# AMAZON S3 – CROSS REGION REPLICATION (CRR)

What is cross region replication?

The AWS S3 – Cross region replication (CRR) allows you to replicate or copy your data in two different regions.
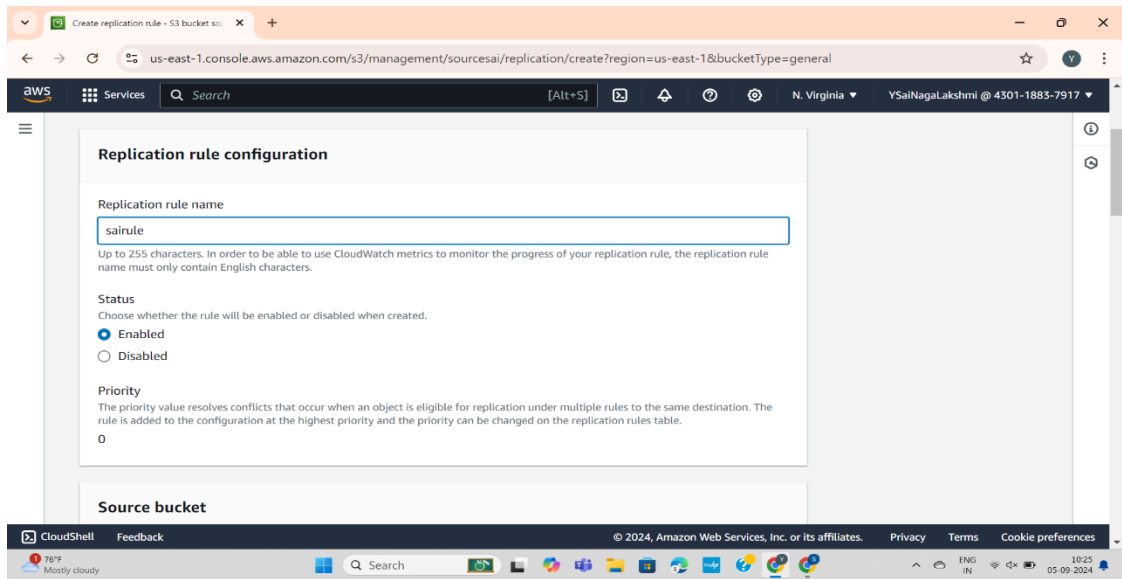
Setting up CRR:

- Go to the AWS S3 Console and create two buckets.
- Let's name our source bucket as "sourcesai" and destination bucket as "destinationsai" and keep it in the Ohio region. Do not forget to **enable versioning**. Also, note that the S3 bucket name needs to be globally unique and hence try adding random numbers after bucket name.
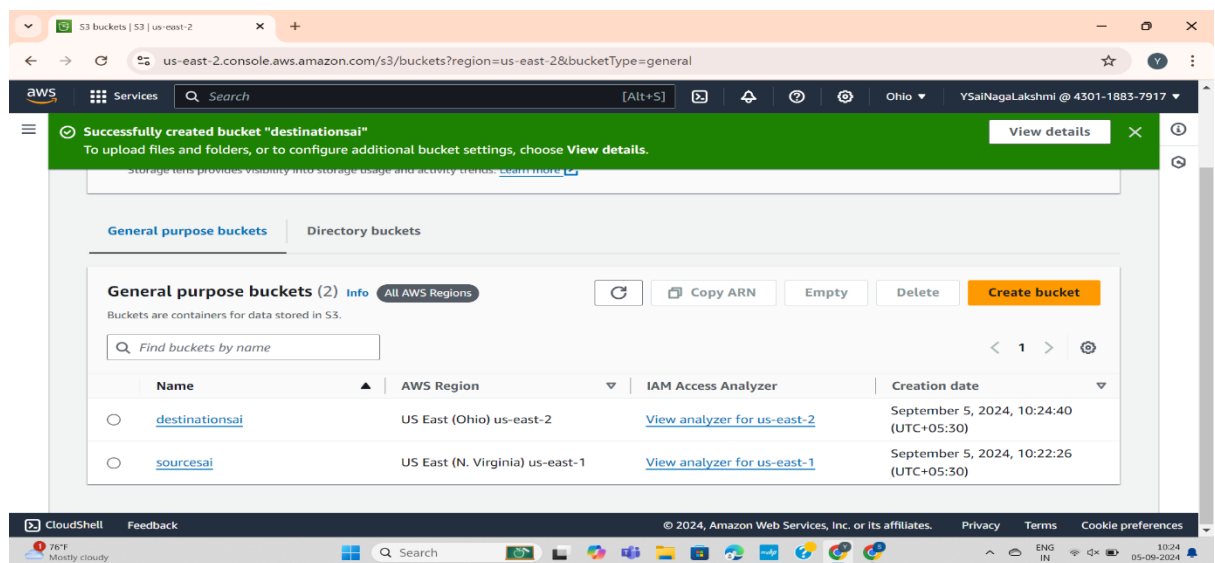
- Upload files / images in source bucket.
