#### **CLOUD LAB ASSIGNMENT 2**

## RASHMIKA KASHYAP

## Uploading objects to s3 bucket



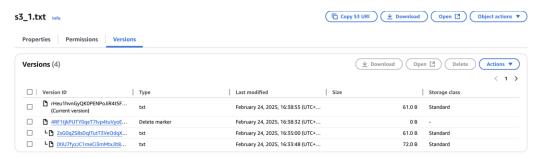
## Public access restricted



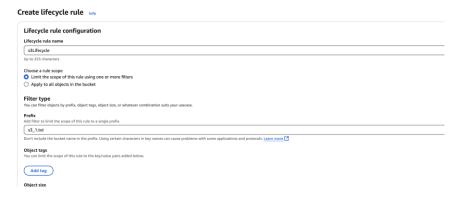
#### Public Access allowed



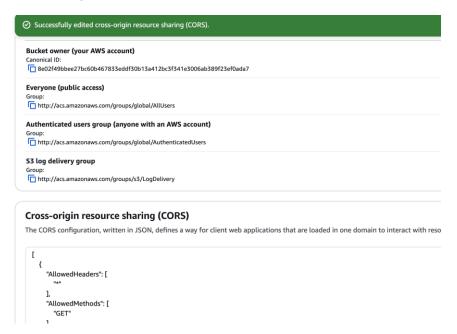
Uploading a text file, enabling versioning of bucket, making change in file; reuploading it: we can see different versions



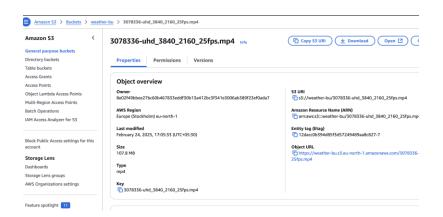
Creating s3 lifecycle policy:



# **Enabling CORS:**

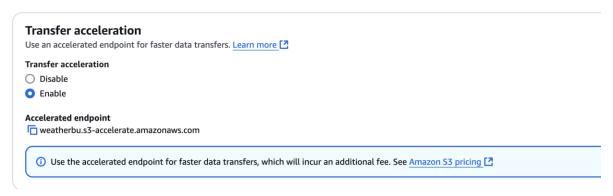


# Uploading a video directly on s3:

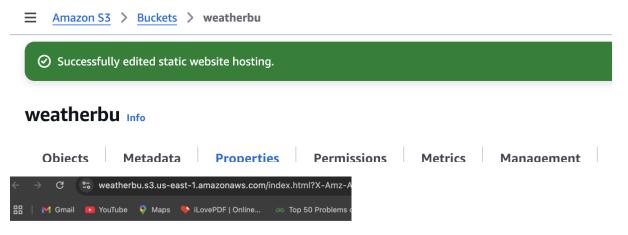


Now using transfer acceleration, the upload speed has increased:

#### Edit transfer acceleration Info



# Static website hosting using s3:

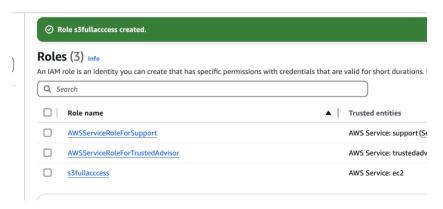


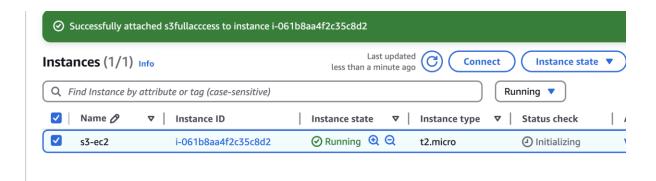
### Welcome to My Simple Page

This is a simple HTML file structure for demonstration purposes.

Click Me

# Creating an IAM role for s3 full access and attaching it to ec2:

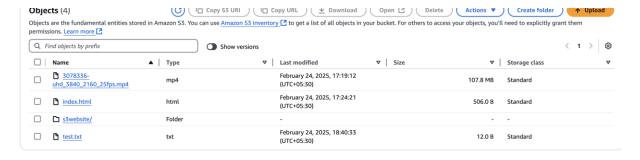




Connecting the ec2 instance and uploading files on s3 from ec2:

```
[root@ip-1/2-31-23-5/ ec2-user]# aws s3 is
2025-02-24 11:48:01 weatherbu
[root@ip-172-31-23-57 ec2-user]# touch test.txt
[root@ip-172-31-23-57 ec2-user]# echo "Hello World" >> test.txt
[root@ip-172-31-23-57 ec2-user]# cat test.txt
Hello World
[root@ip-172-31-23-57 ec2-user]# aws s3 mv test.txt s3://weatherbu
move: ./test.txt to s3://weatherbu/test.txt
```

We can see the test.txt file on s3:



Uploading more files from ec2 to s3:

```
[root8ip-172-31-23-57 ec2-user]# touch new.txt
[root8ip-172-31-23-57 ec2-user]# touch smile.txt
[root8ip-172-31-23-57 ec2-user]# smile.txt s3://weatherbu
mover: /new.txt to s3://weatherbu/new.txt
mover: /new.txt
```

