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# Assignment No. 4

#### TITLE:

Deploy Web application using S3 Bucket (PHP/Python/Node js any application).

#### THEORY:

- What is Amazon S3?:
- 1. Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance.
- 2. Customers of all sizes and industries can use Amazon S3 to store and protect any amount of data for a range of use cases, such as data lakes, websites, mobile applications, backup and restore, archive, enterprise applications, IoT devices, and big data analytics.
- 3. Amazon S3 provides management features so that you can optimize, organize, and configure access to your data to meet your specific business, organizational, and compliance requirements.
- Features of Amazon S3:
- 1. you can store mission-critical production data in S3 Standard for frequent access.
- 2. save costs by storing infrequently accessed data in S3 Standard-IA or S3 One Zone-IA.
- 3. archive data at the lowest costs in S3 Glacier Instant Retrieval, S3 Glacier Flexible Retrieval, and S3 Glacier Deep Archive.
- 4. You can store data with changing or unknown access patterns in S3 Intelligent-Tiering, which optimizes storage costs by automatically moving your data between four access tiers when your access patterns change.

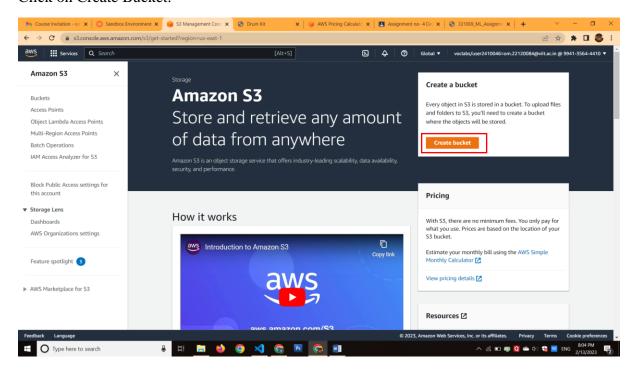
# • Step-by-step screenshot to upload web application on the cloud using S3 service:

Step 1: Create a bucket.

Go to AWS Management Console.

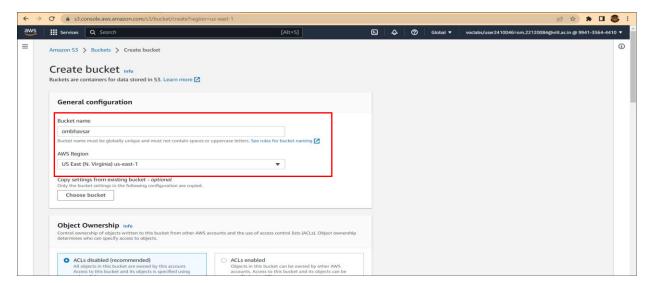
Search for S3.

Click on Create Bucket.

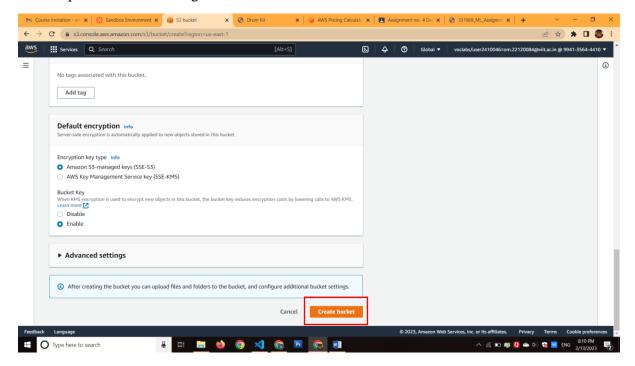


Enter the Bucket name.

Choose the Region where you want to create the bucket.