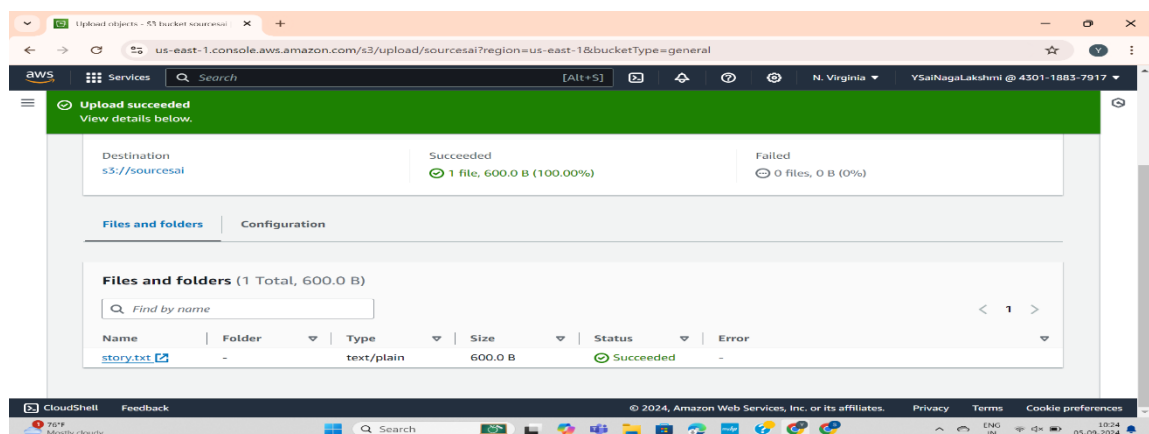
- Now click on your source bucket and head over to the management tab And click on "Create a replication rule" and give your replica on rule name as "sairule".
