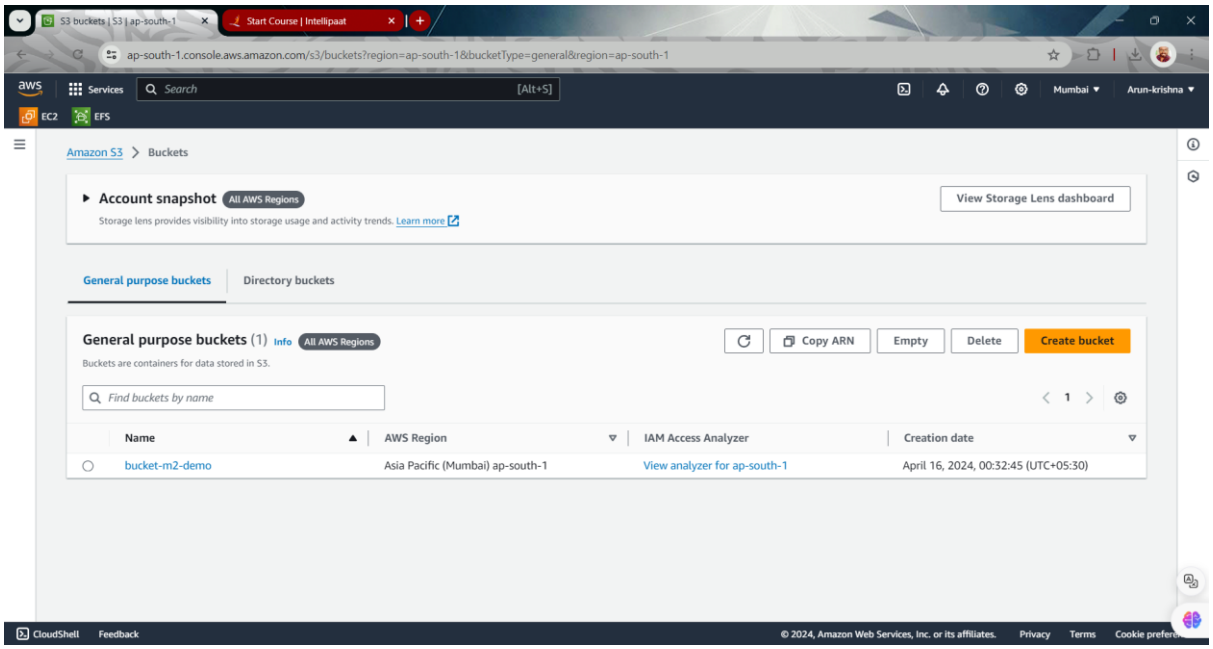
Problem Statement:

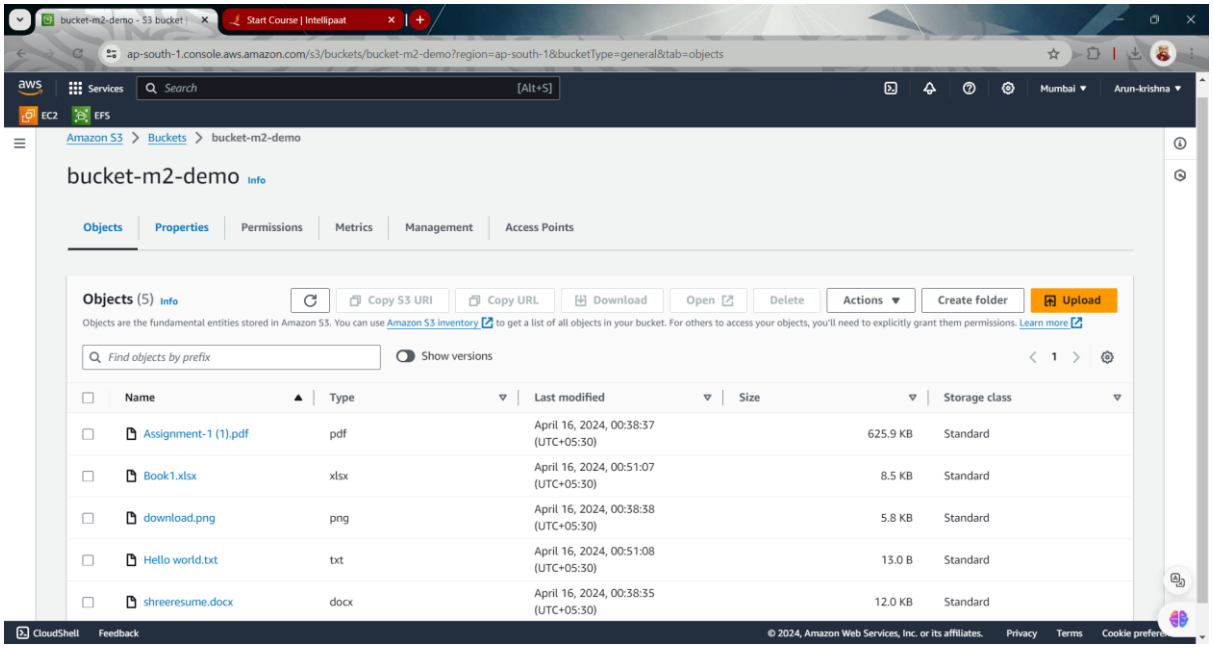
You work for XYZ Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement S3 for the same.

Tasks To Be Performed:

1. Use the created bucket in the previous task to host static websites, upload an index.html file and error.html page.

2. Add a lifecycle rule for the bucket: a. Transition from Standard to Standard-IA in 60 days b. Expiration in 200 days




bucket-m2-demo - S3 bucket
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ap-south-1.console.aws.amazon.com/s3/buckets/bucket-m2-demo?region=ap-south-1&bucketType=general&tab=objects
Services
Search
[Alt+S]
Mumbai
Arun-krishna
EC2
EFS
Amazon S3 > Buckets > bucket-m2-demo
bucket-m2-demo Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (5) 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
Name
Type
Last modified
Size
Storage class
Assignment-1 (1).pdf
pdf
April 16, 2024, 00:38:37 (UTC+05:30)
625.9 KB
Standard
Book1.xlsx
xlsx
April 16, 2024, 00:51:07 (UTC+05:30)
8.5 KB
Standard
download.png
png
April 16, 2024, 00:38:38 (UTC+05:30)
5.8 KB
Standard
Hello world.txt
txt
April 16, 2024, 00:51:08 (UTC+05:30)
13.0 B
Standard
shreeresume.docx
docx
April 16, 2024, 00:38:35 (UTC+05:30)
12.0 KB
Standard
CloudShell
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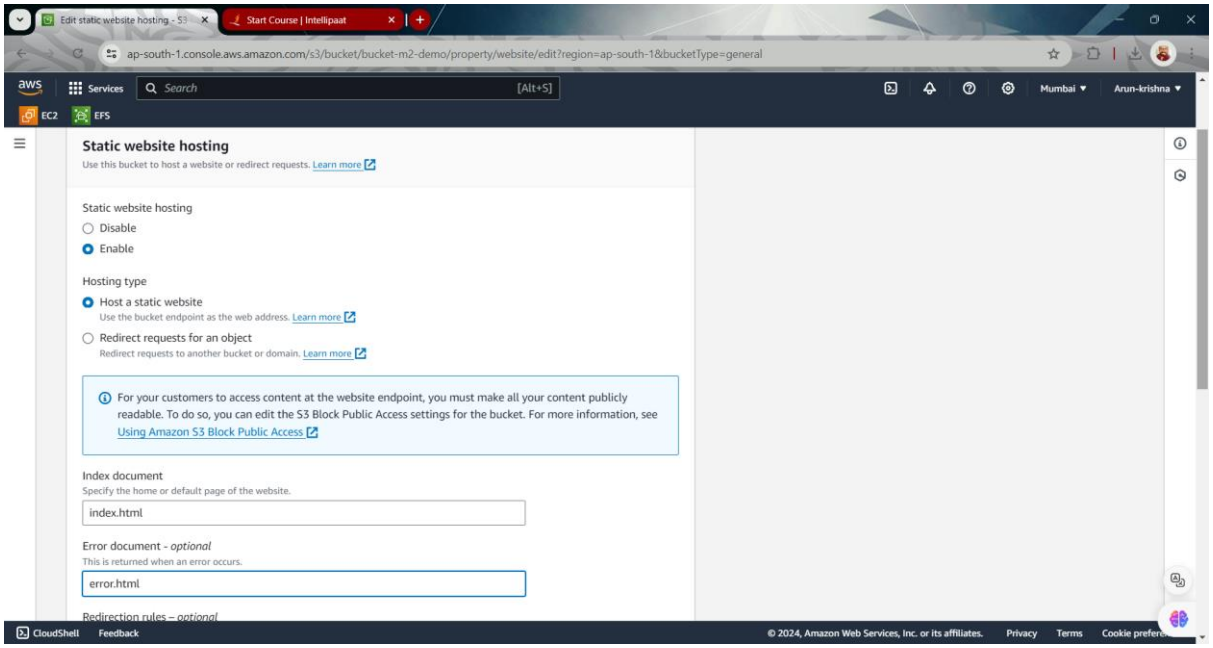
Edit static website hosting - S3
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ap-south-1.console.aws.amazon.com/s3/bucket/bucket-m2-demo/property/website/edit?region=ap-south-1&bucketType=general
Services
Search
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Mumbai
Arun-krishna
EC2
EFS
Static website hosting
Use this bucket to host a website or redirect requests. Learn more
Static website hosting
Disable
Enable
Hosting type
Host a static website
Use the bucket endpoint as the web address. Learn more
Redirect requests for an object
Redirect requests to another bucket or domain. Learn more
For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see Using Amazon S3 Block Public Access
Index document
Specify the home or default page of the website.
index.html
Error document - optional
This is returned when an error occurs.
error.html
Redirection rules – optional
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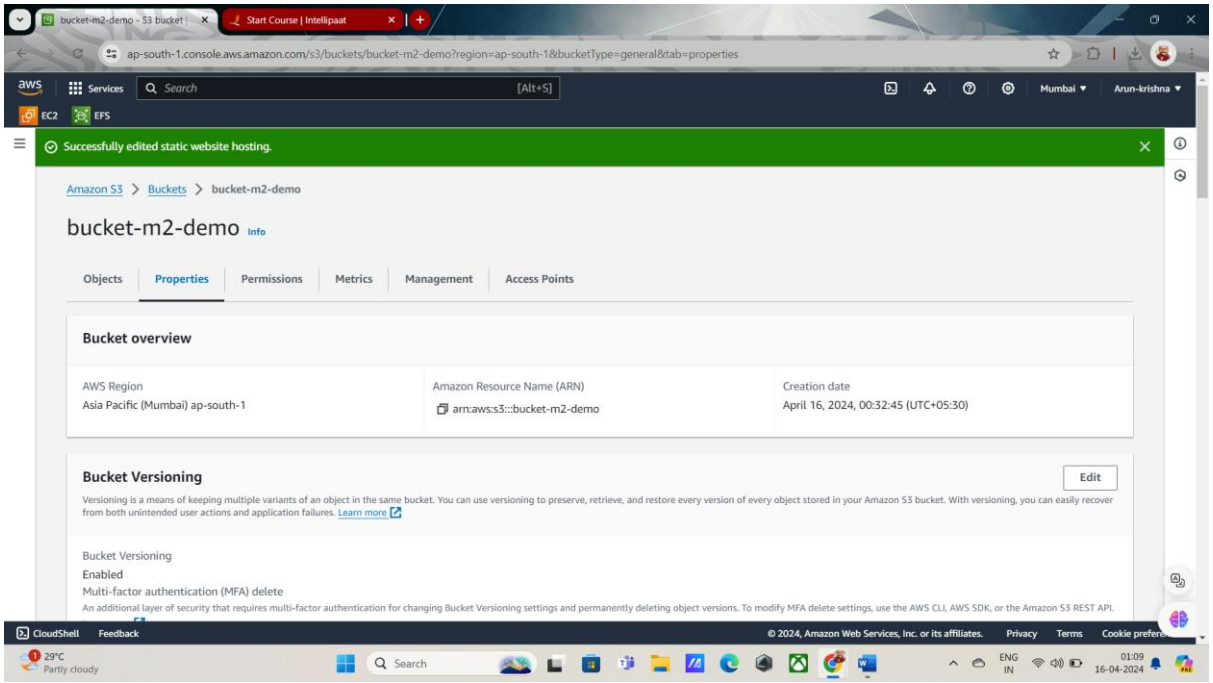
bucket-m2-demo - S3 bucket
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ap-south-1.console.aws.amazon.com/s3/buckets/bucket-m2-demo?region=ap-south-1&bucketType=general&tab=properties
Services
Search
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Mumbai
Arun-krishna
EC2
EFS
Successfully edited static website hosting.
