

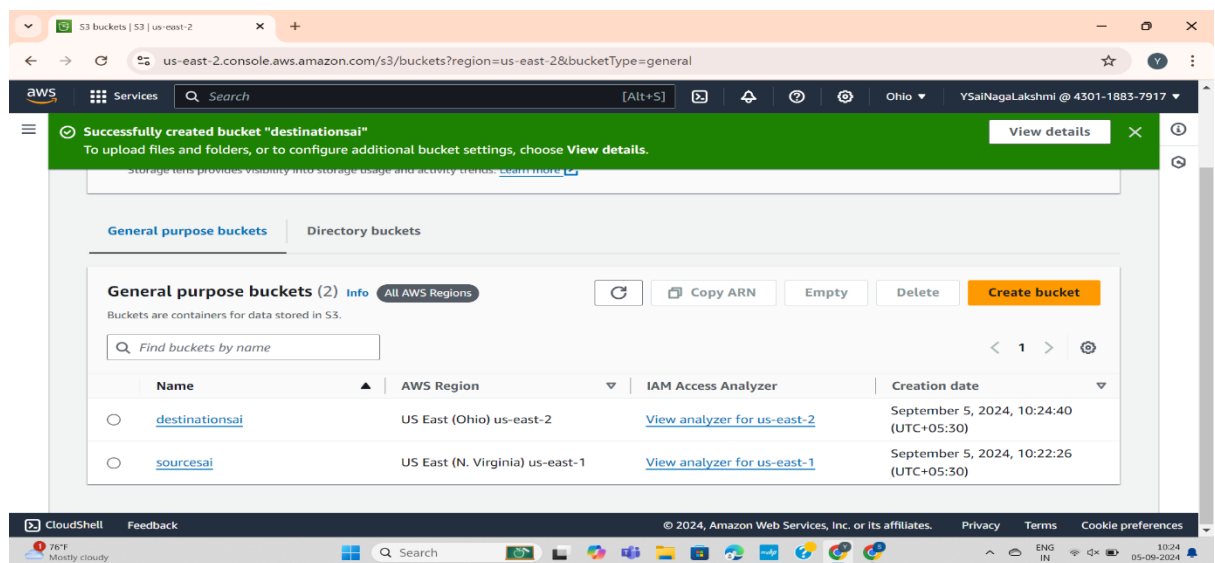
# AMAZON S3 – CROSS REGION REPLICATION (CRR)

## What is cross region replication?

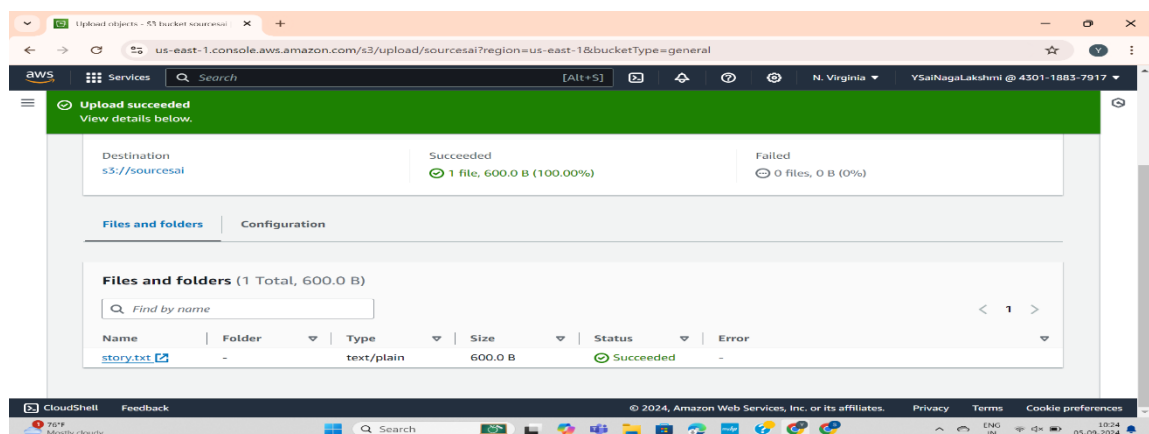
The AWS S3 – Cross region replication (CRR) allows you to replicate or copy your data in two different regions.

