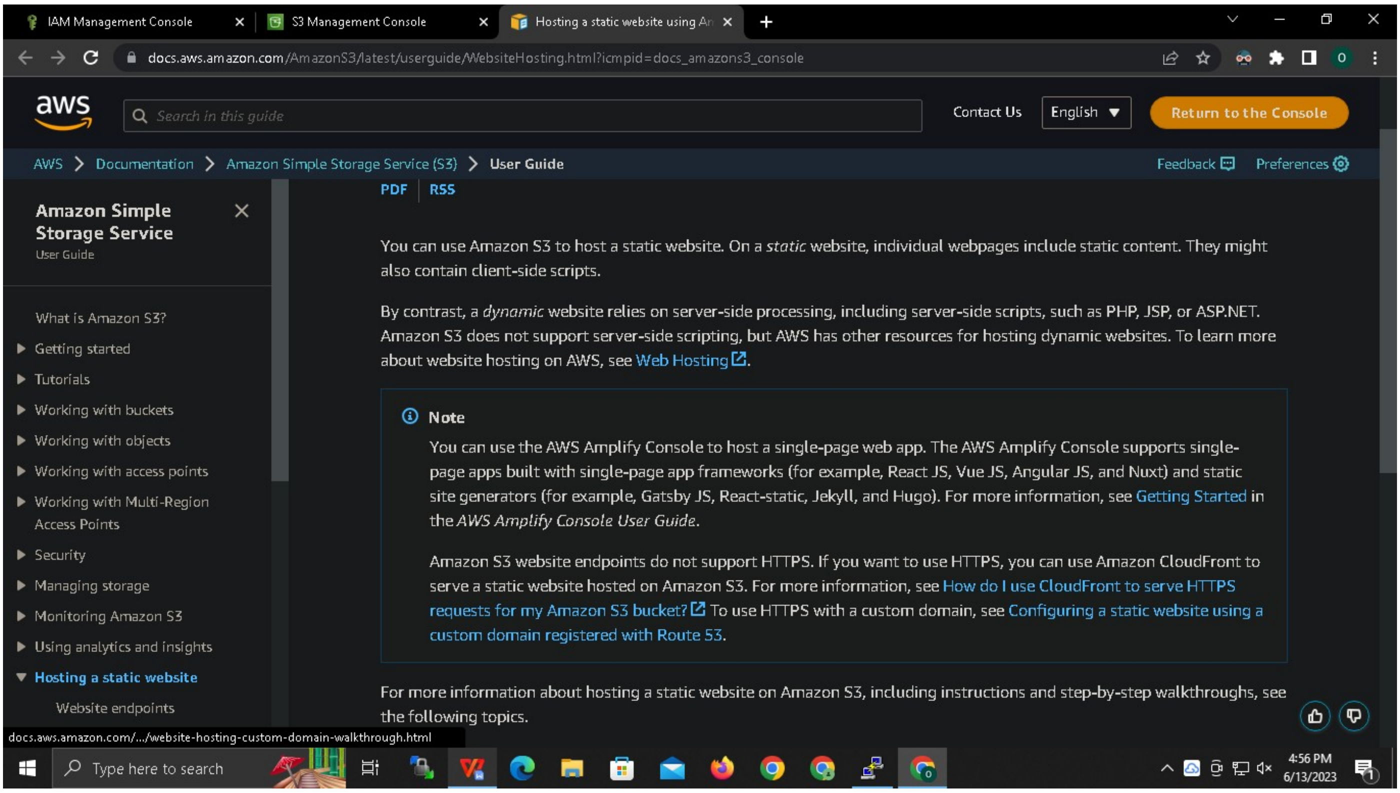
Amazon Web Service S3:



IAM Management Console
S3 Management Console
Hosting a static website using An
docs.aws.amazon.com/AmazonS3/latest/userguide/WebsiteHosting.html?icmpid=docs_amazons3_console
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User Guide
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Getting started
Tutorials
Working with buckets
Working with objects
Working with access points
Working with Multi-Region Access Points
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Hosting a static website
Website endpoints
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You can use Amazon S3 to host a static website. On a *static* website, individual webpages include static content. They might also contain client-side scripts.