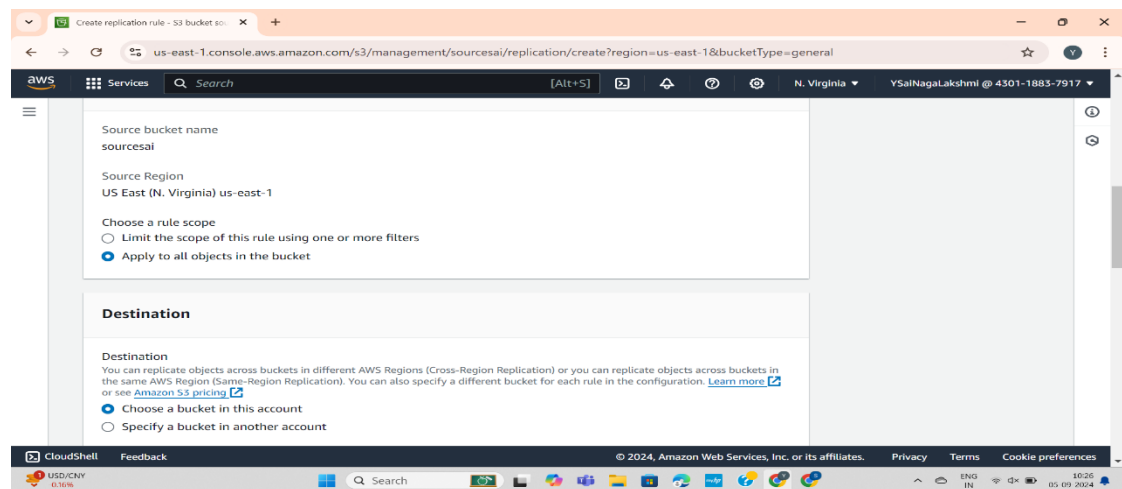
- Check on the Source bucket – apply to all objects in the bucket.

- Choose the destination bucket as "destinationsai".
- Notice that you have an option to choose a destination bucket in another account.
- In order to replicate objects from the source bucket to the destination bucket, you need to create