## Setting up CRR:

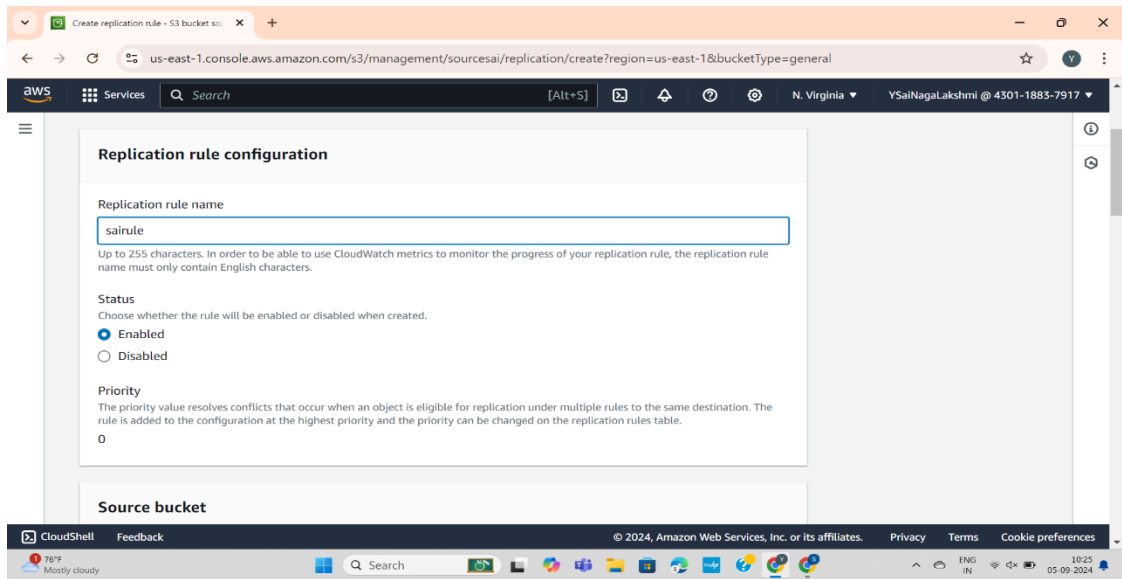
- Go to the AWS S3 Console and create two buckets.
- Let's name our source bucket as "sourcesai" and destination bucket as "destinationsai" and keep it in the Ohio region. Do not forget to **enable versioning**. Also, note that the S3 bucket name needs to be globally unique and hence try adding random 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”.



**Replication rule configuration**

**Replication rule name**

sairule

Up to 255 characters. In order to be able to use CloudWatch metrics to monitor the progress of your replication rule, the replication rule name must only contain English characters.

**Status**

Choose whether the rule will be enabled or disabled when created.