Amazon S3 > Buckets > bucket-m2-demo
bucket-m2-demo Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Bucket overview
AWS Region
Asia Pacific (Mumbai) ap-south-1
Amazon Resource Name (ARN)
arn:aws:s3:::bucket-m2-demo
Creation date
April 16, 2024, 00:32:45 (UTC+05:30)
Bucket Versioning
Edit
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more
Bucket Versioning
Enabled
Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API.
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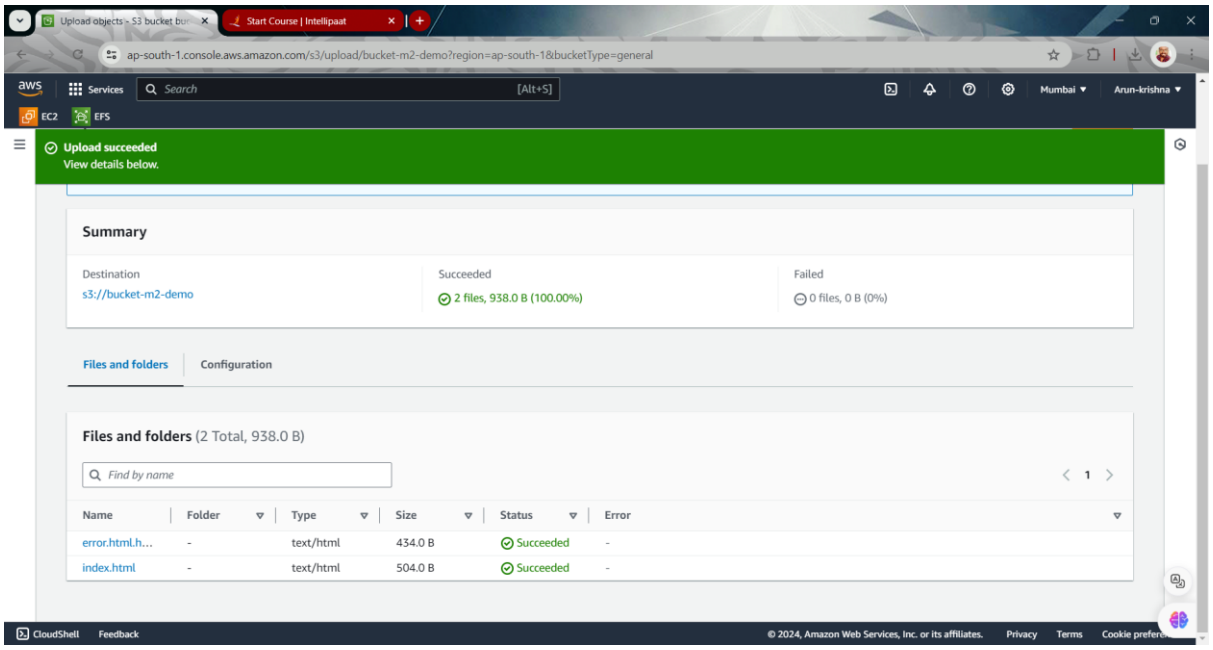
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ap-south-1.console.aws.amazon.com/s3/upload/bucket-m2-demo?region=ap-south-1&bucketType=general
Services
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EC2
EFS
Upload succeeded
View details below.
Summary
Destination
s3://bucket-m2-demo
Succeeded
2 files, 938.0 B (100.00%)
Failed
0 files, 0 B (0%)
Files and folders
Configuration
Files and folders (2 Total, 938.0 B)
Find by name
1
Name
Folder
Type
Size
Status
Error
error.html.h...
-
text/html
434.0 B
Succeeded
-
index.html
-
text/html
504.0 B
Succeeded
-
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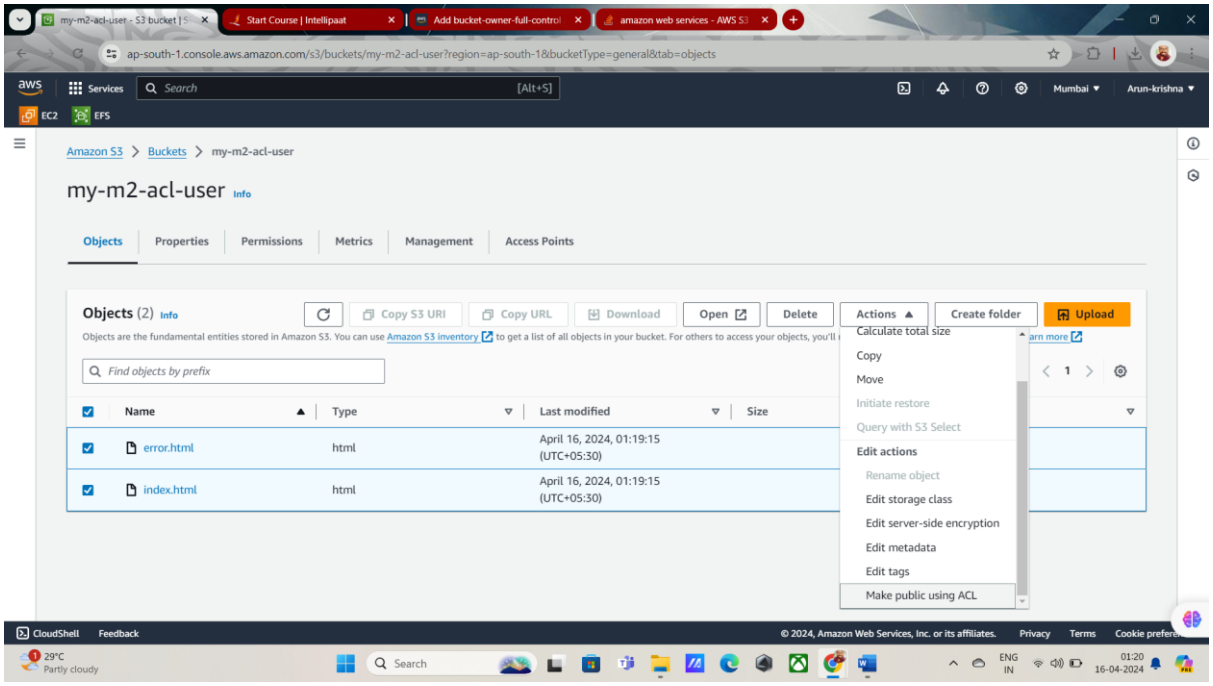
ap-south-1.console.aws.amazon.com/s3/buckets/my-m2-acl-user?region=ap-south-1&bucketType=general&tab=objects
Amazon S3 > Buckets > my-m2-acl-user