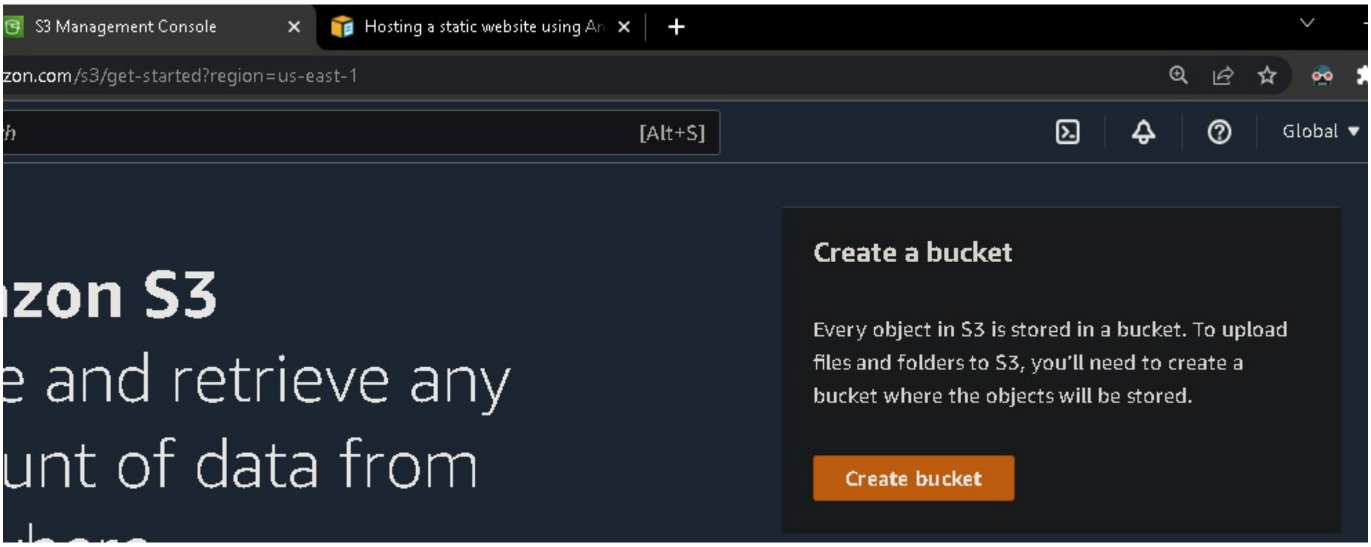
By contrast, a *dynamic* website relies on server-side processing, including server-side scripts, such as PHP, JSP, or ASP.NET. Amazon S3 does not support server-side scripting, but AWS has other resources for hosting dynamic websites. To learn more about website hosting on AWS, see Web Hosting.

Note

You can use the AWS Amplify Console to host a single-page web app. The AWS Amplify Console supports single-page apps built with single-page app frameworks (for example, React JS, Vue JS, Angular JS, and Nuxt) and static site generators (for example, Gatsby JS, React-static, Jekyll, and Hugo). For more information, see Getting Started in the *AWS Amplify Console User Guide*.

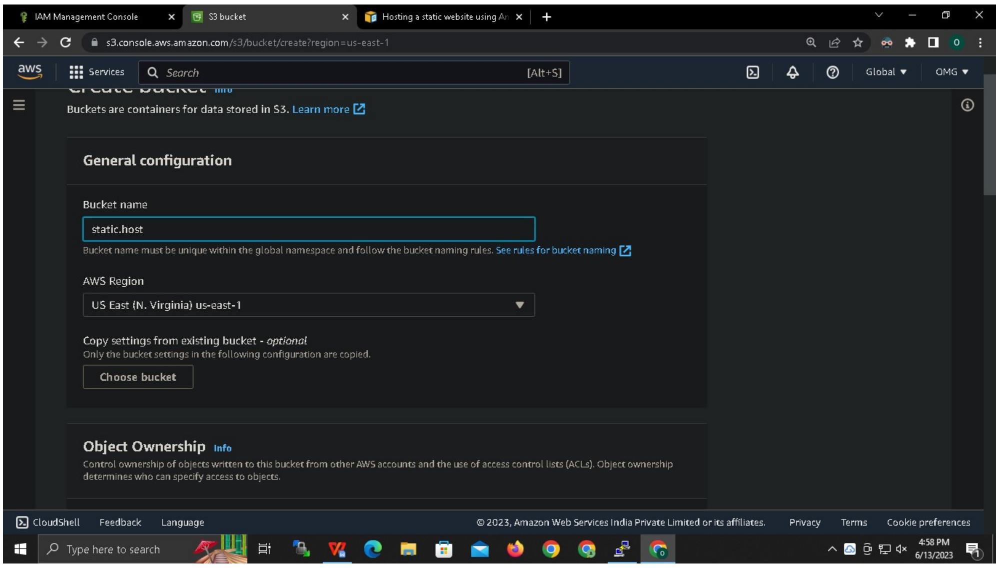
Amazon S3 website endpoints do not support HTTPS. If you want to use HTTPS, you can use Amazon CloudFront to serve a static website hosted on Amazon S3. For more information, see How do I use CloudFront to serve HTTPS requests for my Amazon S3 bucket? To use HTTPS with a custom domain, see Configuring a static website using a custom domain registered with Route 53.

