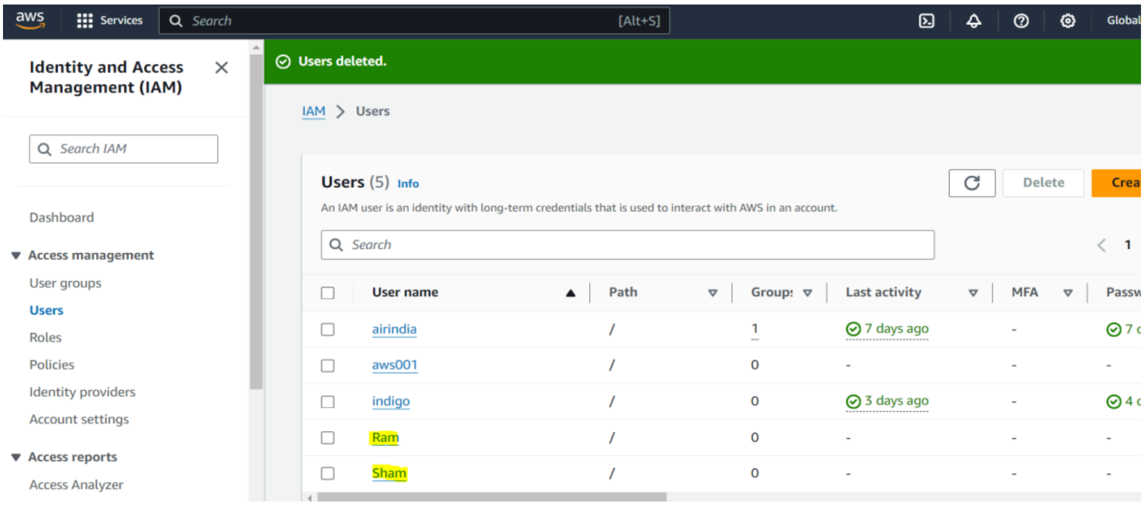
S3-Practical 22nd August 2024

1.We have created two users with S3ReadOnlyFullAccess policy



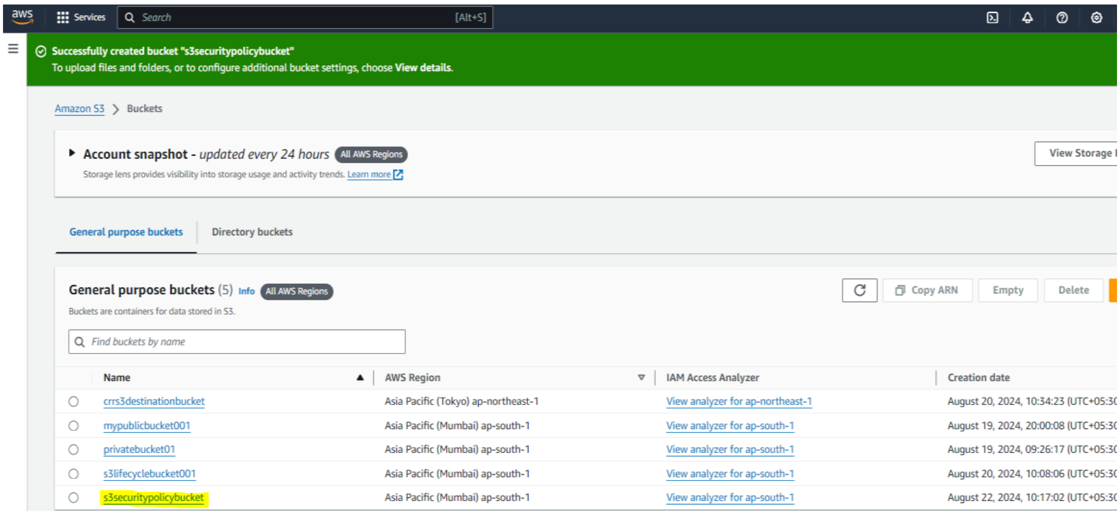
Users deleted.

