Module 6: S3 Website Hosting Assignment

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Course Offered: -Advanced Cloud Computing and Devops
Assignment By: -Intellipaat
Trainer: -Puneet Gavri
Date Of Submission: -24/10/2024

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.

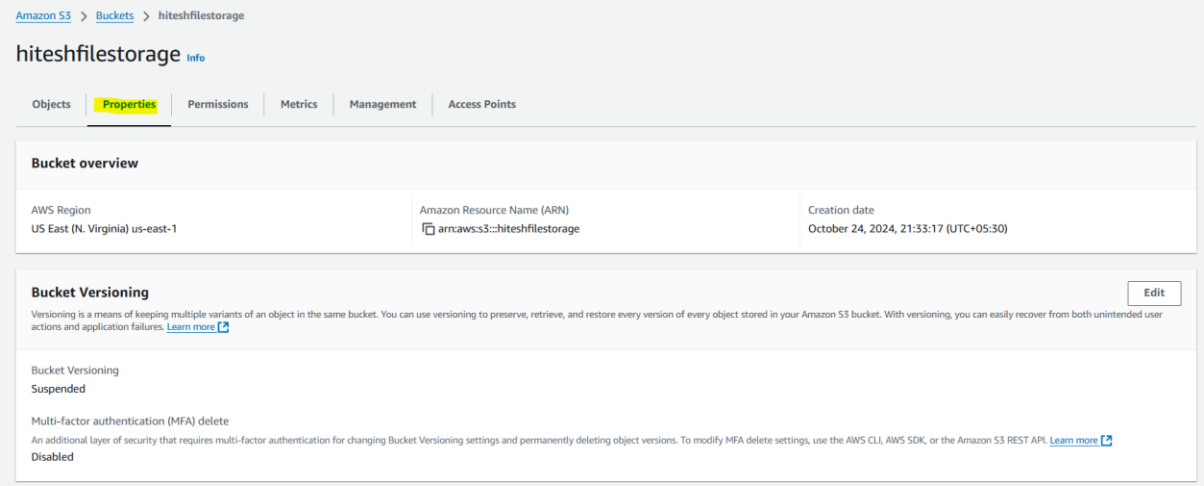
2. Add a lifecycle rule for the bucket:

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

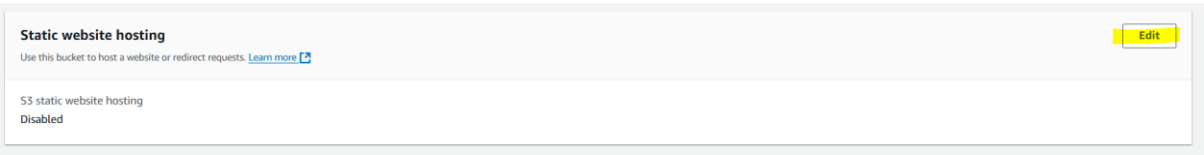
b. Expiration in 200 days

S3 Website Hosting Assignment

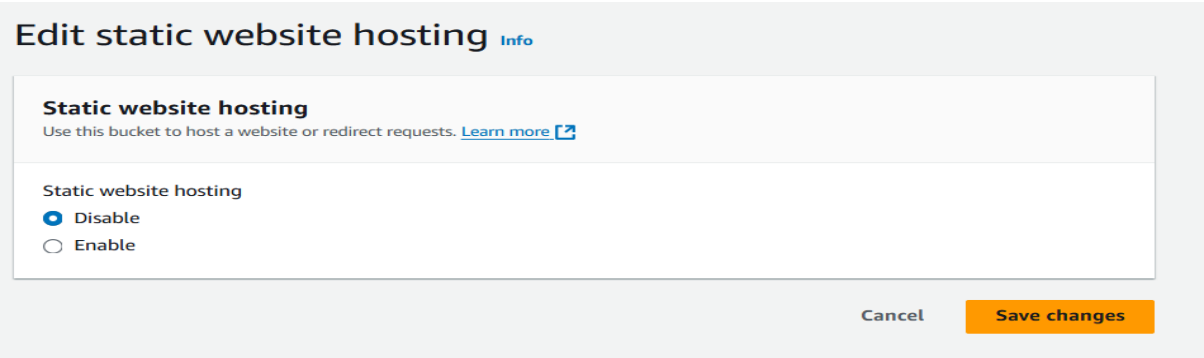
Now select the bucket you want to use for creating a static website, Click on Properties



