Project 2

Deploy a Static Website on AWS

In this project, we will learn how to create a static website and deploy it using AWS services. A static website is a site that consists of HTML, CSS, and JavaScript files, and it doesn't require server-side processing or a database

Lab Steps

Task 1: Sign in to AWS Management Console

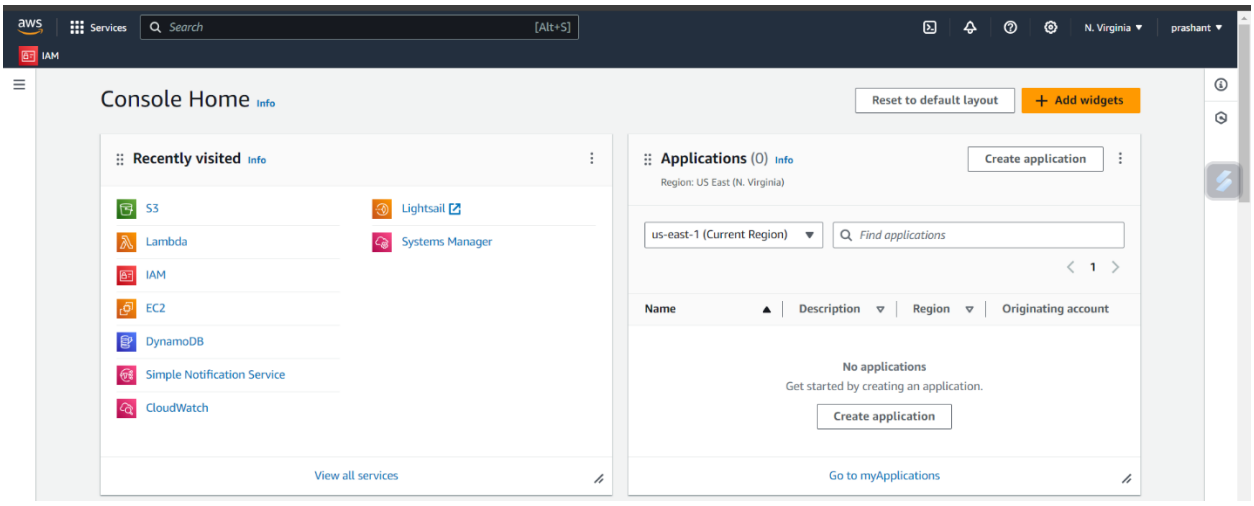
1. Click on the Open Console button, and you will get redirected to AWS Console in a new browser tab.

2. On the AWS sign-in page,

· Leave the Account ID as default. Never edit/remove the 12-digit Account ID present in the AWS Console. otherwise, you cannot proceed with the lab.

· Now copy your User Name and Password in the Lab Console to the IAM Username and Password in AWS Console and click on the Sign in button.

3. Once Signed In to the AWS Management Console, Make the default AWS Region as US East (N. Virginia) us-east-1.

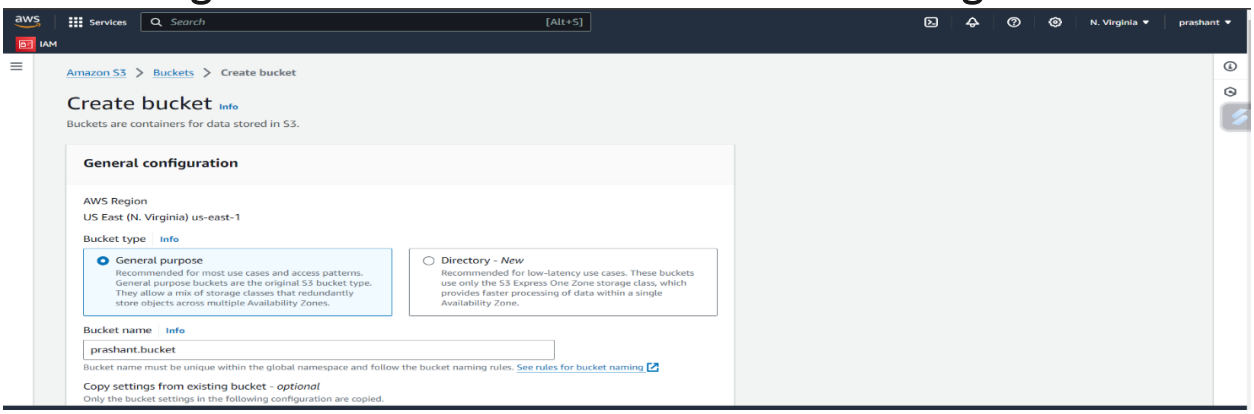


S3 BUCKET:

Amazon S3(Simple Storage Service) is a cloud-based storage service provided by AWS, it allows users to store and retrieve data over the Internet. it provides a scalable, reliable, and highly available storage

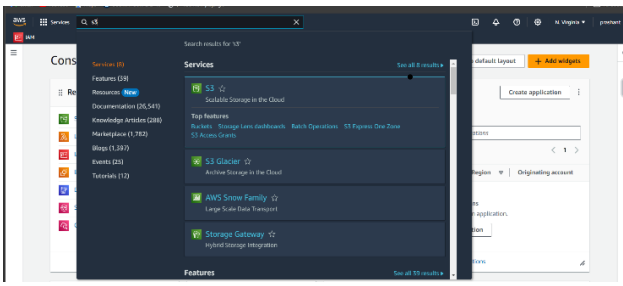
infrastructure for a variety of data types, including object storage, files, documents, and multimedia content.

1. Creating an S3 Bucket for Static Website Hosting

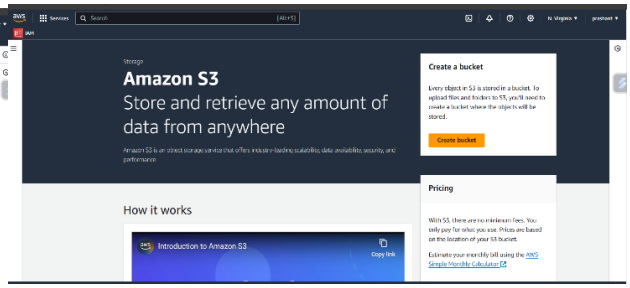


On your AWS console, search for S3, and on the S3 dashboard "Create bucket", enter a globally unique name for the bucket *as no two persons can use the same*, and specify your preferred region.

a. SEARCH S3



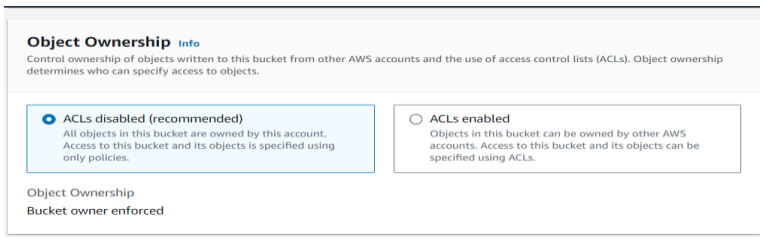
b. In the S3 dashboard, click on the Create Bucket button.



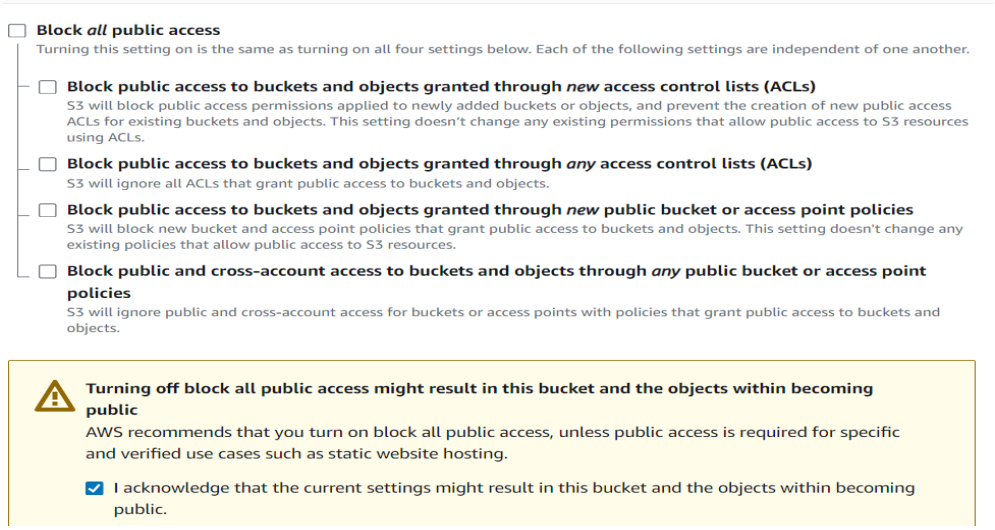
In the General Configuration, Bucket name: Enter prashant.bucket3

