



ASSIGNMENT

COURSE: DEVOPS

TRAINER: Mr. MADHUKAR

Name: Rayana Josna Deepa

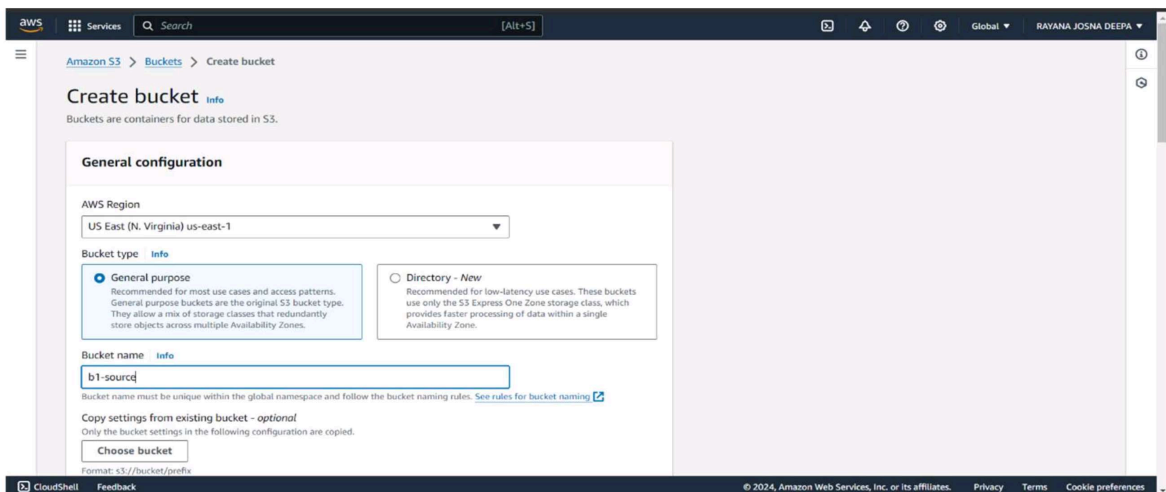
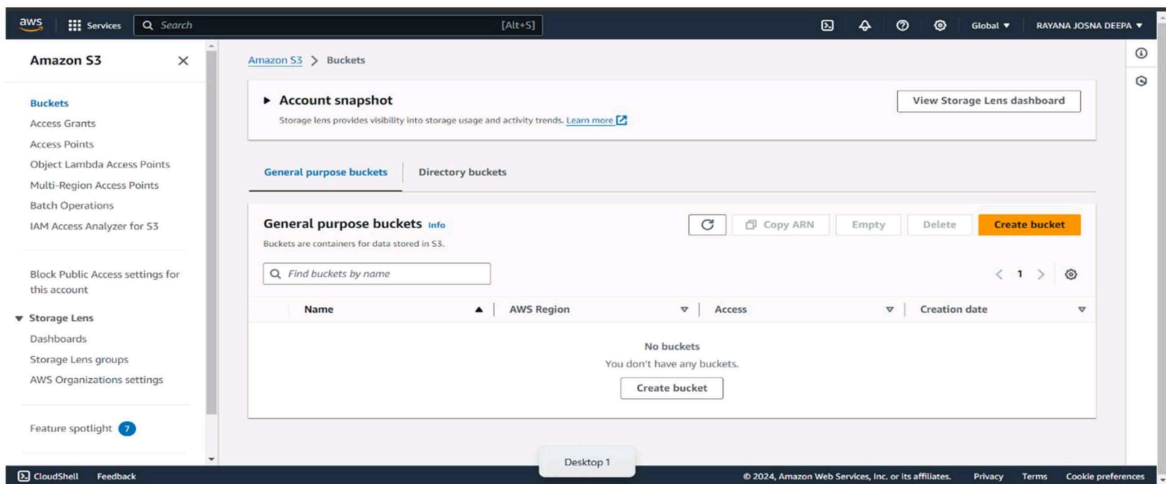
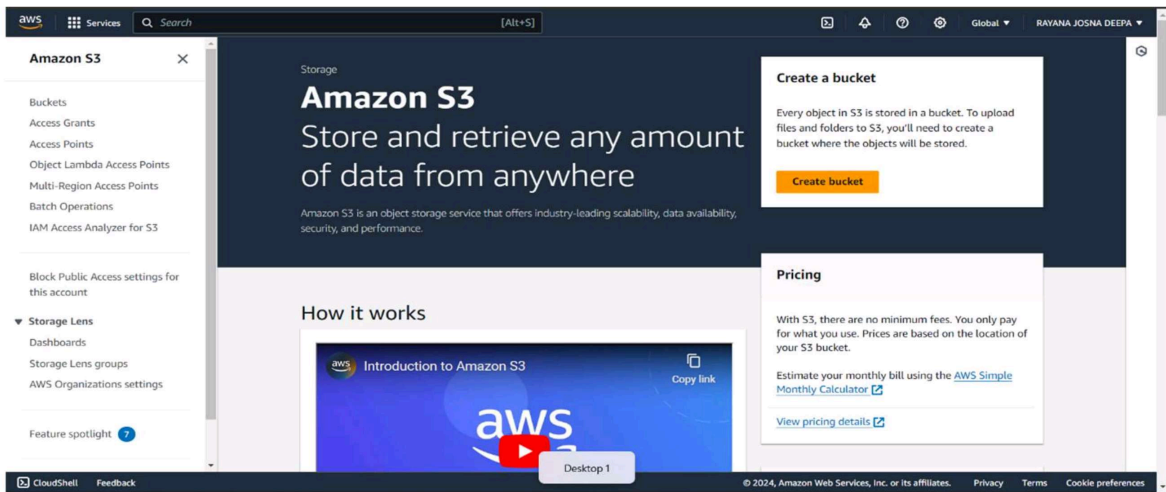
Email: josnadeeparayana@gmail.com

