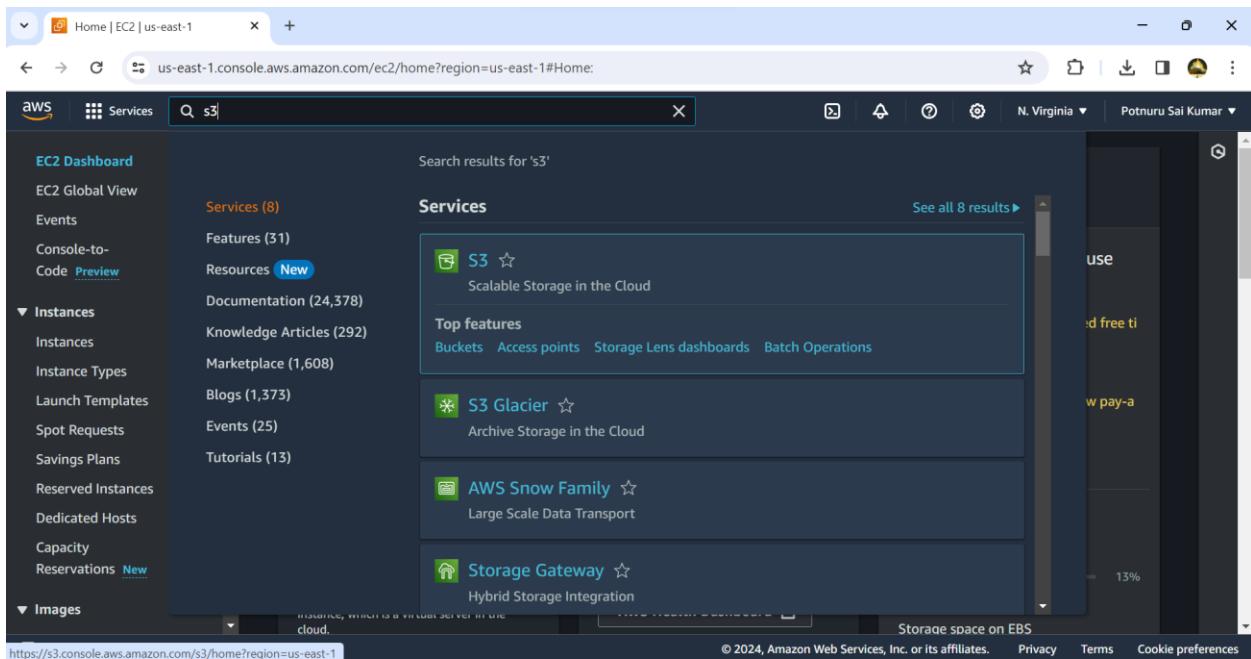


ASSIGNMENT-2

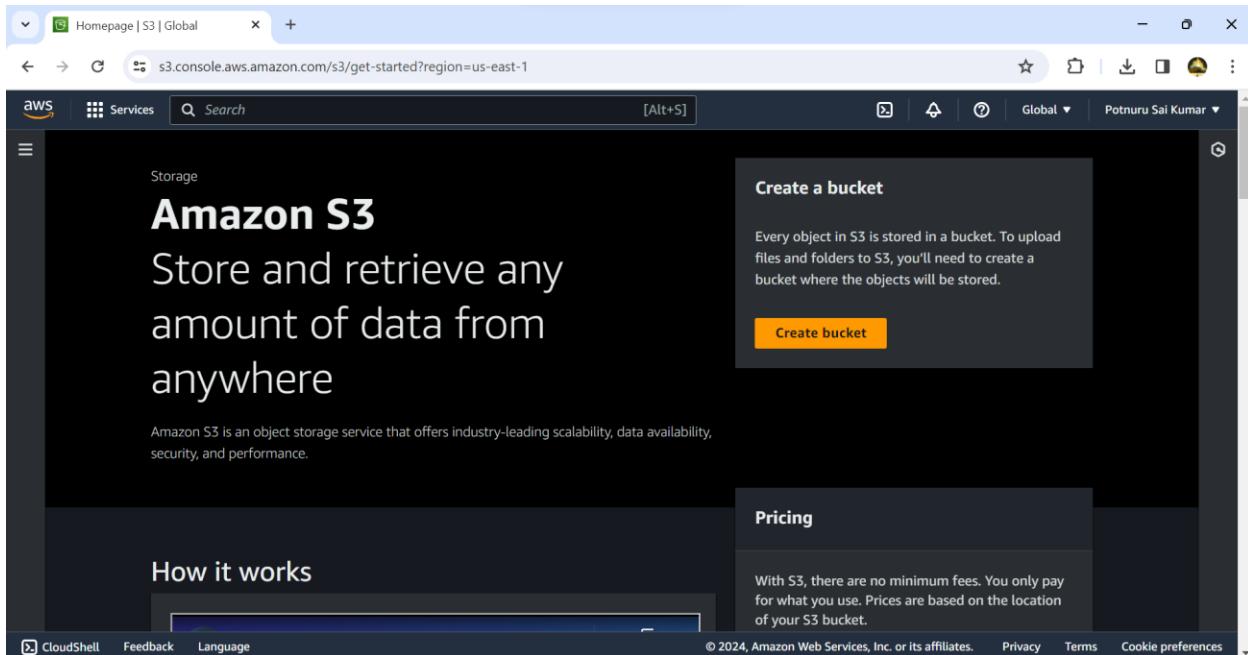
Create two S3 buckets in different regions, upload a file in one bucket and transfer the same file from one S3 bucket to another S3 bucket.

Create an Amazon Simple Storage Service(S3)