For more information about hosting a static website on Amazon S3, including instructions and step-by-step walkthroughs, see the following topics.



Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.



IAM Management Console
S3 bucket
Hosting a static website using An
s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1
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Buckets are containers for data stored in S3. Learn more

General configuration

Bucket name

static.host

Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming

AWS Region

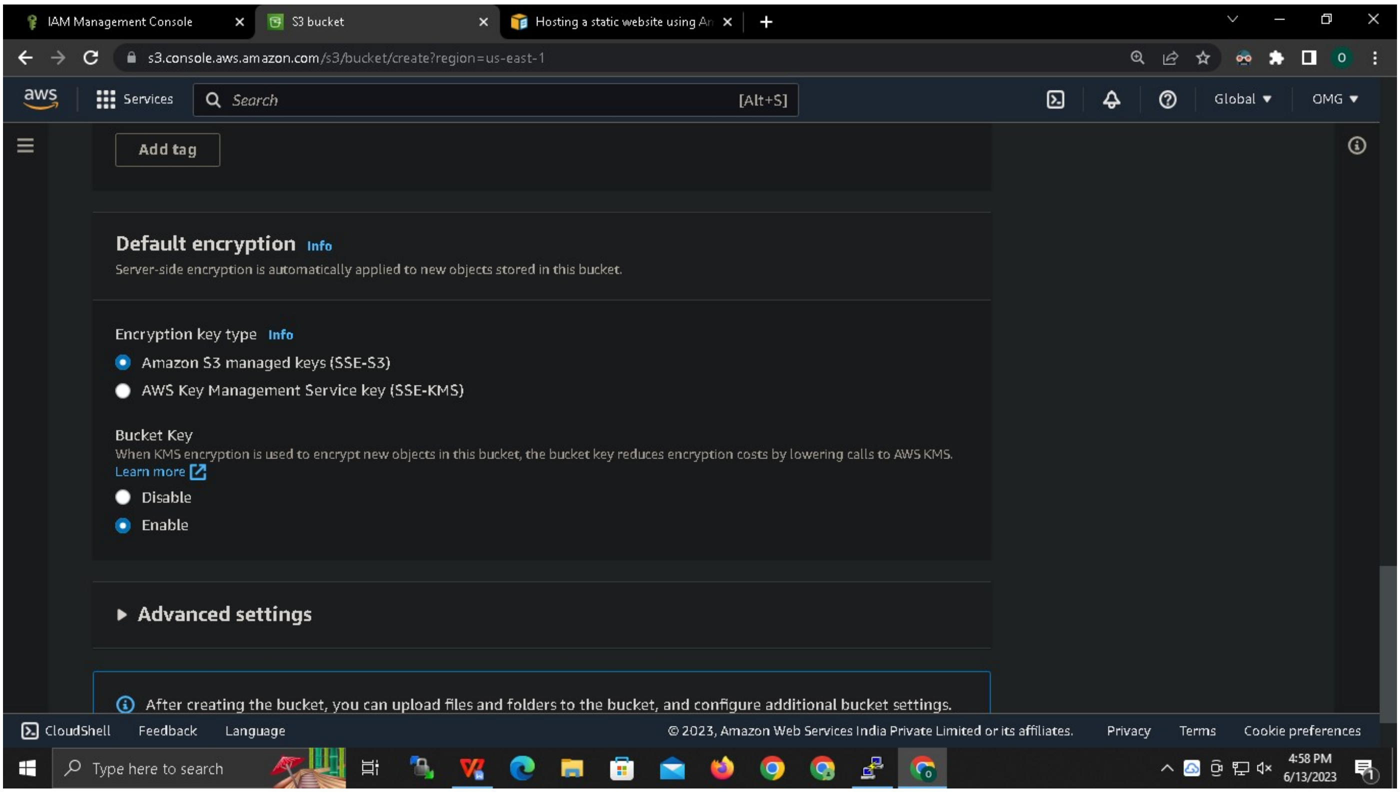
US East (N. Virginia) us-east-1

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.