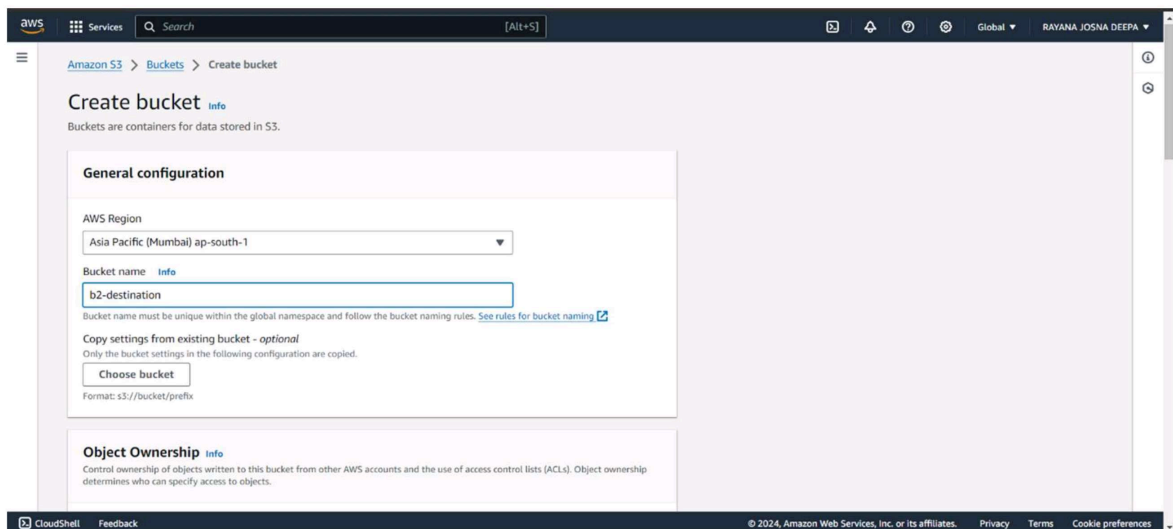
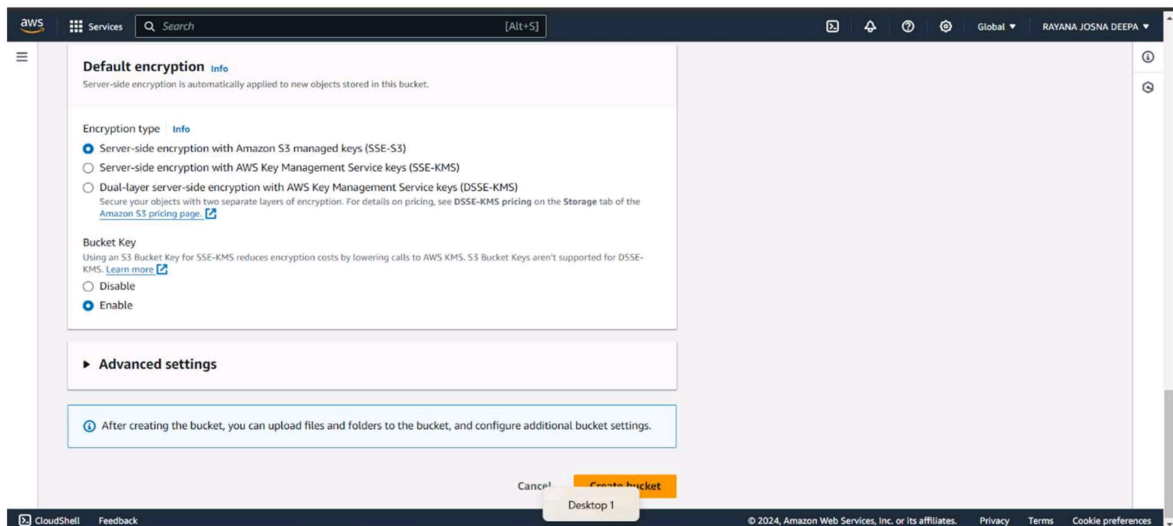