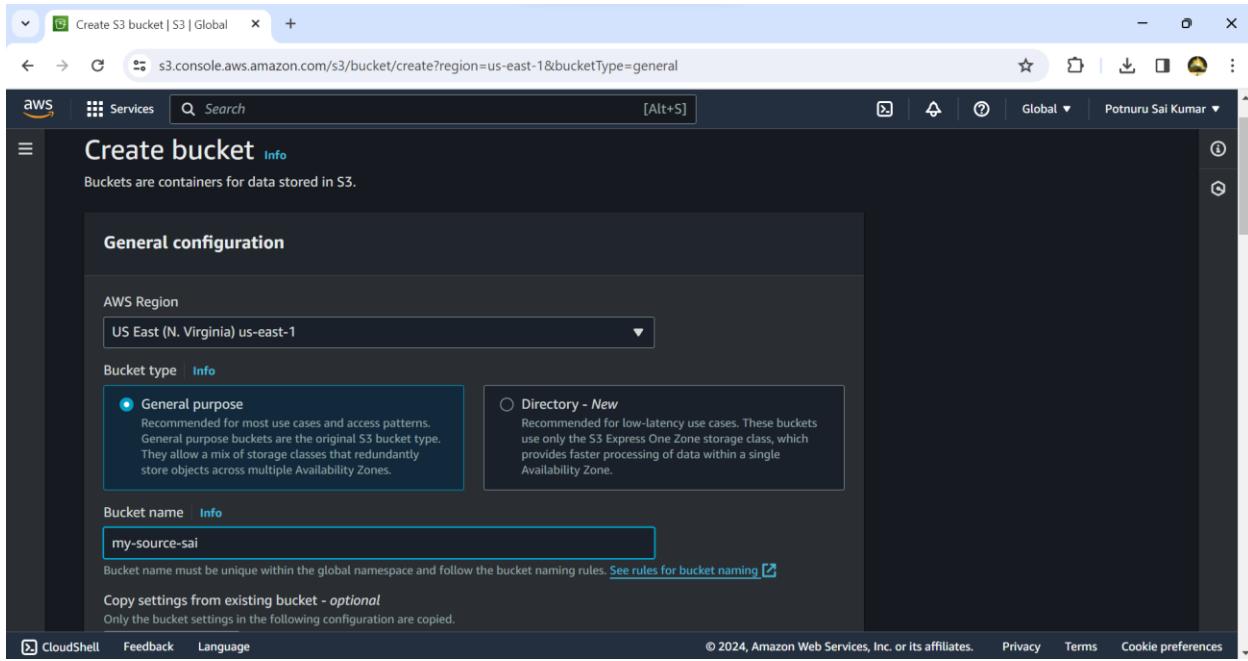
1. Search for S3 in the search space of AWS home page and click on S3.



2. Now click on Create a bucket to create our custom S3.



3. Now we must give the details of the AWS region and bucket name. (Source bucket, AWS Region-US East (N. Virginia) us-east-1& Bucket name- mu-source-sai)



4. After that we should enable the Bucket Versioning.

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.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning

Disable

Enable

Tags - optional (0)

5. Finally, we will click on the Create bucket button to create the S3 bucket.

Encryption type [intro](#)

Server-side encryption with Amazon S3 managed keys (SSE-S3)

Server-side encryption with AWS Key Management Service keys (SSE-KMS)

Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)
Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the Storage tab of the [Amazon S3 pricing page](#).

Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

Disable

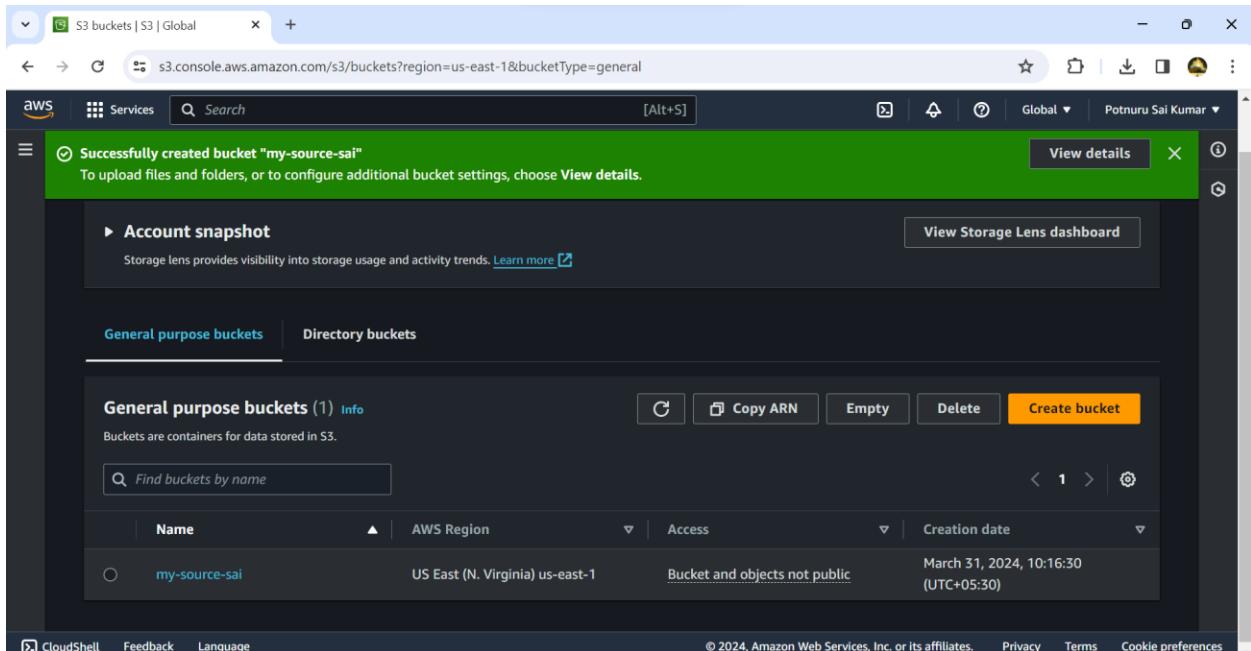
Enable

▶ Advanced settings

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

Cancel **Create bucket**

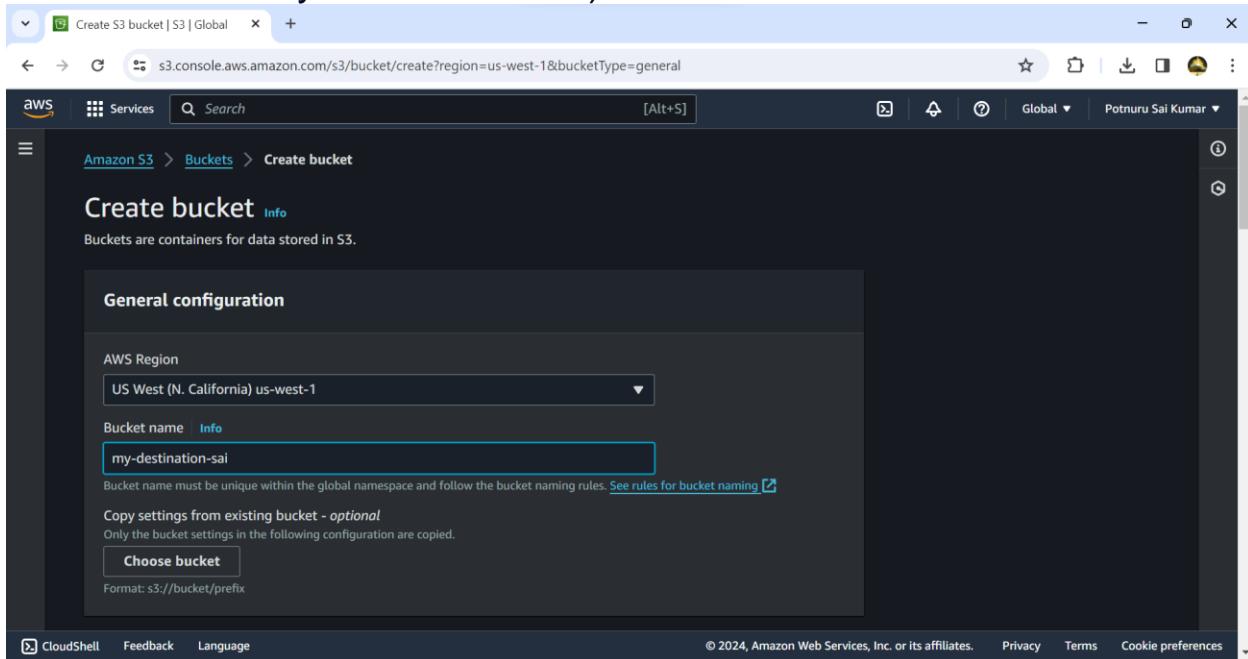
6. Now we have created an S3 bucket in the N. Virginia region successfully.