an IAM role. So just create one by clicking on "create a new role".
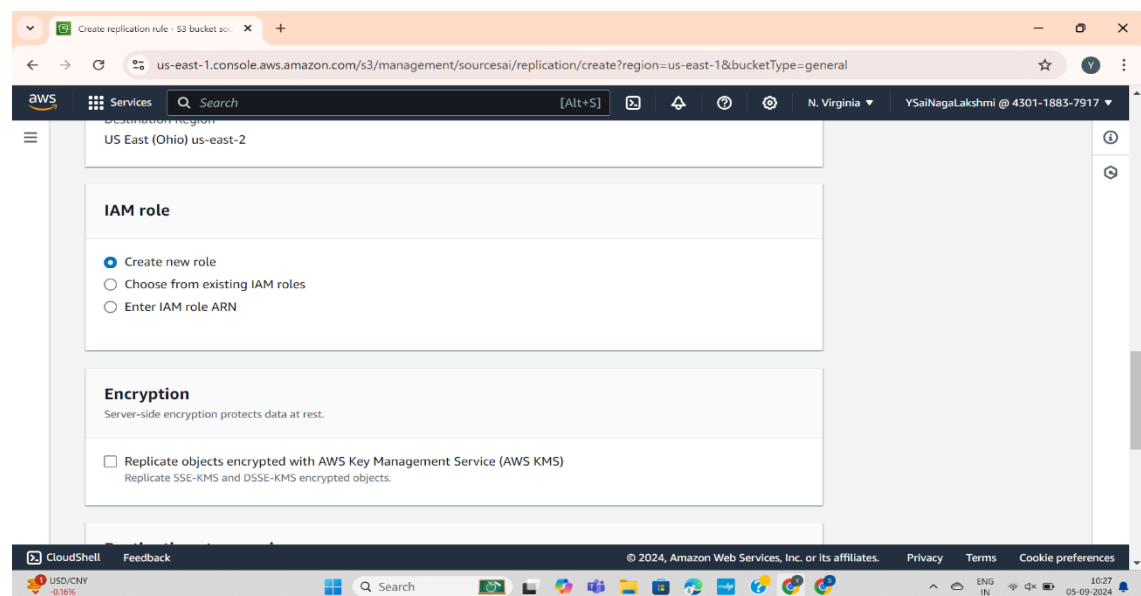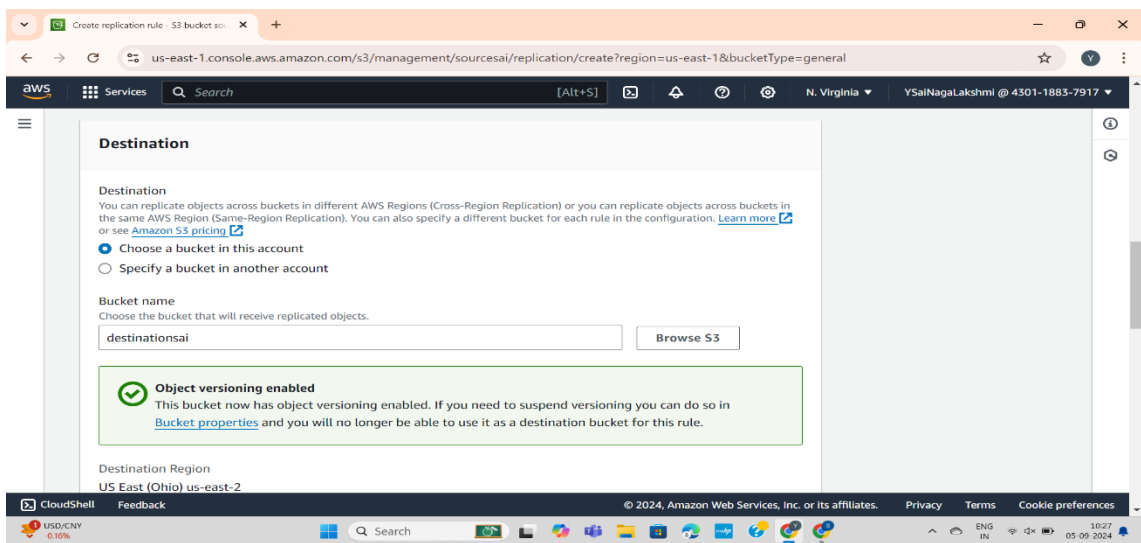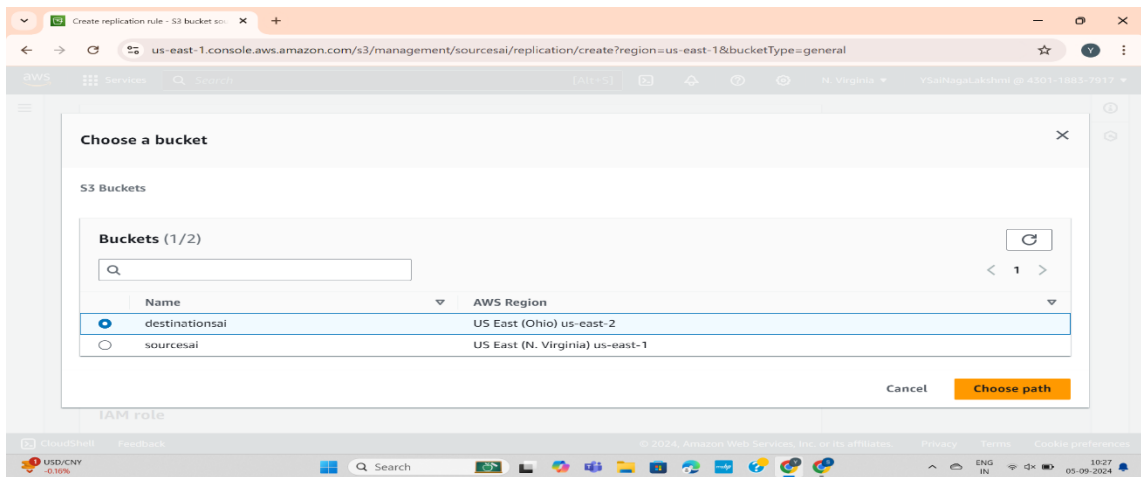
- If you want your S3 objects to be replicated within 15 minutes you need to check the "Replication Time Control (RTC) box. So enable that and click on save.
