## **INFOTRIXS TASK 1**

# Hosting a static website in AWS S3

### S3 service:

Amazon S3 (Simple Storage Service) is a highly scalable and durable cloud storage service offered by Amazon Web Services (AWS). It provides secure and reliable object storage for a wide range of data types, including documents, images, videos, and backups. S3 allows users to store and retrieve data from anywhere on the web, offering high availability, low latency, and seamless integration with other AWS services. With its simple and intuitive interface, users can easily create buckets to organize their data and set access controls to ensure data security. S3 also offers various storage classes, including Standard, Intelligent-Tiering, Glacier, and others, allowing users to optimize costs based on their specific data access patterns and requirements. Additionally, S3 provides features like versioning, lifecycle management, and event notifications to enable advanced data management and automation. Overall, Amazon S3 is a versatile and robust storage solution that allows businesses and developers to store, manage, and retrieve data at scale in a reliable and cost-effective manner.

### **Create a bucket:**

In Amazon S3 (Simple Storage Service), we create a bucket to provide a unique namespace or container for storing and organizing our data. Buckets act as top-level folders within S3, allowing us to group related objects and manage their access permissions and lifecycle policies. By creating a bucket, we gain the ability to store, retrieve, and manage vast amounts of data securely and durably in the cloud. Buckets serve as a fundamental building block of S3, enabling scalability, high availability, and easy management of data for a wide range of applications and services.

To create a bucket in S3 select the S3 service in Amazon Web services.

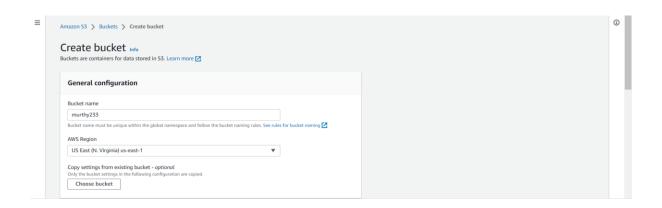


Now select create bucket option on the right side of the page.

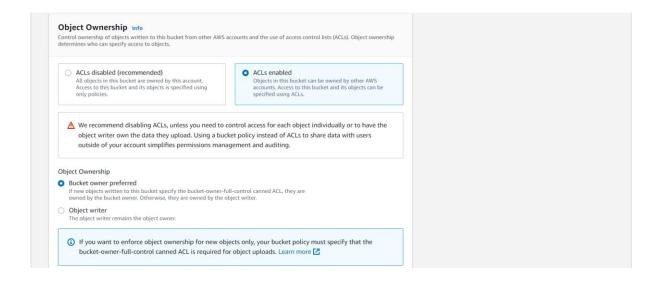


Enter the name of the bucket that should be globally unique.

<u>Note:</u> The bucket name can be between 3 to 63 characters long, and can contain only lower-case characters, numbers, periods, and dashes.

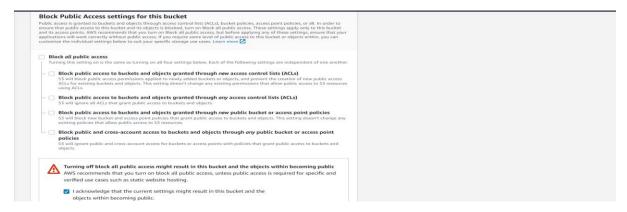


Select the object ownership as **ACLs enabled.** Then the objects in this bucket can be owned by other AWS accounts. Access to this bucket and its object can be specified using ACLs.



Now remove the **Block all public access** to 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

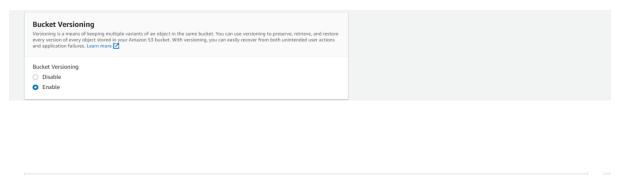
access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. And accept all the policies that you turned off the public access option.

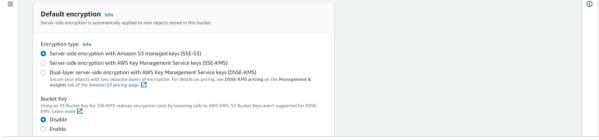


### Versioning:

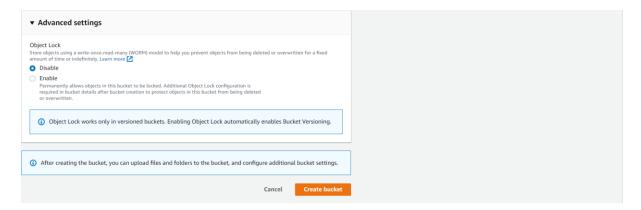
Versioning in Amazon S3 is a feature that allows you to keep multiple versions of an object within a bucket. Each time an object is updated or deleted, a new version is created, enabling easy retrieval of previous versions. This feature provides data protection and helps in recovering from both unintended user actions and application failures. Versioning can be managed programmatically or through the AWS Management Console, providing flexibility and control over object versioning in S3.