7. After that we created another S3 bucket in another region. (It is destination bucket).

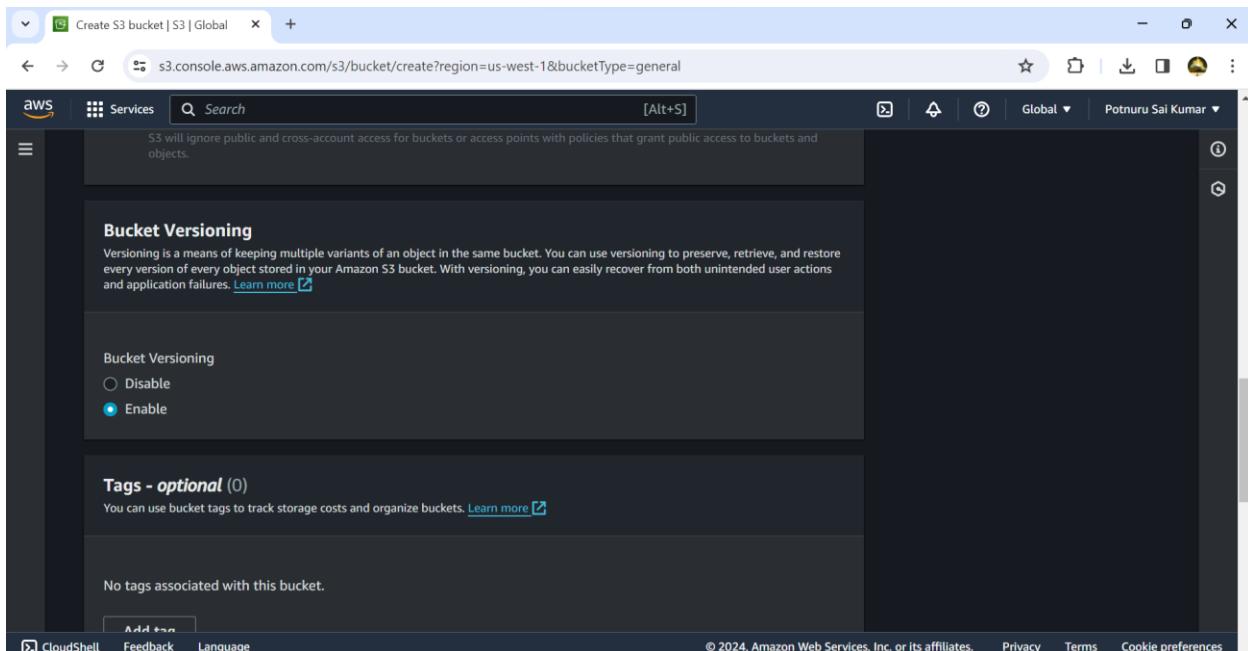
Now we must give the details of the AWS region and bucket name. (Destination bucket, AWS region-US West (N. California) us-west-1 &

Bucket name- my-destination-sai).



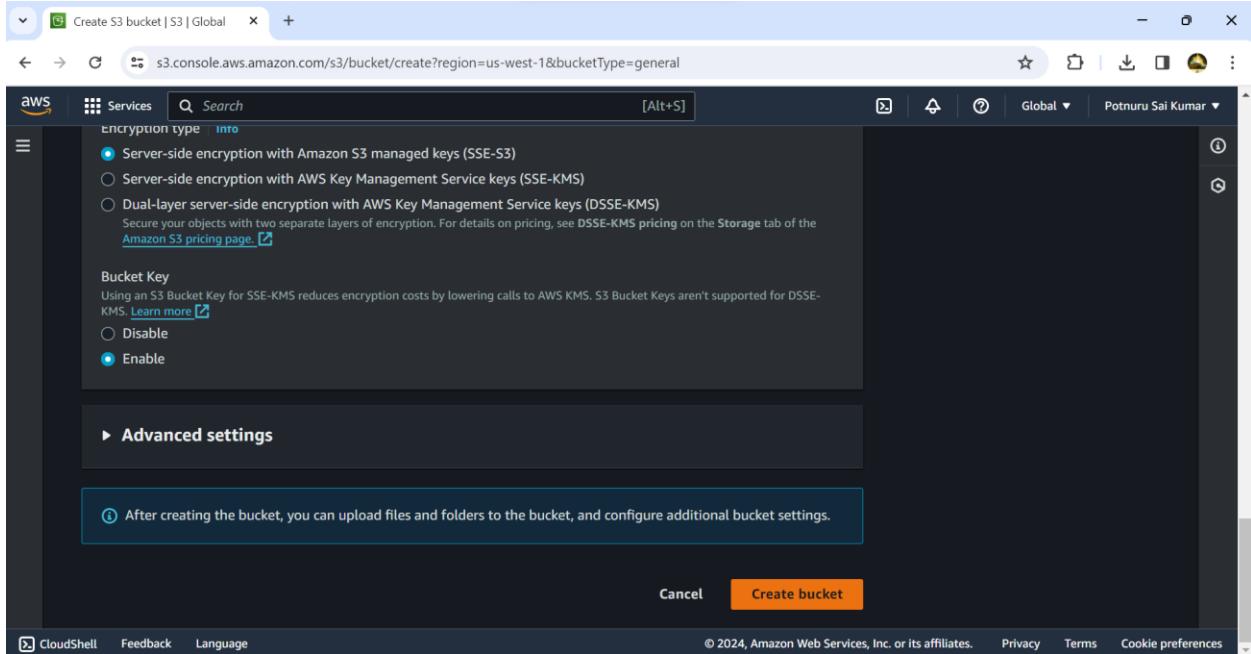
The screenshot shows the 'Create bucket' page in the AWS S3 console. The 'Bucket name' field is highlighted with a blue border, containing the text 'my-destination-sai'. Other fields like 'AWS Region' (set to 'US West (N. California) us-west-1') and 'Copy settings from existing bucket' are also visible.

