Simple storage service

Assignment – 1 S3 Bucket Creation

Problem Statement

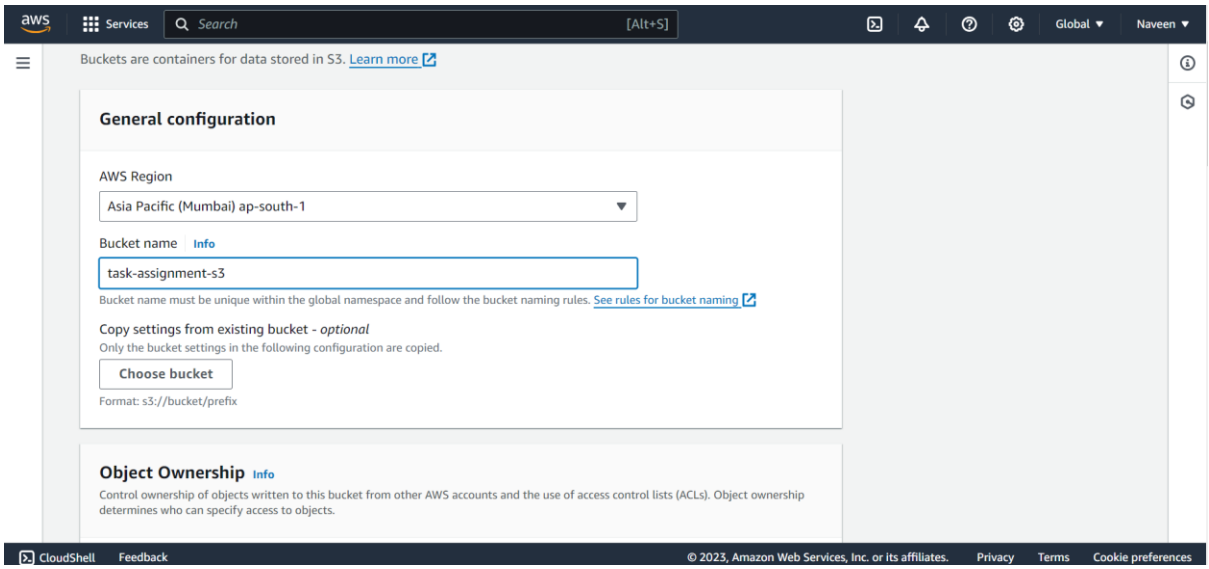
You work for XYZ Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement S3 for the same.

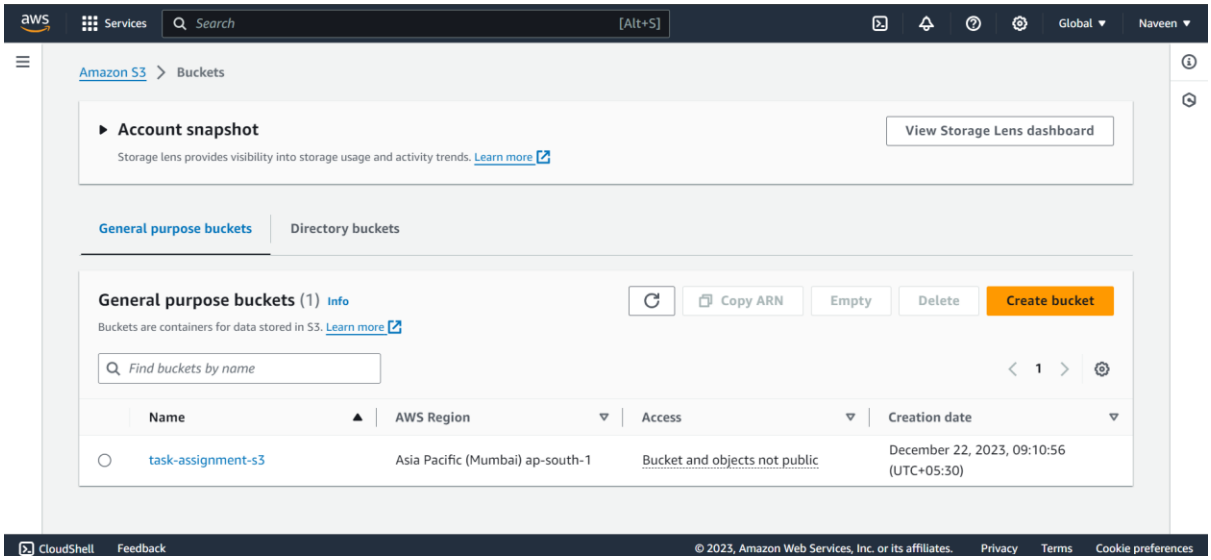
Task to be performed

1. Create an S3 bucket for file storage.
2. Upload 5 Objects with different file extensions.

Steps

- Create a S3 bucket by clicking create bucket
- Select the AWS region and provide a bucket name
- Once the bucket is created click the bucket and go inside the bucket
- And click upload and the selected 5 different file extensions
- And click upload the files will be uploaded in the bucket