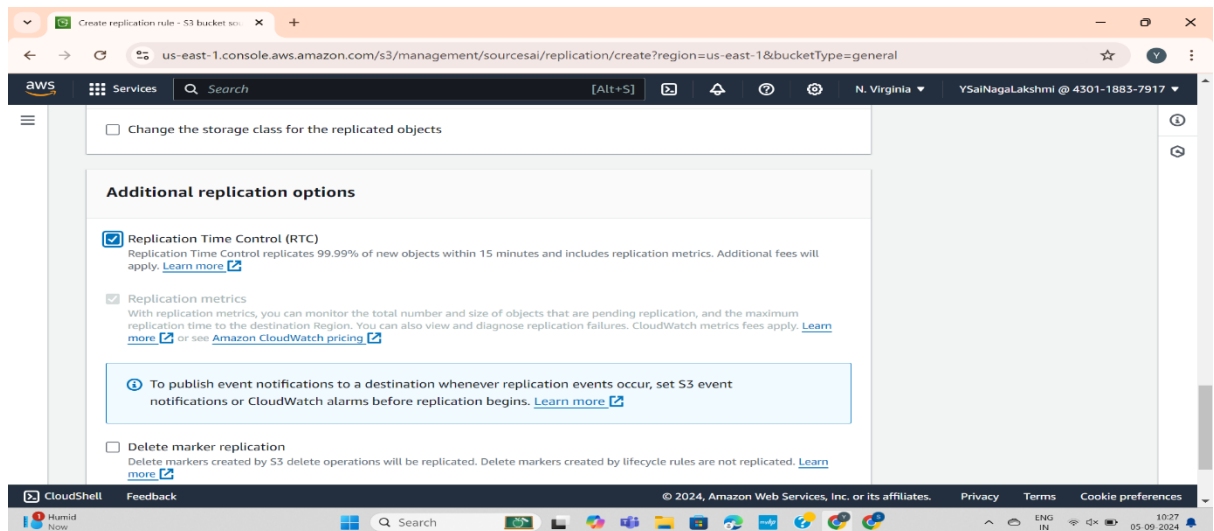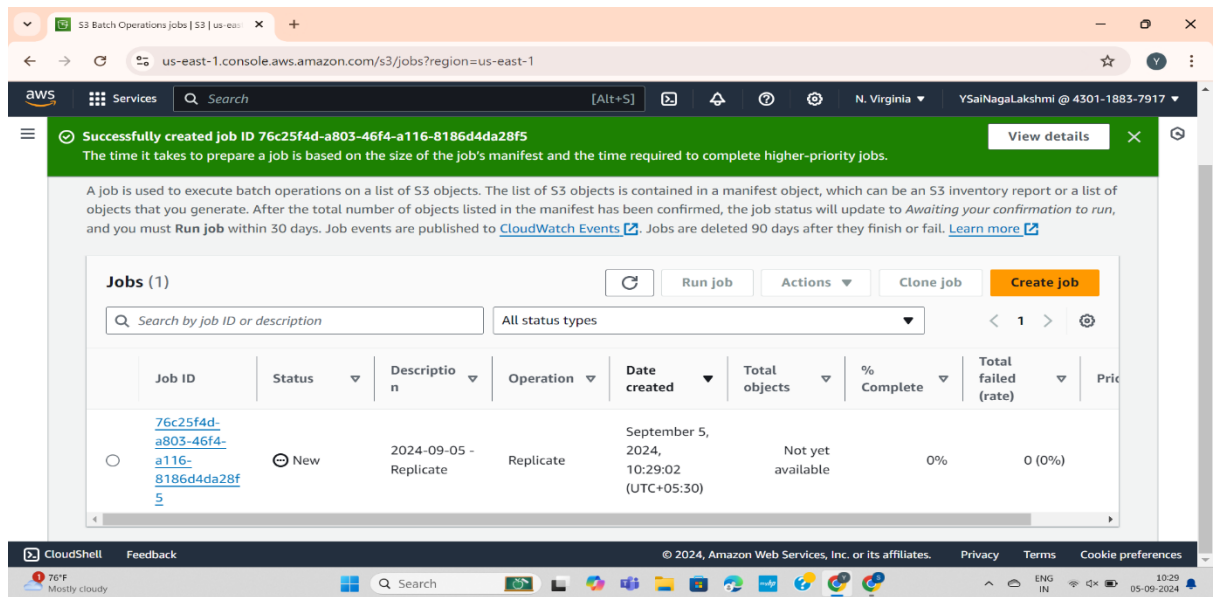
- As soon as you click on save, a screen will pop up asking if you want to replicate existing objects in the S3 bucket, choose yes and click on submit.
