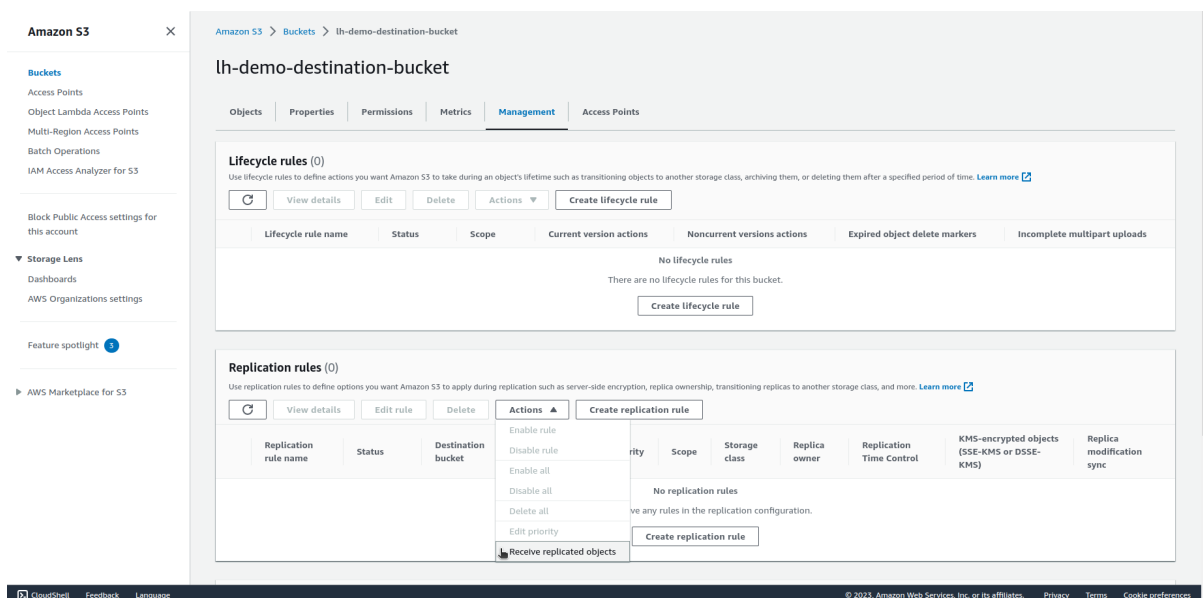
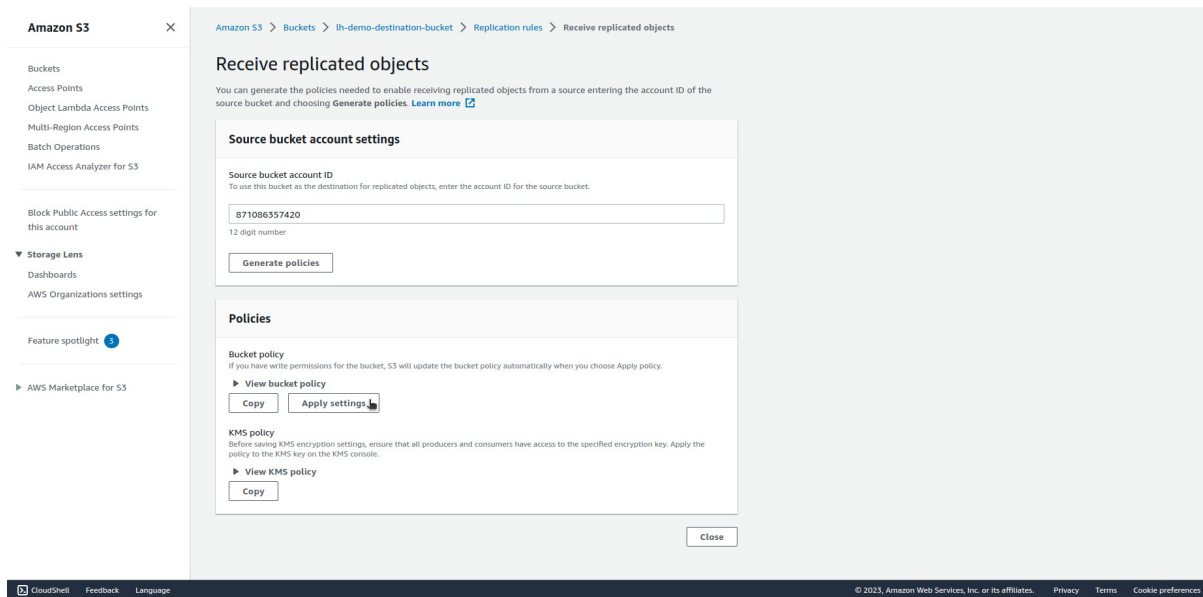