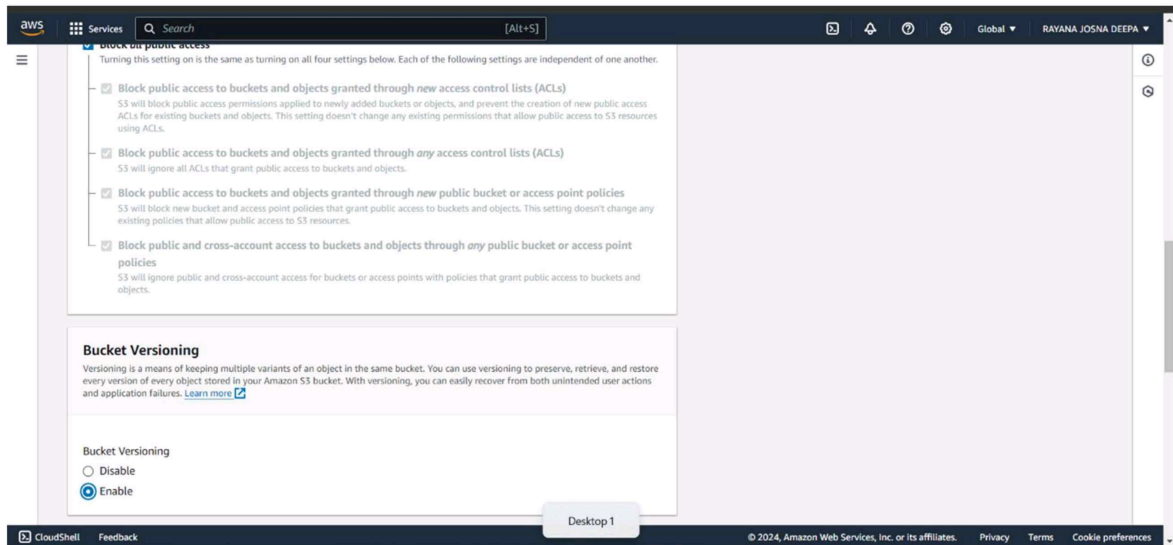
Batch: 8 am