Default encryption Info

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption key type Info

● Amazon S3 managed keys (SSE-S3)

○ AWS Key Management Service key (SSE-KMS)

Bucket Key

When KMS encryption is used to encrypt new objects in this bucket, the bucket key reduces encryption costs by lowering calls to AWS KMS. Learn more

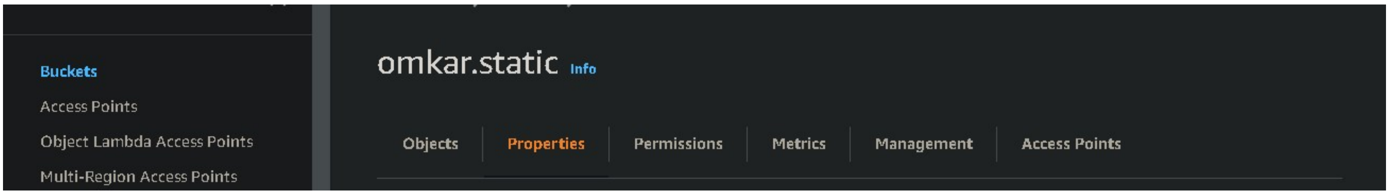
○ Disable

● Enable

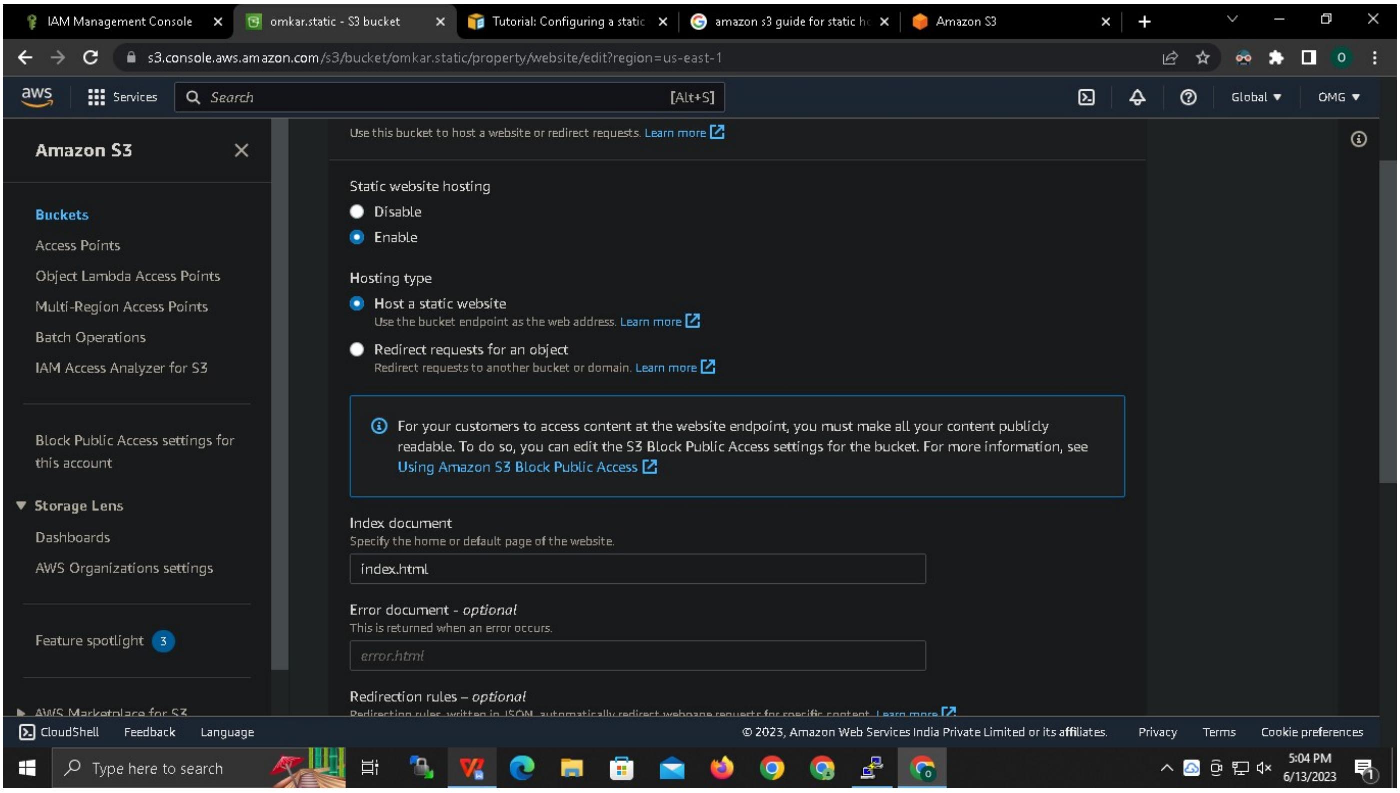
▸ Advanced settings

After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Go to properties :



Edit static web hosting :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omkar.static - S3 bucket
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Object Lambda Access Points
Multi-Region Access Points
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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*