aws
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Naveen
Amazon S3 > Buckets
Account snapshot
View Storage Lens dashboard
Storage lens provides visibility into storage usage and activity trends. Learn more
General purpose buckets
Directory buckets
General purpose buckets (1) Info
Copy ARN
Empty
Delete
Create bucket
Buckets are containers for data stored in S3. Learn more
Find buckets by name
Name
AWS Region
Access
Creation date
task-assignment-s3
Asia Pacific (Mumbai) ap-south-1
Bucket and objects not public
December 22, 2023, 09:10:56 (UTC+05:30)
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Feedback
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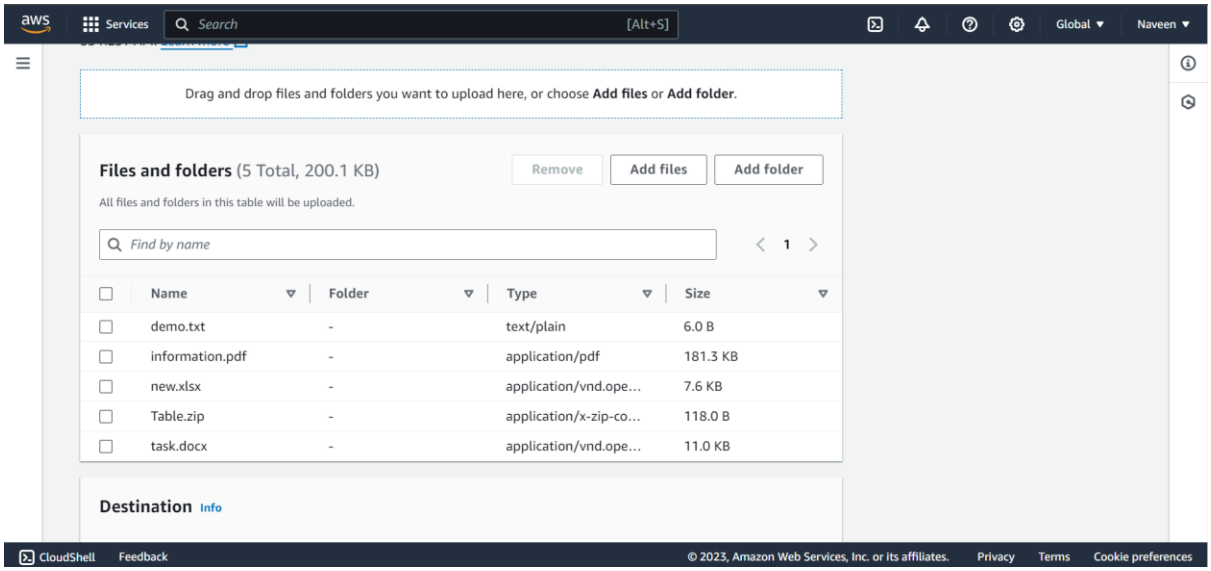
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Drag and drop files and folders you want to upload here, or choose Add files or Add folder.
Files and folders (5 Total, 200.1 KB)
Remove
Add files
Add folder
All files and folders in this table will be uploaded.
Find by name
Name
Folder
Type
Size
demo.txt - text/plain 6.0 B
information.pdf - application/pdf 181.3 KB
new.xlsx - application/vnd.ope... 7.6 KB
Table.zip - application/x-zip-co... 118.0 B
task.docx - application/vnd.ope... 11.0 KB
Destination Info
CloudShell
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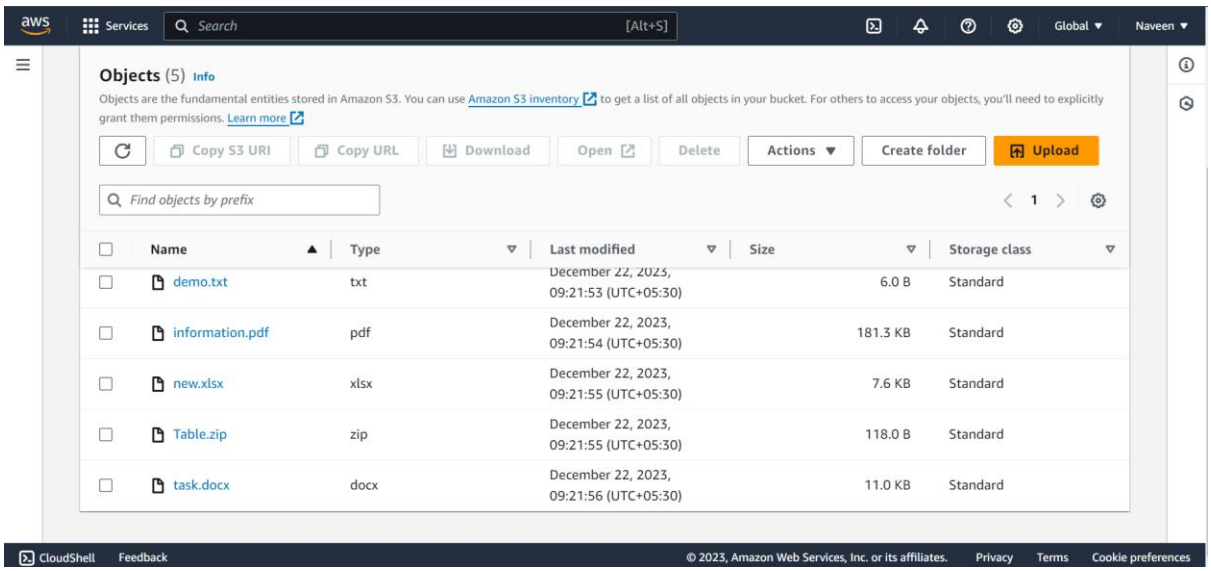
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Objects (5) Info
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
demo.txt txt December 22, 2023, 09:21:53 (UTC+05:30) 6.0 B Standard
information.pdf pdf December 22, 2023, 09:21:54 (UTC+05:30) 181.3 KB Standard
new.xlsx xlsx December 22, 2023, 09:21:55 (UTC+05:30) 7.6 KB Standard
Table.zip zip December 22, 2023, 09:21:55 (UTC+05:30) 118.0 B Standard
task.docx docx December 22, 2023, 09:21:56 (UTC+05:30) 11.0 KB Standard
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Assignment – 2 S3 Bucket Versioning

Problem statement:

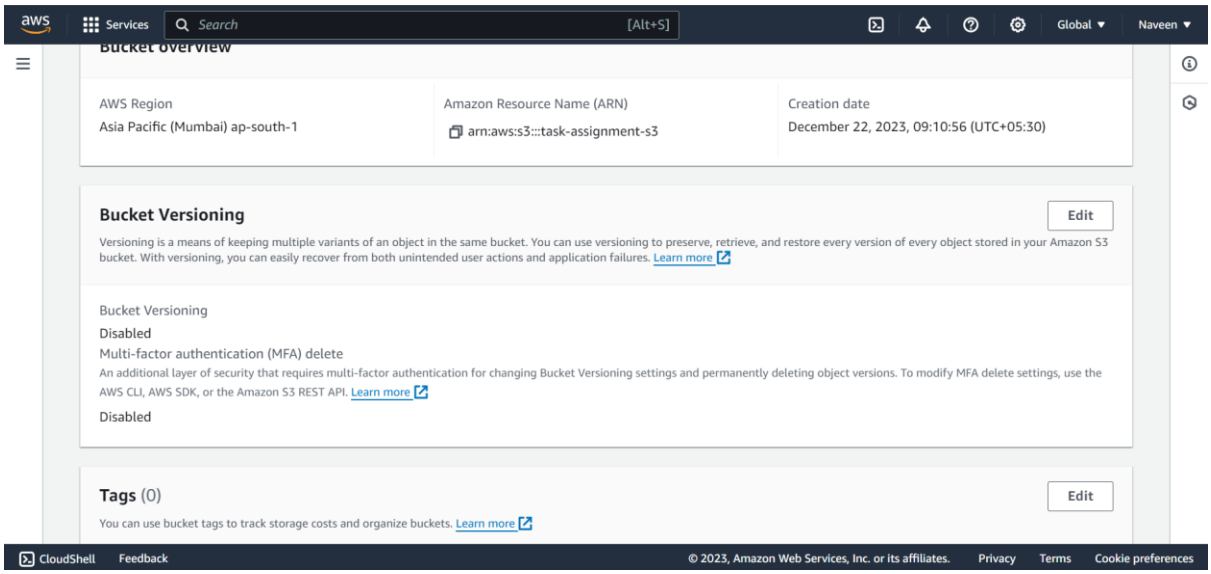
You work for XYZ Corporation. Their application required a storage service that can store files and publicly share them if required. Implement S3 for the same