CREATE TWO S3 BUCKET IN DIFFERENT REGIONS, UPLOAD A FILE IN ONE S3 BUCKET AND TRANSFER THE SAME FILE FROM ONE S3 BUCKET TO ANOTHER S3 BUCKET.

CREATING S3 BUCKETS IN DIFFERENT REGIONS:

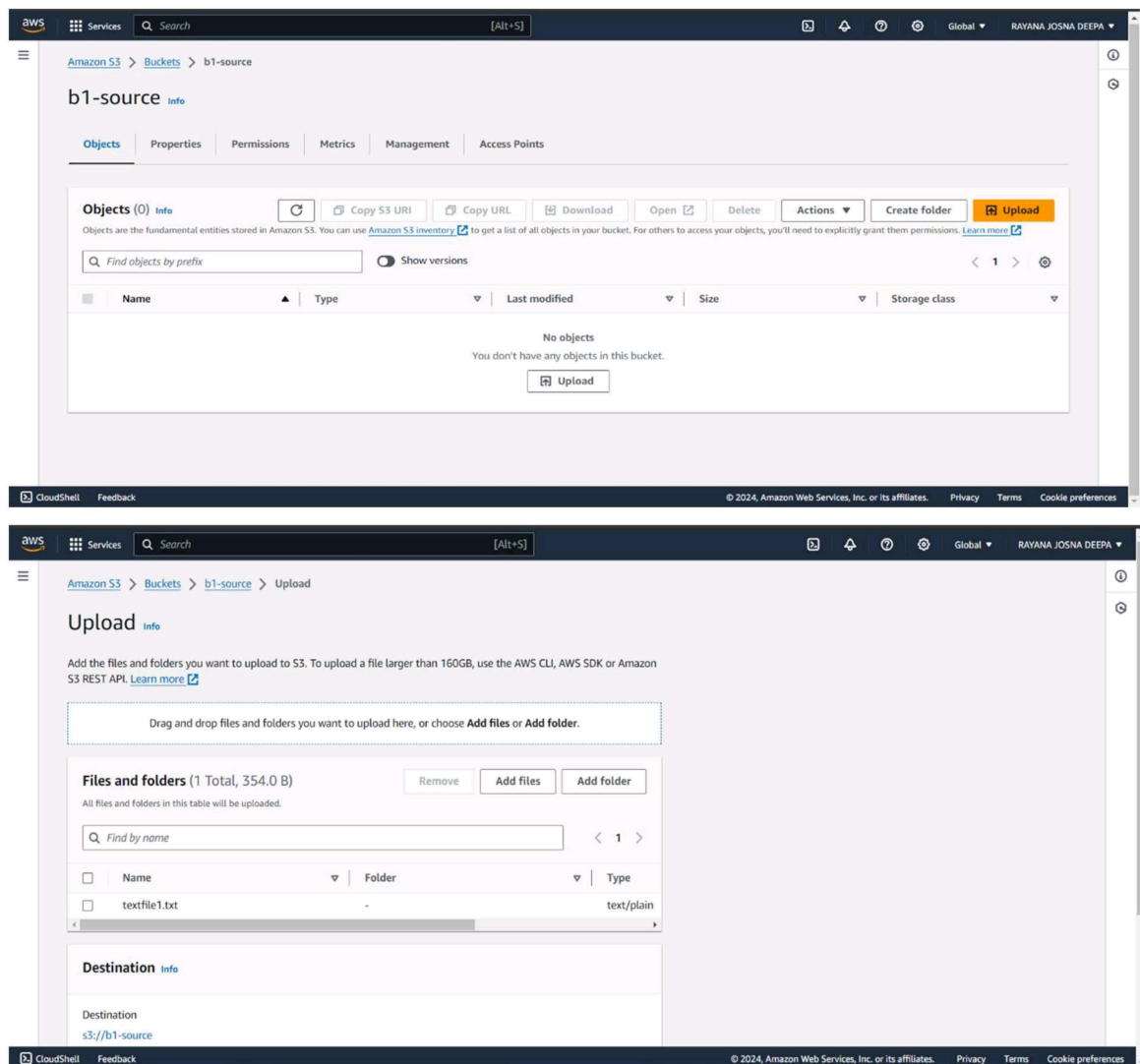
- Go to AWS console and search for S3.
- Open S3 Dashboard and Select **Buckets**. We can find the **create bucket** option.
- Specify the name of the bucket along with the region, enable the bucket versioning, set IAM to create new role and then click on create bucket.
- Likewise create two buckets each belonging to two different regions.