☒ Enabled

☐ Disabled

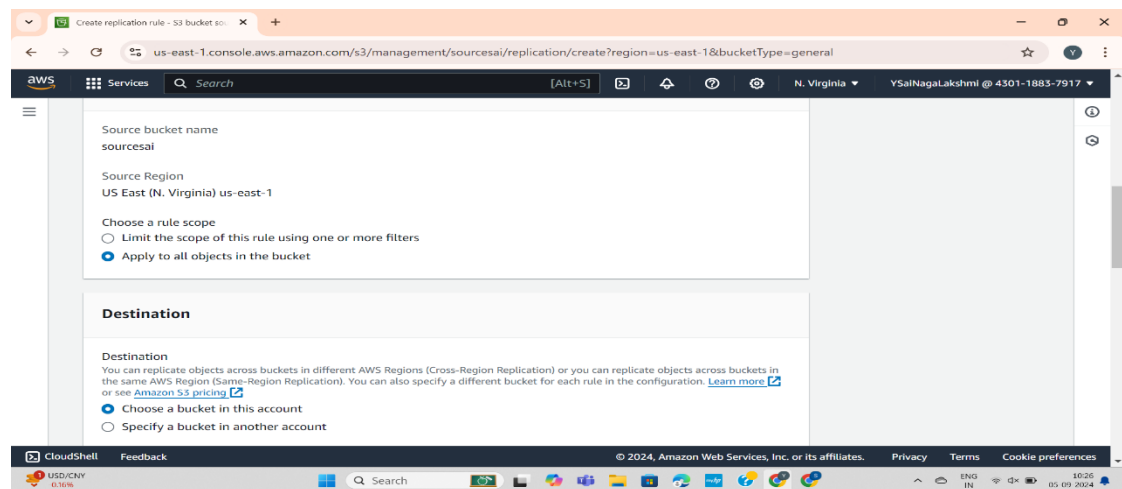
**Priority**

The priority value resolves conflicts that occur when an object is eligible for replication under multiple rules to the same destination. The rule is added to the configuration at the highest priority and the priority can be changed on the replication rules table.

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**Source bucket**

- Check on the Source bucket – apply to all objects in the bucket.