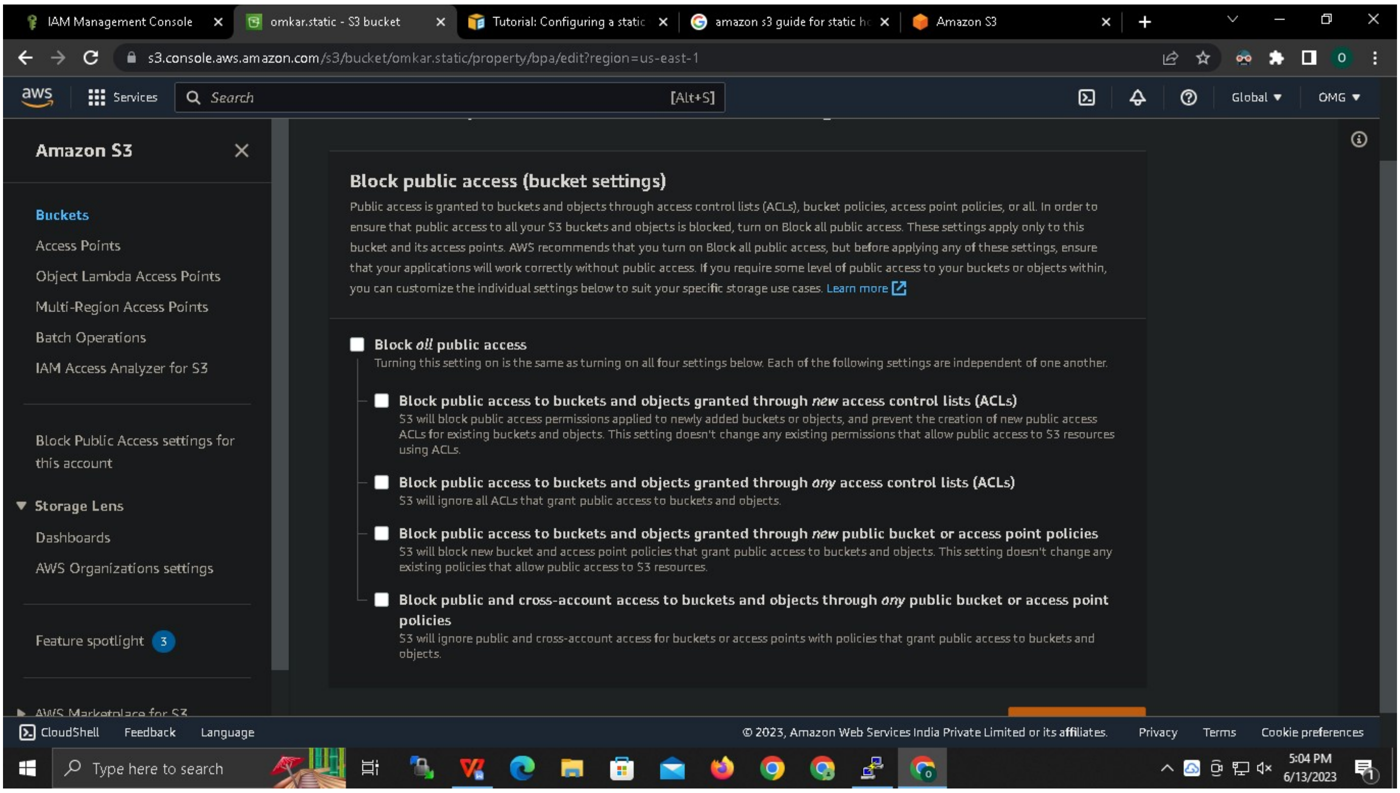
This is returned when an error occurs.

error.html

Redirection rules – *optional*

Redirection rules, written in JSON, automatically redirect webpage requests for specific content. Learn more

