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## S3 Static Website Hosting

### Problem Statement:

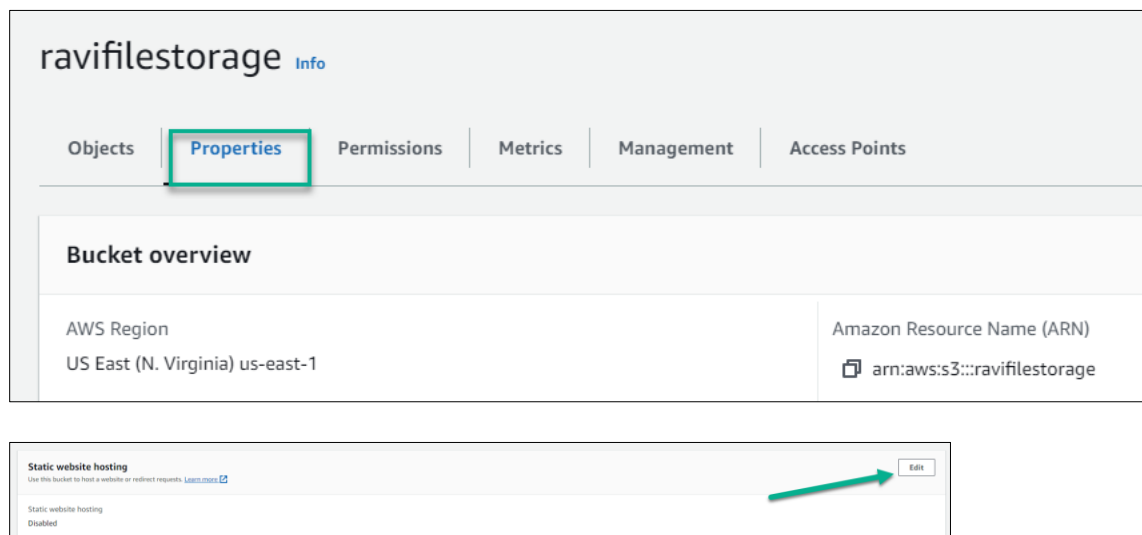
You work for Techarkit Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement S3 for the same.

### Tasks to Be Performed:

1. Use the created bucket in the previous task to host static websites, and 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

### Answer

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



Edit the **Static Website hosting**

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[Amazon S3](#) > [Buckets](#) > [ravifilestorage](#) > 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](#)

Index document  
Specify the home or default page of the website.

Error document - optional  
This is returned when an error occurs.

Redirection rules - optional  
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

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

JSON Ln 1, Col 1 ⓧ Errors: 0 ⚠ Warnings: 0 ⚙

Cancel **Save changes**

Click “Save Changes”

**Static website hosting**  
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](#)

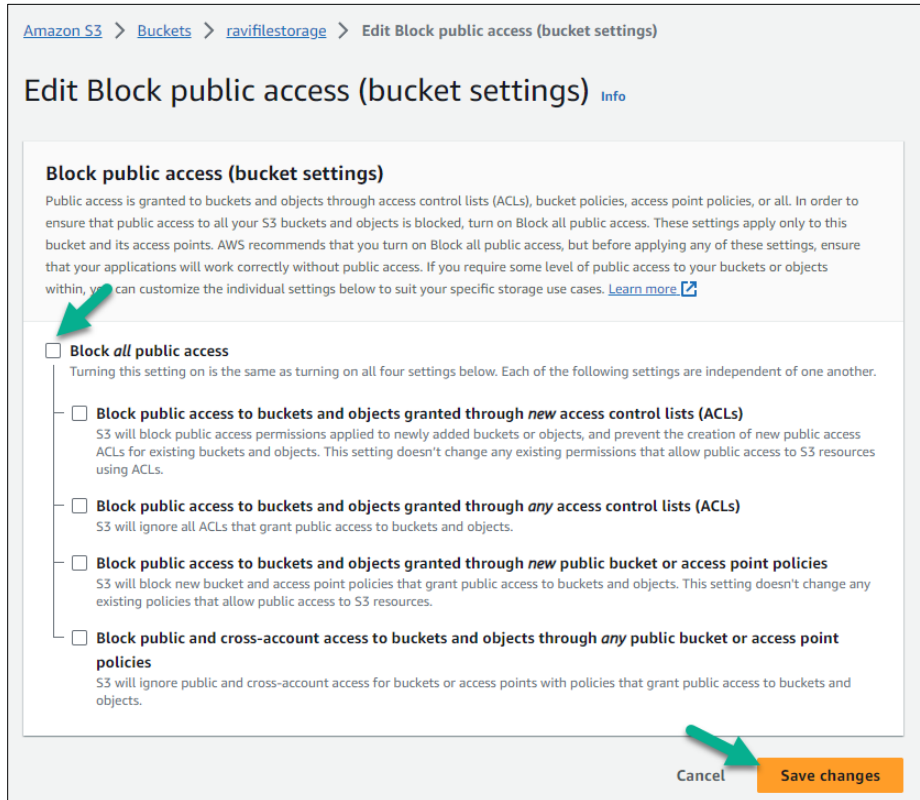
<http://ravifilestorage.s3-website-us-east-1.amazonaws.com>

<http://ravifilestorage.s3-website-us-east-1.amazonaws.com>

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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.



