**PROJECT- 5:**

**AIM: Hosting a static website in AWS S3.**

S3 (Simple Storage Service):

* Amazon Simple Storage Service (S3) is a scalable cloud storage service provided by Amazon Web Services (AWS).
* It allows you to store and retrieve data from anywhere on the web. S3 is highly reliable, durable, and designed to provide 99.999999999% (11 nines) of data durability.

Here are some key features and concepts related to S3 in AWS:

* Buckets: A bucket is the fundamental container for objects stored in S3. It acts as a top-level folder or directory that holds your files. Each bucket has a globally unique name and is associated with a specific AWS region.
* Objects: An object is a file or piece of data stored in S3. Each object is uniquely identified within a bucket by its key (file name) and can be up to 5 TB in size.
* Access Control: S3 provides flexible access controls to manage the permissions and security of your data.
* S3 offers different storage classes to optimize cost and performance based on your data's access patterns.
* The storage classes include Standard, Intelligent-Tiering, Standard-IA (Infrequent Access), One Zone-IA, Glacier, and Glacier Deep Archive.

Working with S3

Steps:

1.First we need to create a S3 bucket so got S3 management console and click on create bucket.

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2.Provide a unique name for bucket.

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3.Grant the public access as we are hosting a static website globally.

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4.Disable versioning, bucket key and leave encryption as SSE-S3.

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5.Upon clicking on create bucket you can see our bucket has been created.

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6.As we are trying to host our website, we need to upload our files regarding website.

* upon selecting the bucket click on upload.

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7.Click on add files option to add files.

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8.After adding the files click on upload.

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9.You can see our files are uploaded successfully.

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10.Now go to properties as you scroll down you can see static website hosting.

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11.Enable the static website hosting and provide the index and error html pages.

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12.Select all the file and in action dropdown select make public using ACL. By doing this we can make all these public.

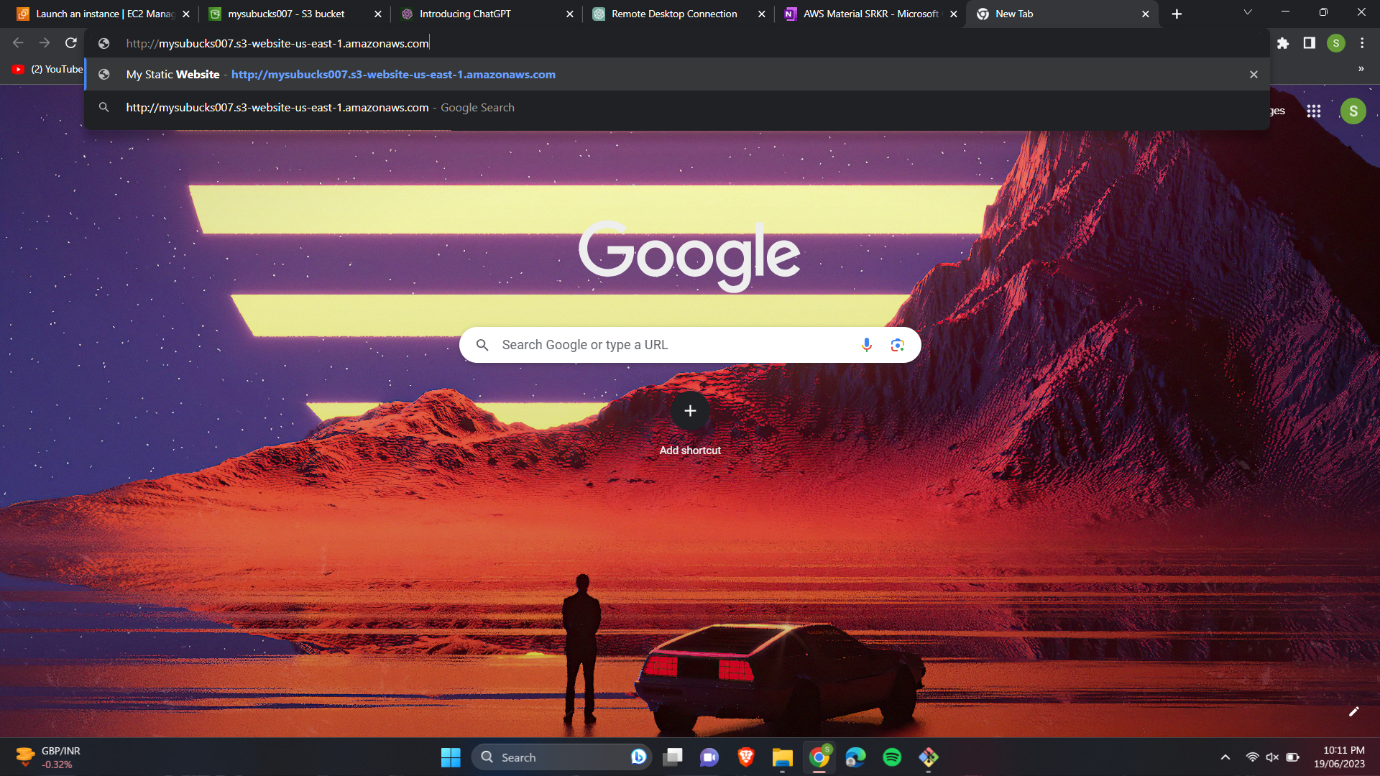
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13.You can see a link will be formed under static website hosting. This is used to access our website.



14.You can see our website.

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