Edit Block access list :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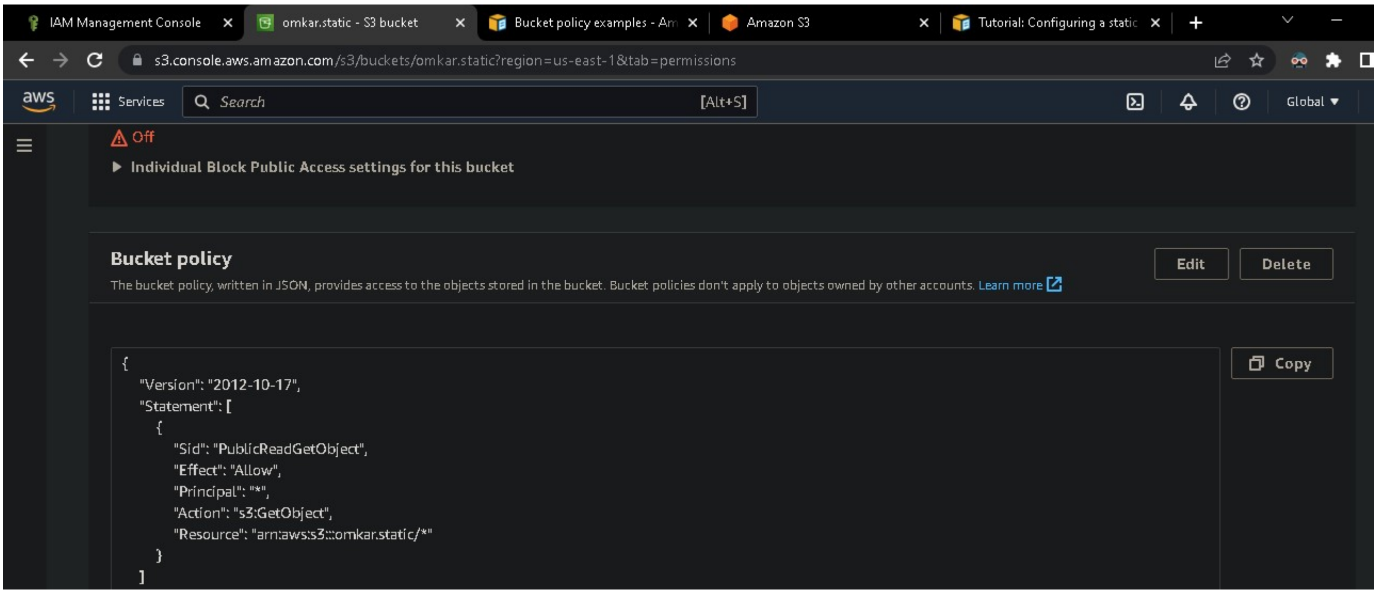
Block public access (bucket settings)

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.

Edit bucket policy Json: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omkar.static - S3 bucket
Bucket policy examples - Am
Amazon S3
Tutorial: Configuring a static
s3.console.aws.amazon.com/s3/buckets/omkar.static?region=us-east-1&tab=permissions
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⚠ Off

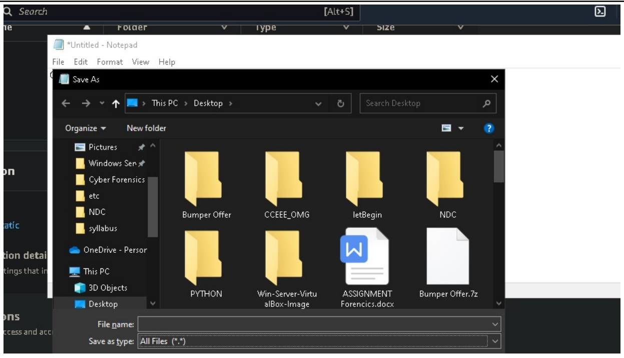
▶ Individual Block Public Access settings for this bucket

