Name	Type	Last modified	Size	Storage class
script.html	html	November 16, 2024, 16:55:25 (UTC+05:30)	408.0 B	Standard
send_s3.txt	txt	November 16, 2024, 17:55:21 (UTC+05:30)	0 B	Standard
test_file	file	November 16, 2024, 18:30:52 (UTC+05:30)	1.0 GB	Standard

Amazon S3

laptop-docs-ohio

Objects Properties Permissions Metrics Management Access Points

Objects (3) Info

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Upload

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1

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CloudShell Feedback

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*SYEDFS97 WITH FULL ADMIN ACCESS CAN SEE THE OBJECTS OF BUCKET

6) Push some objects in s3 using AWS CLI.

```
syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$ aws configure
AWS Access Key ID [*****U3FF]: AKIAVVZPCK2JIBPNBCVT
AWS Secret Access Key [*****QiIM]: 6cBksPrdBkHGzt3vFifkUYt0iu1BI+ICEF
gnXDSb
Default region name [ap-southeast-2]: us-east-1
Default output format [json]:

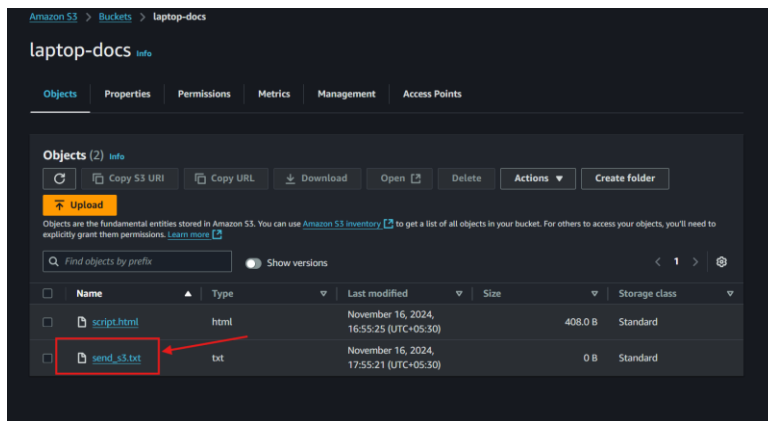
syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$ aws s3 ls
2024-11-16 15:19:29 laptop-docs
2024-11-16 15:53:37 laptop-docs-ohio

syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$ aws s3 cp send_s3.txt arn:aws:s3::laptop-docs

usage: aws s3 cp <LocalPath> <S3Uri> or <S3Uri> <LocalPath> or <S3Uri> <S3Uri>
Error: Invalid argument type

syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$ aws s3 cp send_s3.txt s3://laptop-docs/
upload: .\send_s3.txt to s3://laptop-docs/send_s3.txt

syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$
```



7) Write a bash script to create s3 bucket.

```
syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$ vi s3bucket.sh

syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$ ./s3bucket.sh
{
  "Location": "/s3-bucket0681007"
}

Bucket s3-bucket0681007 created successfully in region us-east-1.


syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$ cat s3bucket.sh
#!/bin/bash

# Variables
BUCKET_NAME="s3-bucket0681007"
REGION="us-east-1" # Change to your desired region

# Create S3 bucket
aws s3api create-bucket --bucket $BUCKET_NAME --region $REGION

# Check if the bucket was created successfully
if [ $? -eq 0 ]; then
  echo "Bucket $BUCKET_NAME created successfully in region $REGION."
else
  echo "Failed to create bucket $BUCKET_NAME."
fi

syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$
```

 s3-bucket0681007	US East (N. Virginia) us-east-1	View analyzer for us-east-1	November 16, 2024, 18:53:27 (UTC+05:30)
--	---------------------------------	---	---

8) Upload one 1 gb of file to s3 using cli.