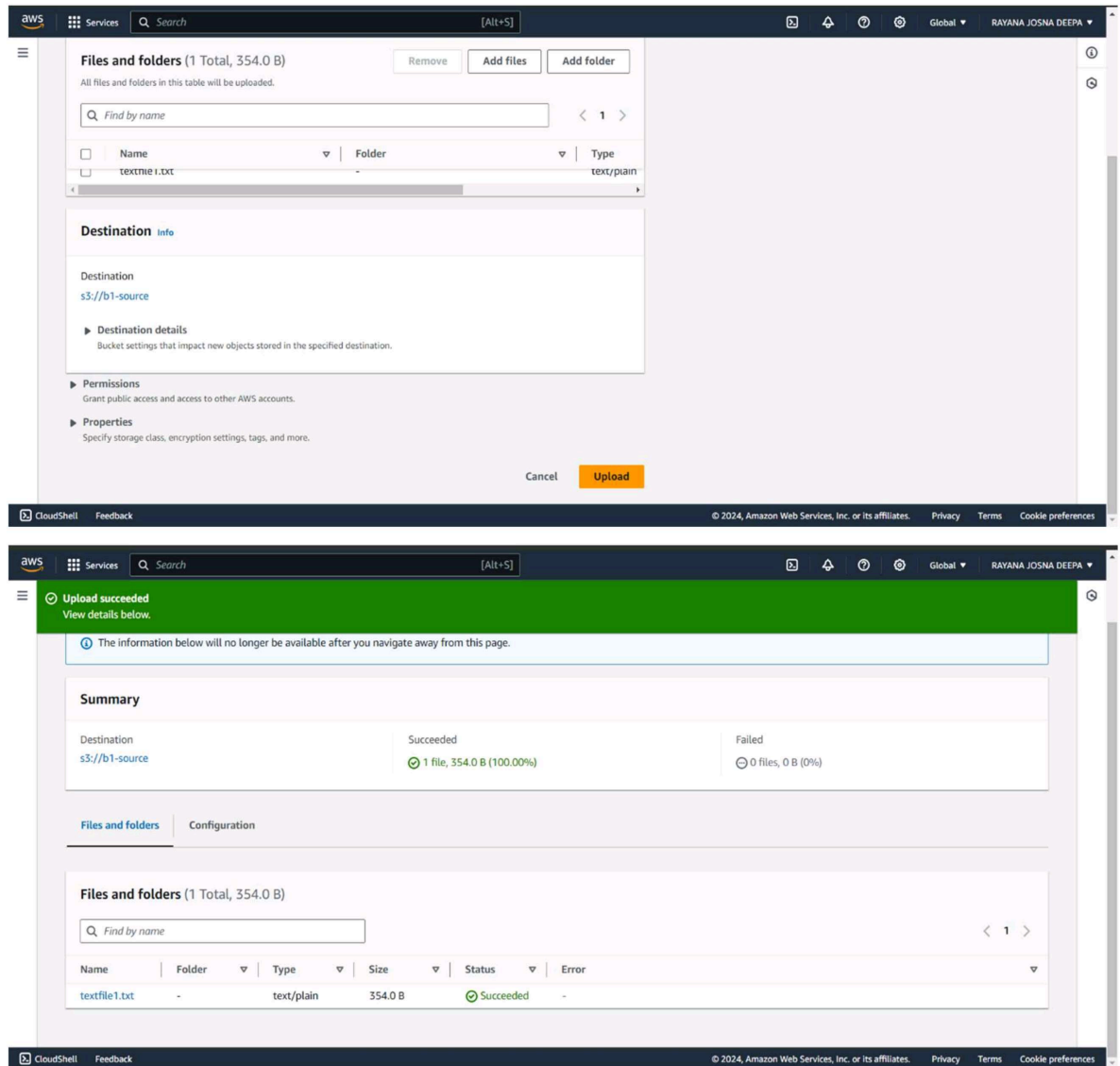


UPLOADING A FILE INTO S3 BUCKET:

- The source bucket is used to upload and add files and folders that will be replicated into destination bucket which are shown as objects.
- A folder can be created using the **create folder** option.
- Add files or folders by using **upload** option and select **add files** to add a file from the device.



- The files or folders selected from the device are displayed after selecting under Files and Folders.



CREATING A CROSS REPLICATION RULE:

- Go to source bucket and click on **Management**, under management the **create replication rule** will be shown.
- Click on create replication rule and specify the rule name and change the rule scope to Apply to all objects in the bucket.
- Select the destination bucket and choose the IAM role as create new role and then submit.
- A confirmation will appear to replicate the existing objects from source to destination.

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b1-source

ObjectsPropertiesPermissionsMetricsManagementAccess Points

Lifecycle rules

Use lifecycle rules to define actions you want Amazon S3 to take during an object's lifetime such as transitioning objects to another storage class, archiving them, or deleting them after a specified period of time. [Learn more](#)

View details

Edit

Delete

Actions

Create lifecycle rule

Lifecycle rule name	Status	Scope	Current version acti...	Noncurrent version...	Expired object delet...	Incomplete multipa...
No lifecycle rules There are no lifecycle rules for this bucket.						
<div>Create lifecycle rule</div>						

Replication rules (0)

Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. [Learn more](#)

View details

Edit rule

Delete

Actions

Create replication rule

Replication rule name	Status	Destination bucket	Destination Region	Priority	Scope	Storage class	Replica owner	Replication Time Control	KMS-encrypted objects (SSE-KMS or DSSE-KMS)	Replica modification sync
No replication rules										

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Amazon S3 > Buckets > b1-source > Replication rules > Create replication rule

Create replication rule

Replication rule configuration

Replication rule name

crj

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.

0

Source bucket

Source bucket name

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Choose a bucket

X

S3 Buckets

Buckets (2)

Find buckets by name

Name

AWS Region

☐ b1-sourceUS East (N. Virginia) us-east-1

☒ b2-destinationAsia Pacific (Mumbai) ap-south-1

Cancel

Choose path

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

Bucket name
Choose the bucket that will receive replicated objects.

Destination Region
Asia Pacific (Mumbai) ap-south-1

IAM role

☒ Create new role
☐ Choose from existing IAM roles
☐ Enter IAM role ARN

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.

- A new Batch operations job is created to replicate the objects from source bucket to destination bucket.
- It will confirm the destination again before created a new job to replicate objects.

-

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Amazon S3

Buckets

b1-source

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.

Completion report

Generate a CSV completion report that lists your target objects, task success or error codes, outputs, and descriptions. Completion reports are encrypted using SSE-S3. [Learn more](#)

☒ Generate completion report

Completion report scope

☐ Failed tasks only

☒ All tasks

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Choose a completion report destination

S3 Buckets

Buckets (2)

Name

▼

AWS Region

▼

☐ b1-source

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

☒ b2-destination

Asia Pacific (Mumbai) ap-south-1

Cancel

Choose path

aws

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Generate completion report

Completion report scope

☐ Failed tasks only

☒ All tasks

Completion report destination

Specify a general purpose bucket location to store the completion report. *'/job-[job-id]/report.json'* will automatically be appended to the specified destination. [Learn more](#)

s3://b2-destination

View

Browse S3

Format: s3://<bucket>/<optional-prefix-with-path>. S3 will append the path with a *'/'*. If you add a *'/'* to the prefix, it will appear as an extra folder in the S3 console.

Permissions

Choose an IAM role with the [required access permissions and trust relationships](#). An IAM role policy template based on your job configuration, and the IAM trust policy required for batch operations to assume the IAM role are available below. [Learn more about IAM roles](#)

View IAM role policy template and IAM trust policy

☒ Create new role

☐ Choose from existing IAM roles

☐ Enter IAM role ARN

Cancel

Save

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The image consists of two screenshots of the AWS Batch Operations console, illustrating the lifecycle of a job. The top screenshot shows a newly created job, and the bottom screenshot shows the same job after it has completed.

Top Screenshot: Job Created

A green notification banner at the top states: "Successfully created job ID f038ac3a-cc0b-4d53-99a2-22897c24f950. The time it takes to prepare a job is based on the size of the job's manifest and the time required to complete higher-priority jobs." A "View details" button is present.

The main heading is "Batch Operations". Below it, a paragraph explains that a job is used to execute batch operations on a list of S3 objects, which are contained in a manifest object. It notes that after the total number of objects is confirmed, the job status updates to "Awaiting your confirmation to run", and you must "Run job" within 30 days. Job events are published to CloudWatch Events. A link to "Learn more" is provided.

The "Jobs (1)" section shows a table with one job:

Job ID	Status	Description	Operation	Date created	Total objects	% Complete	Total failed (rate)	Priority
f038ac3a-cc0b-4d53-99a2-22897c24f950	New	2024-04-01 - Replicate	Replicate	April 1, 2024, 19:31:37 (UTC+05:30)	Not yet available	0%	0 (0%)	10

Bottom Screenshot: Job Completed

The same "Jobs (1)" section now shows the job as "Completed":

Job ID	Status	Description	Operation	Date created	Total objects	% Complete	Total failed (rate)	Priority
f038ac3a-cc0b-4d53-99a2-22897c24f950	Completed	2024-04-01 - Replicate	Replicate	April 1, 2024, 19:31:37 (UTC+05:30)	1	100%	0 (0%)	10

- The destination bucket displays the job created along the objects replicated into the bucket from source bucket.
- Whenever a new object is uploaded or added to the source bucket it will be replicated into the destination bucket.

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Amazon S3

Buckets

b2-destination

b2-destination

Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (2)

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 >

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	 job-f038ac3a-cc0b-4d53-99a2-22897c24f950/	Folder	-	-	-
<input type="checkbox"/>	 textfile1.txt	txt	April 1, 2024, 19:16:40 (UTC+05:30)	354.0 B	Standard

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