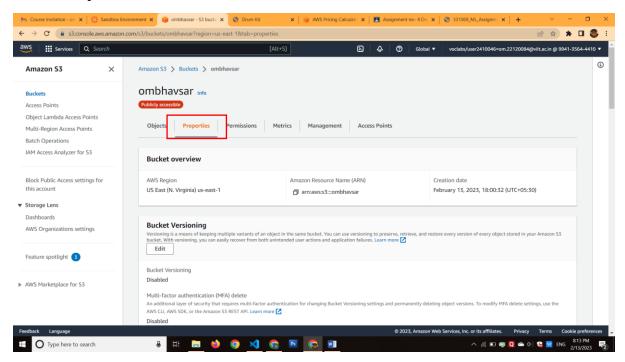
To accept the default settings and create the bucket, choose Create



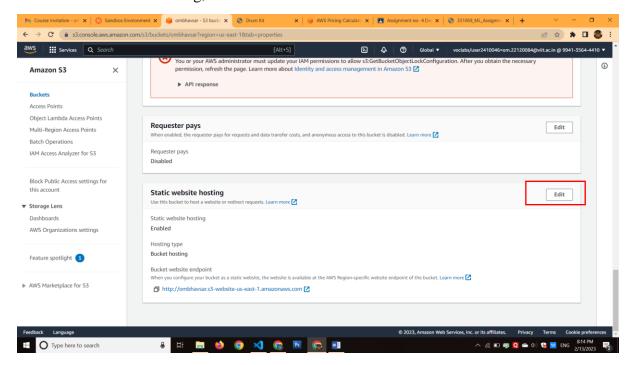
### Step 2: Enable Static Website Hosting.

In the Buckets list, click on the name of the bucket that you want to enable static website hosting for.

#### **Choose Properties**

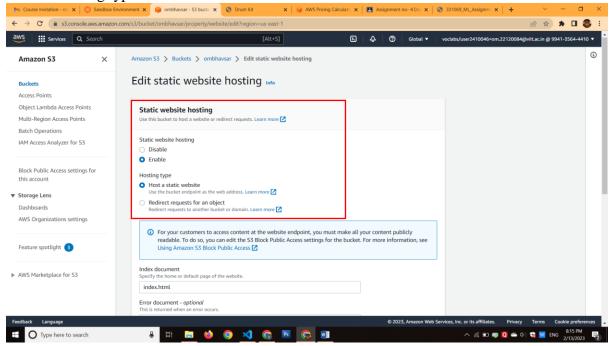


Under Static website hosting, choose Edit.

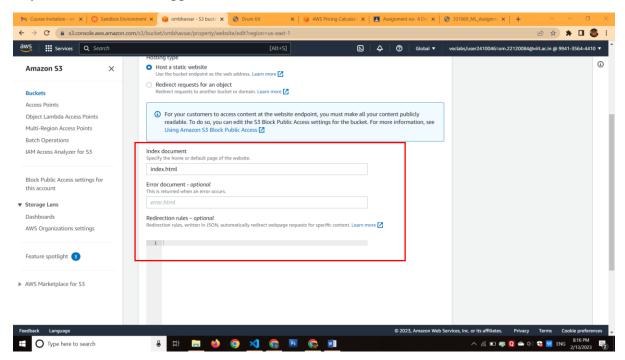


Under Static website hosting, choose Enable.

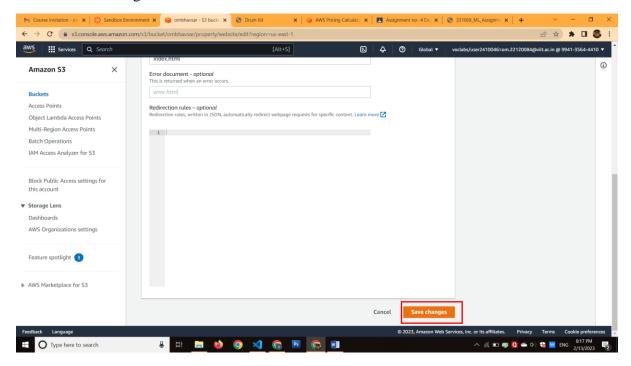
Choose hosting type as host a static website.



After enabling static website hosting, specify the index file of your project (the opening page of your website or web application).

