

S3 Cross-Account Access

1. Introduction

This document explains how S3 Cross-Account access was configured so that Account B can upload objects to an S3 bucket owned by Account A while Account A remains the object owner.

- Account A owns the S3 bucket: cross-account-demo-bucket
- Account B (ID: 750311440127) has an IAM user that uploads files
- ACL bucket-owner-full-control ensures Account A becomes owner

2. Account A Configuration (Bucket Owner)

S3 bucket was created with the name: cross-account-demo-bucket

Added the following bucket policy to allow uploads from Account B:

```
{  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Sid": "AllowAccountBToUpload",  
      "Effect": "Allow",  
      "Principal": {  
        "AWS": "arn:aws:iam::750311440127:root"  
      },  
      "Action": [  
        "s3:PutObject",  
        "s3:PutObjectAcl"  
      ],  
      "Resource": "arn:aws:s3:::cross-account-demo-bucket/*"  
    }  
  ]  
}
```

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "AllowAccountBToUpload",
      "Effect": "Allow",
      "Principal": {
        "AWS": "arn:aws:iam::750511440127:root"
      },
      "Action": [
        "s3:PutObject",
        "s3:PutObjectAcl"
      ],
      "Resource": "arn:aws:s3:::cross-account-demo-bucket/*"
    }
  ]
}
```

4. Account B Configuration (Uploader)

IAM user created: access-user

Attached inline policy:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:PutObject",
        "s3:PutObjectAcl"
      ],
      "Resource": "arn:aws:s3:::cross-account-demo-bucket/*"
    }
  ]
}
```

The screenshot shows the AWS IAM console with the URL <https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/details/access-user/editPolicy/object-creation?step=add...>. The page title is "Modify permissions in object-creation". The left sidebar shows "Step 1: Modify permissions in object-creation" and "Step 2: Review and save". The main area contains a "Policy editor" with JSON code:

```
1 {  
2   "Version": "2012-10-17",  
3   "Statement": [  
4     {  
5       "Effect": "Allow",  
6       "Action": [  
7         "s3:PutObject",  
8         "s3:PutObjectAcl"  
9       ],  
10      "Resource": "arn:aws:s3:::cross-account-demo-bucket/*"  
11    }  
12  ]  
13 }
```

The right side of the editor includes tabs for "Visual", "JSON" (which is selected), and "Actions". Below the editor, there are buttons for "Edit statement", "Select a statement", and "+ Add new statement".

5. Uploading File from Account B Using AWS CLI

The following command was executed to upload a file to Account A bucket:

```
aws s3 cp "C:\Users\chandrashekhar\Downloads\f1.txt" s3://cross-account-demo-bucket/f1.txt --acl bucket-owner-full-control
```

```
C:\Users\chandrashekhar\Downloads>aws s3 cp "C:\Users\chandrashekhar\Downloads\f1.txt" s3://cross-account-demo-bucket/f1.txt --acl bucket-owner-full-control  
upload: ..\f1.txt to s3://cross-account-demo-bucket/f1.txt  
  
C:\Users\chandrashekhar\Downloads>aws s3 cp "C:\Users\chandrashekhar\Downloads\f1.txt" s3://cross-account-demo-bucket/index.html --acl bucket-owner-full-control  
upload: ..\f1.txt to s3://cross-account-demo-bucket/index.html  
  
C:\Users\chandrashekhar\Downloads>
```

6. Verification in Account A

Verified that:

- File f1.txt exists in the bucket
- Owner is Account A

The screenshot shows the AWS S3 console with the following details:

- Buckets:** cross-account-demo-bucket
- Objects:** (2)
- f1.txt:** Type: txt, Last modified: November 30, 2025, Size: 10.0 B, Storage class: Standard
- index.html:** Type: html, Last modified: November 30, 2025, Size: 10.0 B, Storage class: Standard

7. Conclusion

S3 Cross-Account upload was successfully implemented. Account B can upload objects, and Account A retains full ownership using bucket policies, IAM permissions, and ACL settings.