AWS S3 bucket replication

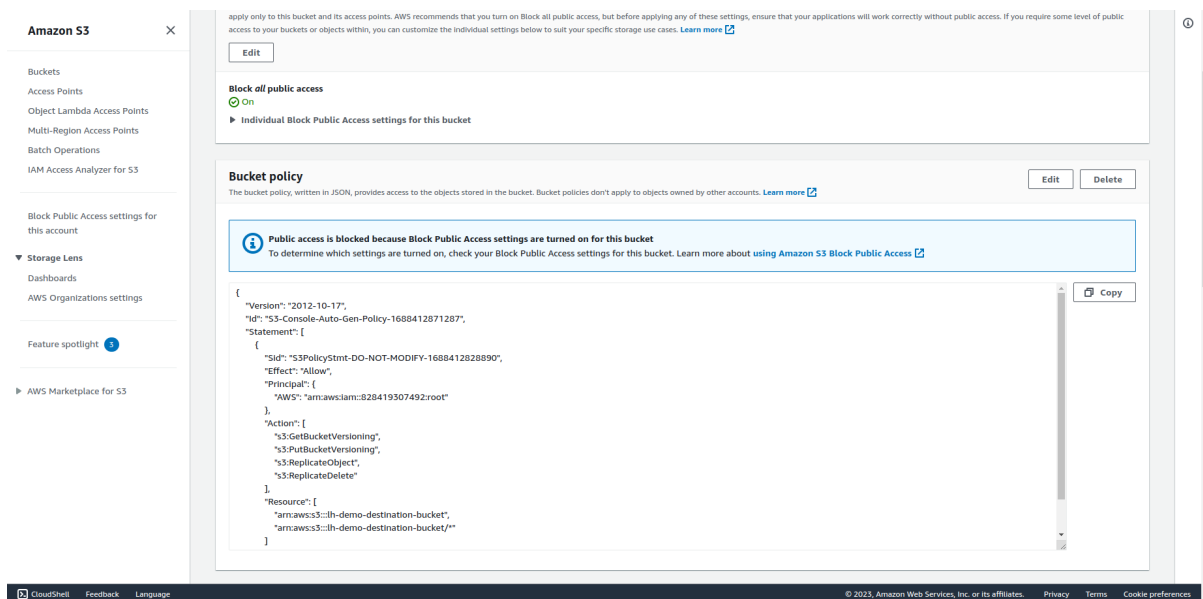
1. Open the AWS Management Console and navigate to the S3 service.
2. Create a destination S3 bucket to replicate Your source bucket to. Enable bucket versioning and leave the rest of the settings default.
3. Click on the newly created destination bucket, go to the "Management" tab, click on "Actions," and select "Receive replicated objects".



4. Enter your account ID and click on "Generate policies".
5. Next, click on "Apply settings".



6. Go back to the destination bucket and check if the policy has been applied in the "Permissions" tab.



7. Next, navigate to the IAM service, and choose "Policies".

8. Click on "Create policy".

9. Choose JSON editor and copy the following policy:

```
{
```

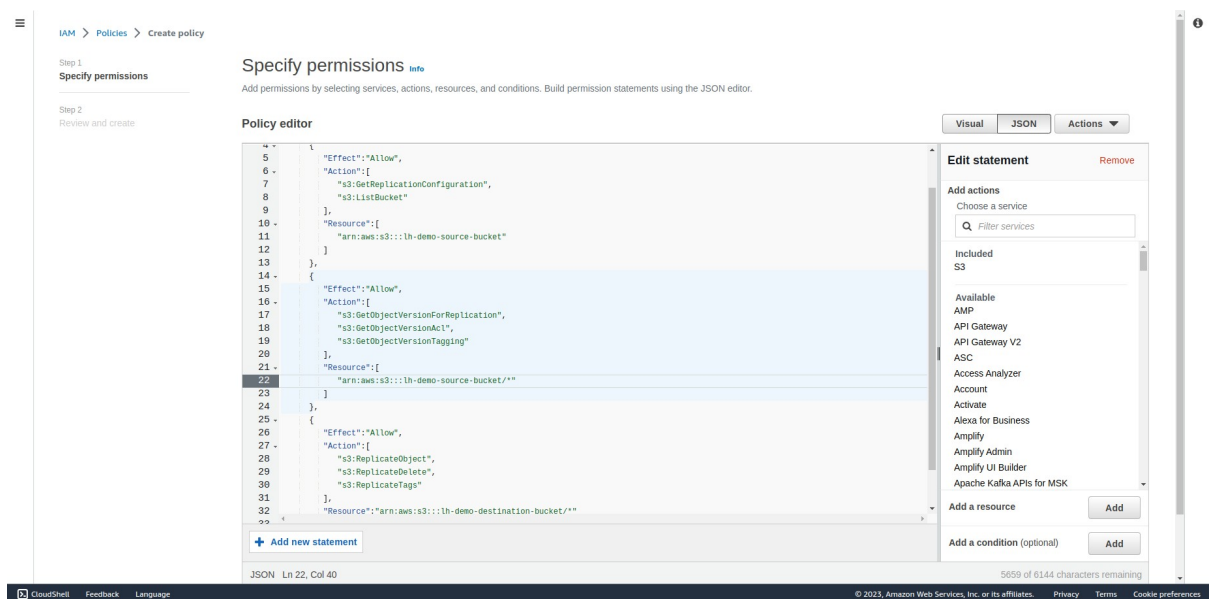
```
"Version":"2012-10-17",
"Statement":[
  {
    "Effect":"Allow",
    "Action":[
      "s3:GetReplicationConfiguration",
      "s3:ListBucket"
    ],
    "Resource":[
      "arn:aws:s3:::SOURCE-BUCKET"
    ]
  },
  {
    "Effect":"Allow",
    "Action":[
      "s3:GetObjectVersionForReplication",
      "s3:GetObjectVersionAcl",
      "s3:GetObjectVersionTagging"
    ],
    "Resource":[
      "arn:aws:s3:::SOURCE-BUCKET/*"
    ]
  },
  {
    "Effect":"Allow",
    "Action":[
      "s3:ReplicateObject",
      "s3:ReplicateDelete",
      "s3:ReplicateTags"
    ]
  }
]
```

```

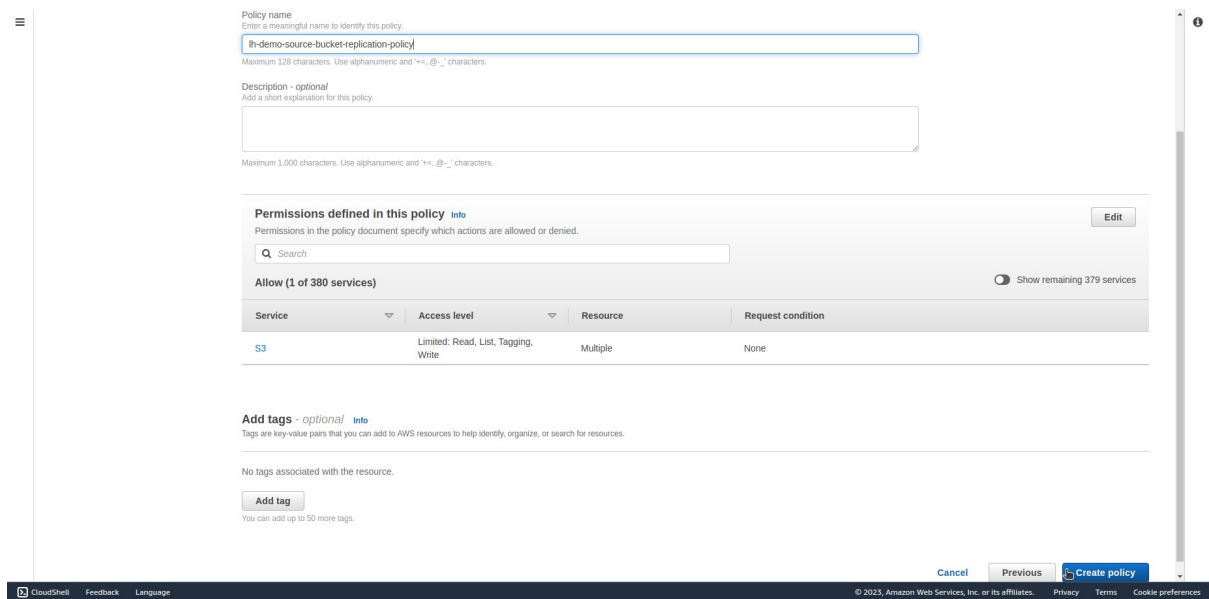
    ],
    "Resource": "arn:aws:s3:::DESTINATION-BUCKET/*"
  }
]
}

```

Replace "SOURCE-BUCKET" with your source bucket name and "DESTINATION-BUCKET" with your destination bucket name, and then click on "Next" in the bottom right corner.



10. Give the IAM policy name and click on "Create policy" in the bottom right corner.



Policy name
Enter a meaningful name to identify this policy.
lh-demo-source-bucket-replication-policy
Maximum 128 characters. Use alphanumeric and "+-.,@_-" characters.

Description - optional
Add a short explanation for this policy.
Maximum 1,000 characters. Use alphanumeric and "+-.,@_-" characters.

Permissions defined in this policy [Info](#) [Edit](#)
Permissions in the policy document specify which actions are allowed or denied.

Search

Allow (1 of 380 services) [Show remaining 379 services](#)

Service	Access level	Resource	Request condition
S3	Limited: Read, List, Tagging, Write	Multiple	None

Add tags - optional [Info](#)
Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

[Add tag](#)
You can add up to 50 more tags.

[Cancel](#) [Previous](#) [Create policy](#)

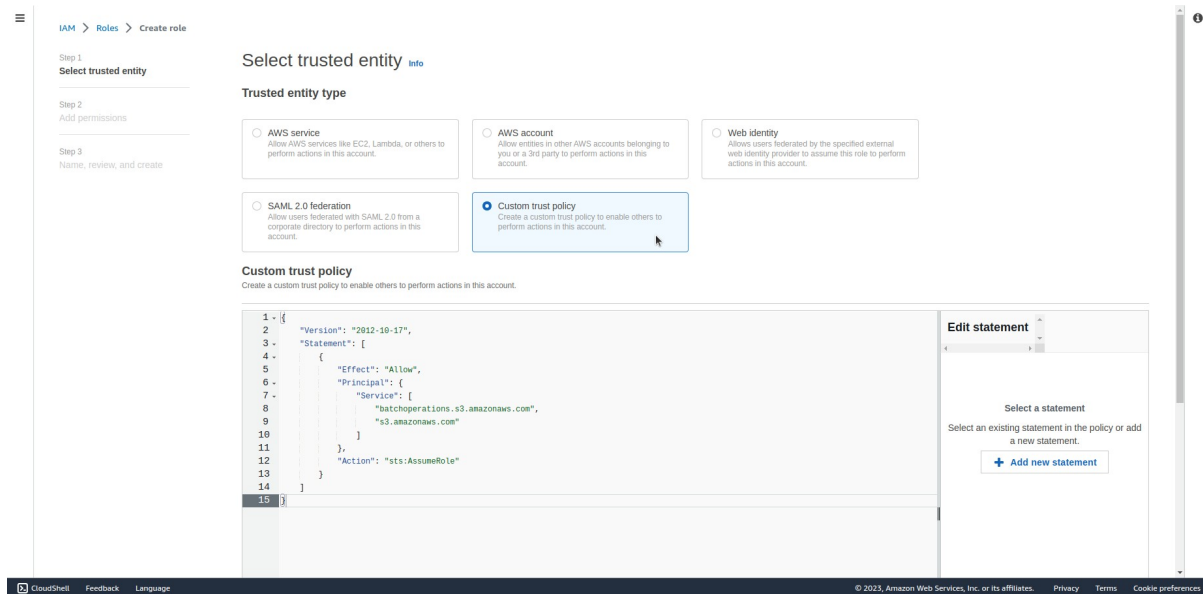
CloudShell Feedback Language © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

11. Next, go to IAM Roles and click on "Create role".

12. In the "Select trusted entity" section, choose "Custom trust policy" and copy the following policy:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": {
        "Service": [
          "batchoperations.s3.amazonaws.com",
          "s3.amazonaws.com"
        ]
      },
      "Action": "sts:AssumeRole"
    }
  ]
}
```

Then click on "Next" in the bottom right corner.



Select trusted entity [Info](#)

Trusted entity type

- ☐ AWS service
- ☐ AWS account
- ☐ Web identity
- ☐ SAML 2.0 federation
- ☒ Custom trust policy

Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.

```

1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Principal": {
7         "Service": [
8           "batchoperations.s3.amazonaws.com",
9           "s3.amazonaws.com"
10        ]
11      },
12      "Action": "sts:AssumeRole"
13    }
14  ]
15 }

```

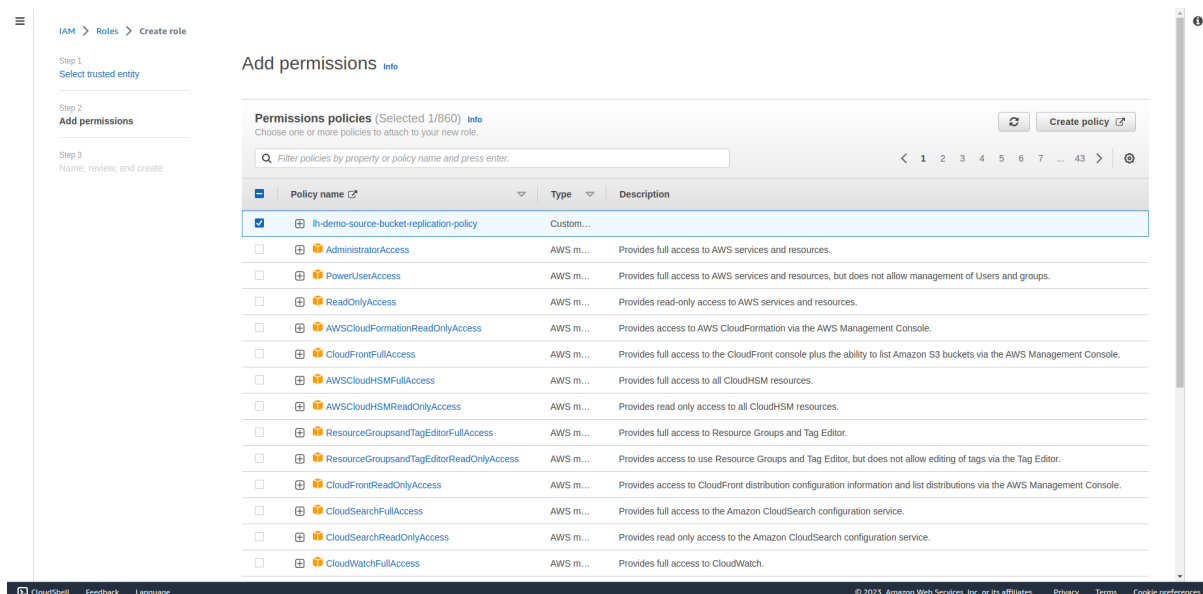
Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

[+ Add new statement](#)

13. Select the newly created policy and click on "Next" in the bottom right corner.



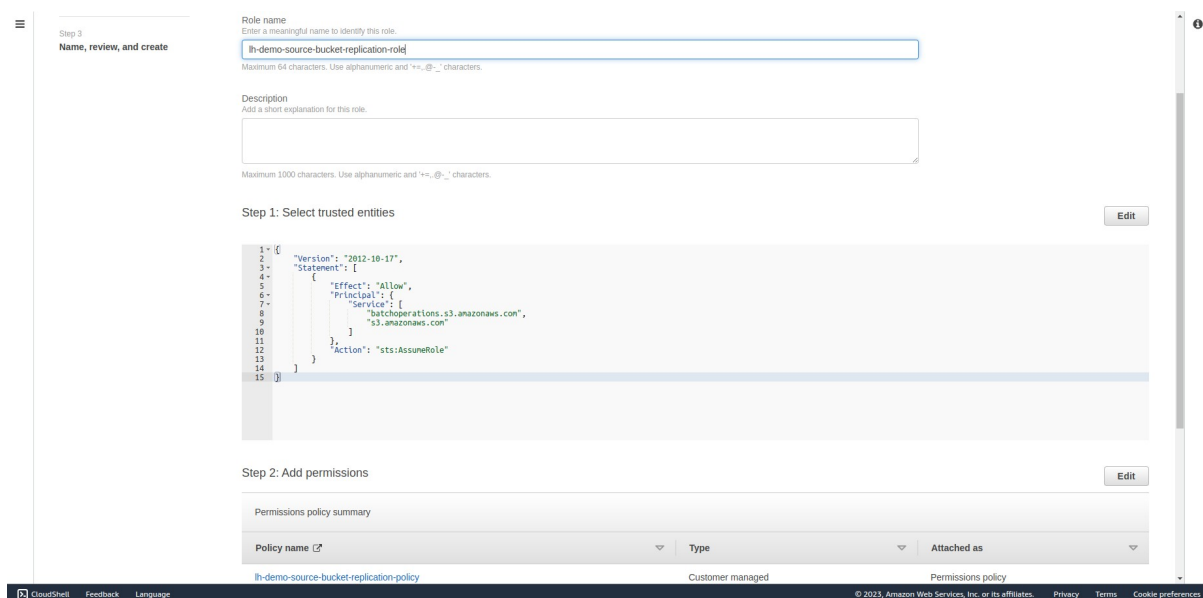
Add permissions [Info](#)

Permissions policies (Selected 1/860) [Info](#)

Choose one or more policies to attach to your new role.

<input checked="" type="checkbox"/>	Policy name	Type	Description
<input checked="" type="checkbox"/>	In-demo-source-bucket-replication-policy	Custom...	
<input type="checkbox"/>	AdministratorAccess	AWS m...	Provides full access to AWS services and resources.
<input type="checkbox"/>	PowerUserAccess	AWS m...	Provides full access to AWS services and resources, but does not allow management of Users and groups.
<input type="checkbox"/>	ReadOnlyAccess	AWS m...	Provides read-only access to AWS services and resources.
<input type="checkbox"/>	AWSCloudFormationReadOnlyAccess	AWS m...	Provides access to AWS CloudFormation via the AWS Management Console.
<input type="checkbox"/>	CloudFrontFullAccess	AWS m...	Provides full access to the CloudFront console plus the ability to list Amazon S3 buckets via the AWS Management Console.
<input type="checkbox"/>	AWSCloudHSMFullAccess	AWS m...	Provides full access to all CloudHSM resources.
<input type="checkbox"/>	AWSCloudHSMReadOnlyAccess	AWS m...	Provides read only access to all CloudHSM resources.
<input type="checkbox"/>	ResourceGroupsandTagEditorFullAccess	AWS m...	Provides full access to Resource Groups and Tag Editor.
<input type="checkbox"/>	ResourceGroupsandTagEditorReadOnlyAccess	AWS m...	Provides access to use Resource Groups and Tag Editor, but does not allow editing of tags via the Tag Editor.
<input type="checkbox"/>	CloudFrontReadOnlyAccess	AWS m...	Provides access to CloudFront distribution configuration information and list distributions via the AWS Management Console.
<input type="checkbox"/>	CloudSearchFullAccess	AWS m...	Provides full access to the Amazon CloudSearch configuration service.
<input type="checkbox"/>	CloudSearchReadOnlyAccess	AWS m...	Provides read only access to the Amazon CloudSearch configuration service.
<input type="checkbox"/>	CloudWatchFullAccess	AWS m...	Provides full access to CloudWatch.

14. Give the IAM role name and click on "Create role" in the bottom right corner.



Step 3: Name, review, and create

Role name
Enter a meaningful name to identify this role.

Maximum 64 characters. Use alphanumeric and "+,=,_,@,." characters.

Description
Add a short explanation for this role.

Maximum 1000 characters. Use alphanumeric and "+,=,_,@,." characters.

Step 1: Select trusted entities Edit

```

1- {
2-   "Version": "2012-10-17",
3-   "Statement": [
4-     {
5-       "Effect": "Allow",
6-       "Principal": {
7-         "Service": [
8-           "batchoperations.s3.amazonaws.com",
9-           "s3.amazonaws.com"
10-        ]
11-      },
12-      "Action": "sts:AssumeRole"
13-    }
14-  ]
15- }

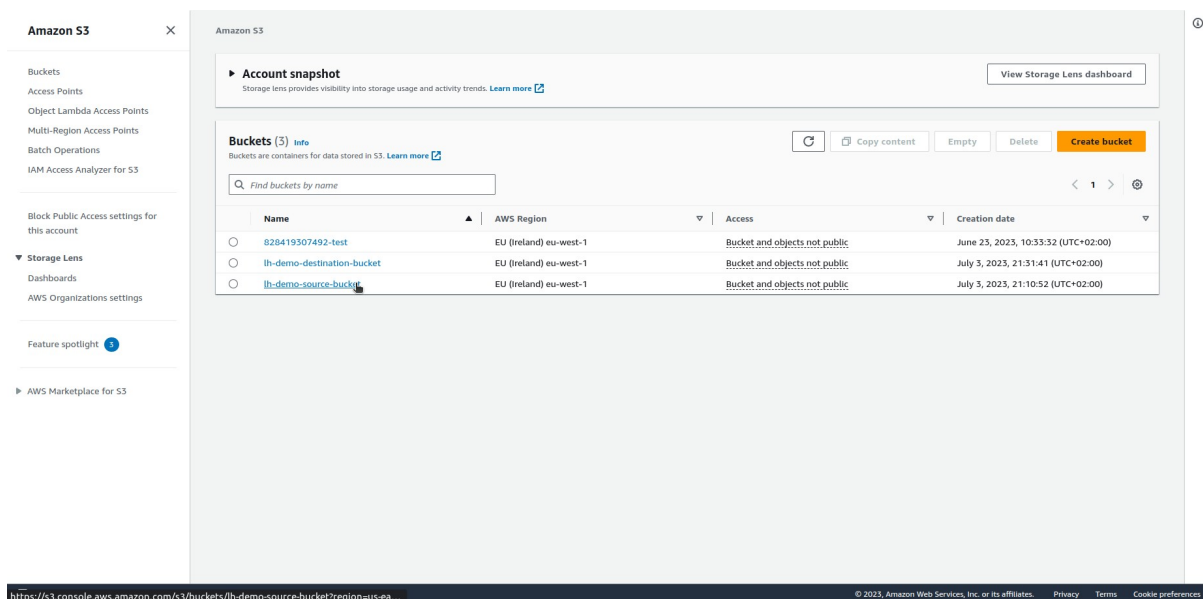
```

Step 2: Add permissions Edit

Permissions policy summary

Policy name	Type	Attached as
lh-demo-source-bucket-replication-policy	Customer managed	Permissions policy

15. Next, go back to the S3 buckets list and click on your source bucket name.



Amazon S3

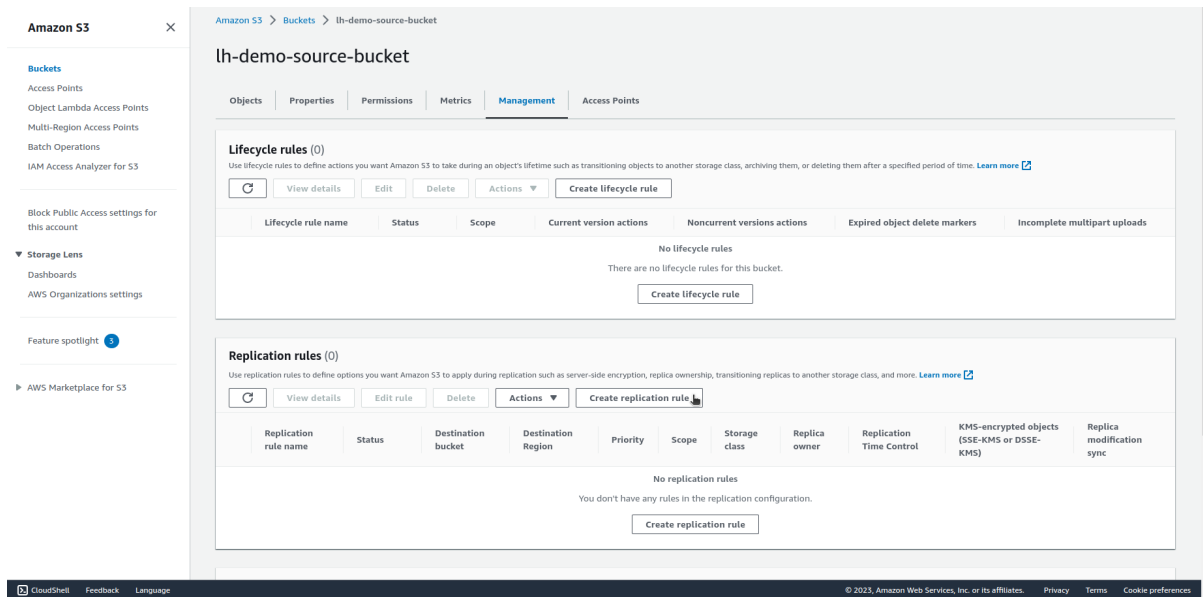
Account snapshot
Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Buckets (3) [Info](#) Copy content Empty Delete Create bucket

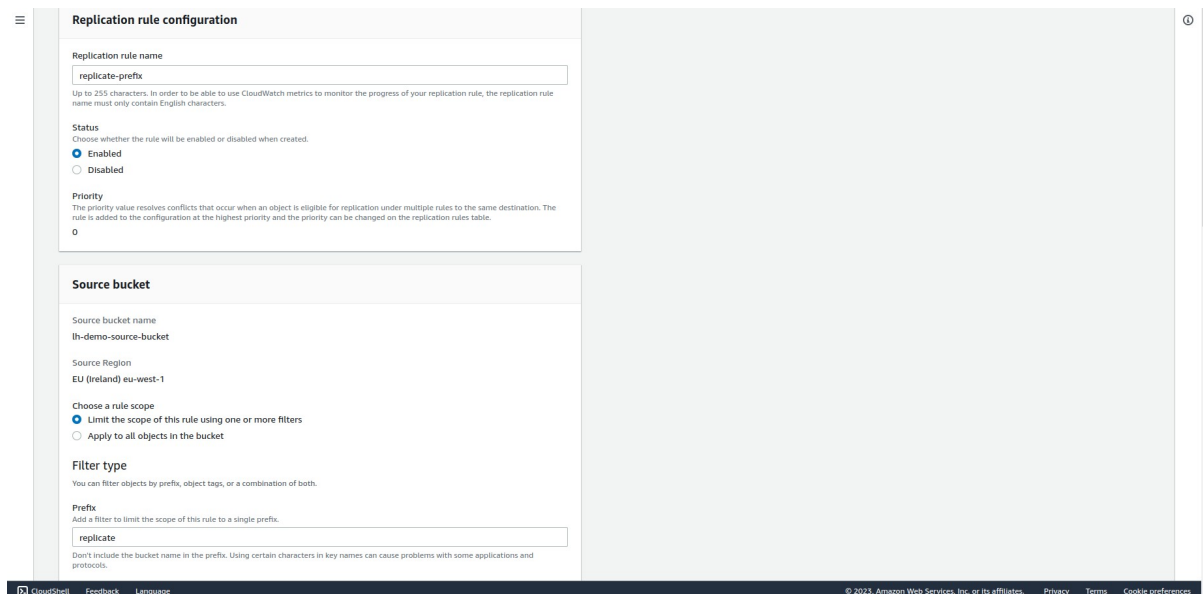
Find buckets by name

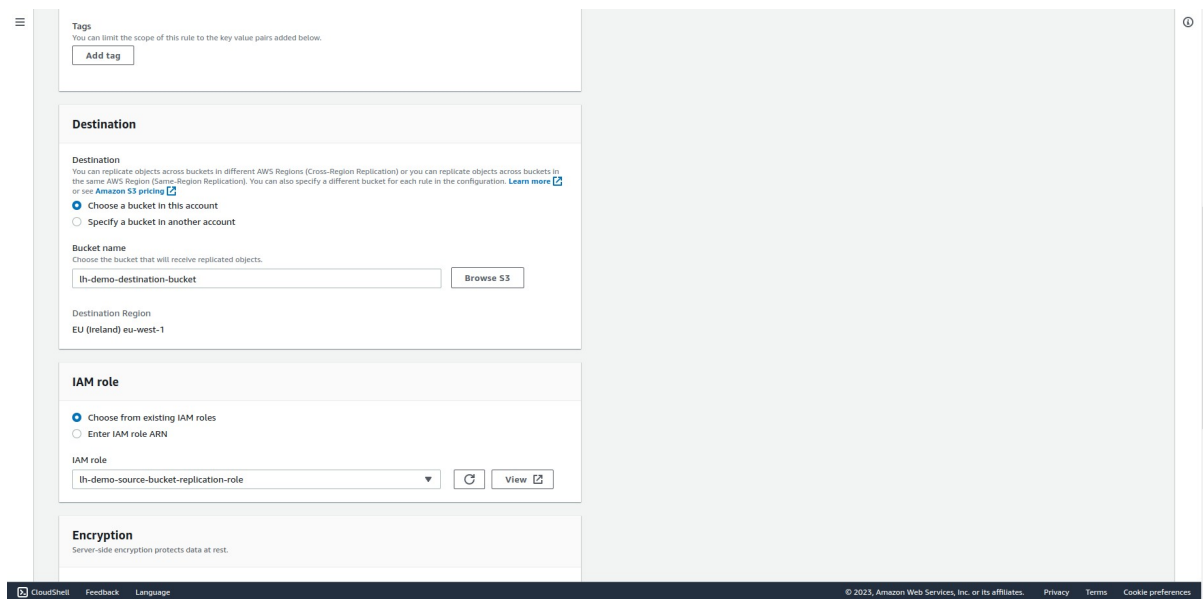
Name	AWS Region	Access	Creation date
828419307492-test	EU (Ireland) eu-west-1	Bucket and objects not public	June 23, 2023, 10:33:32 (UTC+02:00)
lh-demo-destination-bucket	EU (Ireland) eu-west-1	Bucket and objects not public	July 3, 2023, 21:31:41 (UTC+02:00)
lh-demo-source-bucket	EU (Ireland) eu-west-1	Bucket and objects not public	July 3, 2023, 21:10:52 (UTC+02:00)

16. In the "Management" tab, in the "Replication rules" section, click on "Create replication rule".



17. Enter the rule ID, enter the specific prefix that you want to replicate in the "Source bucket" section, then choose the destination bucket in the "Destination" section.





The screenshot shows the AWS S3 Replication configuration console. The 'Destination' section is active, showing options for 'Choose a bucket in this account' and 'Specify a bucket in another account'. The 'Bucket name' field is set to 'lh-demo-destination-bucket' and the 'Destination Region' is 'EU (Ireland) eu-west-1'. The 'IAM role' section is also visible, with the option 'Choose from existing IAM roles' selected. The 'IAM role' dropdown is set to 'lh-demo-source-bucket-replication-role'. The 'Encryption' section is at the bottom, with the option 'Server-side encryption protects data at rest'.

18. In the "IAM role" section, choose the previously created IAM role.

19. Choose additional replication options as per your needs and click on "Save".

20. If You want to replicate existing files select "Yes, replicate existing objects." in the pop-up window and click on "Submit".

21. Choose the path in S3 bucket for completion report or disable this option. Leave the rest of the settings default and click on "Save".

22. Repeat steps 16-21 for every prefix that You want to replicate.