Creating directory home/ec2-user/tmp/ then changing directory to /tmp/:

```
Dependencies remotived.

Nothing to do.

(Rothing to do.)

(Rothin
```

Multi part upload – splitting the video into chunks:

```
oot&ip-172-31-23-57 tmp]# split -b 50M 3078336-uhd_3840_2160_25fps.mp4 chunk_

oot&ip-172-31-23-57 tmp]# ls -1h chunk *

"------ toot root 50M Feb 24 15:13 chunk_aa

------ toot root 50M Feb 24 15:13 chunk_ab

------- toot root 50M Feb 24 15:13 chunk_ac

oot&ip-172-31-23-57 tmp]# aws s3api create-multipart-upload --bucket weather
        ServerSideEncryption": "AES256",
Bucket": "weatherbu",
Key': "2018336-und, 3840_2160_25fps.mp4",
UploadId": "ANE6QokROT7mUCvN8P_Msn6GytbXF2ego71CZWQf581UKOKol.ctlFPyp67djZ53dVXSgNmJMW9_vxBjDyZBS62abc_e8fxlyQhCgcV.X9Q.i6C4qSWc3qhAoLGsuwa1XT8AbV_RXklcXag6
      otfip-172-31-23-57 tmp]# aws s3api upload-part --bucket weatherbu --key 3078336-uhd_3840_2160_25fps.mp4 --part-number 1 --body chunk_aa --upload-id ANE6QokROT
CVN8P_Msn6GytbXF2ego71CZWQf581UKOKo1.ctlFPyp67dj253dVXSgNmJWM9_vxBjDyZBS62abc_e8fxlyQhCqcV.X9Q.i6C4qSWc3qhAoLGsuwa1XT8AbV_RXk1cXag6oaCiYQ--
       "ServerSideEncryption": "AES256",
"ETag": "\"3b9ed4dcc304cc5f508461c7cb4af92b\""
     oot@ip-172-31-23-57 tmp]# aws s3api upload-part --bucket weatherbu --key 3078336-uhd_3840_2160_25fps.mp4 --part-number 2 --body chunk_ab --upload-id ANE6QokROT
JCvN8P_Msn6GytbXF2ego7ICZWQf581UKOKol.ctlFPyp67djZ53dVXSgNmJMW9_vxBjDyZB562abc_e8fxlyQhCqcV.X9Q.i6C4qSWc3qhAoLGsuwalXT8AbV_RXklcXag6oaciYQ--
       "ServerSideEncryption": "AES256",
"ETag": "\"7e456006b68f1128cbec877fe6f68bad\""
       tëip-172-31-23-57 tmp|# nano parts.json
tëip-172-31-23-57 tmp|# aws s3api upload-part --bucket weatherbu --key 3078336-uhd_3840_2160_25fps.mp4 --part-number 3 --body chunk_ac --upload-id ANE6QokROT
vNBP_MBn6GybkFlegof72C8WQf581UKXO61.ctlFPyp67dj253dVXSgNmJWM9_vxBjDyZBS62abc_e8fxLyQhCqcV.X9Q.i6C4qSWc3qhAoL6suwa1XT8AbV_RXk1cXag6oaCiYQ--
       "ServerSideEncryption": "AES256",
"ETag": "\"c579c3ld8d997464b1fa8ea131074a18\""
      ot@ip-172-31-23-57 tmp]# nano parts.json
   rootkip-172-31-23-57 tmp]# aws s3api complete-multipart-upload --bucket weatherbu --key 3078336-uhd_3840_2160_25fps.mp4 --upload-id ANE6QokR0T/mUCVN8P_Msn6GytbX
Rego71CZWQf581UKOKo1.ctlFPyp67djz53dVXSgNmJMW9_vxBjDyzBs62abc_e8fxlyQhCqcV.X9Q.i6C4qSWc3qhAoLGsuwalXT8AbV_RXklcXag6oaCiYQ-- --multipart-upload file://parts.json
      "ServerSideEncryption": "AES256",
"VersionId": "TOsJAyp6Vie_6xYBC2_9j81fv2FHPUIU",
"Location": "https://weatherbu.s3.us-east-l.amazonaws.com/3078336-uhd_3840_2160_25fps.mp4",
"Bucket": "weatherbu",
"Koy": "3078336-uhd_3840_2160_25fps.mp4",
"ETag": "\"41df4297912219d5be2f65d318c5796d-3\""
[root@ip-172-31-23-57 tmp]# aws s3 ls s3://weatherbu/
                                                                                                          PRE s3website/
2025-02-24 15:31:14 113031940 3078336-uhd 3840 2160 25fps.mp4
2025-02-24 11:54:21
                                                                                                      506 index.html
2025-02-24 13:15:48 0 new.txt
2025-02-24 13:16:05 0 smile.t
                                                                                                                 0 smile.txt
```

Parts.json file containing all etags of respective parts: