

# Multi-Account Disaster Recovery using S3 Cross-Region Replication (CRR) Steps

Step 1. Open S3 Service

Step 2. Create a bucket in Account-A and Account-B. Keep enabling bucket versioning.

The screenshot shows the AWS S3 console with the 'Buckets' page. A green success message at the top states: "Successfully created bucket \*mangesh-src\*. To upload files and folders, or to configure additional bucket settings, choose View details." Below this, there are two tabs: "General purpose buckets" (selected) and "Directory buckets". Under "General purpose buckets", a table lists three buckets:

Name	AWS Region	Creation date
mangesh-src	Asia Pacific (Mumbai) ap-south-1	November 22, 2025, 20:47:54 (UTC+05:30)
pimpri-k3	Europe (Paris) eu-west-3	November 21, 2025, 19:27:39 (UTC+05:30)
web-host-03	Europe (Paris) eu-west-3	November 21, 2025, 20:34:20 (UTC+05:30)

On the right side of the page, there are two cards: "Account snapshot" and "External access summary - new".

Bucket created in Account-A.

The screenshot shows the AWS S3 console with the 'Buckets' page. A green success message at the top states: "Successfully created bucket \*ganesh-dest\*. To upload files and folders, or to configure additional bucket settings, choose View details." Below this, there are two tabs: "General purpose buckets" (selected) and "Directory buckets". Under "General purpose buckets", a table lists two buckets:

Name	AWS Region	Creation date
ganesh-dest	Asia Pacific (Singapore) ap-southeast-1	November 22, 2025, 20:51:44 (UTC+05:30)
narale-12	US East (N. Virginia) us-east-1	November 16, 2025, 18:12:57 (UTC+05:30)

On the right side of the page, there are two cards: "Account snapshot" and "External access summary - new".

Bucket created in Account-B.

Step 3. Account-A → Open Source Bucket → Go to Management tab → Under Replication Rules → Create replication rule. → Enter rule name : cross-account-replication, status : Enabled.

Step 4. Enter the details.

The screenshot shows the 'Create replication rule' configuration page. The 'Replication rule configuration' section includes:

- Replication rule name: cross-account-replication
- Status: Enabled (radio button selected)
- Priority: 0

The 'Source bucket' section includes:

- Source bucket name: mangesh-src
- Source Region: Asia Pacific (Mumbai) ap-south-1
- Choose a rule scope:
  - Limit the scope of this rule using one or more filters
  - Apply to all objects in the bucket

At the bottom of the page, there are links for CloudShell, Feedback, and Console Mobile App, along with standard AWS footer links for Privacy, Terms, and Cookie preferences.

Step 5. Choose Destination → It is in another account. → Destination bucket ARN. → Enter destination Account ID .

**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](#) or see [Amazon S3 pricing](#).

- Choose a bucket in this account
- Specify a bucket in another account

**Account ID**  
680498180045

**Bucket name**  
Choose the bucket that will receive replicated objects.  
ganesh-dest

**Destination Region**  
Asia Pacific (Singapore) ap-southeast-1

Change object ownership to destination bucket owner  
Objects in the source bucket not owned by the source bucket owner will be replaced with access policy that grants full permission to the destination bucket owner

**IAM role**

Permission to access the specified resources

- Create new role
- Choose from existing IAM roles
- Enter IAM role ARN

Click Save.

**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 configuration settings**  
Configuration settings affect all replication rules in the bucket.

**Source bucket**: mangesh-src  
**Source Region**: Asia Pacific (Mumbai) ap-south-1

**IAM role**: s3cr\_role\_for\_mangesh-src

**Replication rules (1)**

Actions	Create replication rule
<a href="#">View details</a>	<a href="#">Edit rule</a>
<a href="#">Delete</a>	
<a href="#">Actions</a>	<a href="#">Create replication rule</a>

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](#)

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
cross-account-replication	Enabled	s3://ganesh-dest	Asia Pacific (Singapore) ap-southeast-1	0	Entire bucket	Same as source	Same as source	Disabled	Do not replicate	Disabled

Overview of replication rule.

Step . Generate a policy in AWS policy generator. → For bucket policy

**Add conditions (optional)**

**Statements added (2)**

You added the following statements. Click the button below to Generate a policy.

Principal(s)	Effect	Action	Resource(s)	Condition(s)	Remove
arn:aws:iam::193629269317:role/service-role/s3cr_role_for_mangesh-src_1	Allow	s3:ReplicateObject s3:ReplicateDelete	arn:aws:s3:::ganesh-dest/*	None	<a href="#">Remove</a>
arn:aws:iam::193629269317:role/service-role/s3cr_role_for_mangesh-src_1	Allow	s3>ListBucket s3>ListBucketMultiPartUploads s3>ListBucketVersions s3:GetBucketVersioning s3:PutBucketVersioning	arn:aws:s3:::ganesh-dest	None	<a href="#">Remove</a>

**Step 3: Generate policy**  
A policy is a document (written in the [Access Policy Language](#)) that acts as a container for one or more statements.