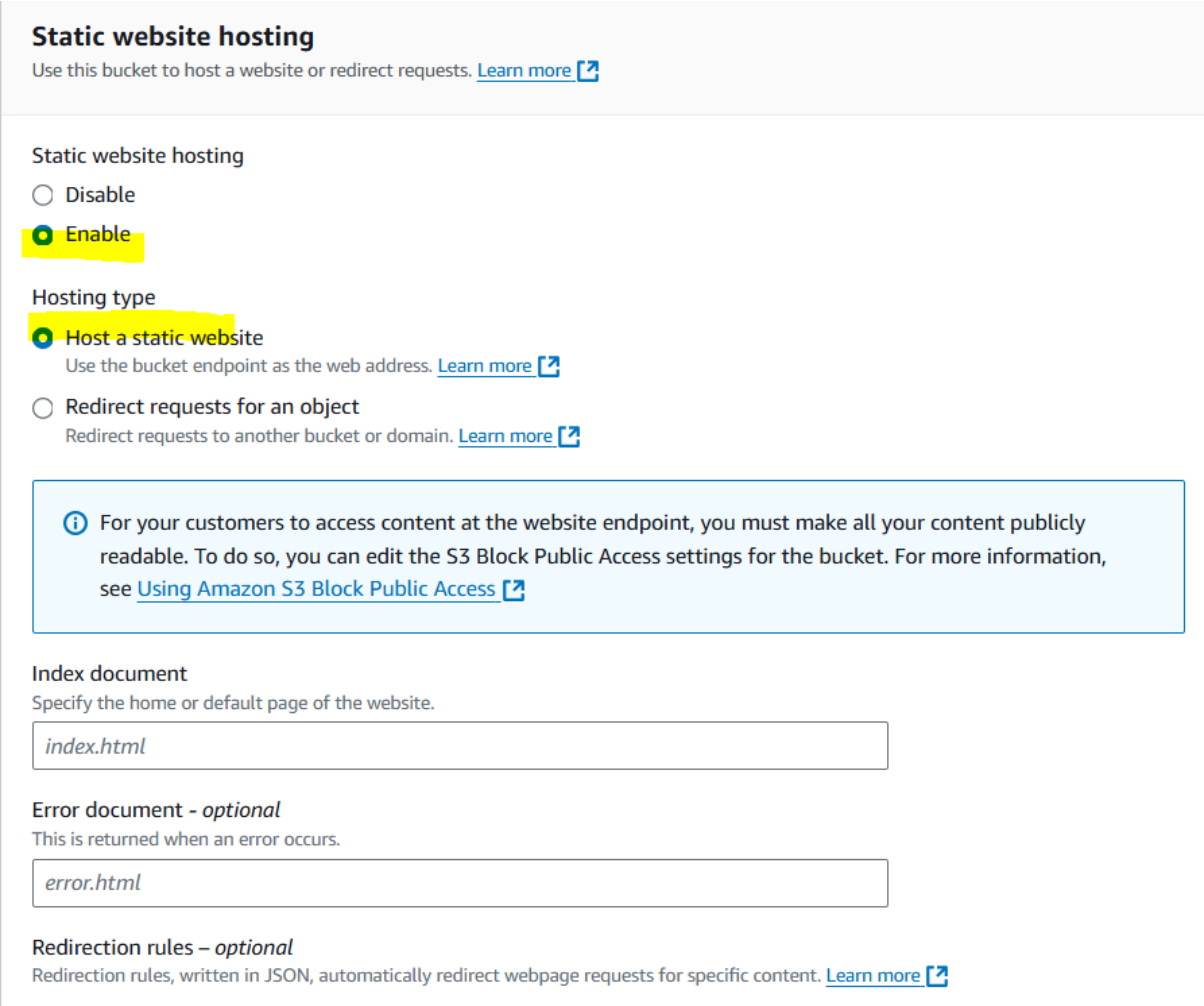
Scroll Down The Page and you will see static web hosting option



Go To edit By default you will see the disable but you want to enable this option