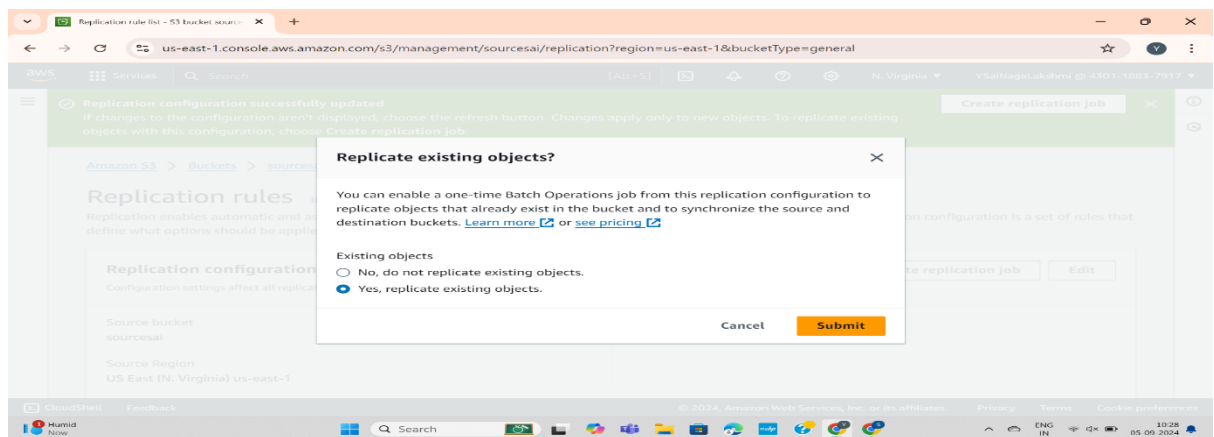

- Now you will get create batch operations job – go down at completion report destination- choose destination bucket that we already created.
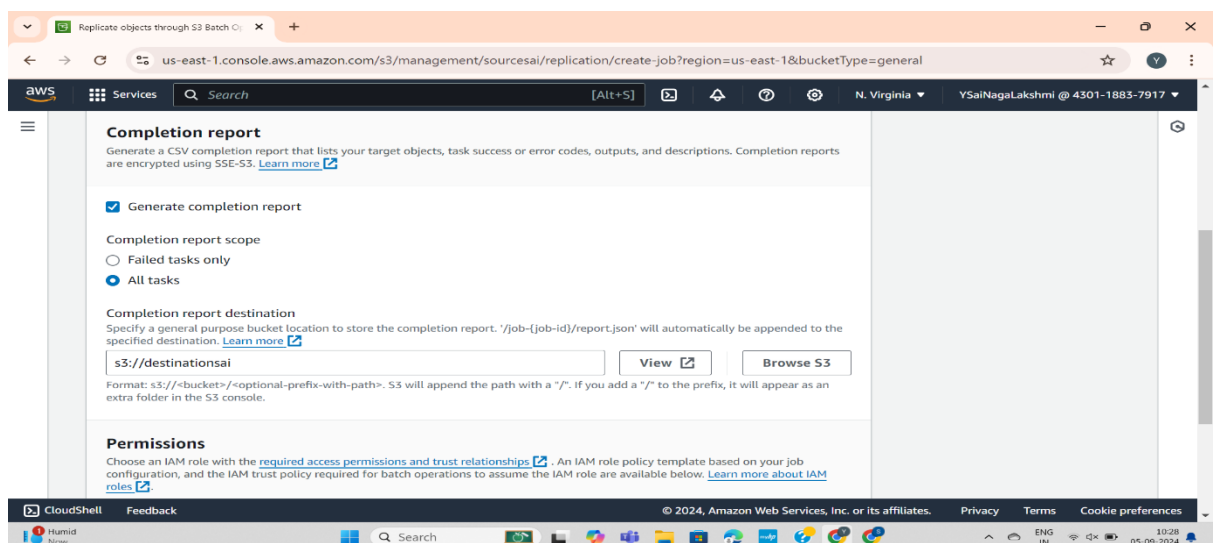
- As we uploaded files in source bucket, Now go to the destination bucket: destinationsai to check if the uploaded file is replicated to our destination bucket. You can see that our uploaded file is successfully copied to the destination bucket.