Users (5) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

□	User name	Path	Groups	Last activity	MFA	Passw
□	airindia	/	1	7 days ago	-	7 d
□	aws001	/	0	-	-	-
□	indigo	/	0	3 days ago	-	4 d
□	Ram	/	0	-	-	-
□	Sham	/	0	-	-	-

2.Created one normal bucket



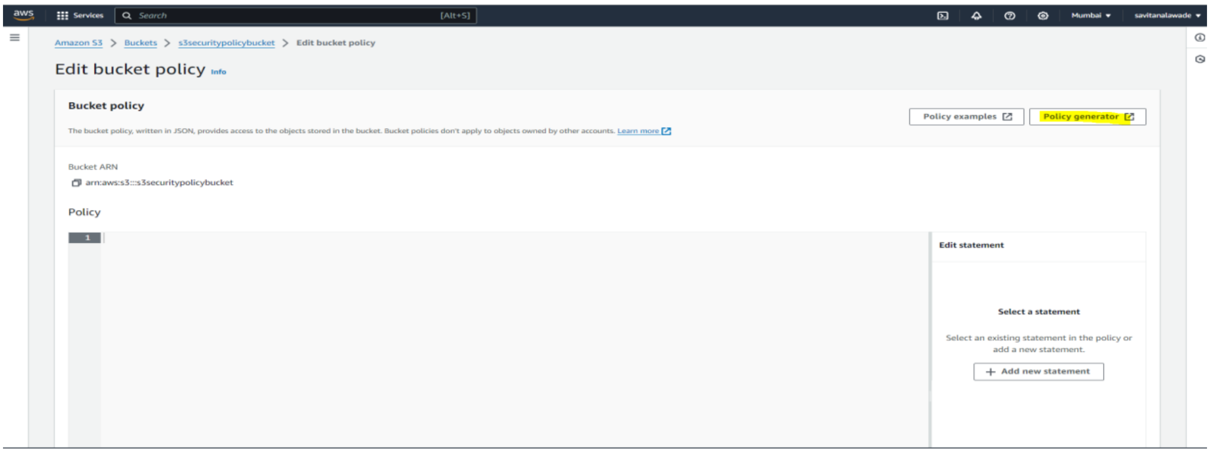
Successfully created bucket "s3securitypolicybucket"
To upload files and folders, or to configure additional bucket settings, choose **View details.**

Account snapshot - *updated every 24 hours* All AWS Regions
Storage lens provides visibility into storage usage and activity trends. Learn more

General purpose buckets (5) Info All AWS Regions
Buckets are containers for data stored in S3.

	Name	AWS Region	IAM Access Analyzer	Creation date
○	crrs3destinationbucket	Asia Pacific (Tokyo) ap-northeast-1	View analyzer for ap-northeast-1	August 20, 2024, 10:34:23 (UTC+05:3(
○	mypublicbucket001	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	August 19, 2024, 20:00:08 (UTC+05:3(
○	privatebucket01	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	August 19, 2024, 09:26:17 (UTC+05:3(
○	s3lifecyclebucket001	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	August 20, 2024, 10:08:06 (UTC+05:3(
○	s3securitypolicybucket	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	August 22, 2024, 10:17:02 (UTC+05:3(