NOTE:

1. S3 Bucket names are globally unique, choose a name that is available. Maybe you can enter your name and create one.
2. AWS Region: Select US East (N. Virginia) us-east-1
3. Select ACLs disabled (recommended) option(default)



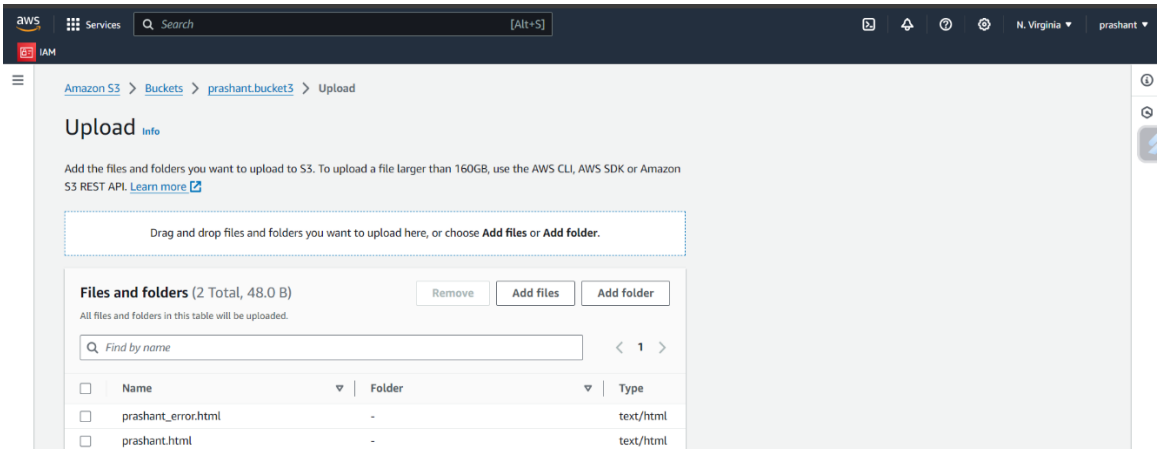
then uncheck the "block all public access" and check the acknowledgment, then leave the rest of the configuration as default.



NOTE: . Keep everything default and click on Create Bucket button.

2. Uploading Website Content to S3

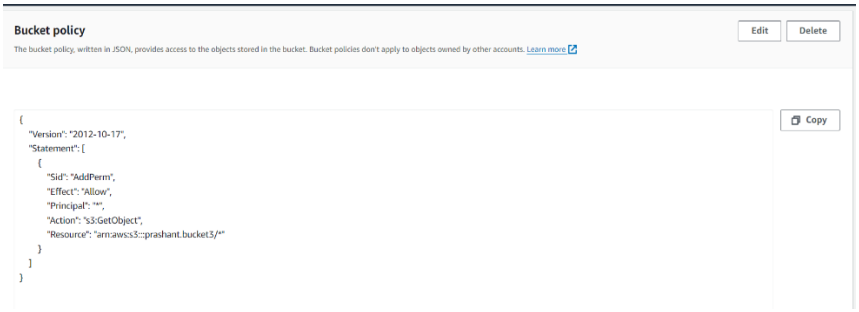
Click on your S3 bucket, click on Upload, then click on **" add files"**, Select and upload your website files(HTML files).