**Source bucket name**

sourcesai

**Source Region**

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

**Choose a rule scope**

☐ Limit the scope of this rule using one or more filters

☒ Apply to all objects in the bucket

**Destination**

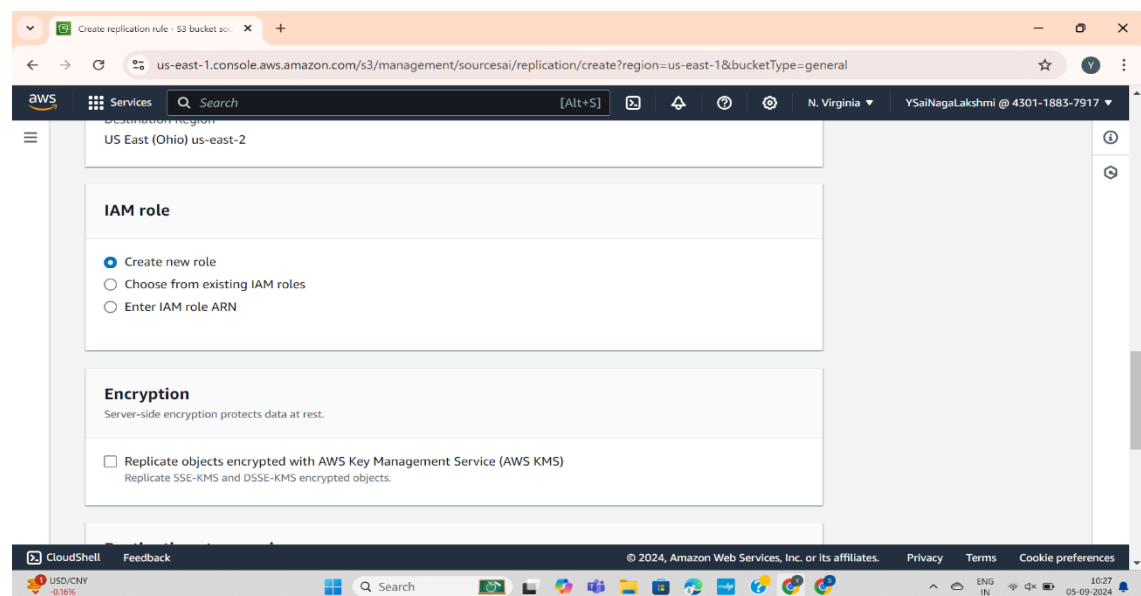
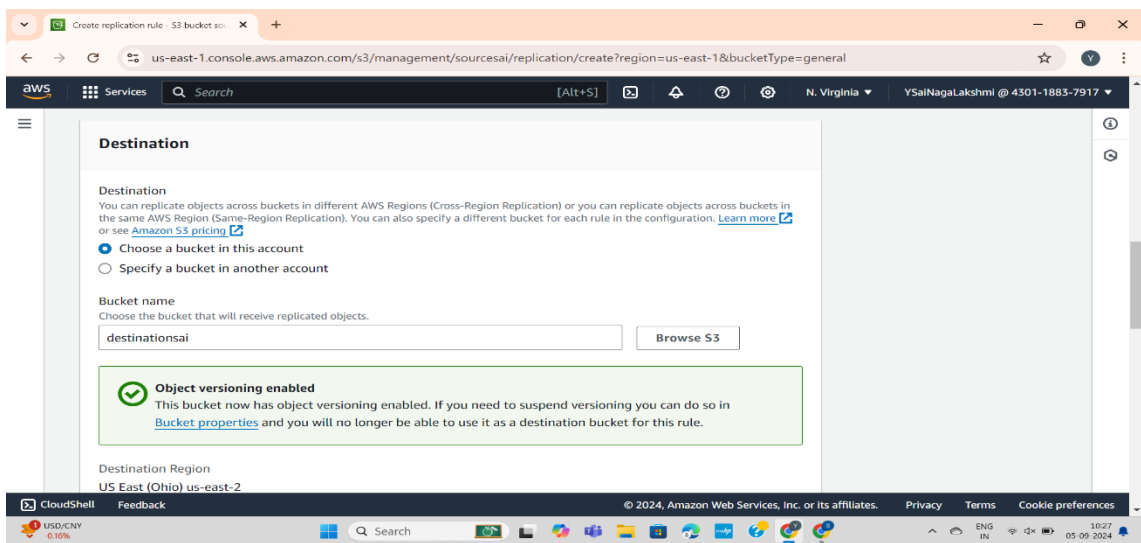
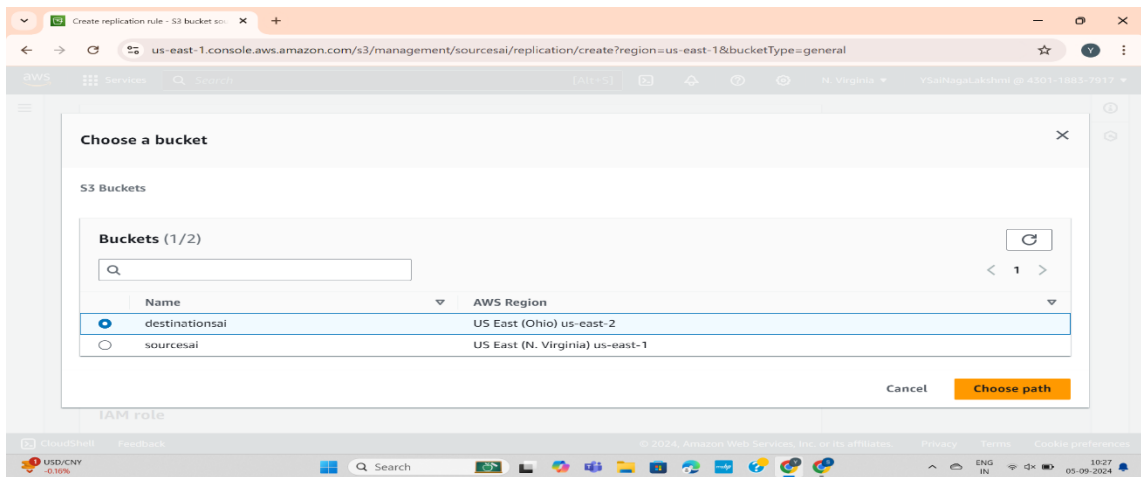
**Destination**

You can replicate objects across buckets in different AWS Regions (Cross-Region Replication) or you can replicate objects across buckets in the same AWS Region (Same-Region Replication). You can also specify a different bucket for each rule in the configuration. [Learn more](#)