3. Goto bucket policy and clicked on Edit button it will open below page then click on policy generator.



Edit bucket policy Info

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more

Bucket ARN
arn:aws:s3:::s3securitypolicybucket

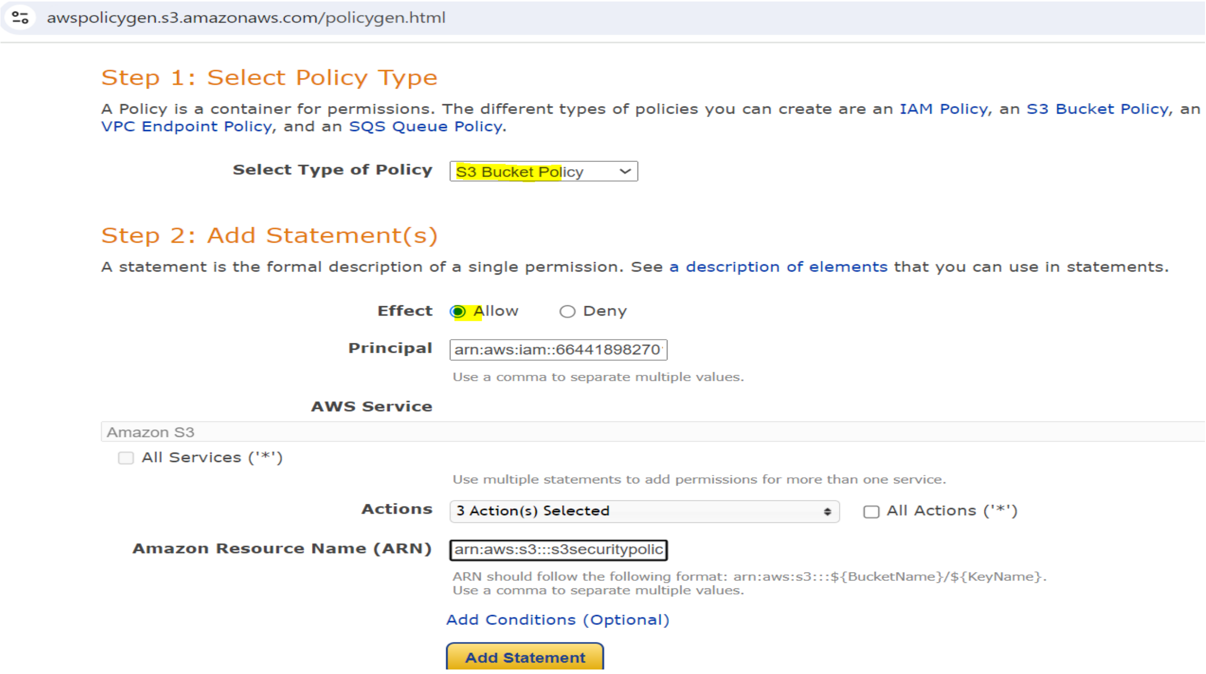
Policy

Edit statement

Select a statement

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

4. we have provide policy for Ram user.it will genrate.



awspolicygen.s3.amazonaws.com/policygen.html

Step 1: Select Policy Type

A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an VPC Endpoint Policy, and an SQS Queue Policy.

Select Type of Policy: S3 Bucket Policy

Step 2: Add Statement(s)

A statement is the formal description of a single permission. See a description of elements that you can use in statements.

Effect: ● Allow ○ Deny

Principal: arn:aws:iam::66441898270

Use a comma to separate multiple values.

AWS Service: Amazon S3

□ All Services ('*')

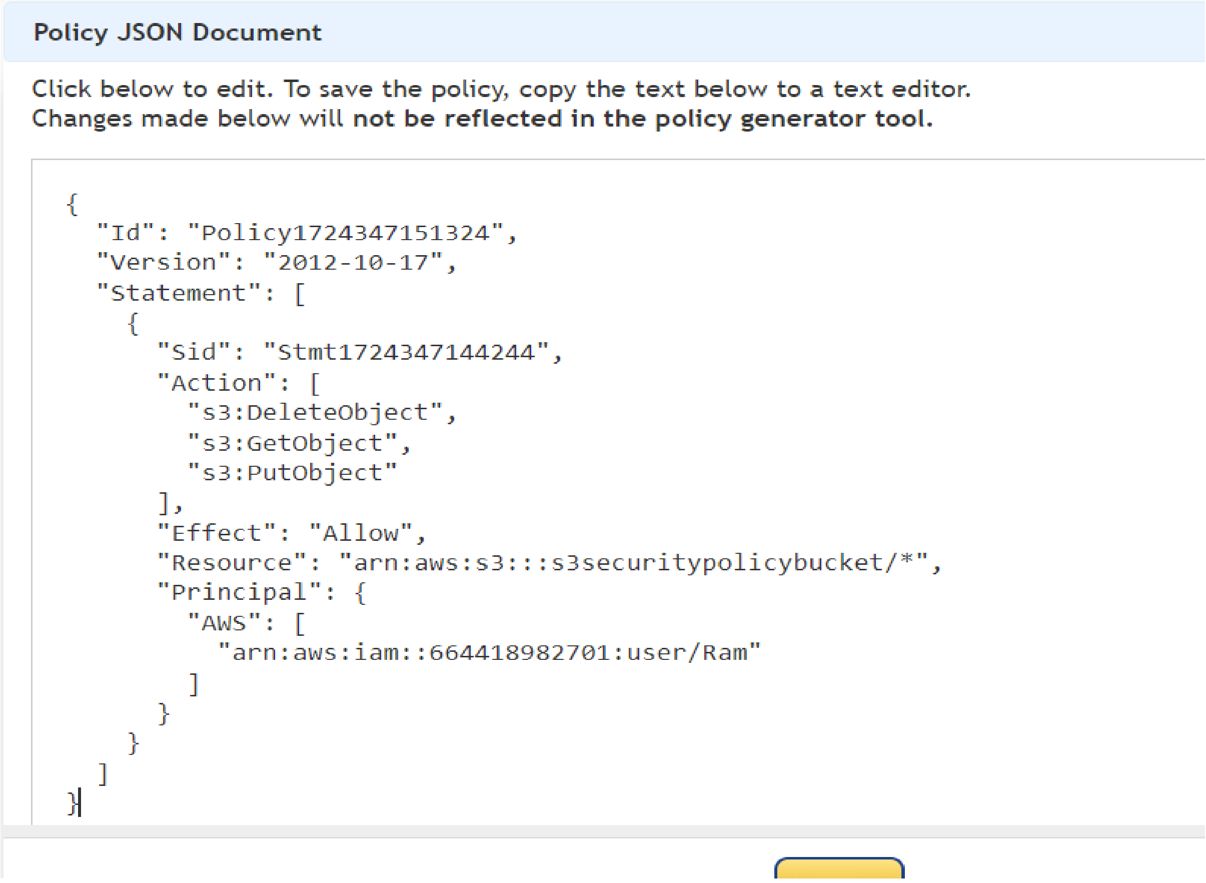
Use multiple statements to add permissions for more than one service.