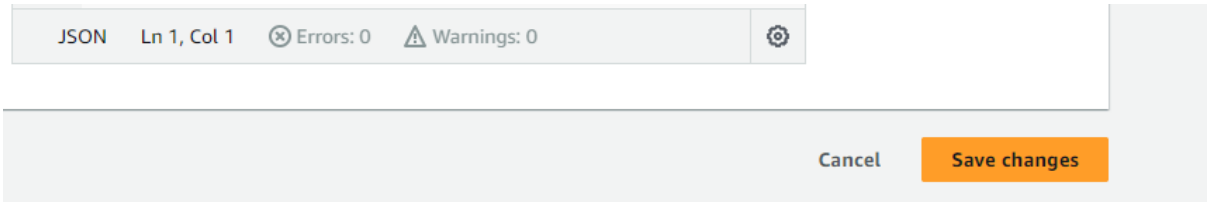


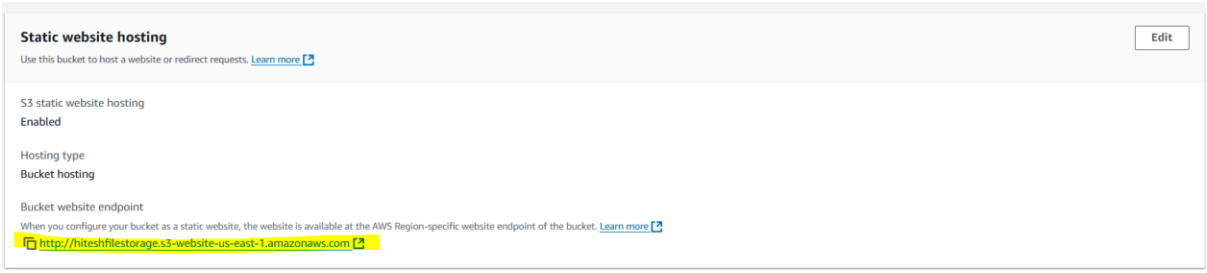
After enable this options.



Select Enable

Provide the index.html and error.html file name they should be case sensitive and name should be matching as per the apache default configuration then click save changes.