my-m2-acl-user Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (2) Info
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
error.html
html
April 16, 2024, 01:19:15 (UTC+05:30)
index.html
html
April 16, 2024, 01:19:15 (UTC+05:30)
Calculate total size
Copy
Move
Initiate restore
Query with S3 Select
Edit actions
Rename object
Edit storage class
Edit server-side encryption
Edit metadata
Edit tags
Make public using ACL
CloudShell
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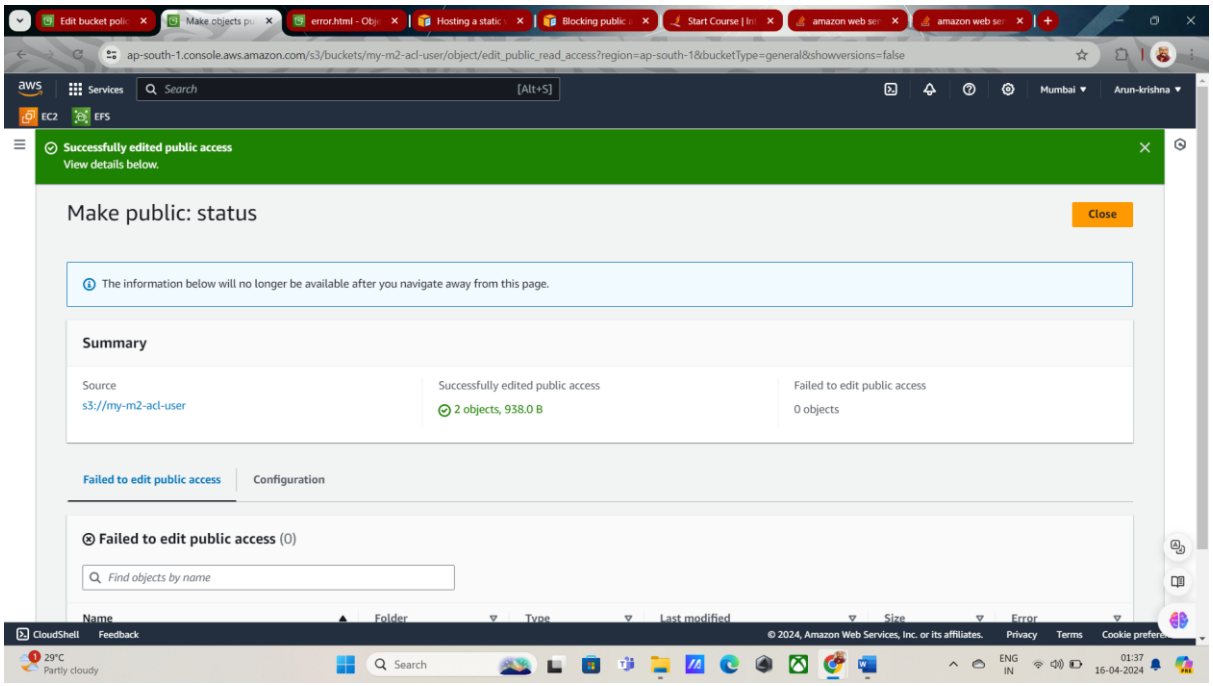
ap-south-1.console.aws.amazon.com/s3/buckets/my-m2-acl-user/object/edit_public_read_access?region=ap-south-1&bucketType=general&showversions=false
Successfully edited public access
View details below.
Make public: status
Close
The information below will no longer be available after you navigate away from this page.
Summary
Source
s3://my-m2-acl-user
Successfully edited public access
2 objects, 938.0 B
Failed to edit public access
0 objects
Failed to edit public access
Configuration
Failed to edit public access (0)
Find objects by name
Name
Folder
Type
Last modified
Size
Error
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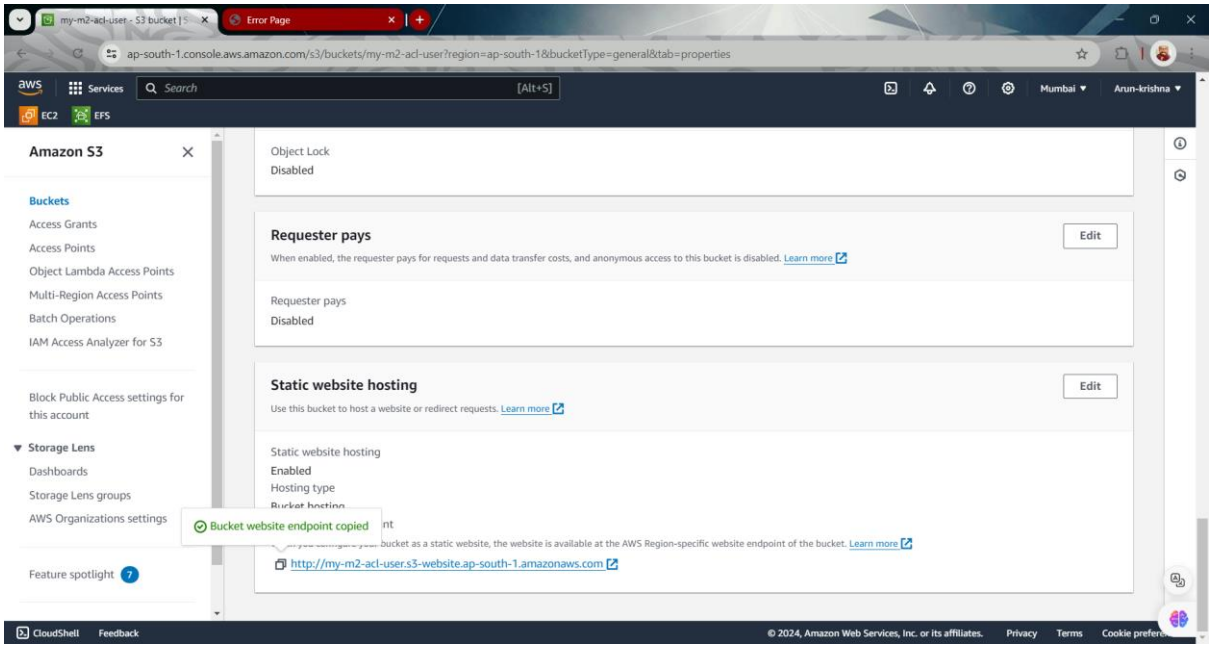
my-m2-acl-user - S3 bucket | S
Error Page
ap-south-1.console.aws.amazon.com/s3/buckets/my-m2-acl-user?region=ap-south-1&bucketType=general&tab=properties