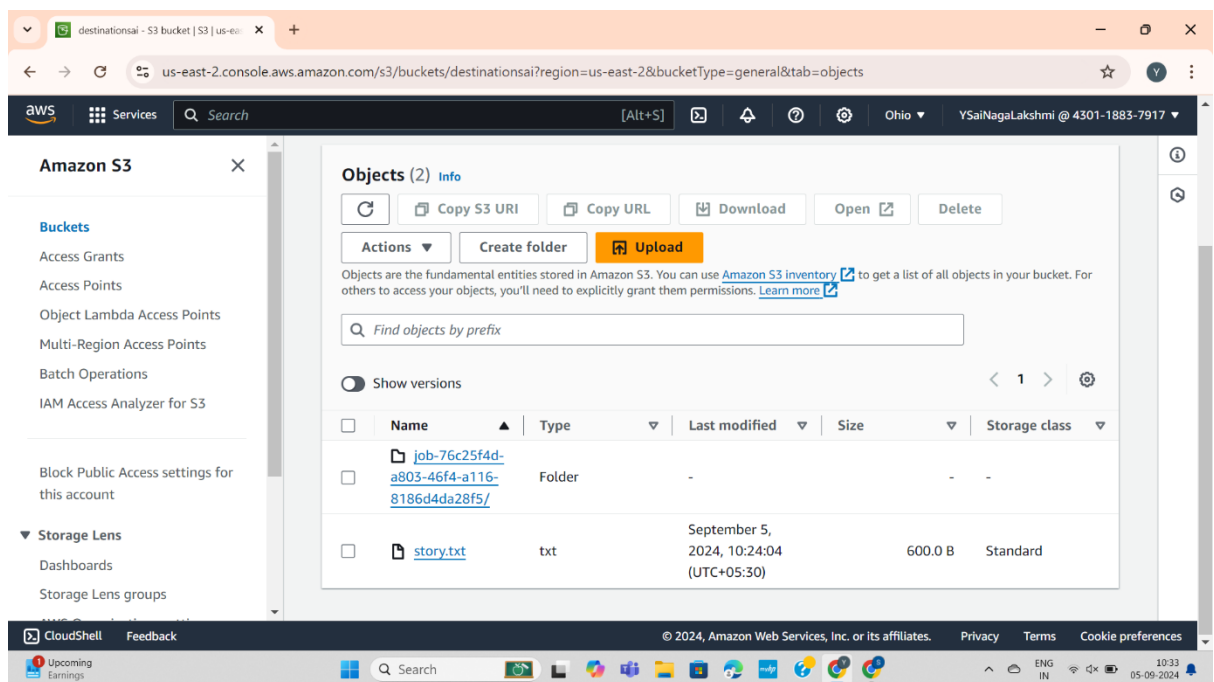
Note: While deleting the buckets, don't forget to empty your buckets and then delete them, if you do not have any further use. Also, you cannot delete a bucket if it is not empty.