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

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

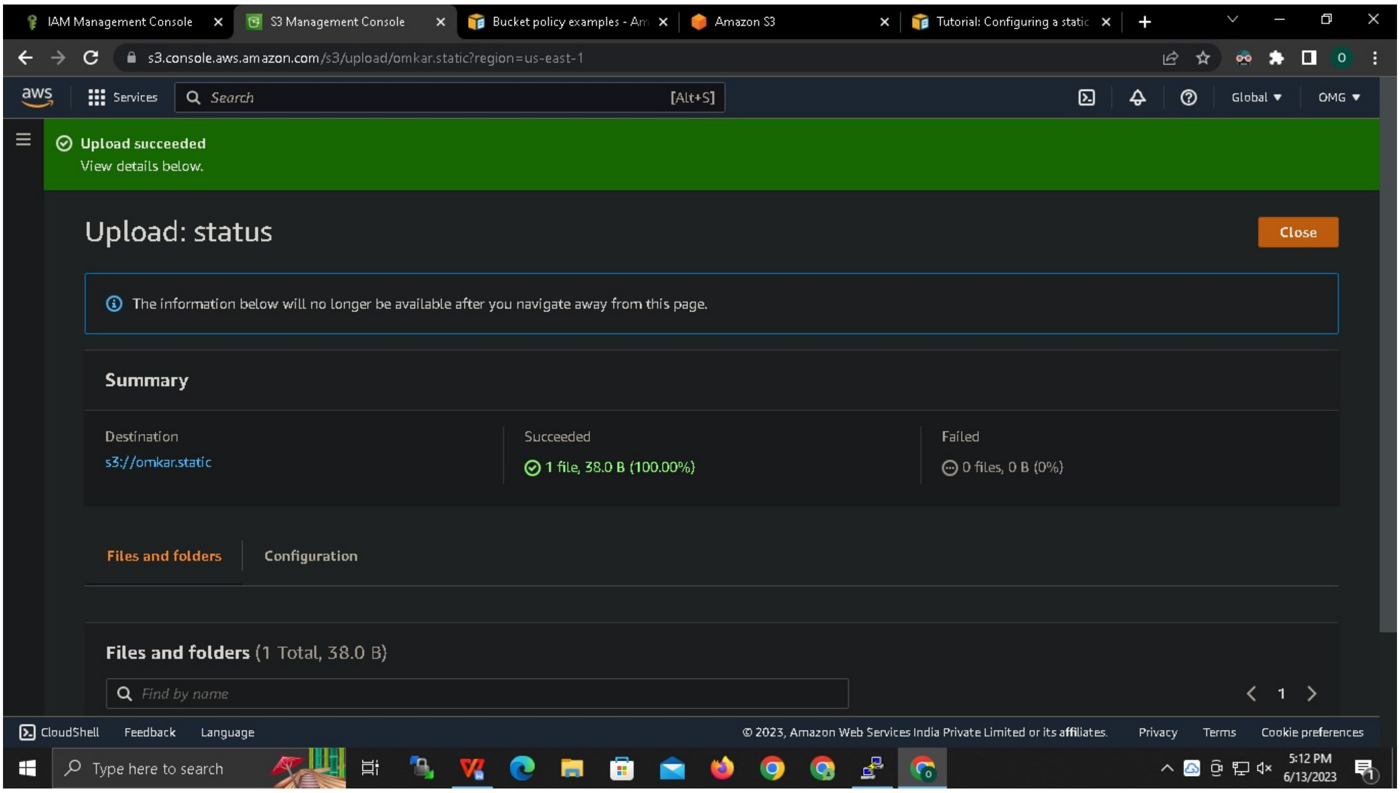
Create index.html file on desktop:



File name:

Save as type: All Files (*.*)

Upload Index file :



s3.console.aws.amazon.com/s3/upload/omkar.static?region=us-east-1

Upload succeeded
View details below.

Upload: status

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

Summary

Destination
s3://omkar.static

Succeeded
1 file, 38.0 B (100.00%)

Failed
0 files, 0 B (0%)

Files and folders | Configuration

Files and folders (1 Total, 38.0 B)

Find by name

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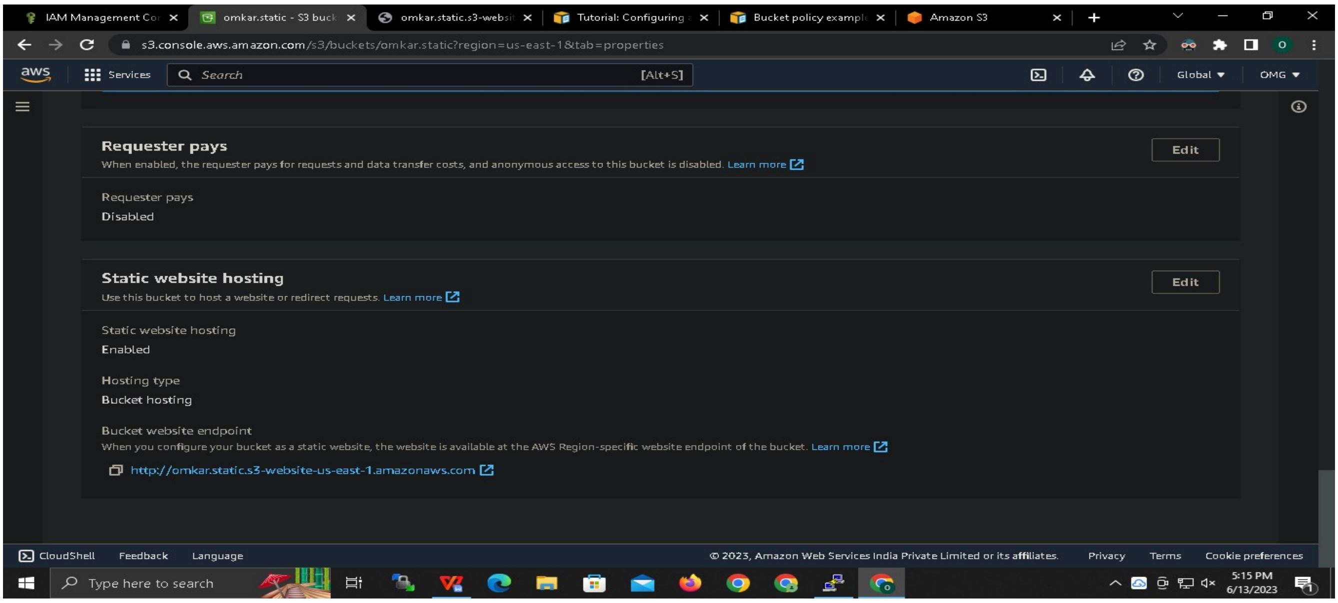
Test your endpoint



s3.console.aws.amazon.com/s3/buckets/omkar.static?region=us-east-1&tab=properties