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Services
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EC2
EFS
Amazon S3
Buckets
Access 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
Object Lock
Disabled
Requester pays
Edit
When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. Learn more
Requester pays
Disabled
Static website hosting
Edit
Use this bucket to host a website or redirect requests. Learn more
Static website hosting
Enabled
Hosting type
Bucket website endpoint copied
Learn more
http://my-m2-acl-user.s3-website.ap-south-1.amazonaws.com
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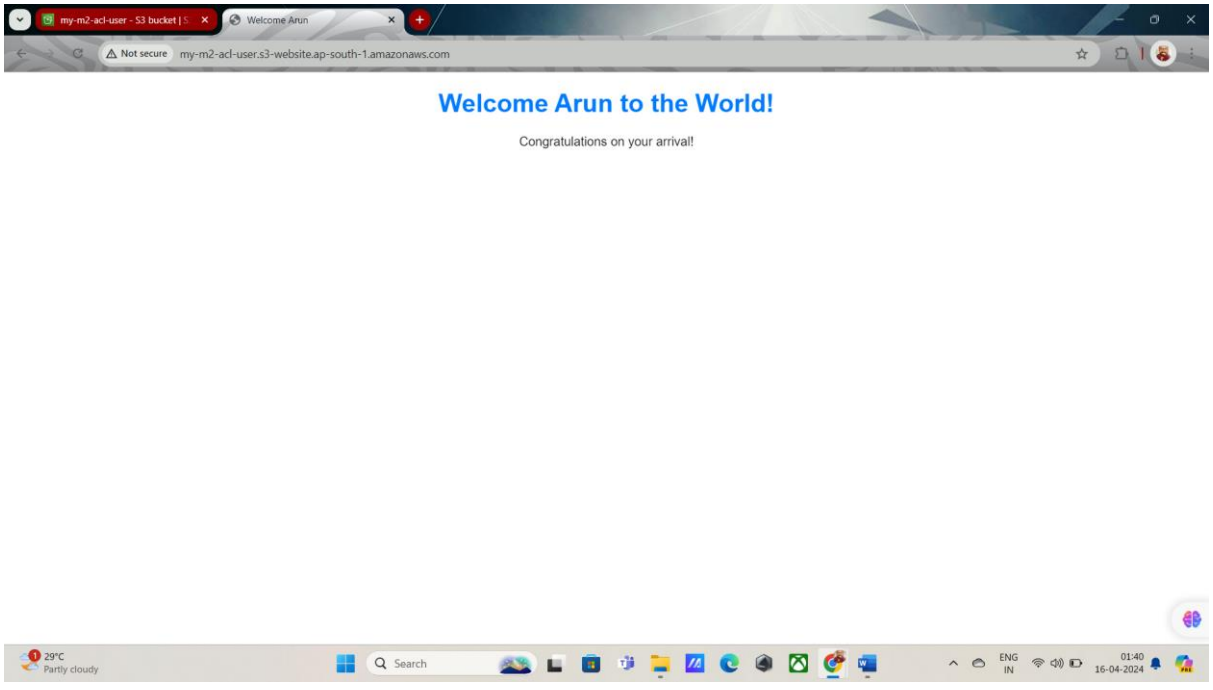
my-m2-acl-user - S3 bucket | S
Welcome Arun
Not secure
my-m2-acl-user.s3-website.ap-south-1.amazonaws.com
Welcome Arun to the World!
Congratulations on your arrival!
29°C
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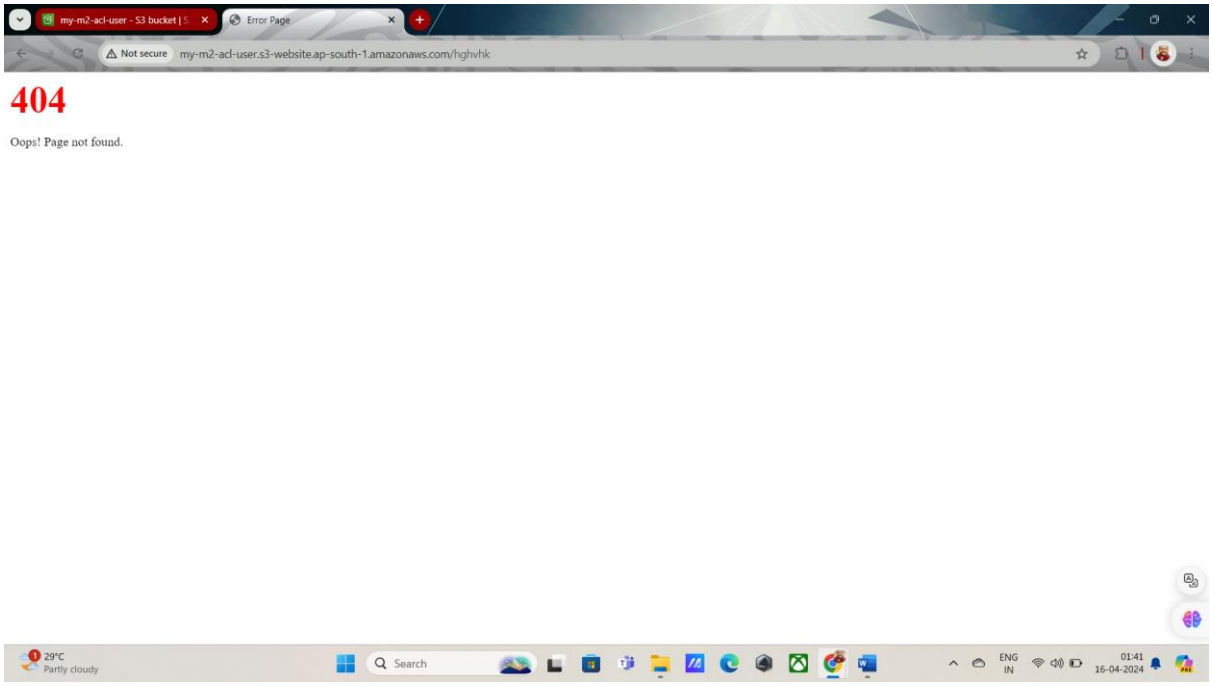
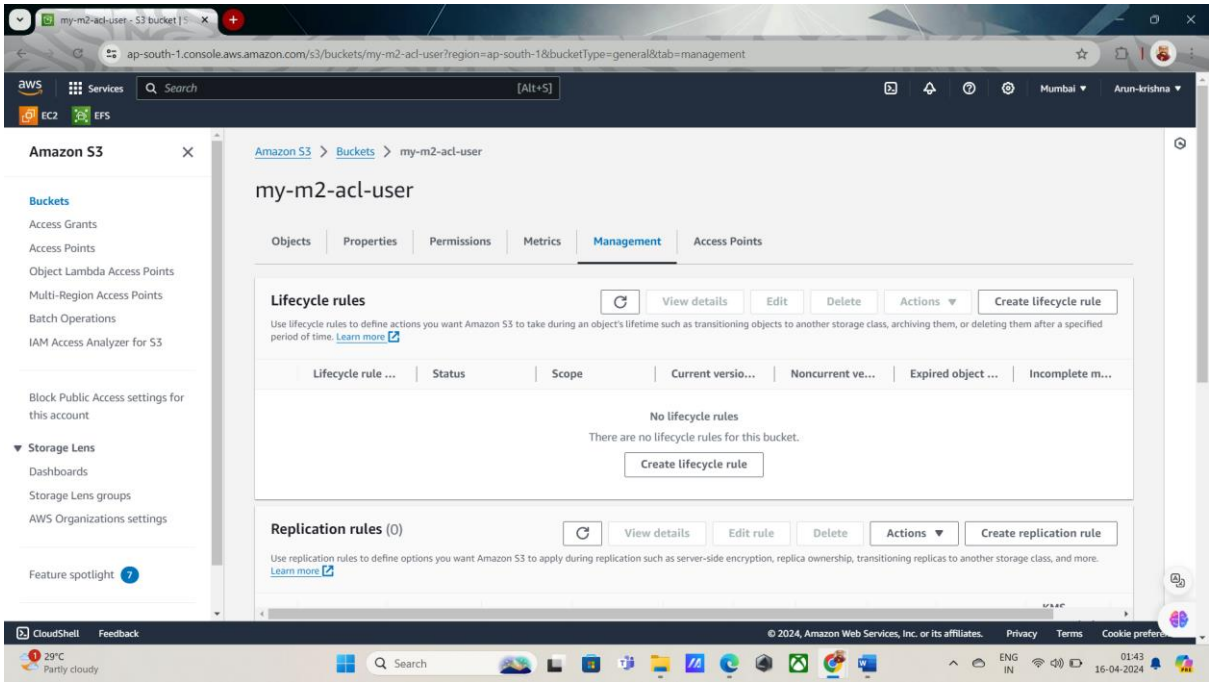


2. Add a lifecycle rule for the bucket:

a. Transition from Standard to Standard-IA in 60 days

b. Expiration in 200 days


my-m2-acl-user - S3 bucket
ap-south-1.console.aws.amazon.com/s3/buckets/my-m2-acl-user?region=ap-south-1&bucketType=general&tab=management
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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
Amazon S3 > Buckets > my-m2-acl-user