Actions: 3 Action(s) Selected □ All Actions ('*')

Amazon Resource Name (ARN): arn:aws:s3:::s3securitypolic

ARN should follow the following format: arn:aws:s3:::${BucketName}/${KeyName}.
Use a comma to separate multiple values.

5. Policy have been generated

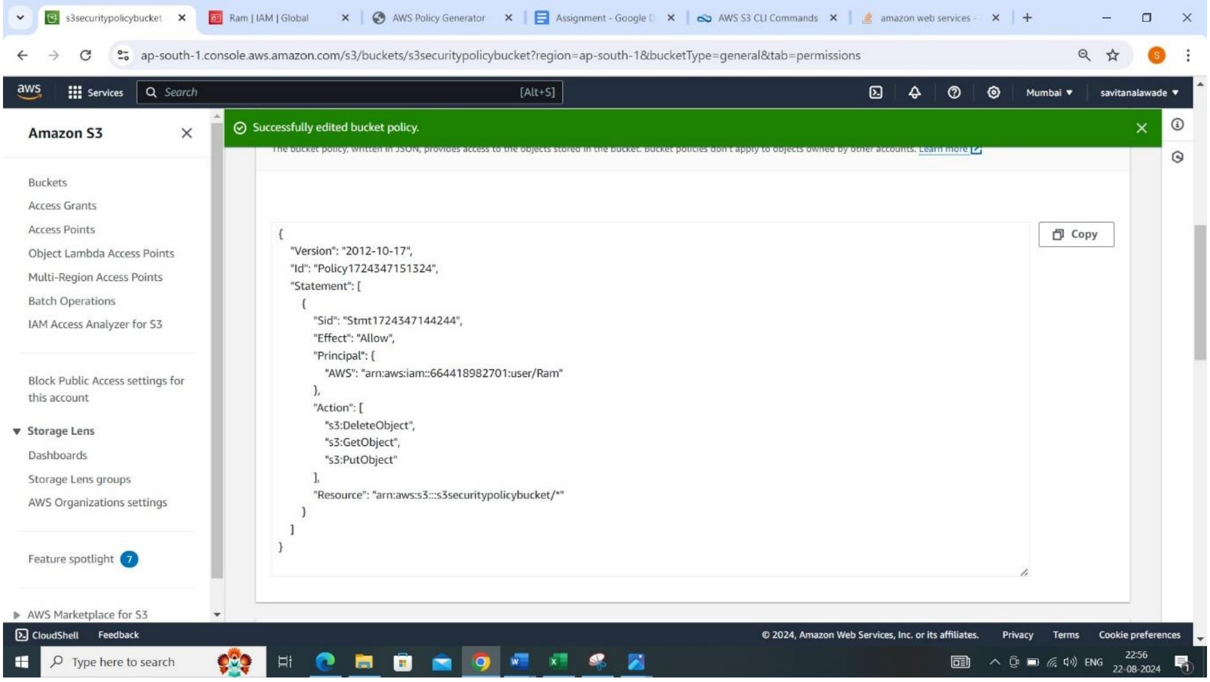


Policy JSON Document

Click below to edit. To save the policy, copy the text below to a text editor. Changes made below will **not be reflected in the policy generator tool.**

```
{
  "Id": "Policy1724347151324",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stmt1724347144244",
      "Action": [
        "s3:DeleteObject",
        "s3:GetObject",
        "s3:PutObject"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::s3securitypolicybucket/*",
      "Principal": {
        "AWS": [
          "arn:aws:iam::664418982701:user/Ram"
        ]
      }
    }
  ]
}
```

6. Paste that code in bucket and click on save changes