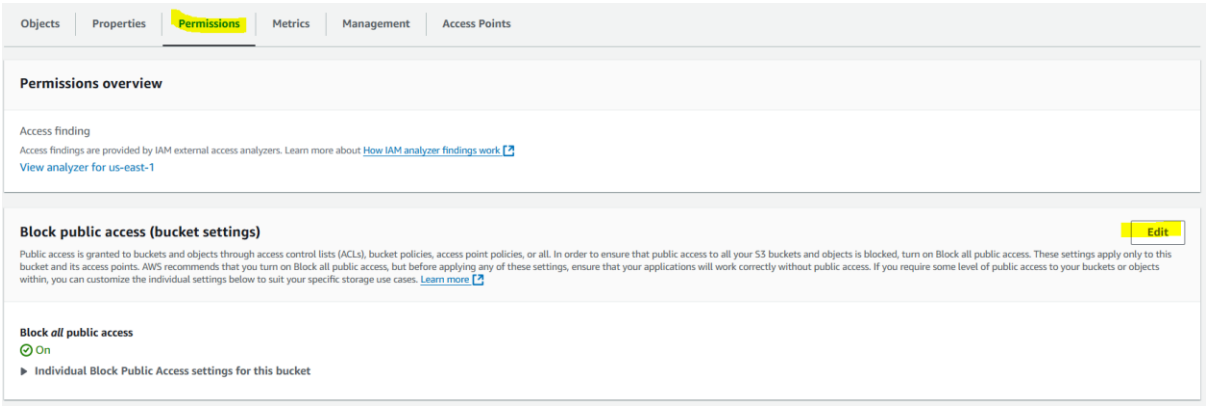


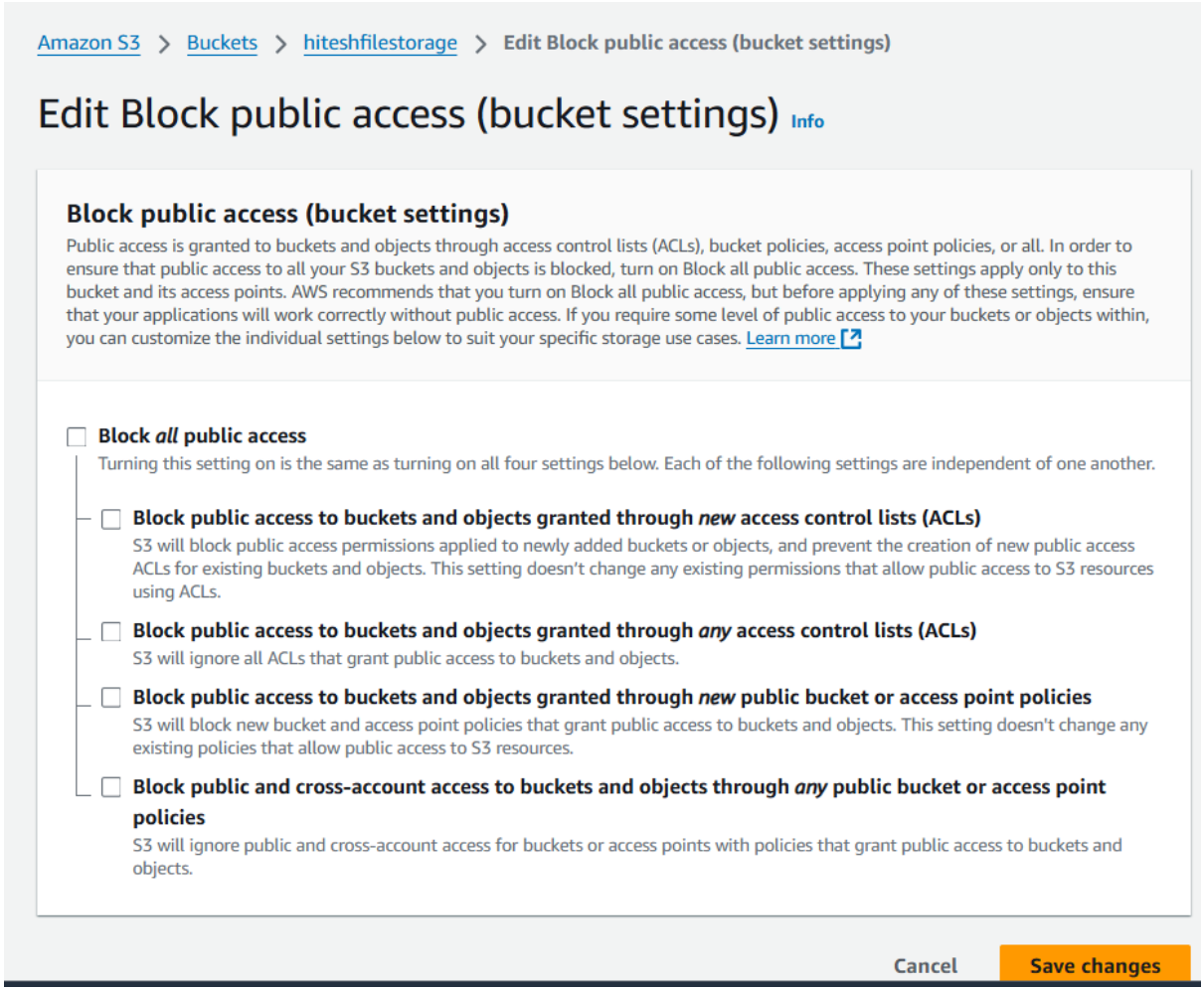


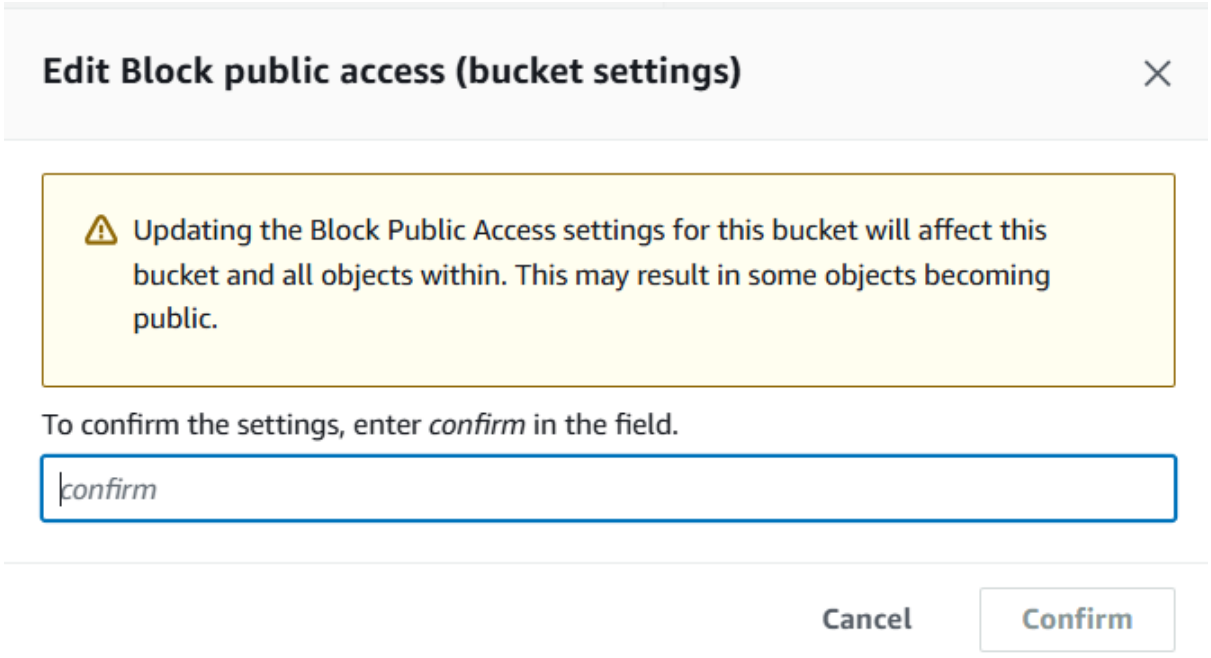
Once the website is enable it will provide you the endpoint details, you have to copy the URL and then browse is using the browser.

Before that, you have to upload index.html and error.html to the S3 bucket.

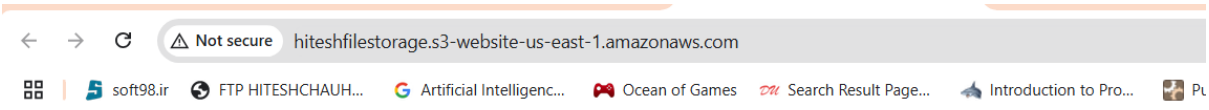
Go to permission and click edit.







Once your enable the public access on the S3 bucket, you need to write the bucket policy otherwise it will give the below error message.



403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 0994P4GXVT63V4QE
- HostId: ehTYrBAAGQgLCWv/e0E3qU/kgUxHzL/Hb6mzQfZct4bIIlc6vg9eRAcGIpuDmJ8i9mRPwG6KOkk=

An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