my-m2-acl-user
Objects
Properties
Permissions
Metrics
Management
Access Points
Lifecycle rules
View details
Edit
Delete
Actions
Create lifecycle rule
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
Lifecycle rule ...
Status
Scope
Current versio...
Noncurrent ve...
Expired object ...
Incomplete m...
No lifecycle rules
There are no lifecycle rules for this bucket.
Create lifecycle rule
Replication rules (0)
View details
Edit rule
Delete
Actions
Create replication rule
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
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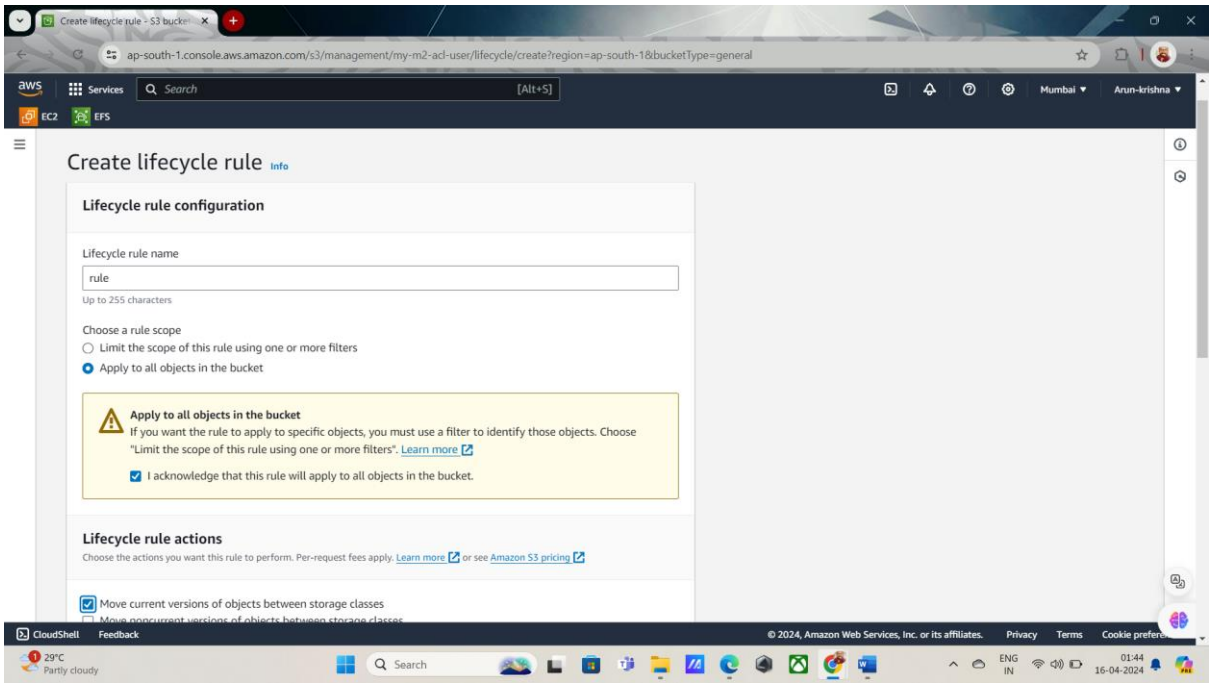
Create lifecycle rule - S3 bucket
ap-south-1.console.aws.amazon.com/s3/management/my-m2-acl-user/lifecycle/create?region=ap-south-1&bucketType=general
Services
Search
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Arun-krishna
EC2
EFS
Create lifecycle rule Info
Lifecycle rule configuration
Lifecycle rule name
rule
Up to 255 characters
Choose a rule scope
Limit the scope of this rule using one or more filters
Apply to all objects in the bucket
Apply to all objects in the bucket
If you want the rule to apply to specific objects, you must use a filter to identify those objects. Choose "Limit the scope of this rule using one or more filters". Learn more
I acknowledge that this rule will apply to all objects in the bucket.