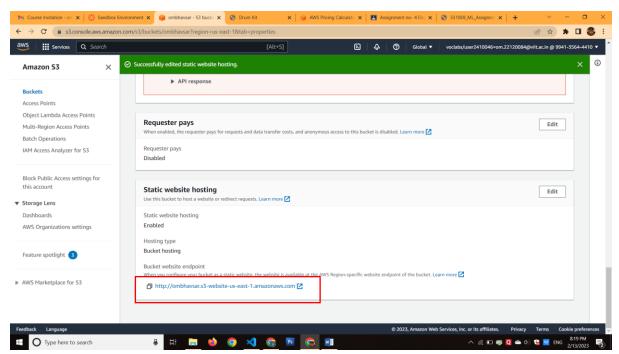


#### Choose Save changes.



Under Static website hosting, note the Endpoint.

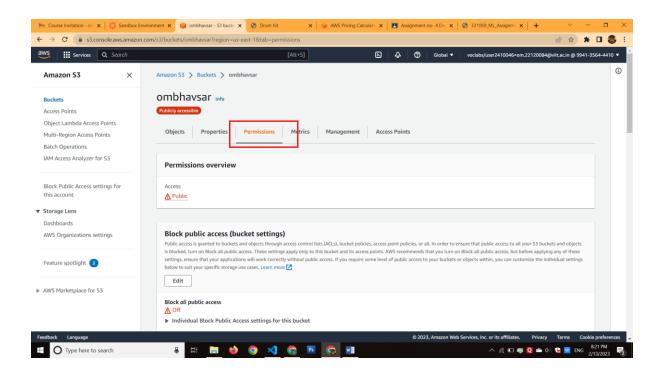
The Endpoint is the Amazon S3 website endpoint for your bucket. After you finish configuring your bucket as a static website, you can use this endpoint to test your website.



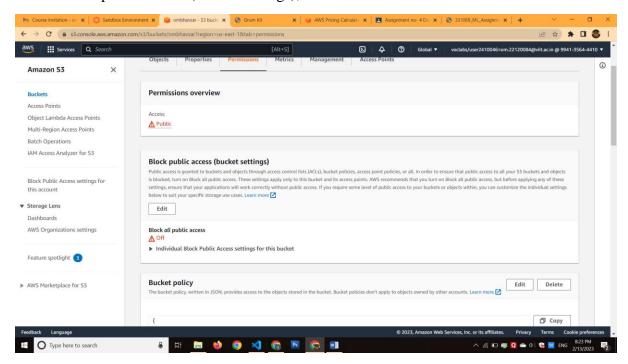
### Step 3: Edit Block Public Access settings

Choose the name of the bucket that you have configured as a static website.

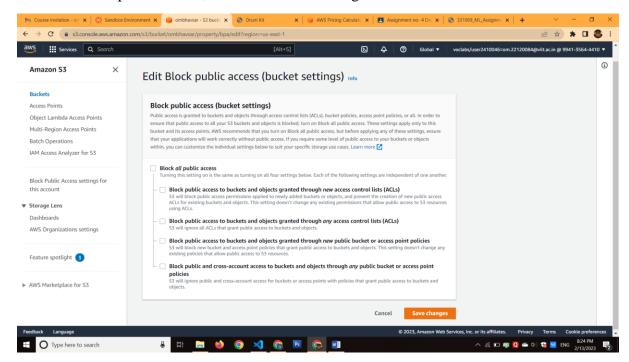
Choose Permissions.



Under Block public access (bucket settings), choose Edit.