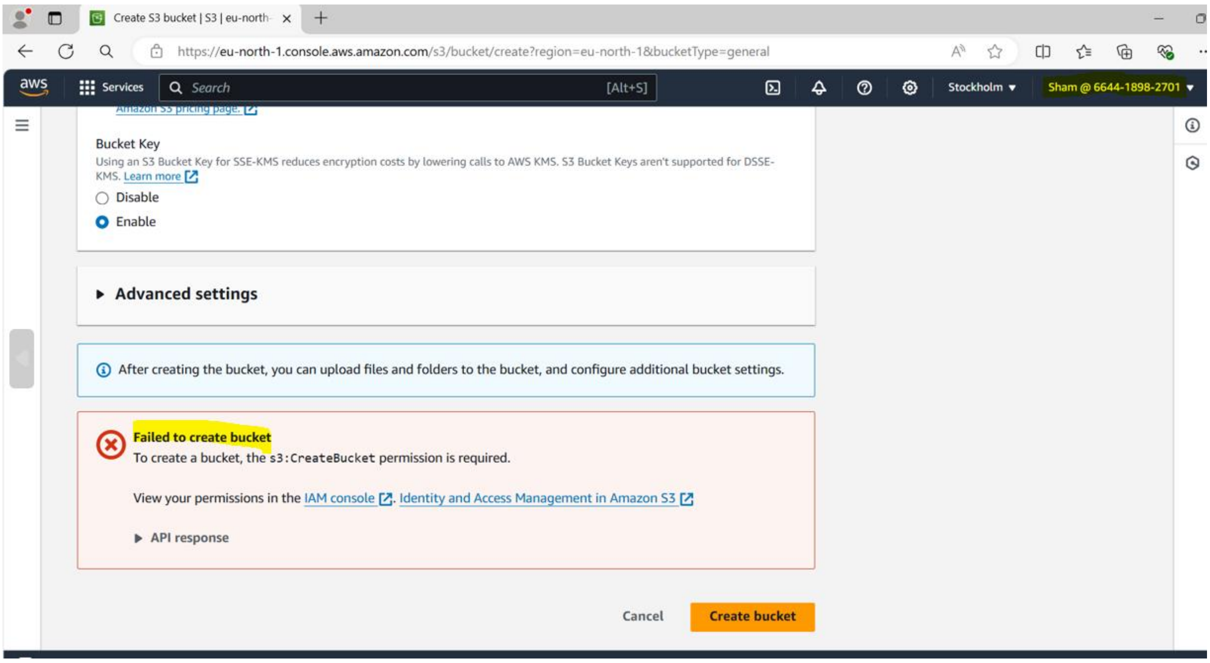
Successfully edited bucket policy.

```
{
  "Version": "2012-10-17",
  "Id": "Policy1724347151324",
  "Statement": [
    {
      "Sid": "Stmt1724347144244",
      "Effect": "Allow",
      "Principal": {
        "AWS": "arn:aws:iam::664418982701:user/Ram"
      },
      "Action": [
        "s3:DeleteObject",
        "s3:GetObject",
        "s3:PutObject"
      ],
      "Resource": "arn:aws:s3:::s3securitypolicybucket/*"
    }
  ]
}
```

ap-south-1.console.aws.amazon.com/s3/buckets/s3securitypolicybucket?region=ap-south-1&bucketType=general&tab=permissions
Amazon S3
Buckets
Access Grants
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
Feature spotlight 7
AWS Marketplace for S3
Copy
Mumbai
savitanalawade

7.Now,

a. Im trying to get console of Sham user and creating bucket it should not create.



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.