Lifecycle rule actions
Choose the actions you want this rule to perform. Per-request fees apply. Learn more or see Amazon S3 pricing
Move current versions of objects between storage classes
CloudShell
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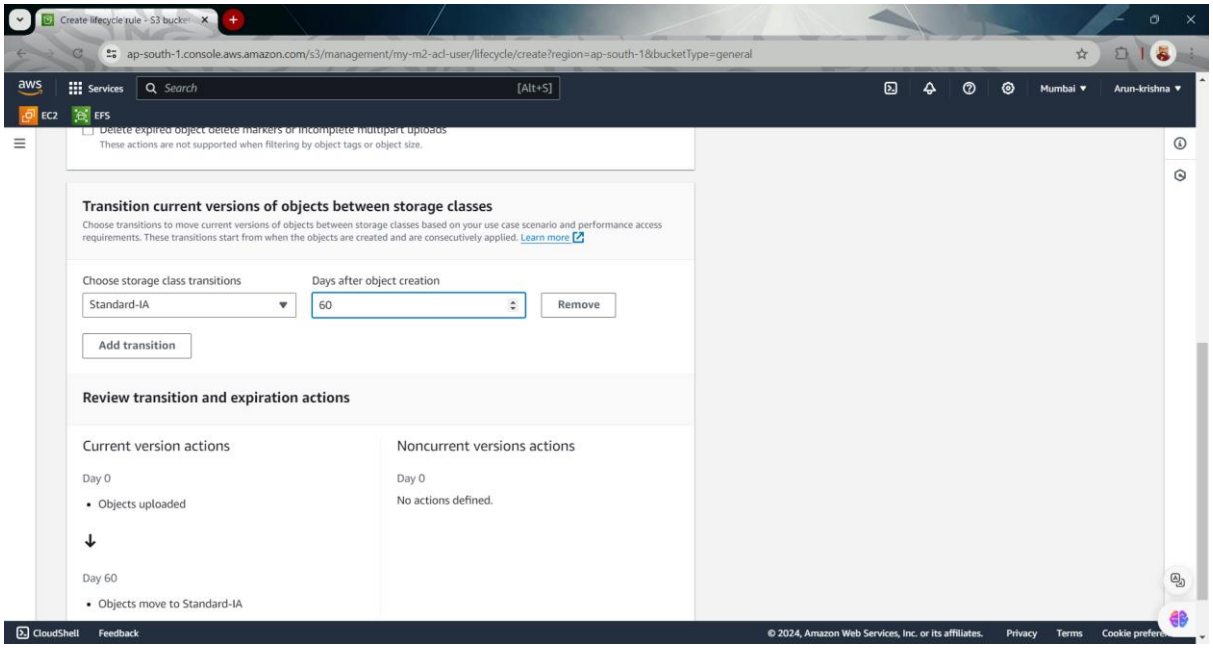
Create lifecycle rule - S3 bucket
ap-south-1.console.aws.amazon.com/s3/management/my-m2-acl-user/lifecycle/create?region=ap-south-1&bucketType=general
Services
Search
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EFS
These actions are not supported when filtering by object tags or object size.
Transition current versions of objects between storage classes
Choose transitions to move current versions of objects between storage classes based on your use case scenario and performance access requirements. These transitions start from when the objects are created and are consecutively applied. Learn more
Choose storage class transitions
Days after object creation
Standard-IA
60
Remove
Add transition
Review transition and expiration actions
Current version actions
Day 0
Objects uploaded
Day 60
Objects move to Standard-IA
Noncurrent versions actions
Day 0
No actions defined.