[Generate Policy](#)

**Policy JSON Document**

```

1. 1 "Version": "2012-10-17",
2. 2 "Statement": [
3. 3     {
4. 4         "Effect": "Allow",
5. 5         "Action": "s3:ReplicateObject",
6. 6         "Principal": "arn:aws:iam::193629269317:role/service-role/s3cr_role_for_mangesh-src_1",
7. 7         "Resource": "arn:aws:s3:::ganesh-dest/*"
8. 8     },
9. 9     {
10. 10        "Action": [
11. 11            "s3:ListBucket",
12. 12            "s3:ListBucketMultiPartUploads",
13. 13            "s3:GetBucketVersioning",
14. 14            "s3:ReplicateDelete"
15. 15        ],
16. 16        "Effect": "Allow",
17. 17        "Principal": "arn:aws:iam::193629269317:role/service-role/s3cr_role_for_mangesh-src_1",
18. 18        "Resource": "arn:aws:s3:::ganesh-dest/*"
19. 19    },
20. 20    {
21. 21        "Action": [
22. 22            "s3>ListBucket",
23. 23            "s3>ListBucketMultiPartUploads",
24. 24            "s3:GetBucketVersioning",
25. 25            "s3:ReplicateDelete",
26. 26            "s3:PutBucketVersioning"
27. 27        ],
28. 28        "Effect": "Allow",
29. 29        "Principal": "arn:aws:iam::193629269317:role/service-role/s3cr_role_for_mangesh-src_1",
30. 30        "Resource": "arn:aws:s3:::ganesh-dest"
31. 31    }
32. 32]
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```

1 "Version": "2012-10-17",
2 "Id": "",
3 "Statement": [
4     {
5         "Sid": "ObjectLevelPermissions",
6         "Effect": "Allow",
7         "Principal": {
8             "AWS": "arn:aws:iam::193629269317:role/service-role/s3cr_rrole_for_ganesh-dest"
9         },
10        "Action": [
11            "s3:ReplicateObject",
12            "s3:ReplicateDelete"
13        ],
14        "Resource": "arn:aws:s3:::ganesh-dest/*"
15    },
16    {
17        "Sid": "BucketLevelPermissions",
18        "Effect": "Allow",
19        "Principal": {
20            "AWS": "arn:aws:iam::193629269317:role/service-role/s3cr_rrole_for_ganesh-src"
21        },
22        "Action": [
23            "s3:List",
24            "s3:GetBucketVersioning",
25            "s3:PutBucketVersioning"
26        ],
27        "Resource": "arn:aws:s3:::ganesh-dest"
28    }
29]

```

## Step 6. Upload files in Account-A

Name	Type	Last modified	Size	Storage class
1 - Introduction of Power BI.pdf	pdf	November 22, 2025, 21:01:37 (UTC+05:30)	912.9 KB	Standard

Step 7. After uploaded object → Click the object → Shows Properties → In the object management overview → See the Management Configurations → Check the Replication Status.

**Object management overview**  
The following bucket properties and object management configurations impact the behavior of this object.

**Bucket properties**

**Bucket Versioning**  
When enabled, multiple variants of an object can be stored in the bucket to easily recover from unintended user actions and application failures.  
Enabled

**Management configurations**

**Replication status**  
When a replication rule is applied to an object the replication status indicates the progress of the operation.  
COMPLETED

**Expiration rule**  
You can use a lifecycle configuration to define expiration rules to schedule the removal of this object after a pre-defined time period.  
-

**Expiration date**  
The object will be made noncurrent and generate a delete marker on this date.  
-

Step 8. Check whether the file is replicated in Account-B after some time.

The screenshot shows the Amazon S3 console interface. At the top, there's a navigation bar with links for IAM, S3, and EC2. The main area is titled "ganesh-dest info". Below the title, there are tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. The "Objects" tab is selected, showing a list of objects. There is one object listed: "1 - Introduction of Power.pdf". The details for this object are as follows:

Name	Type	Last modified	Size	Storage class
1 - Introduction of Power.pdf	pdf	November 22, 2025, 22:06:49 (UTC+05:30)	912.9 KB	Standard

At the bottom of the page, there are links for CloudShell, Feedback, and Console Mobile App. The footer contains copyright information: © 2025, Amazon Web Services, Inc. or its affiliates.

Object is Replicated successfully in Account-B.