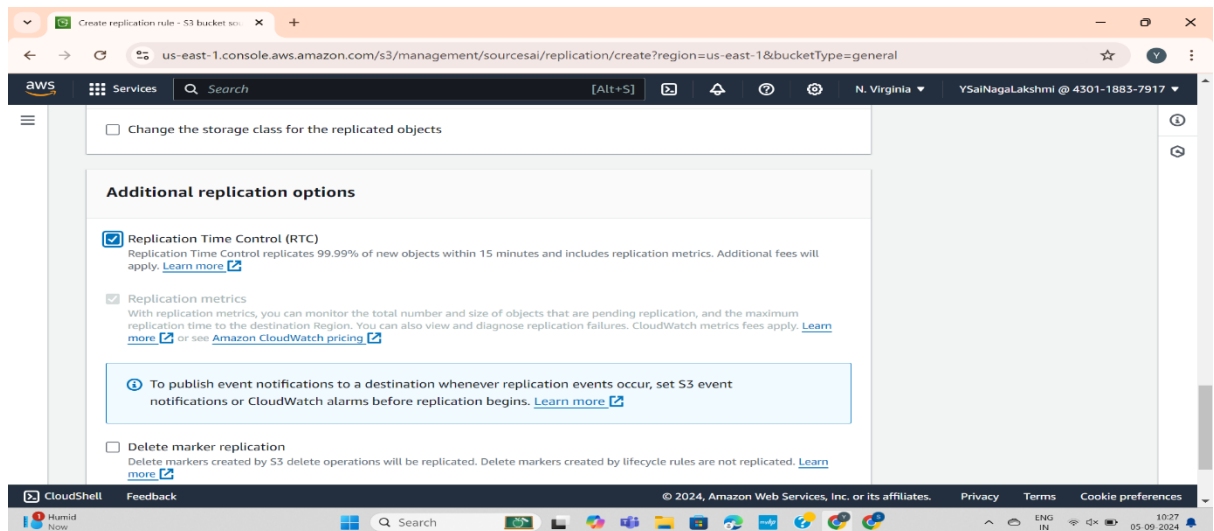
☒ Choose a bucket in this account

☐ Specify a bucket in another account

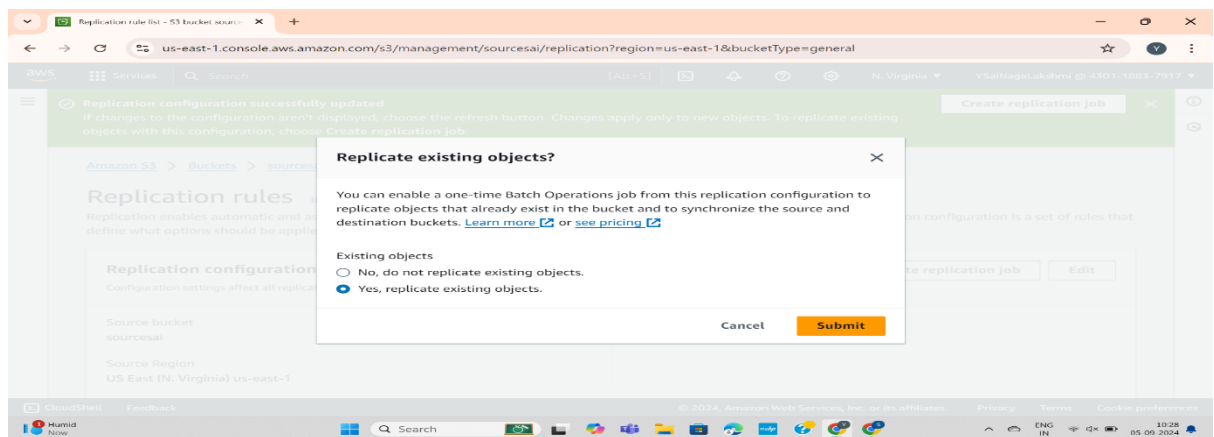
- Choose the destination bucket as “destinationsai”.
- Notice that you have an option to choose a destination bucket in another account.
- In order to replicate objects from the source bucket to the destination bucket, you need to create an IAM role. So just create one by clicking on “create a new role”.