- Message: Access Denied

Bucket ARN

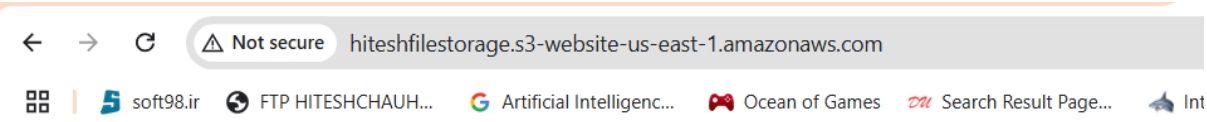
arn:aws:s3:::hiteshfilestorage

Policy

```
{
  "Id": "Policy1729787205844",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stmt1729787167301",
      "Action": [
        "s3:GetObject"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::hiteshfilestorage",
      "Principal": {
        "AWS": [
          "PublicReadGetObject"
        ]
      }
    }
  ]
}
```

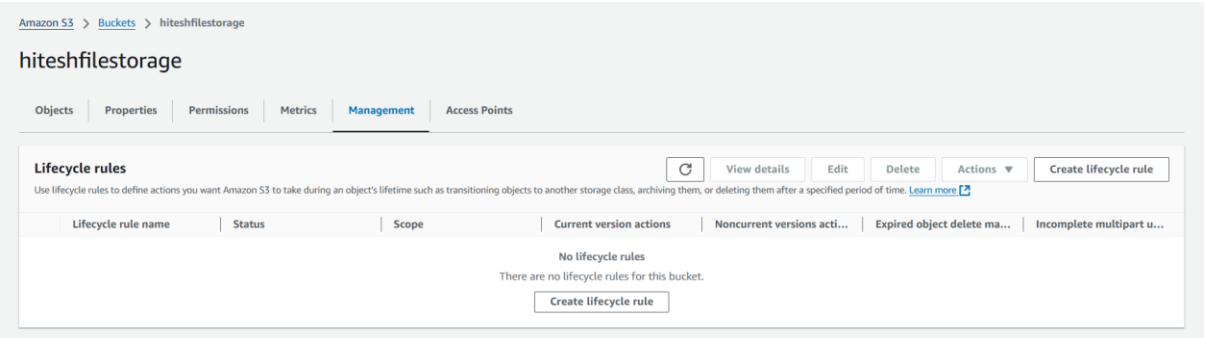
```
{
  "Version": "2012-10-17",
  "Id": "Policy1729787205844",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::hiteshfilestorage/*"
    }
  ]
}
```

Add the bucket policy as shown above that's it your static website is published successfully.