Failed to create bucket

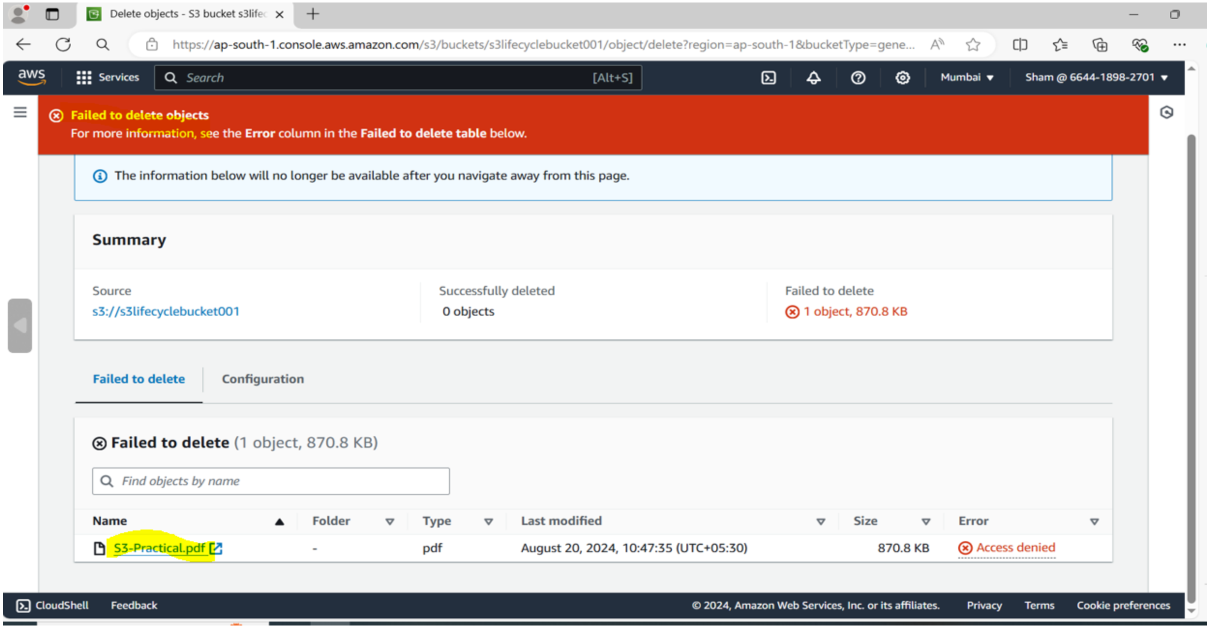
To create a bucket, the `s3:CreateBucket` permission is required.

View your permissions in the IAM console. Identity and Access Management in Amazon S3

API response

https://eu-north-1.console.aws.amazon.com/s3/bucket/create?region=eu-north-1&bucketType=general
Stockholm
Sham @ 6644-1898-2701
Cancel
Create bucket

b. if im deleting any of the object from bucket it will not delete



Failed to delete objects

For more information, see the Error column in the Failed to delete table below.

The information below will no longer be available after you navigate away from this page.

Summary

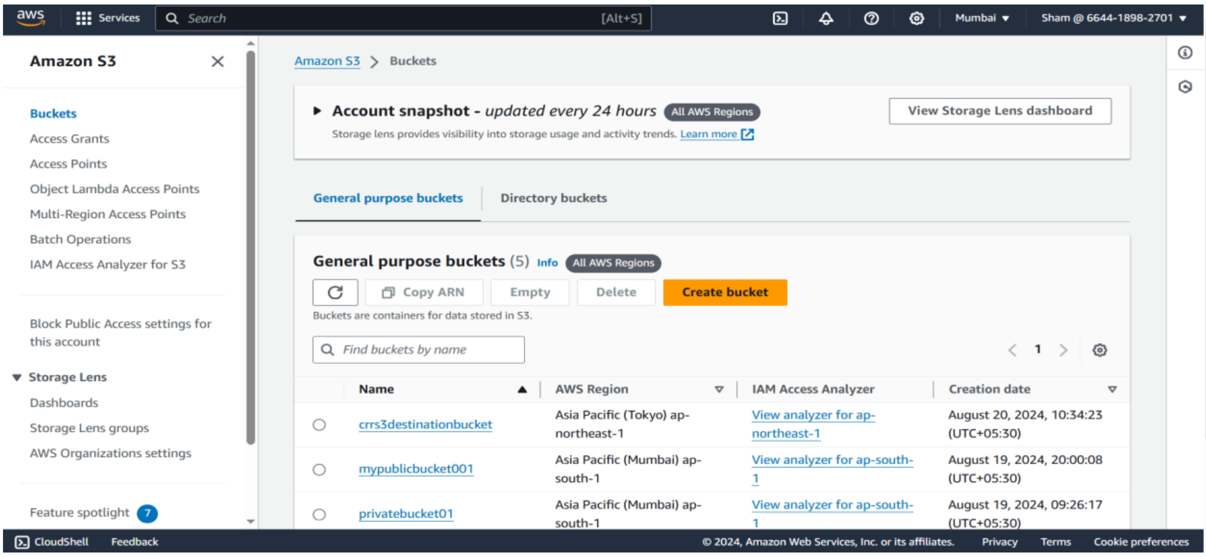
Source	Successfully deleted	Failed to delete
s3://s3lifecyclebucket001	0 objects	⊗ 1 object, 870.8 KB