Enable the versioning option below.

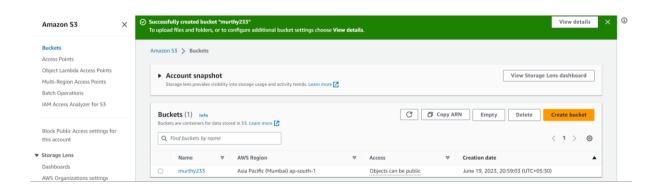




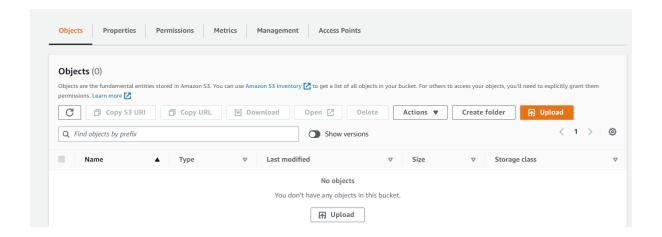
Then click on the **create bucket** option to create the bucket.



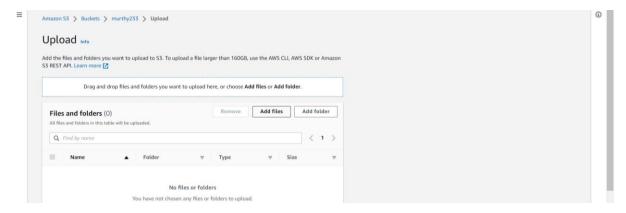
Now add the objects of anytype to the bucket for that click on the **bucket name** in **Buckets** .



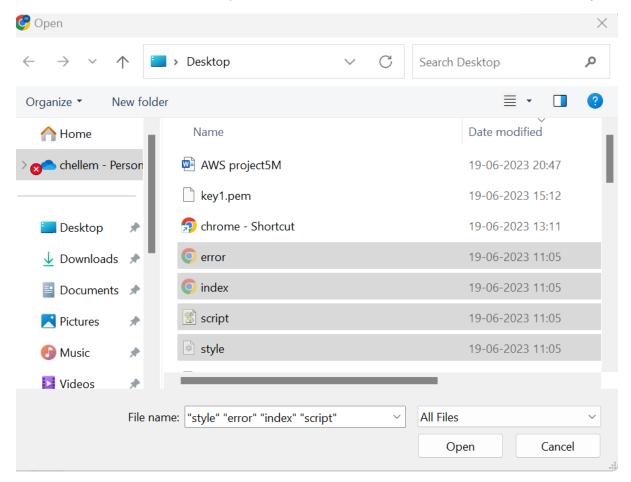
Now click on the **upload** button on the right side of the page.



Now click on the **Add files** it is redirected to the file Explorer to select the file that of any type.



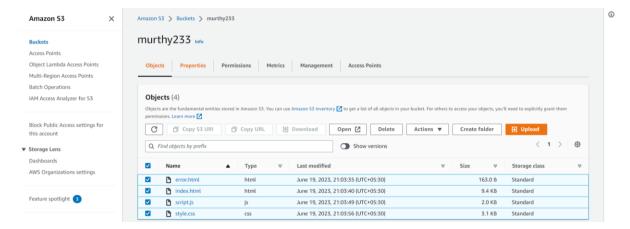
Now select the files from the File explorer that we want to add into the bucket and click on the open.



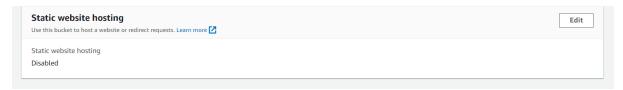
And then click on the **upload** button.



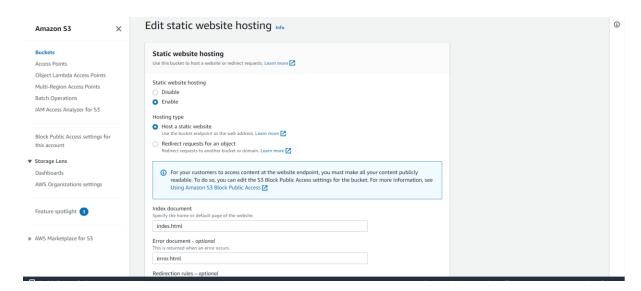
Enable Static website hosting: Now select the all files and click on the **properties** to enable the static website hosting.



#### Click on Edit option.



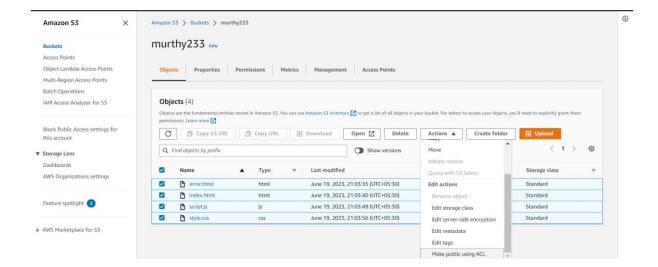
**Enable** the static website hosting and give the index document as **index.html** and error document as **error.html**.