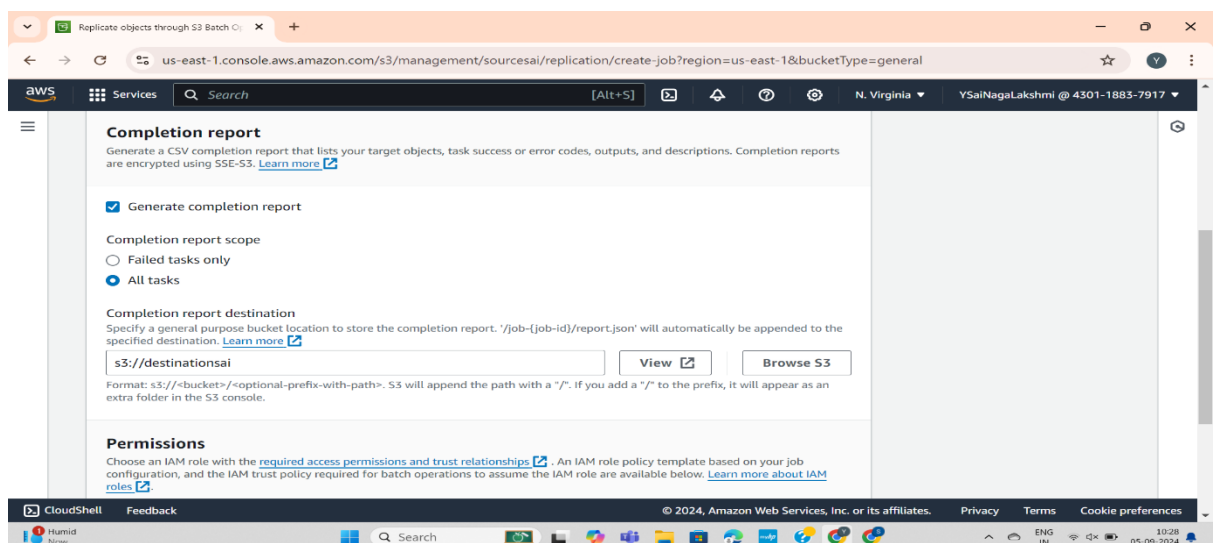
- If you want your S3 objects to be replicated within 15 minutes you need to check the “Replication Time Control (RTC)” box. So enable that and click on save.