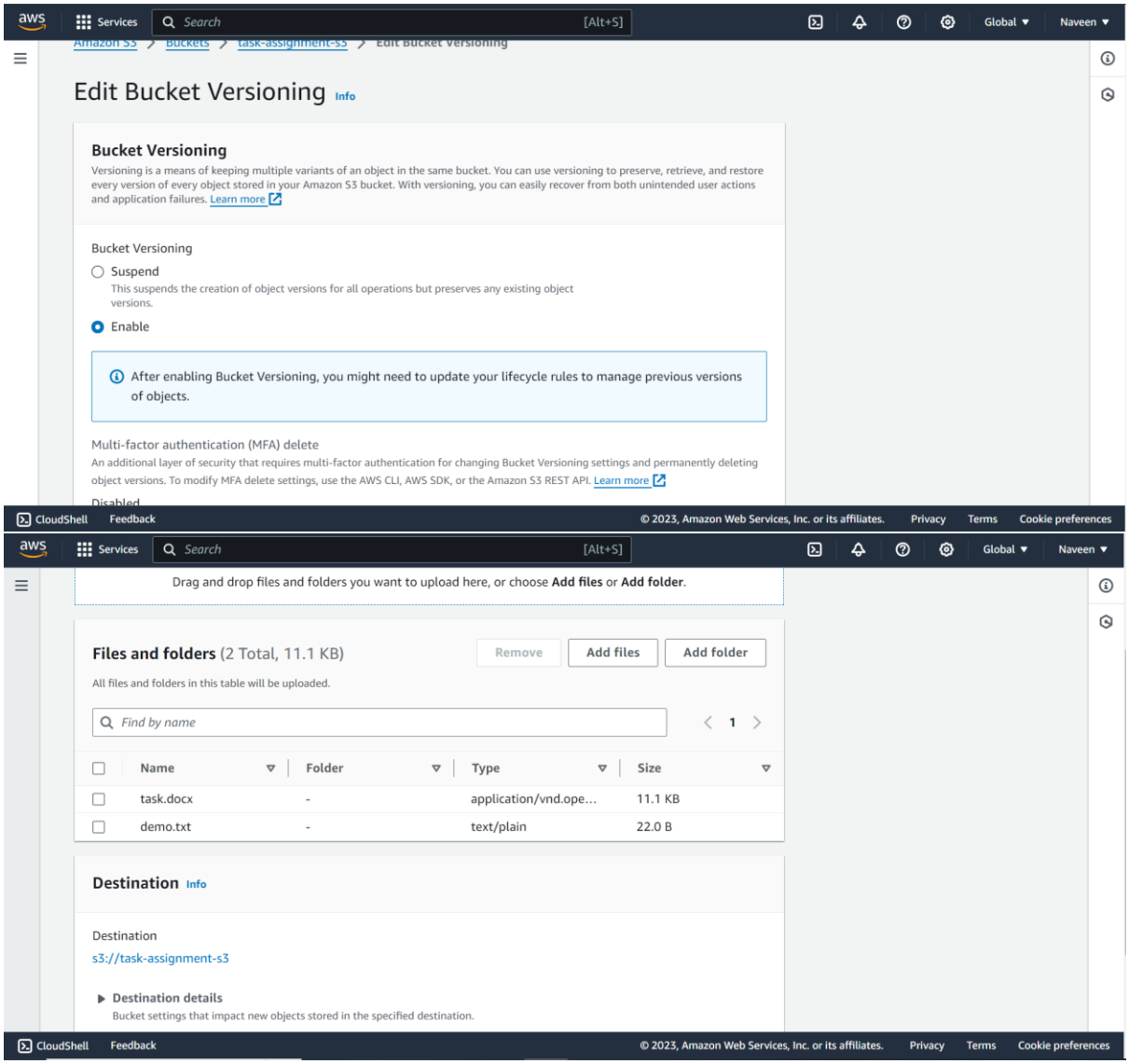
Task to be performed:

1. Enable versioning for the bucket created in task 1.
2. Re-upload any 2 files already uploaded to verify if versioning works.

Steps:

- Go inside the bucket by clicking the bucket
- Go the properties and click edit bucket versioning
- And click save changes
- Now the bucket versioning is enabled
- And re-uploaded the same 2 files in the bucket
- Enable versions in the bucket
- Now re-uploaded 2 files current version and previous version is reflected




Services
Search
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Global
Naveen
Amazon S3 > Buckets > task-assignment-s3 > Edit Bucket Versioning
Edit Bucket Versioning Info
Bucket Versioning
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
Suspend
This suspends the creation of object versions for all operations but preserves any existing object versions.
Enable
After enabling Bucket Versioning, you might need to update your lifecycle rules to manage previous versions of objects.
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. Learn more
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Drag and drop files and folders you want to upload here, or choose Add files or Add folder.
Files and folders (2 Total, 11.1 KB)
Remove
Add files
Add folder
All files and folders in this table will be uploaded.
Find by name
1
Name
Folder
Type
Size
task.docx
-
application/vnd.ope...
11.1 KB
demo.txt
-
text/plain
22.0 B
Destination Info
Destination
s3://task-assignment-s3
Destination details
Bucket settings that impact new objects stored in the specified destination.
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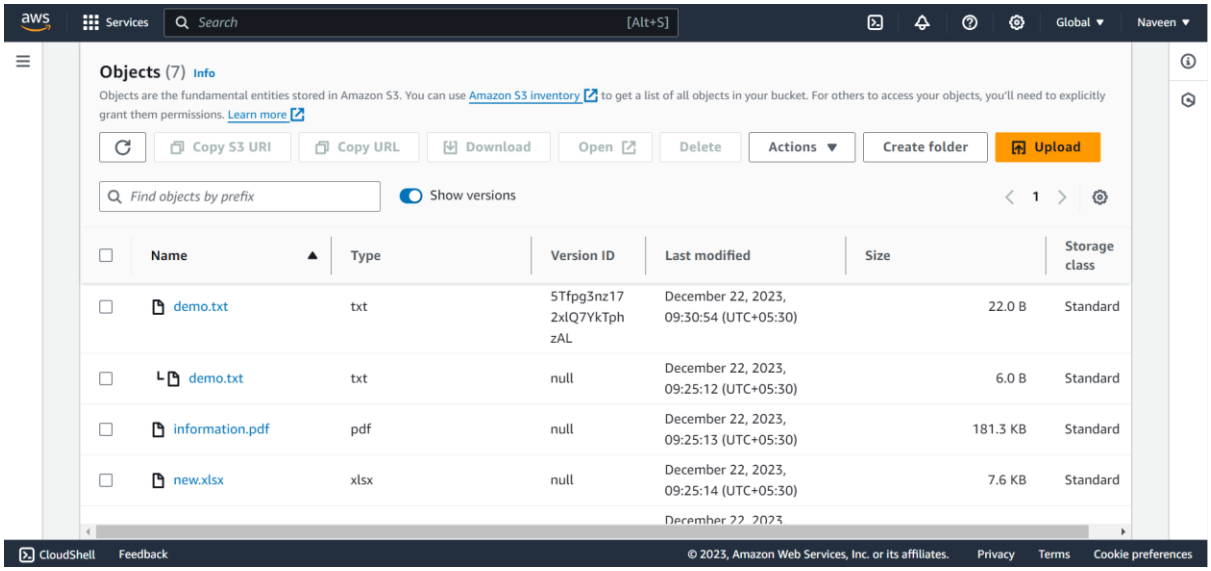
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Services
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Global
Naveen
Objects (7) Info
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Show versions
1
Name
Type
Version ID
Last modified
Size
Storage class
demo.txt txt 5Tfpg3nz172xlQ7YkTphzAL December 22, 2023, 09:30:54 (UTC+05:30) 22.0 B Standard
demo.txt txt null December 22, 2023, 09:25:12 (UTC+05:30) 6.0 B Standard
information.pdf pdf null December 22, 2023, 09:25:13 (UTC+05:30) 181.3 KB Standard
new.xlsx xlsx null December 22, 2023, 09:25:14 (UTC+05:30) 7.6 KB Standard
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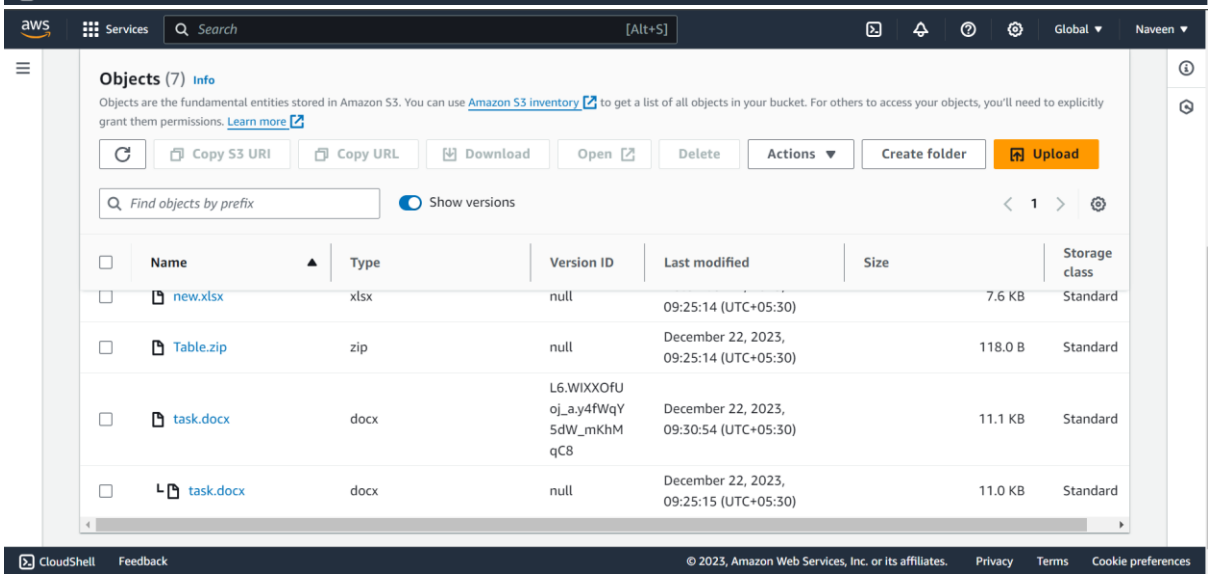
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Naveen
Objects (7) Info
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Show versions
1
Name
Type
Version ID
Last modified
Size
Storage class
new.xlsx xlsx null 09:25:14 (UTC+05:30) 7.6 KB Standard
Table.zip zip null December 22, 2023, 09:25:14 (UTC+05:30) 118.0 B Standard
task.docx docx L6.WIXXOfUoj_a.y4fWqY5dW_mKhMqC8 December 22, 2023, 09:30:54 (UTC+05:30) 11.1 KB Standard
task.docx docx null December 22, 2023, 09:25:15 (UTC+05:30) 11.0 KB Standard
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Assignment – 3 S3 Website Hosting