Requester pays
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
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://omkar.static.s3-website-us-east-1.amazonaws.com

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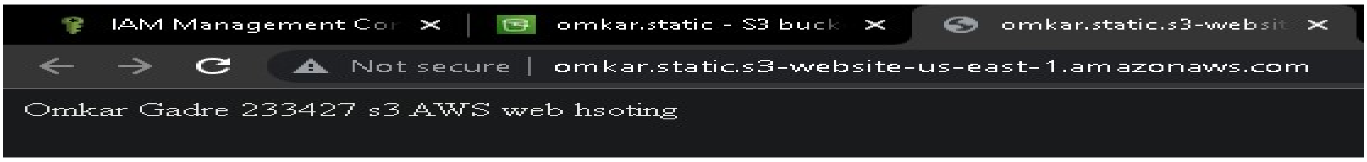
Tested:



Omkar Gadre 233427 s3 AWS web hsoting

Amazon has purchased computers and is not renting it to us the major advantages of it are dat privacy and security , no maintanence is required , faster data recovery and provided high chances to do scalabality , reduces cost as well as cost / hour ,and even server crashes it can be relocated easily ,aws has their website which is a frontend for us .

A entreprenuer haves an idea he devlops and application and code and worries as he wants server to host that but there came a aws for his help , In aws if you host a website you play for hour u used not for monitoring or maintanence . if your site gets a hit on aws you have to just upgrade your plan with aws you can also setup auto upgrading policy example earlier 100 customers were able to access easily but customer have increased hence you need to create server aws will automatically creates a load balancer server . even if workload got decreased below the threshold value then automatically a server wil come down hence manually we don't bother its all work about aws .
Netflix is on AWS amazing : they don't have servers their dalal is aws .
Before aws : maintanece expenditure data privacy scalability and flexibility :
After aws : all this problem solves

Pay as you go
Facts :
Largest companies nasa , NETFLIX also uses aws they generate 60 % profit from it . if companies like netflix can use why cant our startup ,
Other : azure , vmware , alibaba cloud . google cloud .

EC2:
Elastic compute cloud the most popular service , they provide a service where we can host a code it's a virtual machine server , they also provide location based server , we also have liberty to scale a ec2 server as well , (autoscaling)

RDS: relational database service : amazon aurora mariadb sql my sql and oracle :

We shall get port number we will have localname and host 3306 is for mysql :*amazon aurora* is cluster of multiple database :

Storage service : amazon s3 simple storage service its an object storage service its like a google drive , its abucket service we just throw objects in that and when we want take it out , Cloud front : content delivery network : youtube stores its videos in cdn and when we try to access video the request go to edge location ex asia , africa and these location are all connected to origin server which provides information .

Security service IAM : identity access management it allows us to access authorised person itself :

Cloud formation : we can code whole infra in one file and when we upload and run it will create whole infra for us < it is written in json

All the resources you require in an application can be deployed easily using templates. Also, you can reuse your templates to replicate your infrastructure in multiple environments. To make templates reusable, use the parameters, mappings and conditions sections in the template so that you can customize your stacks when you create them. Cloud formation is easy way to deploy infrastructure easily with the help of template.

Elastic benstalk : create a web app cant acts a server it can only host applicationjust upload code and bingo

Lambda : it cant host wesbite its just run code
EC2> elastic benstalk > lambda , serverless computing, it saves cost as devloper don't need to pay for failed code.

Storage :
Amazon s3 ->> object storage service , more distributed the application more is the fault tolerance , file storage system which assures availability of 99.99….11 . we can also take backup , rather than storing images on actual server we can store images here and site at actual server .

Glacier : it also takes backup of files , in s3 we can get object instaneously while glacier takes time to retrieve file and its very cheap for backup 1/10th of cost , its is primarily used fo r backup ,

Amazon efs : elastic file system , it can be mounted on any operating system if we have multiple server handling our website and we wannt data to be same hence we will use EFS for it which can be mounted on os . it acts a sa share drive >

Storage gateway : it allows to connect on premise storage system to aws :

Json -> java script object notation -> use for parsing and storing and inter operabality .

Bamboo s also for continous integration