8. After that we should enable the Bucket Versioning.

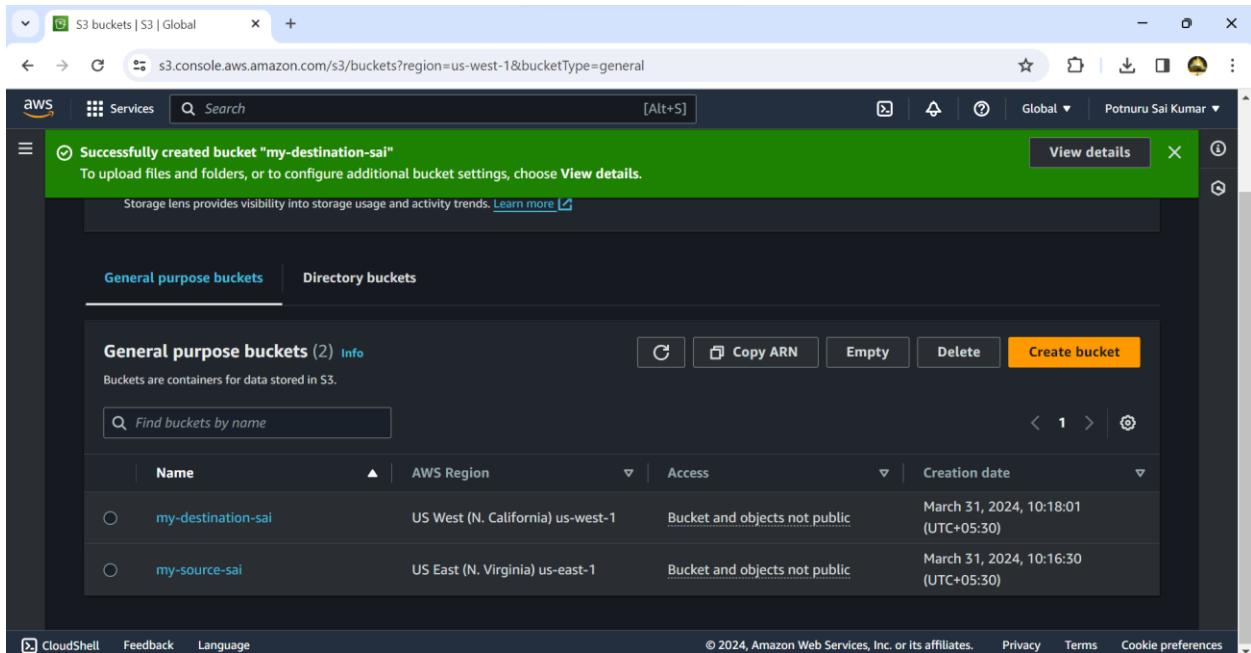


The screenshot shows the 'Bucket Versioning' configuration page. The 'Enable' radio button is selected. A note at the top states: 'S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.'

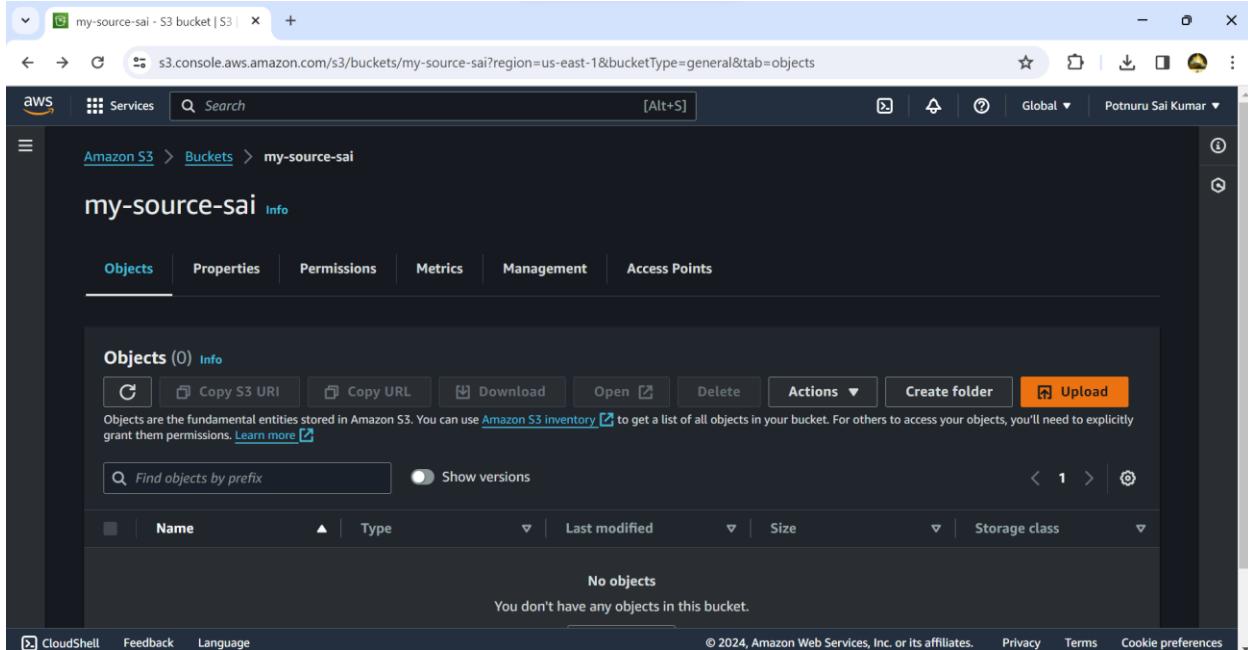
9. Finally, we will click on the Create bucket button to create the S3 bucket.