Problem statement:

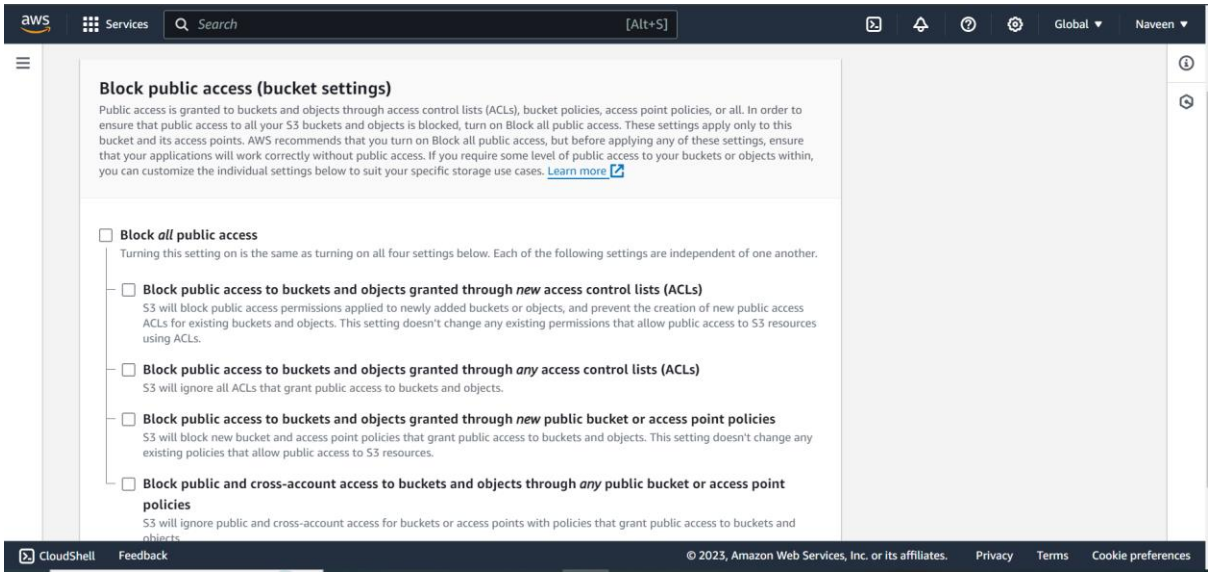
You work for XYZ Corporation. Their application required a storage service that can store files and publicly share them if required. Implement S3 for the same

Task 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-AI in 60 days
    b. Expiration in 200 days

Steps:

- Go inside the bucket and click permission
- Go to block public access and enable public access and click save changes
- Edit the bucket policy and write the necessary policy in JSON
- Now uploaded the index html file and error html file in bucket (For assignment purpose Instagram web page is used)
- Go to properties and click edit on static website hosting
- Enable the static website hosting and hosting type host a static website
- provide the name of the file in index document and error document and click save changes
- Now the static website provide a URL to see the website
- Click the URL webpage will be reflected
- And if we put modified URL in in browser the error page will be reflected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Block public access (bucket settings)
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more
Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.
Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
Block public access to buckets and objects granted through any access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.
Block public access to buckets and objects granted through new public bucket or access point policies
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
Block public and cross-account access to buckets and objects through any public bucket or access point policies
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects
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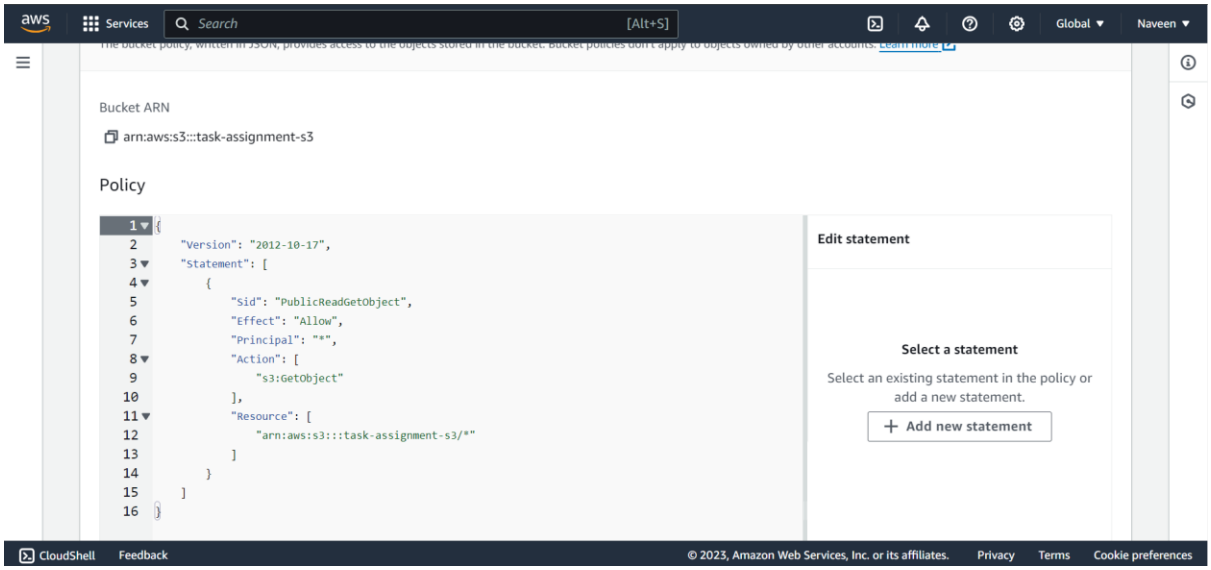
aws
Services
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Bucket ARN
arn:aws:s3:::task-assignment-s3
Policy
{
"Version": "2012-10-17",
"Statement": [
{
"Sid": "PublicReadGetObject",
"Effect": "Allow",
"Principal": "*",
"Action": [
"s3:GetObject"
],
"Resource": [
"arn:aws:s3:::task-assignment-s3/*"
]
}
]
}
Edit statement
Select a statement
Select an existing statement in the policy or add a new statement.
Add new statement
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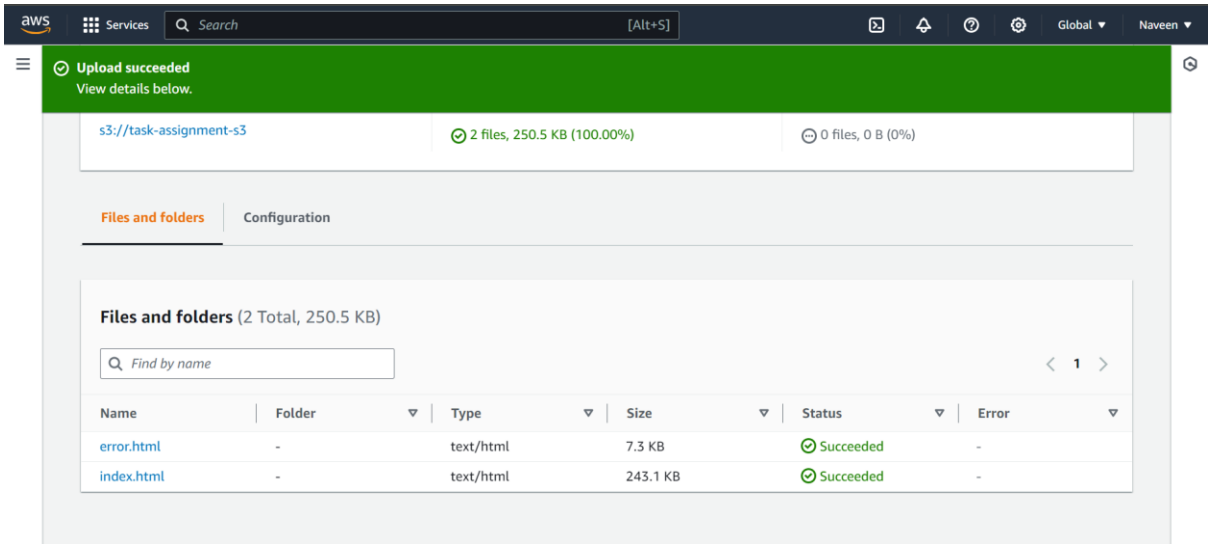
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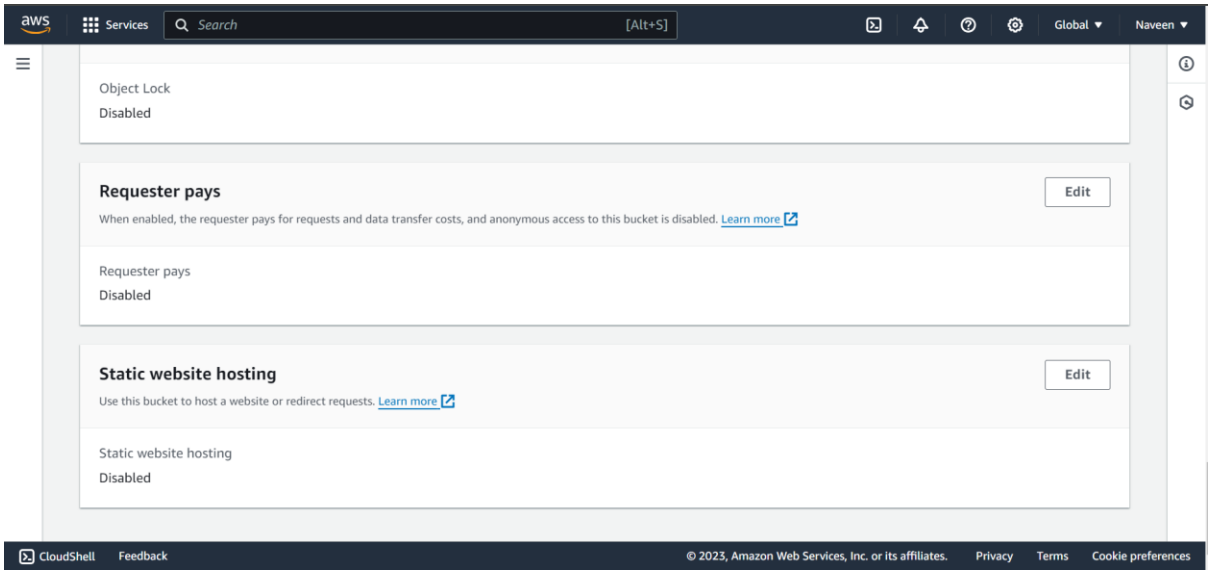