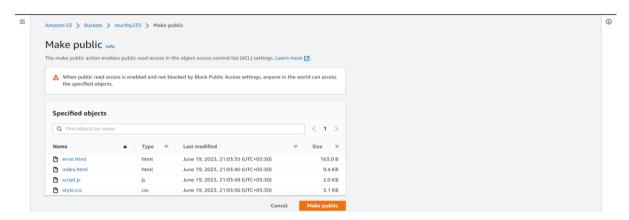
Now click on save changes to update the settings.



Now select all the objects in a bucket and go to Actions and select Make public using ACL.



And click on the Make public.



Now again select all the objects in a bucket and go to **Properties** and go to **statis website hosting**. And copy the **Bucket website endpoint**.



Now paste it on the another Tab in a Browser and click Enter.



Then the output will be as shown in below picture

# Café



The Café offers an assortment of delicious and delectable pastries and coffees that will put a smile on your face. From cookies to croissants, tarts and cakes, each treat is specially prepared to excite your tastebuds and brighten your day!



# About Us



Frank and Martha have been adding sweetness to their customers's lives since 2016. Both of them will personally greet you with a welcoming smile when you visit! Frank's recipes have been passed down from his mother and use simple and fresh ingredients to produce delightful flavors.

# Contact Us

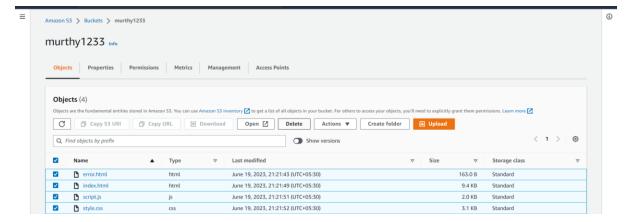


123 Sweet Tooth St. London SW1A 0AA, UK Tel: +44-12-12345678

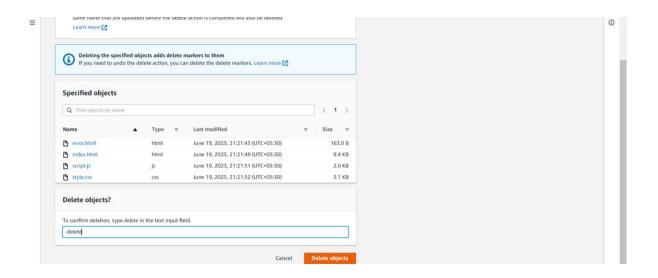
## Hours

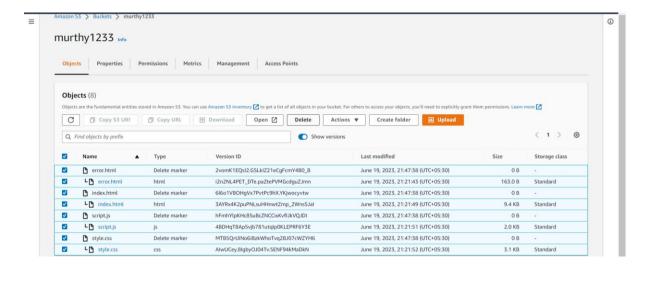
## Clean up:

<u>Object deletion:</u> select the objects in the bucket and click on the **delete** button.

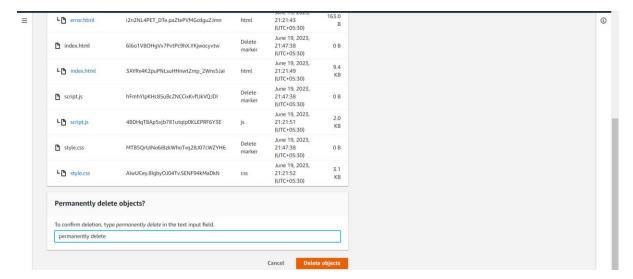


To conform deletion type **delete** in a given field. And click on the **Delete objects.** 

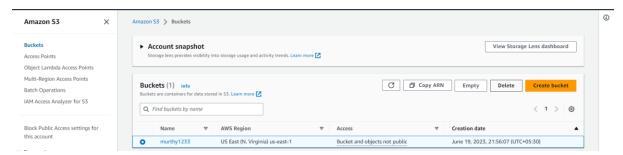




If we delete the objects it only delete the objects without versioning to delete the versioning objects enable the **show versions** and select all the objects and click on the delete button and to conform type **permanently delete** in the given field and click on the **Delete objects**.



**Bucket Deletion:** To delete the bucket select the bucket and click on the **Delete** option.



To conform deletion Enter the bucket name in a given field and click on the Delete bucket.