Adding Life Cycle Policies

Select the S3 bucket you want to apply the Lifecycle rules, **S3 bucket → Management → Lifecycle rules → Create lifecycle rule**



Create lifecycle rule Info

Lifecycle rule configuration

Lifecycle rule name

storageclasschange

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

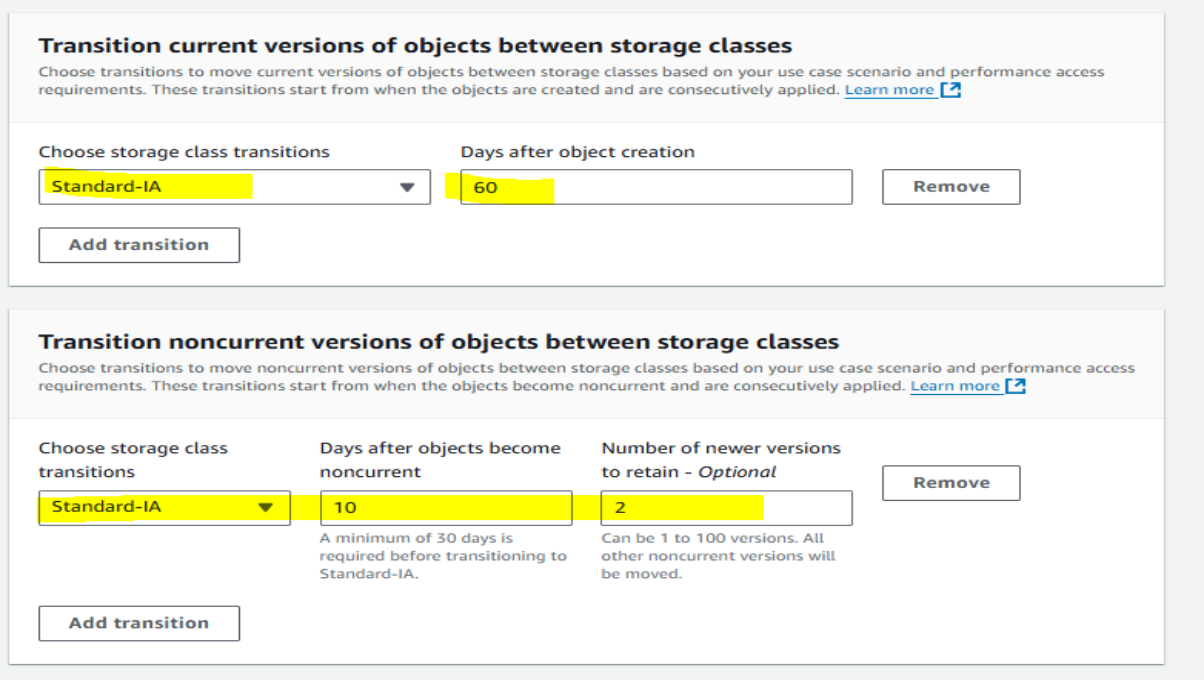
If you want the rule to apply to specific objects, you must use a filter to identify those objects. Choose "Limit the scope of this rule using one or more filters". Learn more