Upload succeeded
View details below.
s3://task-assignment-s3
2 files, 250.5 KB (100.00%)
0 files, 0 B (0%)
Files and folders
Configuration
Files and folders (2 Total, 250.5 KB)
Find by name
1
Name
Folder
Type
Size
Status
Error
error.html
-
text/html
7.3 KB
Succeeded
-
index.html
-
text/html
243.1 KB
Succeeded
-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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
Disabled
CloudShell
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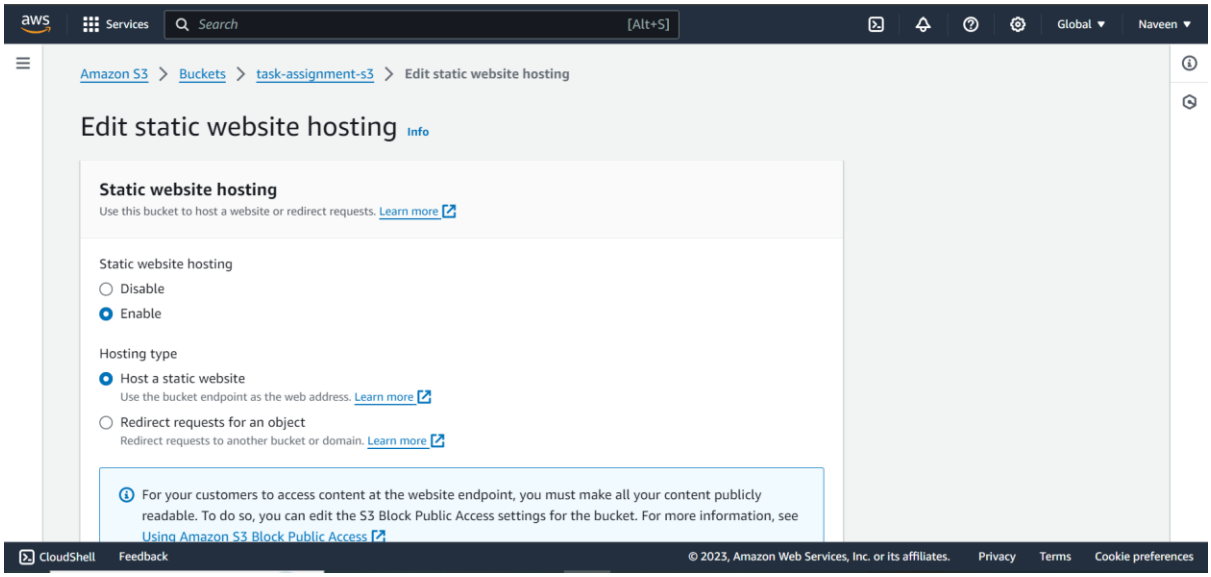
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Naveen
Amazon S3
Buckets
task-assignment-s3
Edit static website hosting
Edit static website hosting
Info
Static website hosting
Use this bucket to host a website or redirect requests. Learn more
Static website hosting
Disable
Enable
Hosting type
Host 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
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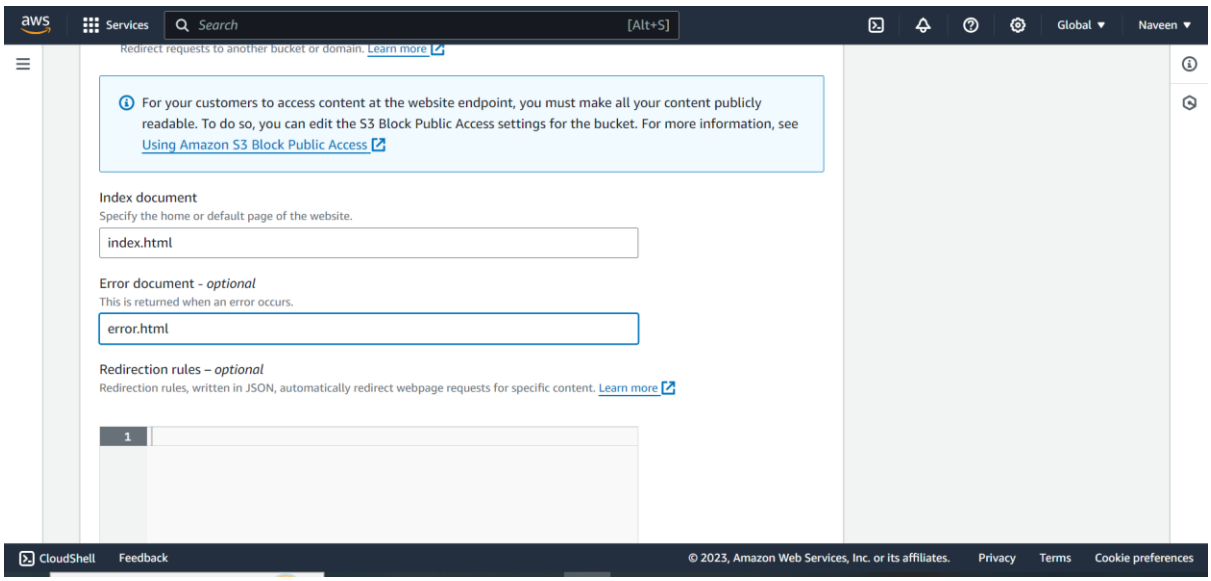
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Global
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Redirect requests to another bucket or domain. Learn more
For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can 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
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. Learn more
1
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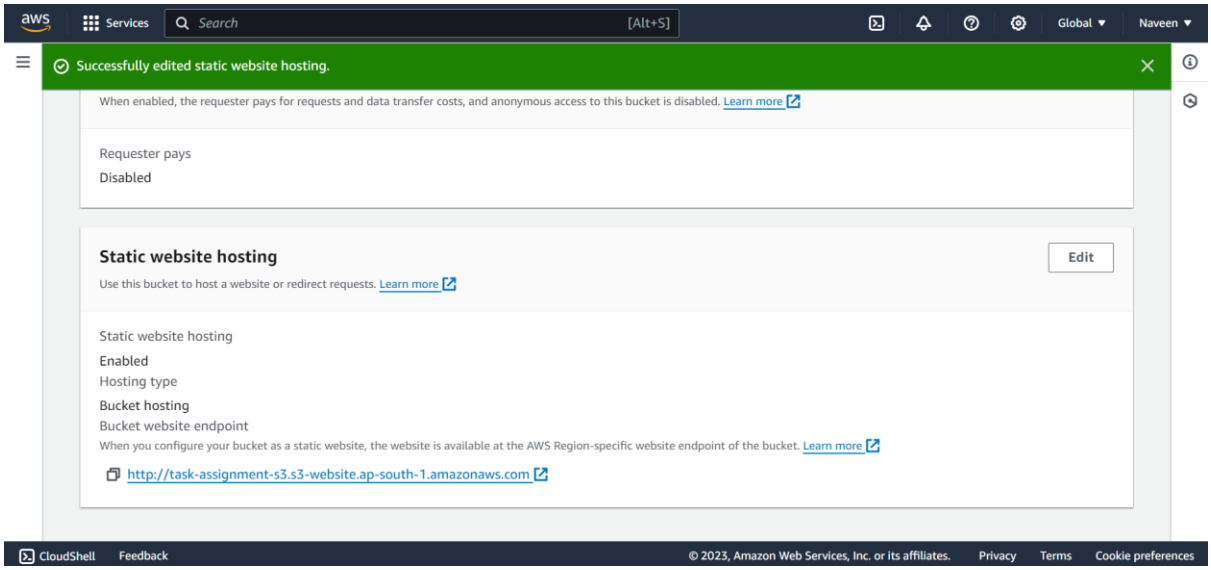
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Successfully edited static website hosting.
When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. Learn more
Requester pays
Disabled
Static website hosting
Edit
Use this bucket to host a website or redirect requests. Learn more
Static website hosting
Enabled
Hosting type
Bucket hosting
Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more
http://task-assignment-s3.s3-website.ap-south-1.amazonaws.com
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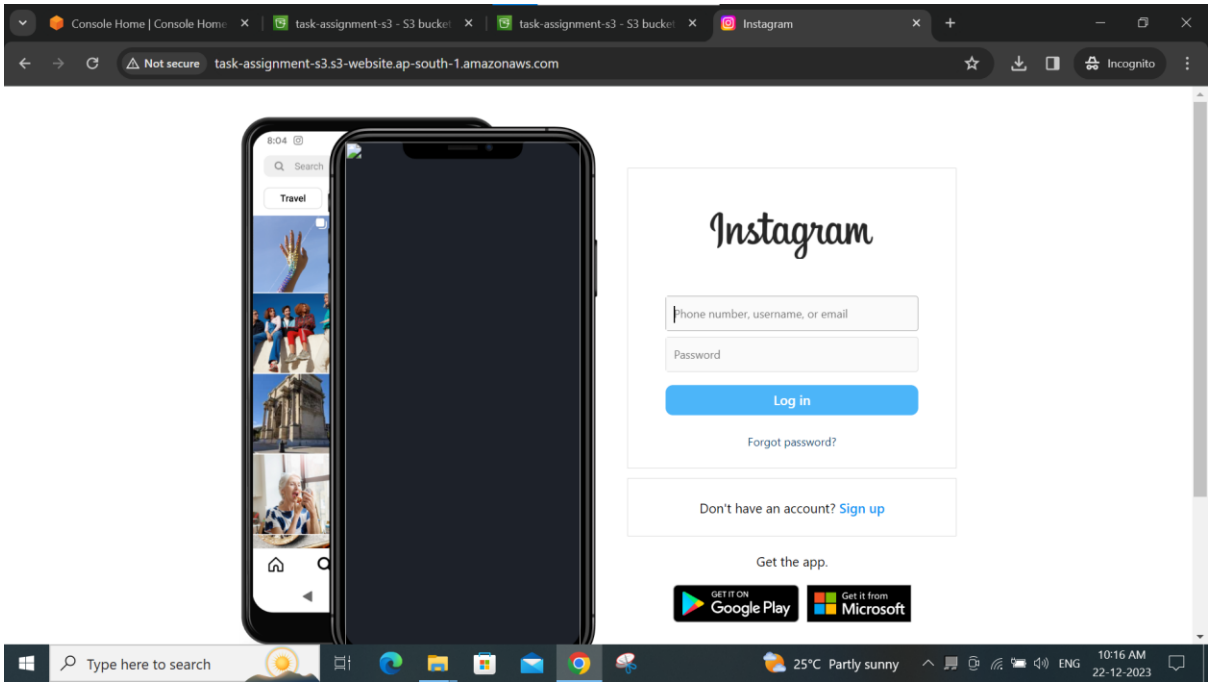
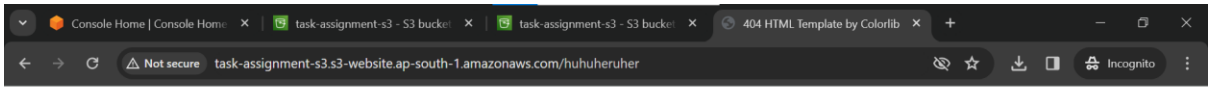