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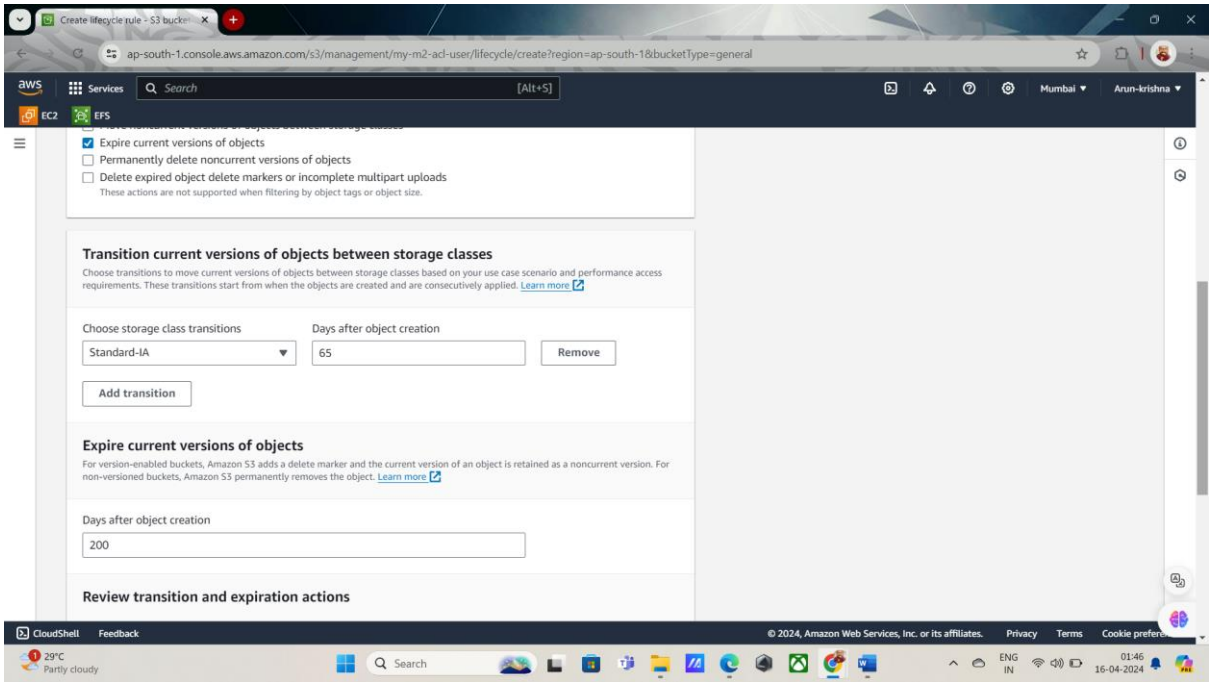
Create lifecycle rule - S3 bucket
ap-south-1.console.aws.amazon.com/s3/management/my-m2-acl-user/lifecycle/create?region=ap-south-1&bucketType=general
Services
Search
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EFS
Expire current versions of objects
Permanently delete noncurrent versions of objects
Delete expired object delete markers or incomplete multipart uploads
These actions are not supported when filtering by object tags or object size.
Transition current versions of objects between storage classes
Choose transitions to move current versions of objects between storage classes based on your use case scenario and performance access requirements. These transitions start from when the objects are created and are consecutively applied. Learn more
Choose storage class transitions
Days after object creation
Standard-IA
65
Remove
Add transition
Expire current versions of objects
For version-enabled buckets, Amazon S3 adds a delete marker and the current version of an object is retained as a noncurrent version. For non-versioned buckets, Amazon S3 permanently removes the object. Learn more
Days after object creation
200
Review transition and expiration actions
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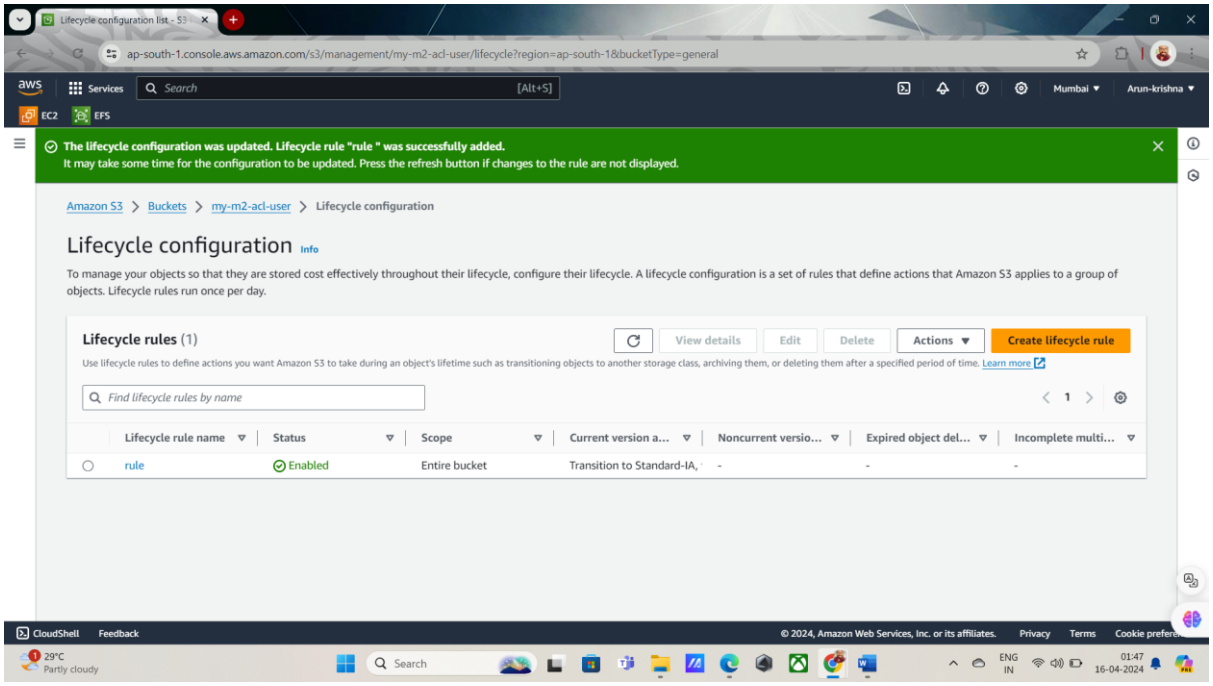
Lifecycle configuration list - S3
ap-south-1.console.aws.amazon.com/s3/management/my-m2-acl-user/lifecycle?region=ap-south-1&bucketType=general
Services
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EFS
The lifecycle configuration was updated. Lifecycle rule "rule " was successfully added.
It may take some time for the configuration to be updated. Press the refresh button if changes to the rule are not displayed.
Amazon S3 > Buckets > my-m2-acl-user > Lifecycle configuration
Lifecycle configuration Info
To manage your objects so that they are stored cost effectively throughout their lifecycle, configure their lifecycle. A lifecycle configuration is a set of rules that define actions that Amazon S3 applies to a group of objects. Lifecycle rules run once per day.
Lifecycle rules (1)
View details
Edit
Delete
Actions
Create lifecycle rule
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
Find lifecycle rules by name
1
Lifecycle rule name
Status
Scope
Current version a...
Noncurrent versio...
Expired object del...
Incomplete multi...
rule
Enabled
Entire bucket
Transition to Standard-IA,
-
-
-
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