Amazon S3 > Buckets > ravfilestorage > Edit Block public access (bucket settings)

### Edit Block public access (bucket settings) [Info](#)

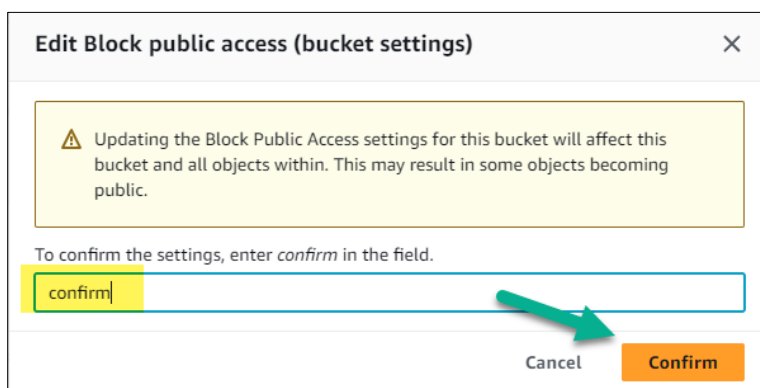
**Block public access (bucket settings)**

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.

[Cancel](#) [Save changes](#)



### Edit Block public access (bucket settings) [X](#)

**Warning** Updating the Block Public Access settings for this bucket will affect this bucket and all objects within. This may result in some objects becoming public.

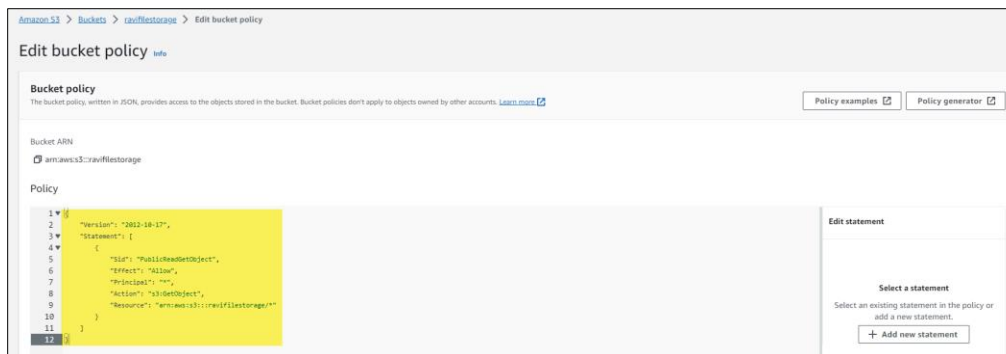
To confirm the settings, enter *confirm* in the field.

[Cancel](#) [Confirm](#)

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.

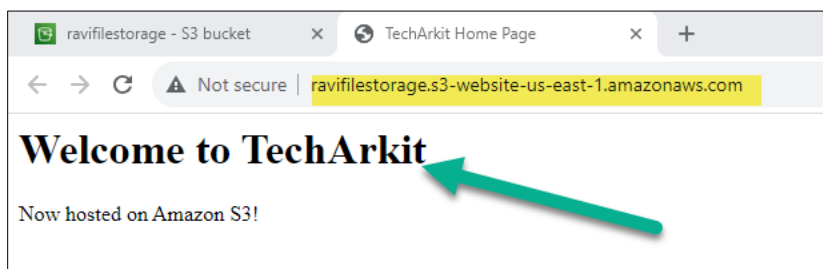
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```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3::ravifilestorage/*"
    }
  ]
}
```

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



## Adding Life Cycle Policies

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

Add Lifecycle rule name “StorageClassChange”

- Move current versions of objects between storage classes
- Move noncurrent versions of objects between storage classes
- Expire current versions of objects

To move current and noncurrent versions to Infrequent Access.

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**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  
Standard-IA

Days after object creation  
60

Remove

Add transition

**Transition noncurrent versions of objects between storage classes**  
Choose transitions to move noncurrent versions of objects between storage classes based on your use case scenario and performance access requirements. These transitions start from when the objects become noncurrent and are consecutively applied. [Learn more](#)

Choose storage class transitions  
Standard-IA

Days after objects become noncurrent  
10  
A minimum of 30 days is required before transitioning to Standard-IA.

Number of newer versions to retain - *Optional*  
2  
Can be up to 100 versions. All other noncurrent versions will be moved.

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

Minimum 30Days is required to objects to become noncurrent

✔ The lifecycle configuration was updated. Lifecycle rule "StorageClassChange" 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.

That's All LifeCycle policies are configured successfully.

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