Failed to delete | Configuration

Failed to delete (1 object, 870.8 KB)

Name	Folder	Type	Last modified	Size	Error
S3-Practical.pdf	-	pdf	August 20, 2024, 10:47:35 (UTC+05:30)	870.8 KB	⊗ Access denied

c. It means I can only view the object and bucket we cant modify or cant do any changes as we have attached s3ReadOnlyFullAccess document. To perform these type changes we need to add bucket policy.



Amazon S3 > Buckets

Account snapshot - *updated every 24 hours* All AWS Regions

Storage lens provides visibility into storage usage and activity trends. Learn more

General purpose buckets | Directory buckets

General purpose buckets (5) Info All AWS Regions

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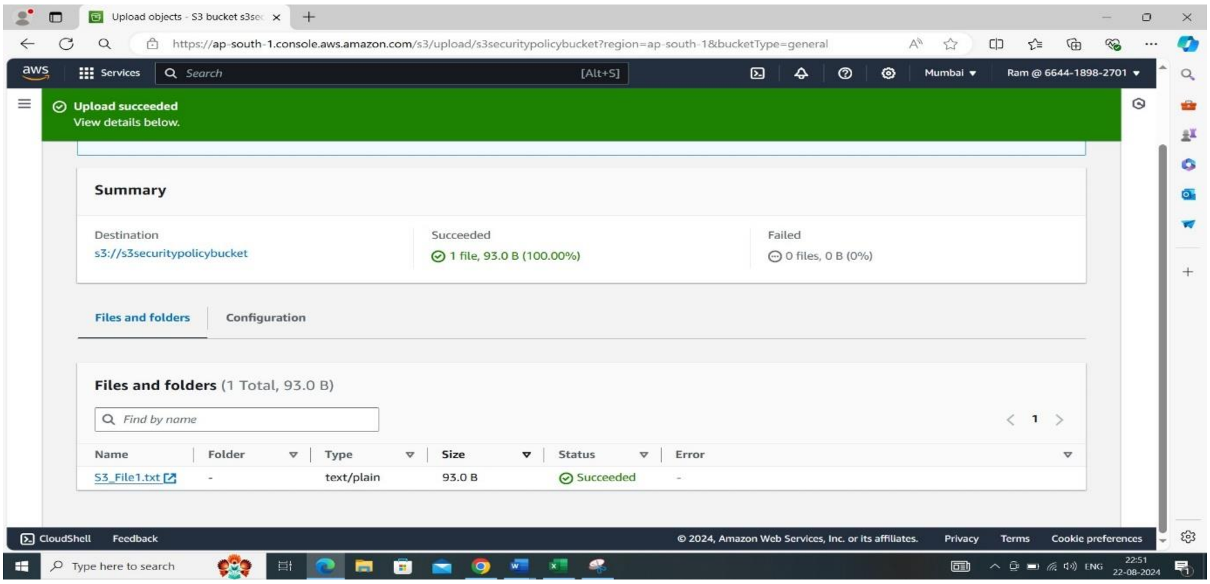
mypublicbucket001	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	August 19, 2024, 20:00:08 (UTC+05:30)
privatebucket01	Asia Pacific (Mumbai) ap-south-1	View analyzer for ap-south-1	August 19, 2024, 09:26:17 (UTC+05:30)

8. Now I have logged in to Ram user for which I have gave policy.

a. I can upload the object in bucket


Upload objects - S3 bucket s3sec
https://ap-south-1.console.aws.amazon.com/s3/upload/s3securitypolicybucket?region=ap-south-1&bucketType=general
aws
Services
Search
[Alt+S]
Mumbai
Ram @ 6644-1898-2701
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
ENG
22:51
22-08-2024

Upload succeeded
View details below.