10. Now we have created an S3 bucket in the N. California region successfully.

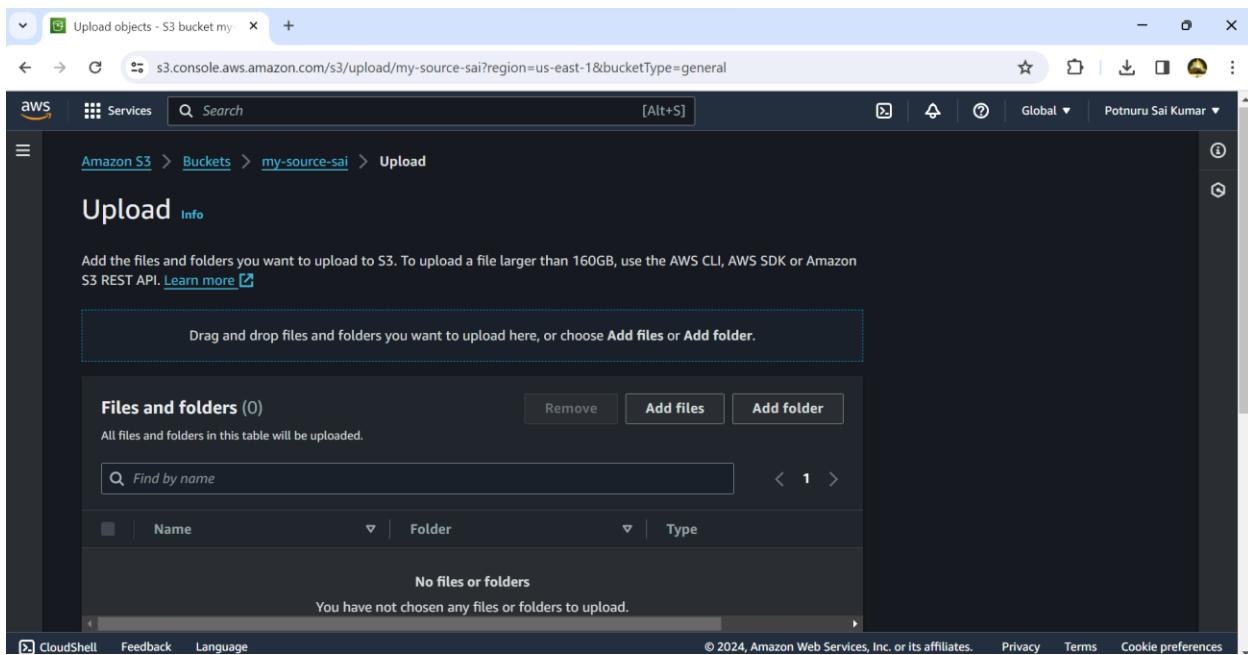


11. Now, we should click on “my-source-sai” and upload the file in the my-source-sai bucket.



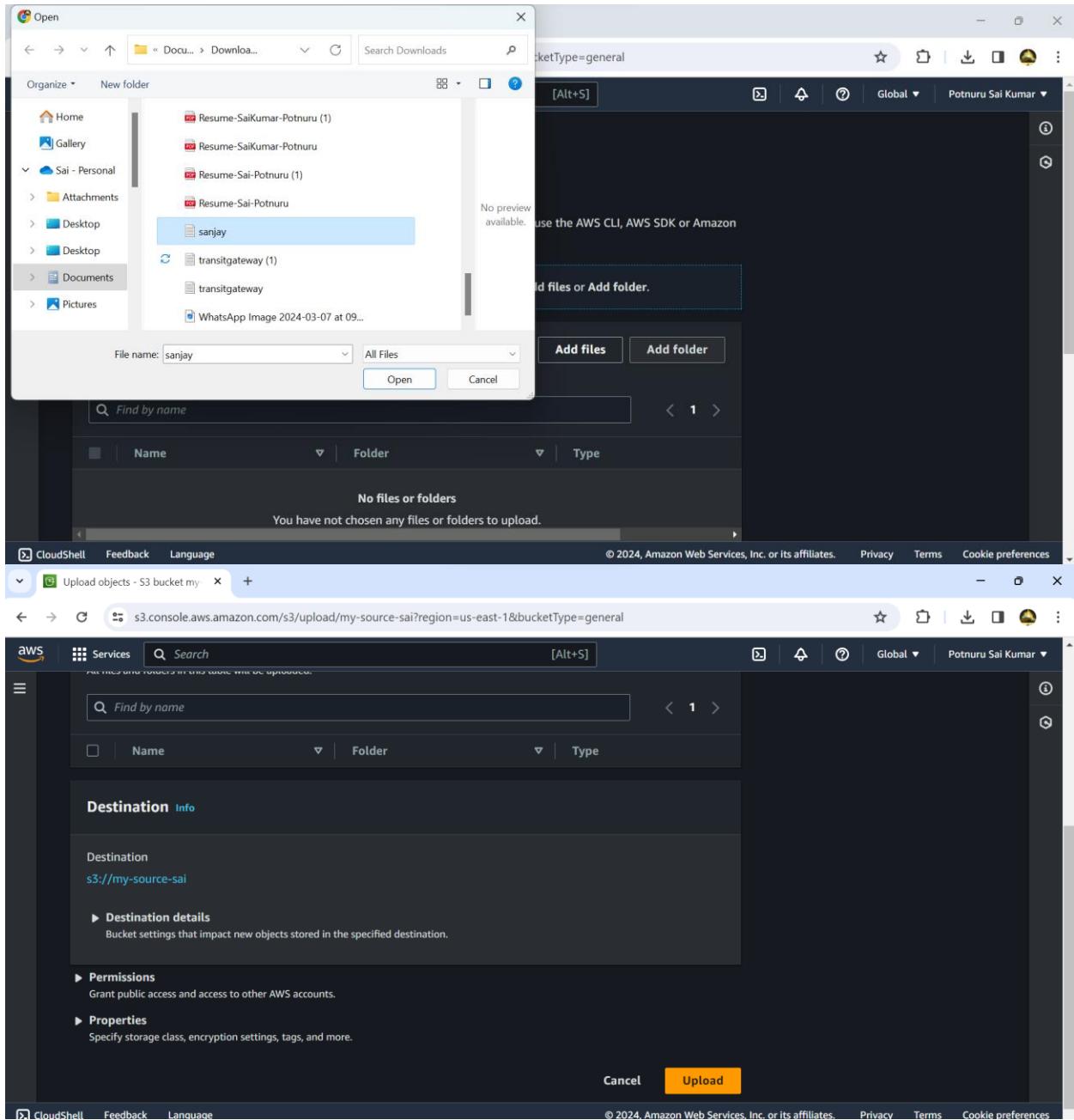
The screenshot shows the AWS S3 console with the URL s3.console.aws.amazon.com/s3/buckets/my-source-sai?region=us-east-1&bucketType=general&tab=objects. The page title is "my-source-sai - S3 bucket | S3". The navigation bar includes "Services", "Search", "[Alt+S]", "Global", and "Potnuru Sai Kumar". The main content area shows the "Objects" tab selected. A sub-header "my-source-sai" with an "Info" link is present. Below it are tabs for "Properties", "Permissions", "Metrics", "Management", and "Access Points". The main table header is "Objects (0) Info". Action buttons include "Upload" (highlighted in orange), "Actions", "Create folder", "Copy S3 URI", "Copy URL", "Download", "Open", "Delete", and "Show versions". A search bar "Find objects by prefix" is at the top left. The table columns are "Name", "Type", "Last modified", "Size", and "Storage class". A message "No objects" and "You don't have any objects in this bucket." is displayed. The bottom of the screen shows standard AWS footer links: CloudShell, Feedback, Language, © 2024, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, and Cookie preferences.