Console Home | Console Home
task-assignment-s3 - S3 bucket
task-assignment-s3 - S3 bucket
Instagram
Not secure
task-assignment-s3.s3-website.ap-south-1.amazonaws.com
Incognito
Instagram
Phone number, username, or email
Password
Log in
Forgot password?
Don't have an account? Sign up
Get the app.
GET IT ON Google Play
Get it from Microsoft
Type here to search
25°C Partly sunny
ENG
10:16 AM
22-12-2023



Oops! Page not found

404

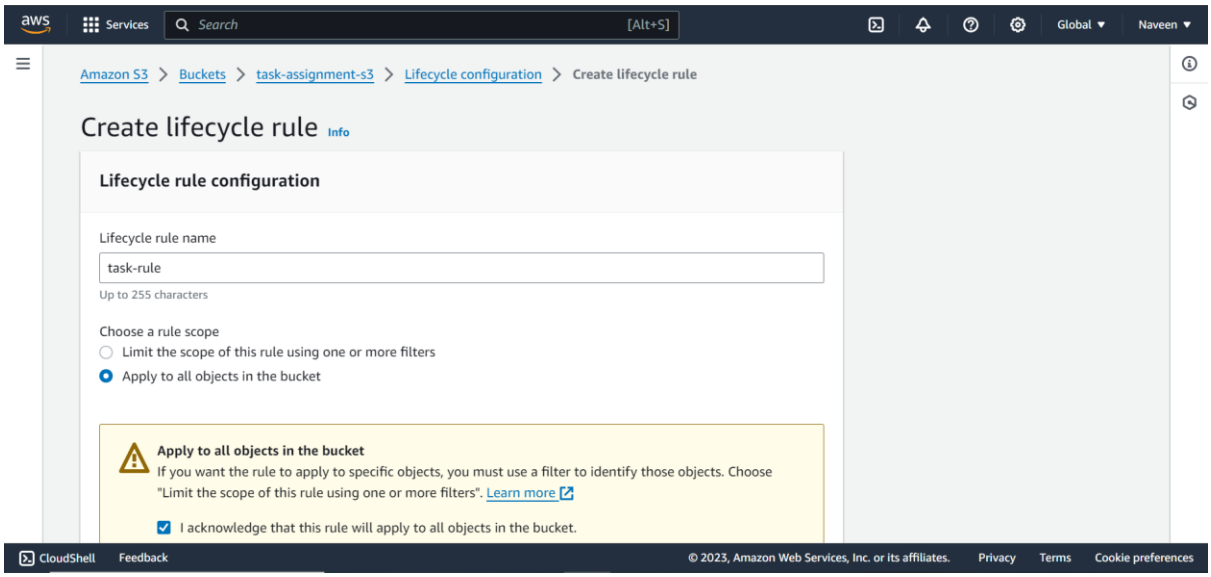
we are sorry, but the page you requested was not found

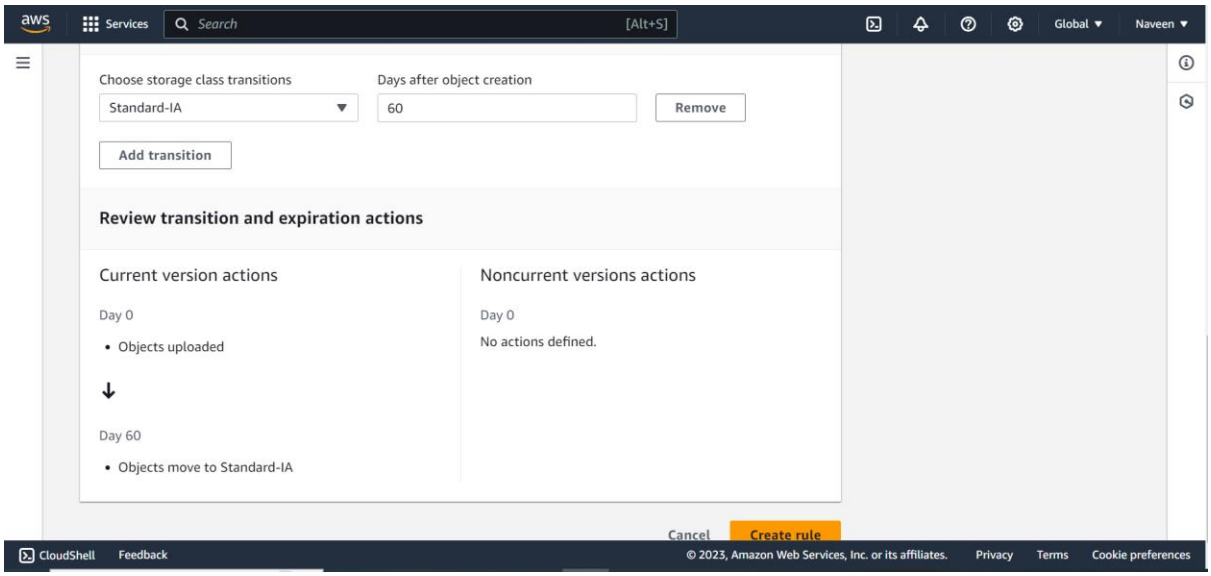
2. Add a lifecycle rule for the bucket:

a. Transition from standard to standard-AI in 60 days
b. Expiration in 200 days

a. Steps

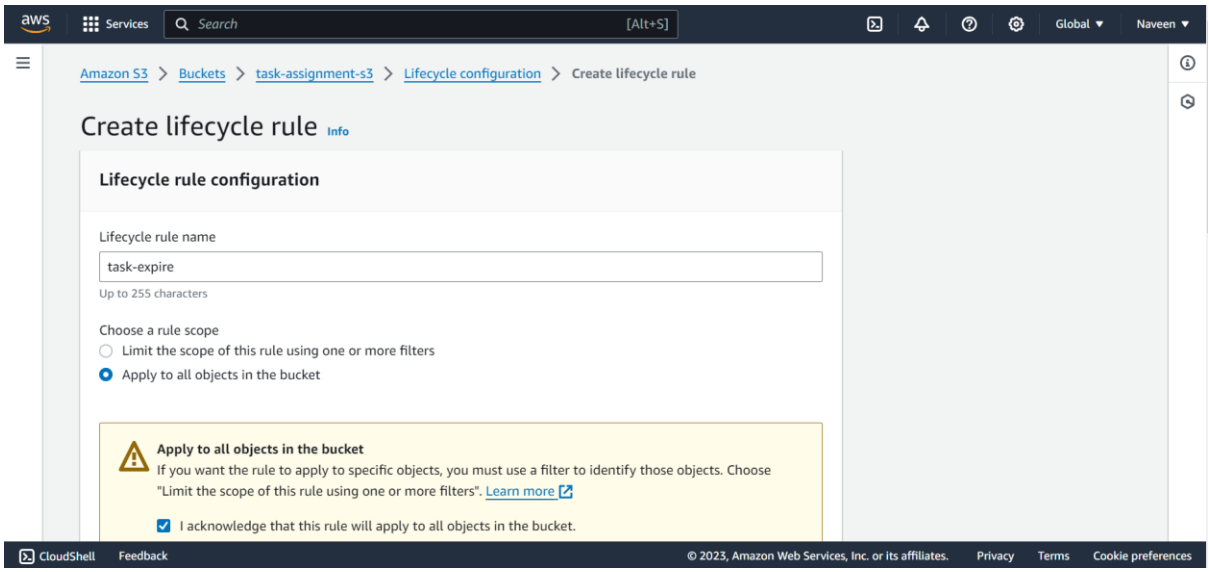
- Go inside the bucket and click Management
- Click create lifecycle rules and provide a lifecycle rule name
- Rule scope click apply all object in bucket
- Select lifecycle rule action as move current version of object between storage classes
- Choose the storage class transition as standard-AI and enter 60 days in days after object creation
- click create rule

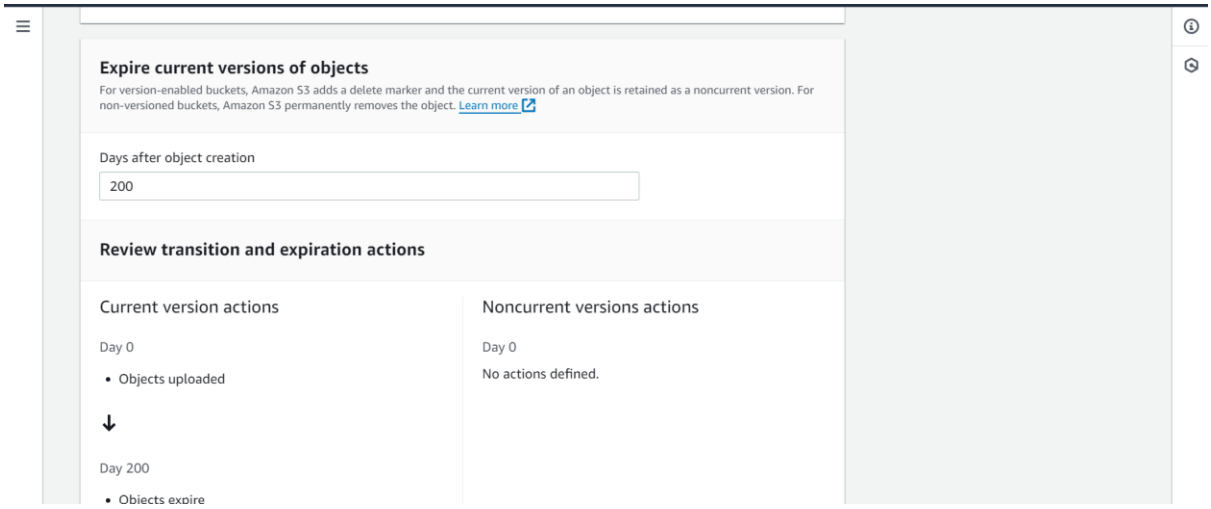


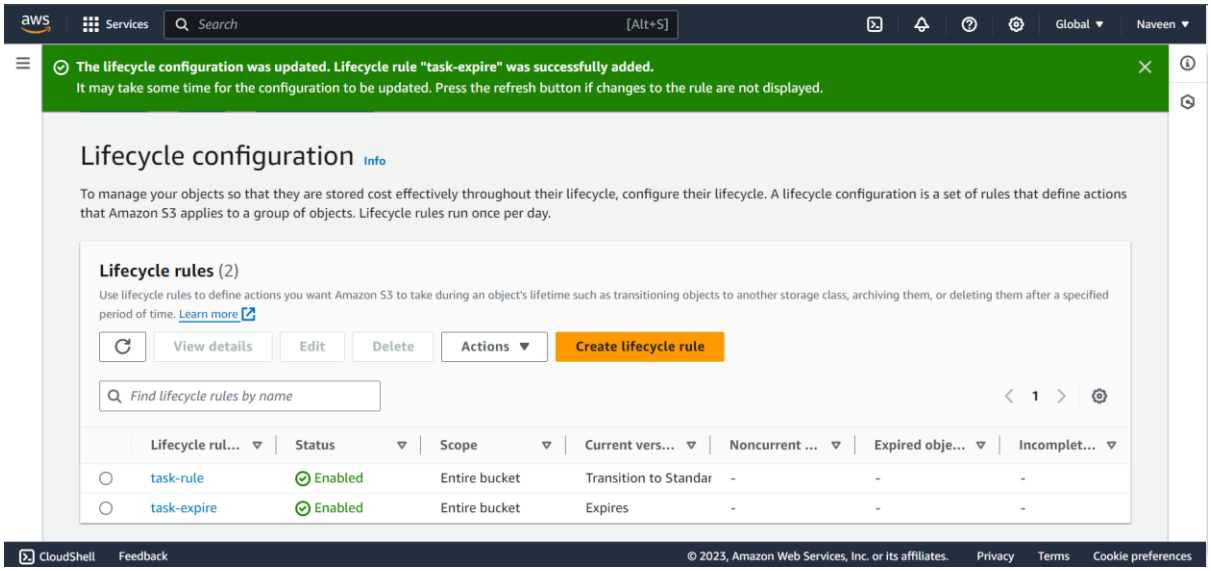


b. Steps

- Go inside the bucket and click Management
- Click create lifecycle rules and provide a lifecycle rule name
- Rule scope click apply all object in bucket
- Select lifecycle rule action as expire current versions of objects
- Enter 200 days in days after object creation
- click create rule






aws
Services
Search
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Global
Naveen
The lifecycle configuration was updated. Lifecycle rule "task-expire" 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.
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 (2)
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
View details
Edit
Delete
Actions
Create lifecycle rule
Find lifecycle rules by name
1
Lifecycle rul...
Status
Scope
Current vers...
Noncurrent ...
Expired obje...
Incomplet...
task-rule
Enabled
Entire bucket
Transition to Standar
-
-
-
task-expire
Enabled
Entire bucket
Expires
-
-
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