Summary

Destination	Succeeded	Failed
s3://s3securitypolicybucket	1 file, 93.0 B (100.00%)	0 files, 0 B (0%)

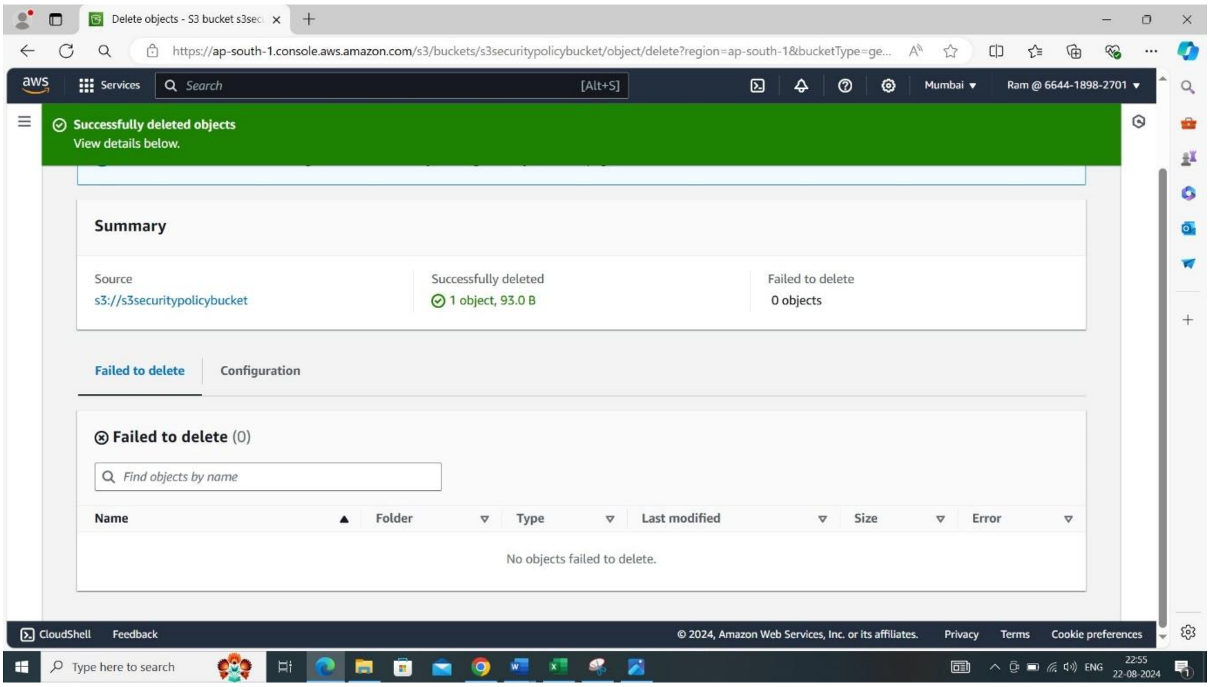
Files and folders | Configuration

Files and folders (1 Total, 93.0 B)

Find by name

Name	Folder	Type	Size	Status	Error
S3_File1.txt	-	text/plain	93.0 B	Succeeded	-

b. I can delete object


Delete objects - S3 bucket s3sec
https://ap-south-1.console.aws.amazon.com/s3/buckets/s3securitypolicybucket/object/delete?region=ap-south-1&bucketType=ge...
aws
Services
Search
[Alt+S]
Mumbai
Ram @ 6644-1898-2701
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
ENG
22:55
22-08-2024

Successfully deleted objects
View details below.

Summary

Source	Successfully deleted	Failed to delete
s3://s3securitypolicybucket	1 object, 93.0 B	0 objects

Failed to delete | Configuration

Failed to delete (0)

Find objects by name

Name	Folder	Type	Last modified	Size	Error

No objects failed to delete.