12. We should add files in the my-source-sai bucket.



The screenshot shows the AWS S3 console with the URL s3.console.aws.amazon.com/s3/upload/my-source-sai?region=us-east-1&bucketType=general. The page title is "Upload objects - S3 bucket my...". The navigation bar includes "Services", "Search", "[Alt+S]", "Global", and "Potnuru Sai Kumar". The main content area shows the "Upload" tab selected. A sub-header "Upload" with an "Info" link is present. Below it are tabs for "Properties", "Permissions", "Metrics", "Management", and "Access Points". The main table header is "Files and folders (0)". Action buttons include "Remove", "Add files", and "Add folder". A search bar "Find by name" is at the top left. The table columns are "Name", "Folder", and "Type". A message "No files or folders" and "You have not chosen any files or folders to upload." is displayed. The bottom of the screen shows standard AWS footer links: CloudShell, Feedback, Language, © 2024, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, and Cookie preferences.

13. Add Files in the my-source-sai. And click on the upload button to upload in the source bucket.



14. Finally, we uploaded a file in the “my-source-sai” bucket successfully. (File name- sanjay.pem)

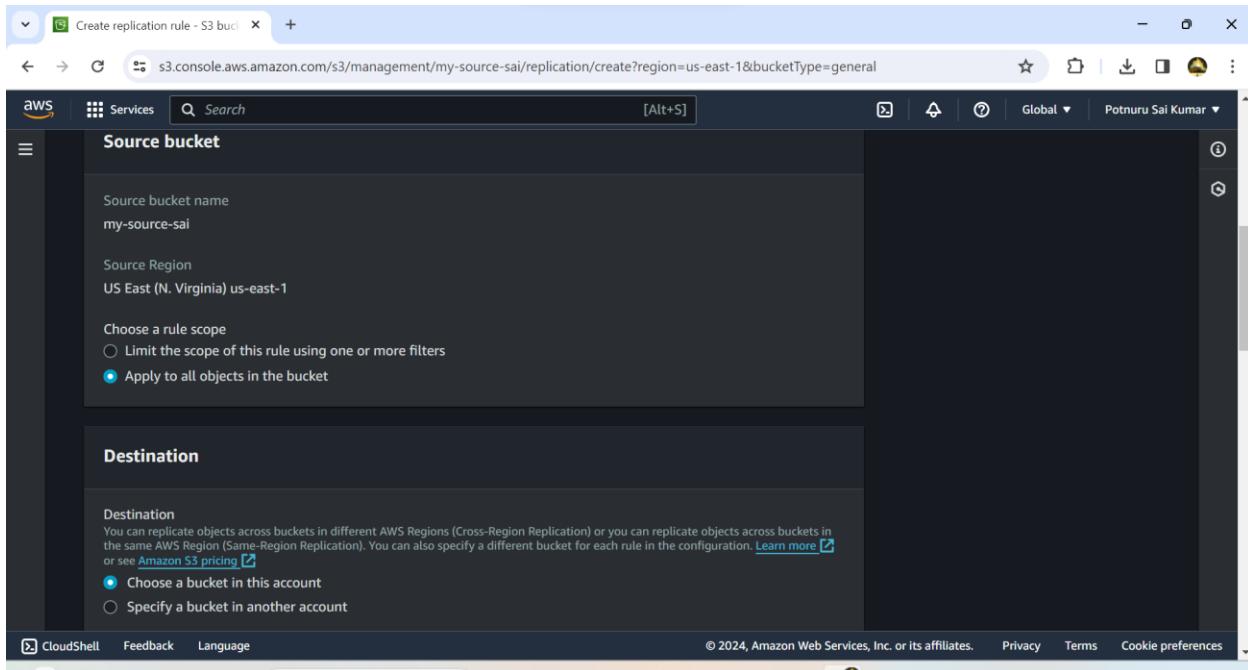
The screenshot shows the AWS S3 console interface. At the top, a green banner indicates "Upload succeeded". Below it, a table summarizes the upload results: one file was successfully uploaded to the destination "s3://my-source-sai", while no files failed. The "Files and folders" tab is selected, displaying a list of one item: "sanjay.pem" (1.6 KB). The status column for this file is "Succeeded".

15. Now we have to create a replication rule in the my-source-sai bucket.

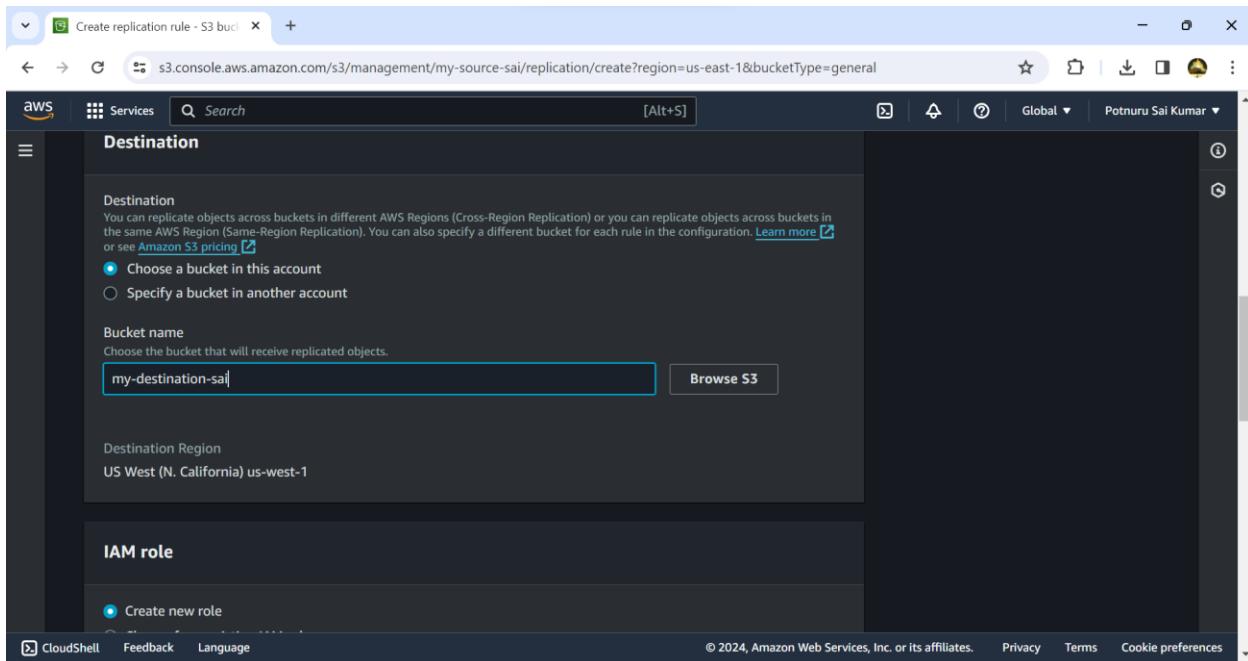
And give the name of the replication rule name.

The screenshot shows the "Create replication rule" configuration page. The "Replication rule name" field is filled with "my-source-sai". The "Status" section has "Enabled" selected. The "Priority" section is set to 0. The URL in the browser bar is <https://s3.console.aws.amazon.com/s3/management/my-source-sai/replication/create?region=us-east-1&bucketType=general>.