### Clear Block all public access, and choose Save changes



Step 4: Add a bucket policy that makes your bucket contentpublicly available

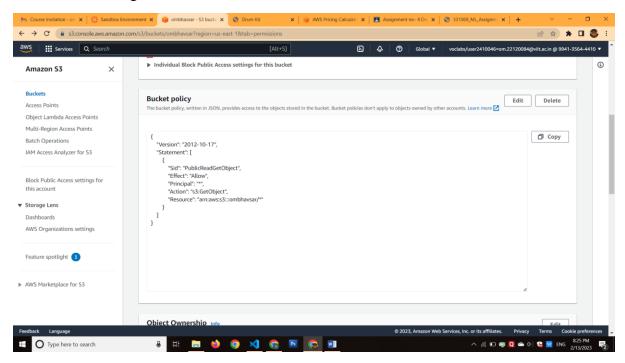
Under Buckets, click on the name of your bucket.

Choose Permissions.

Under Bucket Policy, choose Edit.

Make sure to replace "Bucket-name" with your S3 bucket name in the JSON policy.

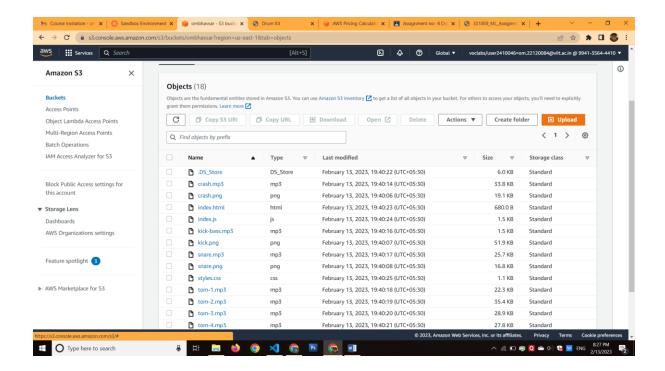
Choose Save changes.



Step 5: Upload Your Website to the S3 Bucket.

When you enable static website hosting for your bucket, you enter thename of the index document (for example, index.html) and name of the error document (for example, 404.html). After you enable static website hosting for the bucket, you upload an HTML file with this index and error document name to your bucket. In the Buckets list, choose the name of the bucket that you want to upload your folders or files to.

Under objects, Choose Upload.

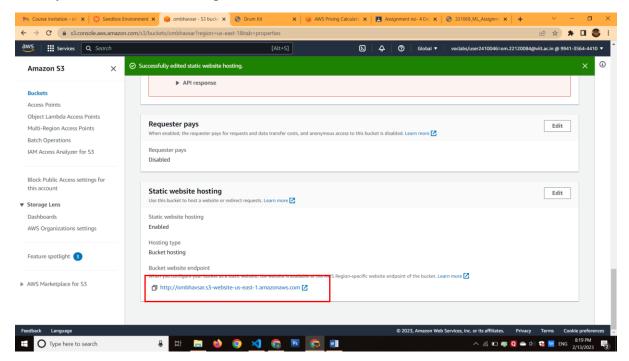


Step 6: Test your website endpoint.

Under Buckets, choose the name of your bucket.

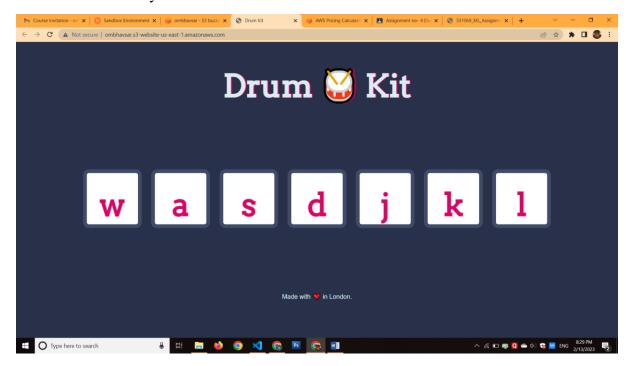
Choose Properties.

At the bottom of the page, under Static website hosting, click on the link under your Bucket website endpoint.



Your index document opens in a separate browser window.

You now successfully hosted a website on Amazon S3.



## Step 7: Clean up

Make sure the bucket is empty - You can only delete buckets that don't have any objects in them. Make sure the bucket is empty.

In the Buckets list, select the option next to the name of the bucket that you want to delete, and then choose Delete at the top of the page