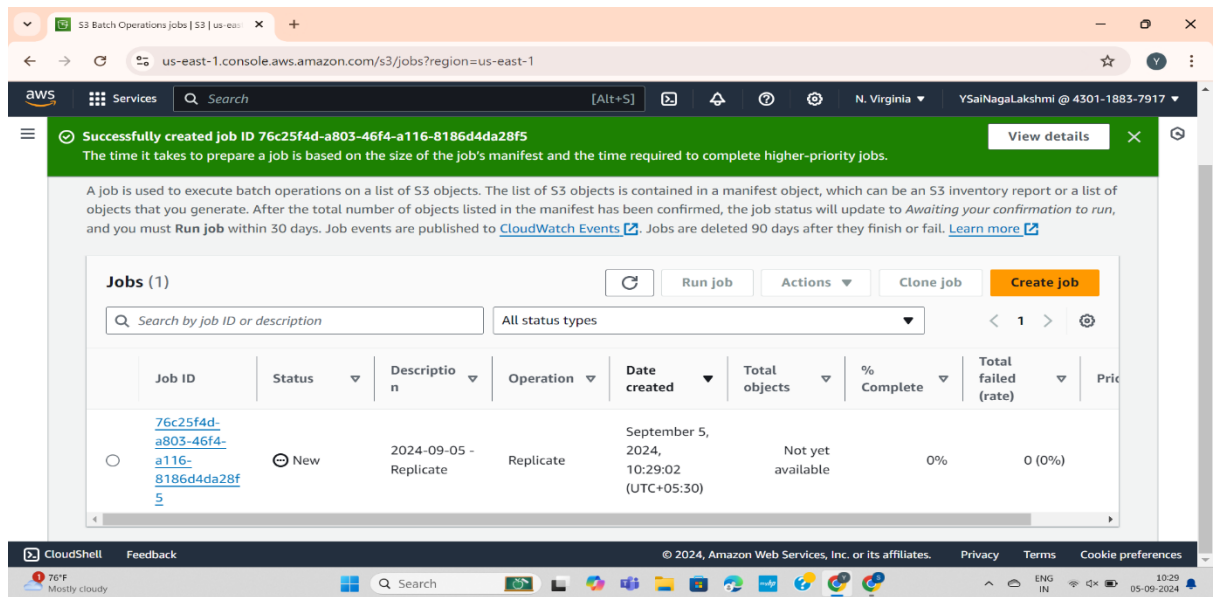


- As soon as you click on save, a screen will pop up asking if you want to replicate existing objects in the S3 bucket, choose yes and click on submit.

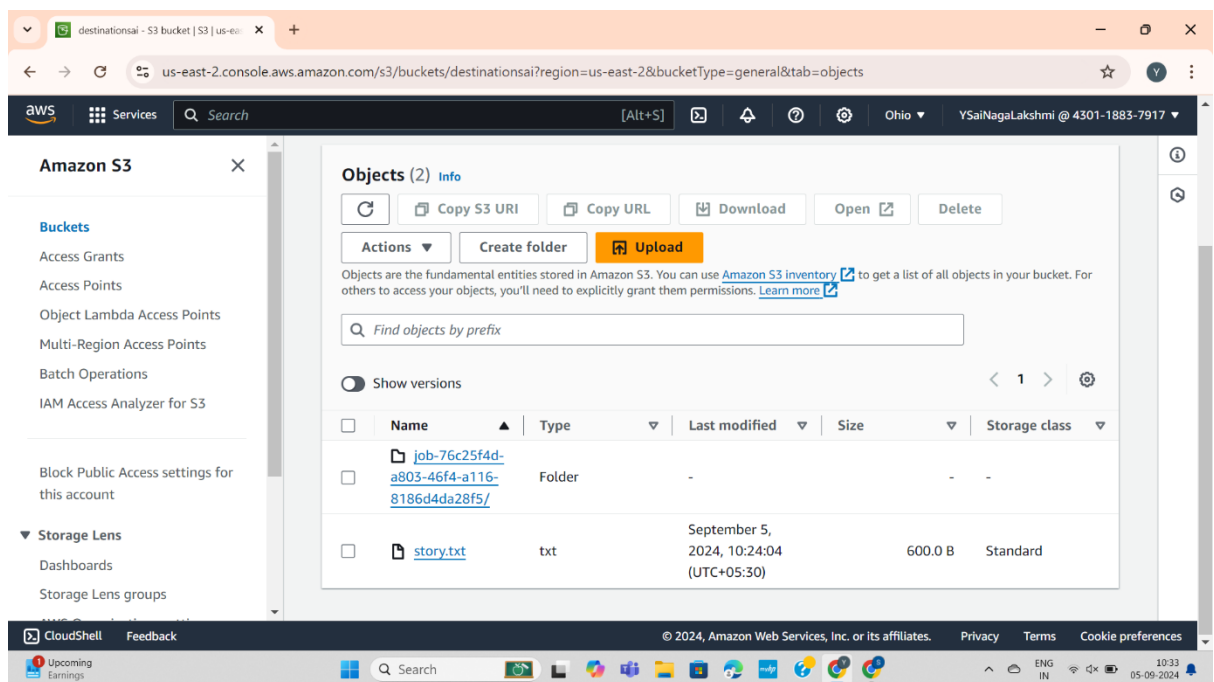


- Now you will get create batch operations job – go down at completion report destination- choose destination bucket that we already created.





- 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.