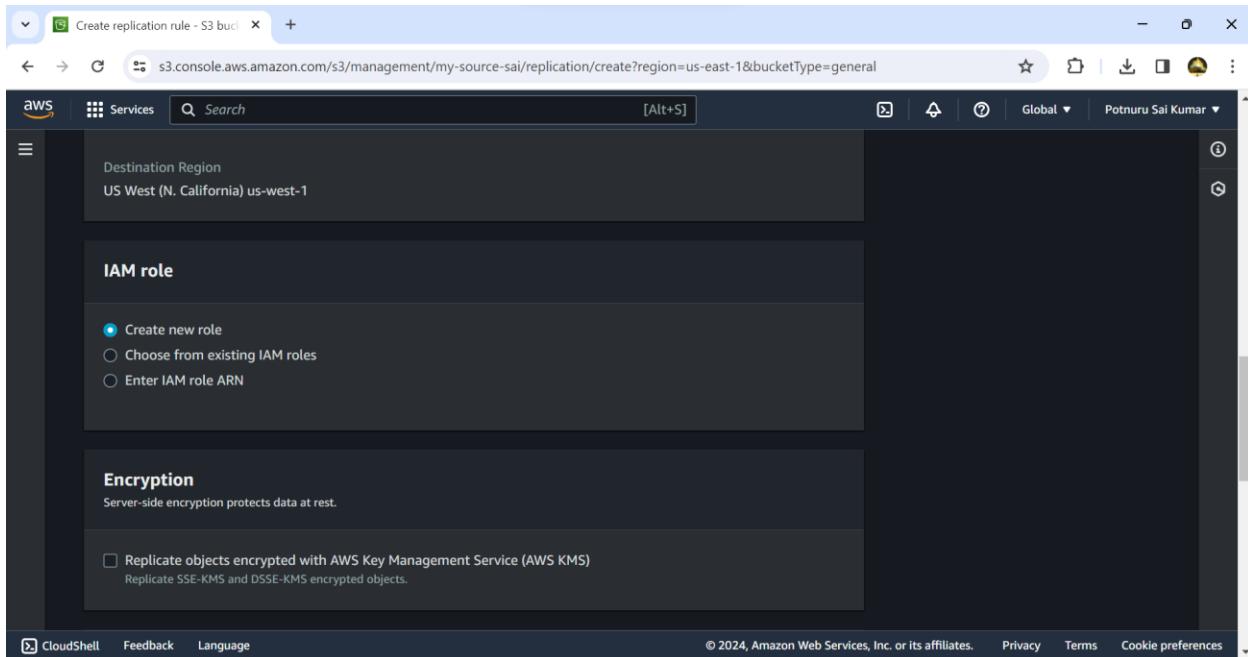
16. After that we select the rule scope “Apply to all objects in the bucket” and we choose the destination path.



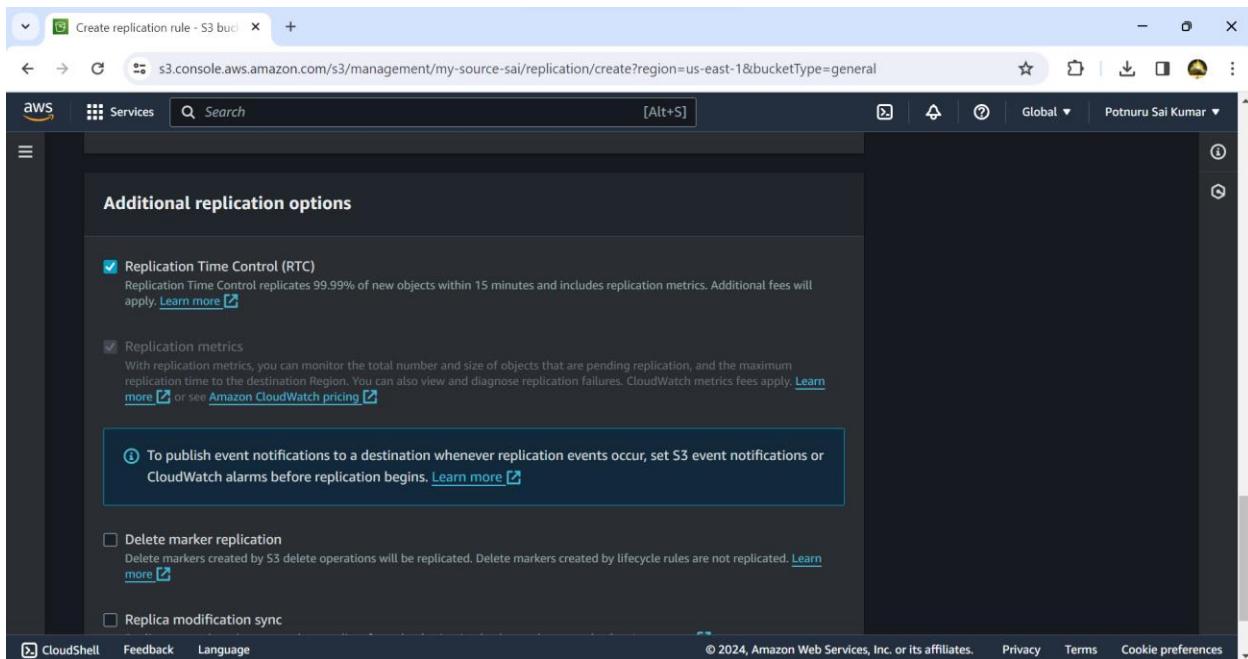
17. Give the destination bucket name or choose from the Browse S3(Destination bucket name – my-destination-sai).



18. Now we choose the IAM role.



19. After that we add the Additional replication options that select the Replication Time Control (RTC).



20. Click on the create replication rule button and select the option Yes, replicate existing objects and finally, submit the button.

Replication configuration successfully updated

If changes to the configuration aren't displayed, choose the refresh button. Changes apply only to new objects. To replicate existing objects with this configuration, choose Create replication job.

Replication rules

Replication enables automatic and asynchronous replication of objects between buckets. You can define what options should be applied to existing objects.

Replication configuration settings

Configuration settings affect all replication rules in this configuration.

Source bucket: my-source-sai

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

Replicate existing objects?

You can enable a one-time Batch Operations job from this replication configuration to replicate objects that already exist in the bucket and to synchronize the source and destination buckets. [Learn more](#) or [see pricing](#)

Existing objects

No, do not replicate existing objects.
 Yes, replicate existing objects.

Cancel Submit

Replication rules (1)

View details Edit rule Delete Actions Create replication rule

21. That we Create Batch Operations job in source bucket.

Replicate objects through S3 Batch Operations

Amazon S3 > Buckets > my-source-sai > Replication rules > Create Batch Operations job

Create Batch Operations job

Job settings

A job is used to execute batch operations on a list of S3 objects. The list of objects is contained in a replication manifest object generated by S3.