*CREATEING 1GB FILE

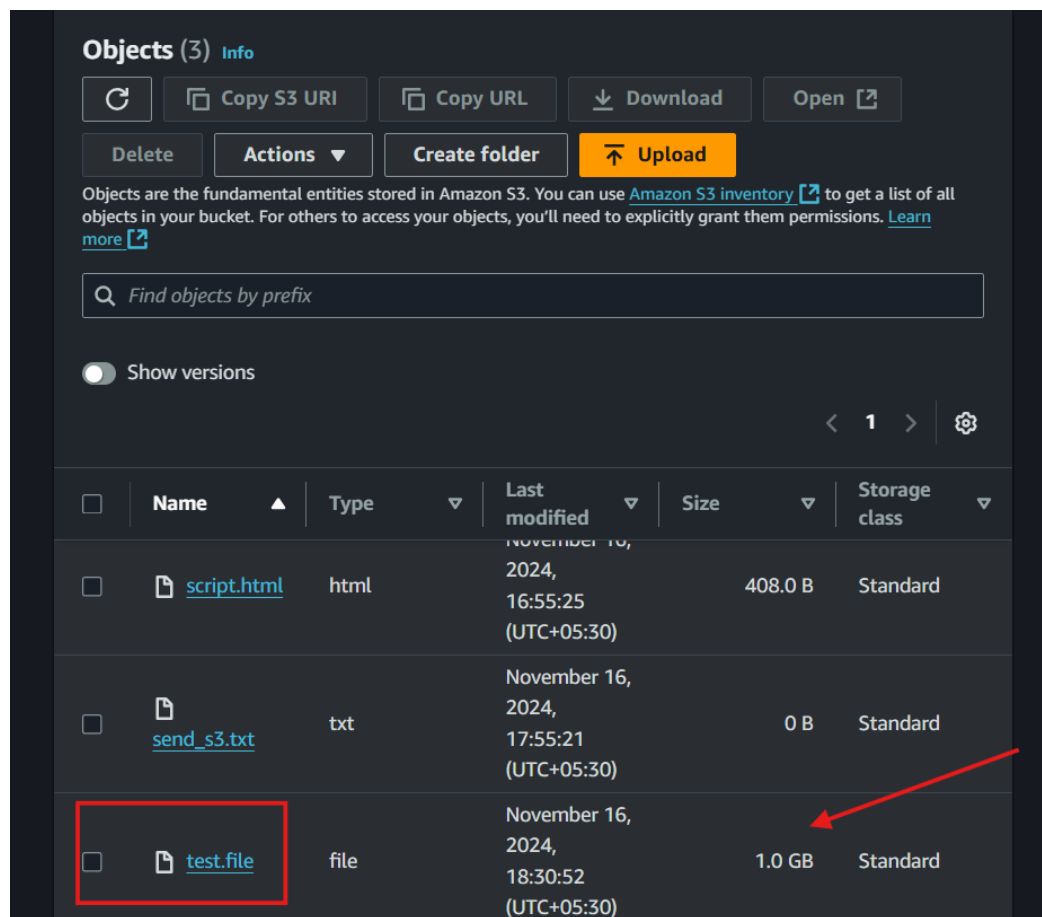
*UPLOADING IT TO S3 BUCKET

```
syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$ truncate -s 1G test.file

syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$ ls -lh | grep test.file
-rw-r--r-- 1 syedf 197609 1.0G Nov 16 18:30 test.file

syedf@LAPTOP-AM5KM6HG MINGW64 ~/OneDrive/Desktop (master)
$ aws s3 cp test.file s3://laptop-docs/
Completed 240.2 MiB/1.0 GiB (2.3 MiB/s) with 1 file(s) remaining
```

*CHECKING THE BUCKET



The screenshot shows the Amazon S3 console interface. At the top, there are buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'. Below these is a search bar and a 'Show versions' toggle. The main part of the interface is a table of objects. The table has columns for 'Name', 'Type', 'Last modified', 'Size', and 'Storage class'. Three objects are listed: 'script.html' (408.0 B), 'send_s3.txt' (0 B), and 'test.file' (1.0 GB). The 'test.file' row is highlighted with a red box, and a red arrow points to the '1.0 GB' size value.

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	script.html	html	November 16, 2024, 16:55:25 (UTC+05:30)	408.0 B	Standard
<input type="checkbox"/>	send_s3.txt	txt	November 16, 2024, 17:55:21 (UTC+05:30)	0 B	Standard
<input type="checkbox"/>	test.file	file	November 16, 2024, 18:30:52 (UTC+05:30)	1.0 GB	Standard