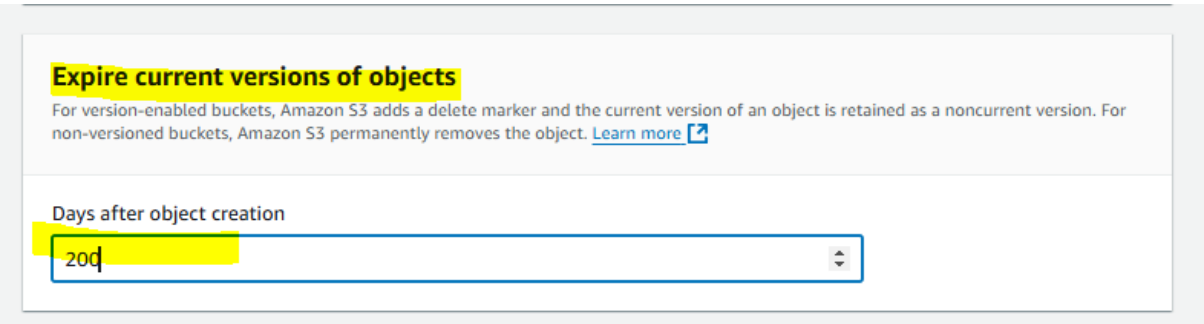
☑ I acknowledge that this rule will apply to all objects in the bucket.

Lifecycle rule actions

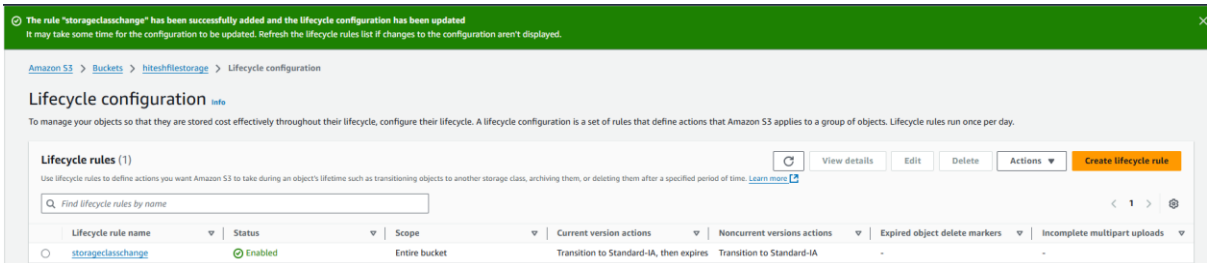
Choose the actions you want this rule to perform.

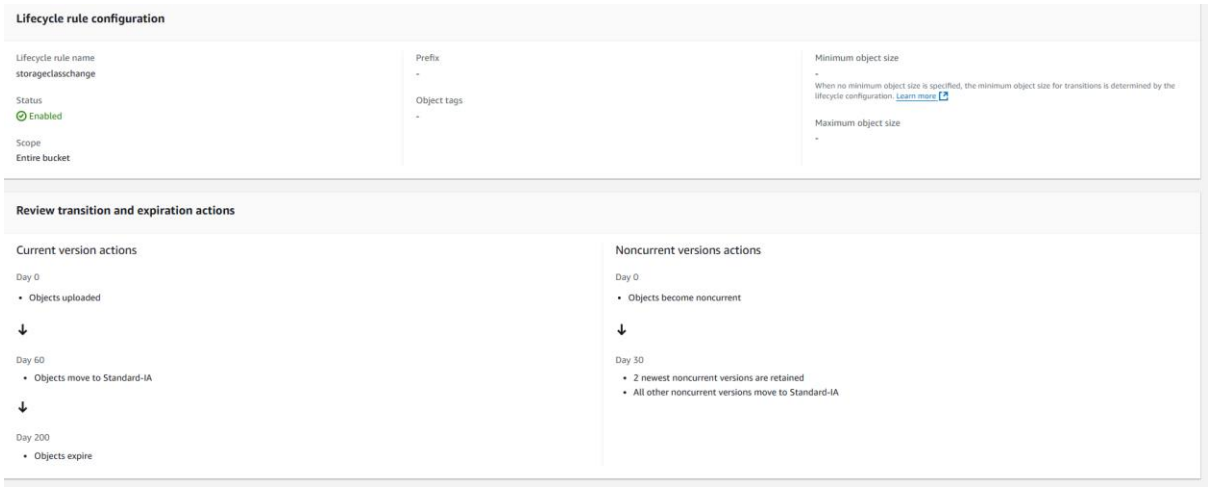
- ☑ Transition current versions of objects between storage classes
  This action will move current versions.
- ☑ Transition noncurrent versions of objects between storage classes
  This action will move noncurrent versions.
- ☑ Expire current versions of objects
- ☐ Permanently delete noncurrent versions of objects
- ☐ Delete expired object delete markers or incomplete multipart uploads
  These actions are not supported when filtering by object tags or object size.





Minimum 30Days is required to objects to become noncurrent





That’s All LifeCycle policies are configured successfully.