Job run options

You can choose whether to have the job start automatically after the replication manifest is generated or to have the job wait in the *Awaiting your confirmation to run* status until you run the job.

Automatically run the job when it's ready
When selected, the job automatically runs without waiting for you to start it.

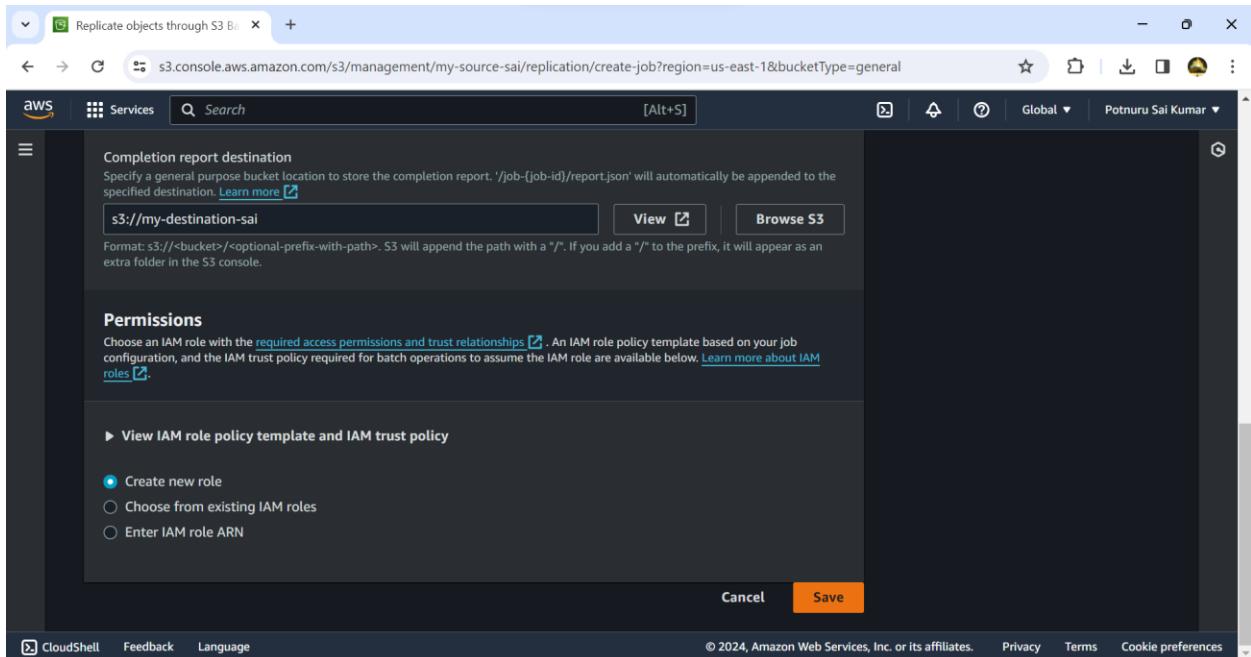
Wait to run the job when it's ready
Recommended if you want to review the manifest or job details before running the job.

Batch Operations manifest

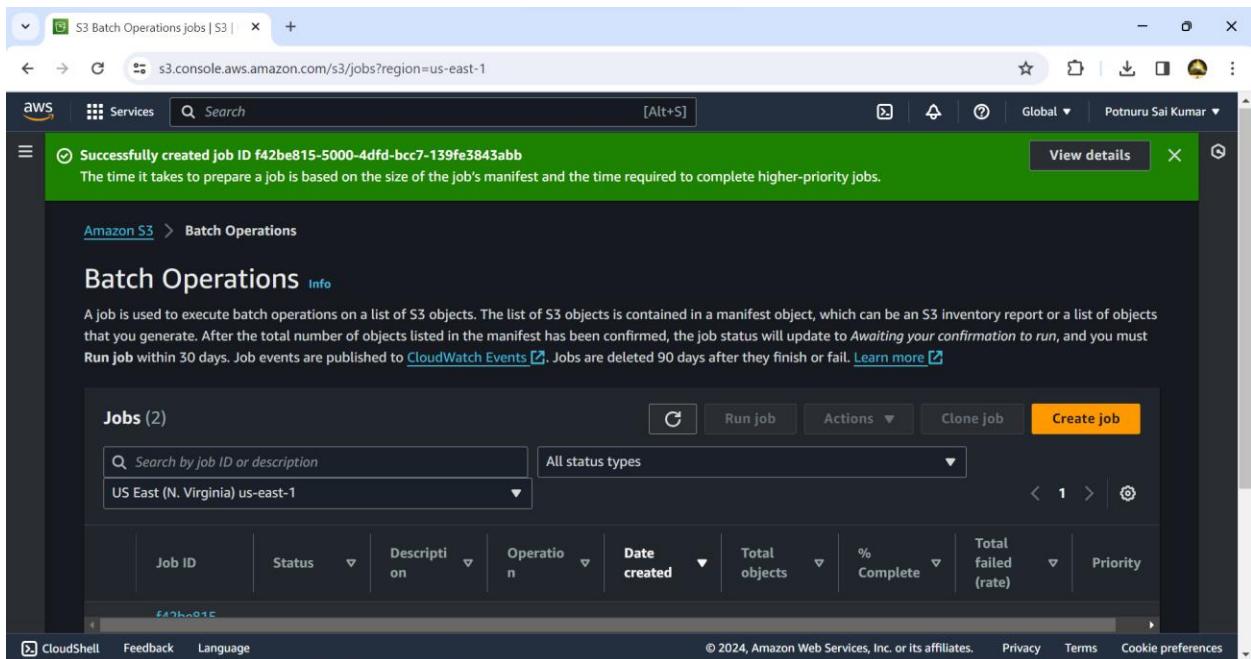
A list of objects is generated using the replication configuration and optionally saved to the destination you choose. [Learn more](#) or [see pricing](#)

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22. Now we should give the destination name address from the Browse S3 and create a new IAM role. Finally click on save.



23. Finally, we have created the Batch Operations Successfully.
And finally, we moved the file into destination bucket by creating the replication rule.



24. Finally, the file “sanjay.pem” was moved into the destinations bucket from the source bucket. By using the cross region, we can move files from one region to another region.

- My-destination-sai(destination bucket)

Objects (2) Info

Name	Type	Last modified	Size	Storage class
job-f451670e-3c96-4715-939f-2b43e1097f0d/	Folder	-	-	-
sanjay.pem	pem	March 31, 2024, 10:19:42 (UTC+05:30)	1.6 KB	Standard

- My-source-sai(source bucket)

Objects (1) Info

Name	Type	Last modified	Size	Storage class
sanjay.pem	pem	March 31, 2024, 10:19:42 (UTC+05:30)	1.6 KB	Standard

The source bucket file in one region was moved to another region of the destination bucket file by using the cross region.