3. Configuring S3 Bucket Permissions for Website Access

Click on the permission tab in your S3 bucket, click on edit permission, and paste the below Json configuration:

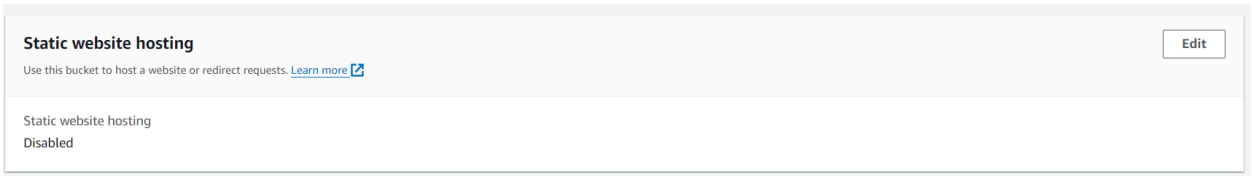
```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "AddPerm",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::prashant.bucket3/*"
    }
  ]
}
```

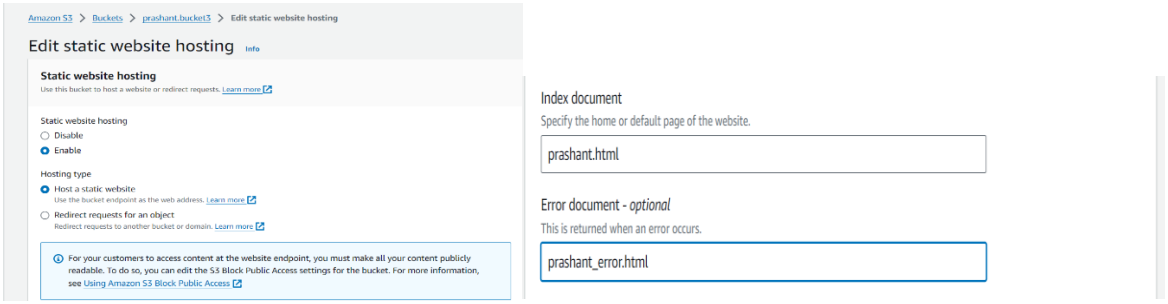


Replace the ***"prashant.bucket3"*** in the configuration with your bucket name and click on save.

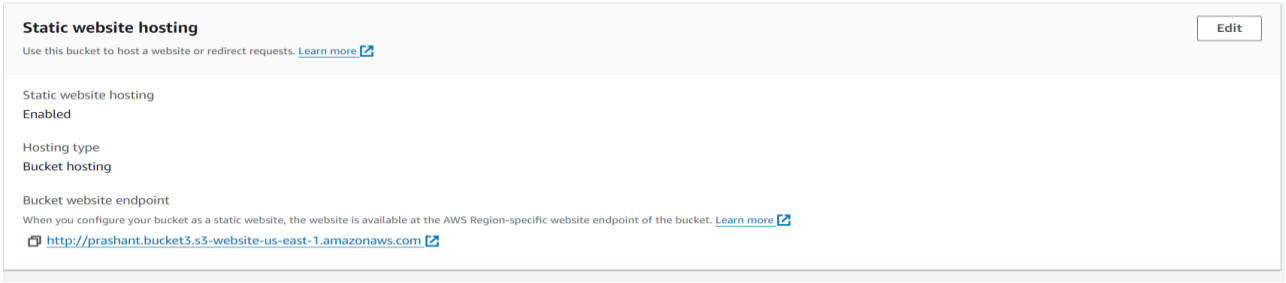
4. Enabling Static Website Hosting on S3

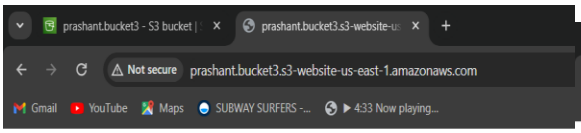
Click on the propriety Tab in your S3 bucket, scroll down to locate, and click on "static hosting", *by default it is disabled*, click on enable static hosting, follow the configuration in the snapshot, and save.



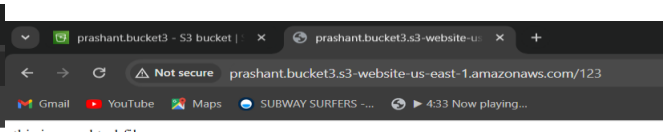


So we have successfully hosted our website in S3 so scroll down in properties and you would find a "Bucket website endpoint", copy it and paste it on your web browser and you can access your website.





this is index.html file



this is error.html file