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ROLL NO: 61

CLASS: D15B

ADVANCE DEVOPS

ASSIGNMENT – (1)

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⇒ Part 1 : To develop a website and host it on your local machine on a VM.

Part 2 : To host the website developed using AWS.

THEORY:

XAMPP is a cross-platform web servers that is free and open-source. XAMPP is a short form for Cross platform, Apache, MYSQL, PHP and Perl. It allows programmers to write and test their code on a local machine.

It is a multi cross-platform, which implies it works on both windows and Linux. With a single command, you may start and stop the entire web servers and database stack.

Components of XAMPP :-

- Cross-platform
- Apache
- MariaDB database
- PHP
- Perl
- phpMyAdmin
- OpenSSL
- XAMPP Control Panel
- Webalizer
- Mercury
- Tomcat
- FileZilla

XAMPP is simply a local host or server that is used to test clients or websites before publishing them to a remote web server. This method might sometimes help you avoid issues on your live websites.

AWS (Amazon Web Services)

It is a comprehensive, evolving cloud computing platform provided by Amazon that includes a mixture of infrastructure as a service, platform as a service and packaged software as a service offerings. AWS services can offer an organization tools such as compute power, data

AWS services include:-

- Storage databases
- Data management
- migration
- Networking
- Cloud
- Securing
- Artificial Intelligence
- Development tools
- Analytics.

A web hosting service is a type of Internet hosting service that hosts websites for clients ie it offers the facilities required for them to create and maintain a site and makes it accessible on world wide web. Companies providing web hosting services are sometimes called web hosts.

AWS is designed to allow application providers, and vendors to quickly and securely host your applications - whether an existing or new application. We can use the AWS management console or well documented web services APIs to access AWS's application hosting platform.

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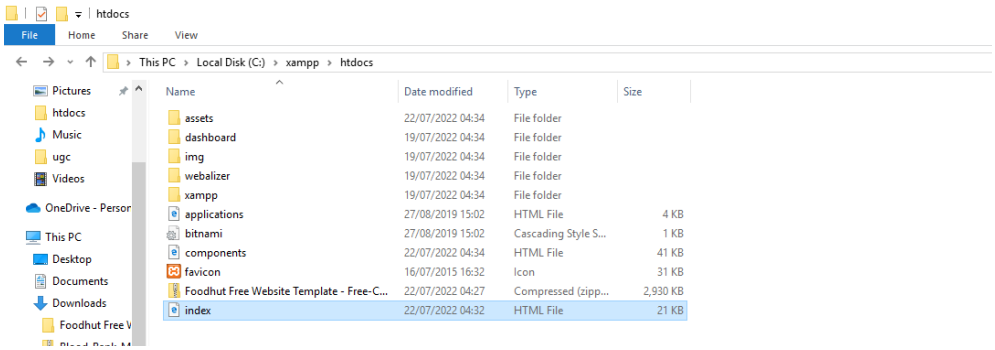
Assignment 1

Part 1 : To develop a website and host it on your local machine on a VM

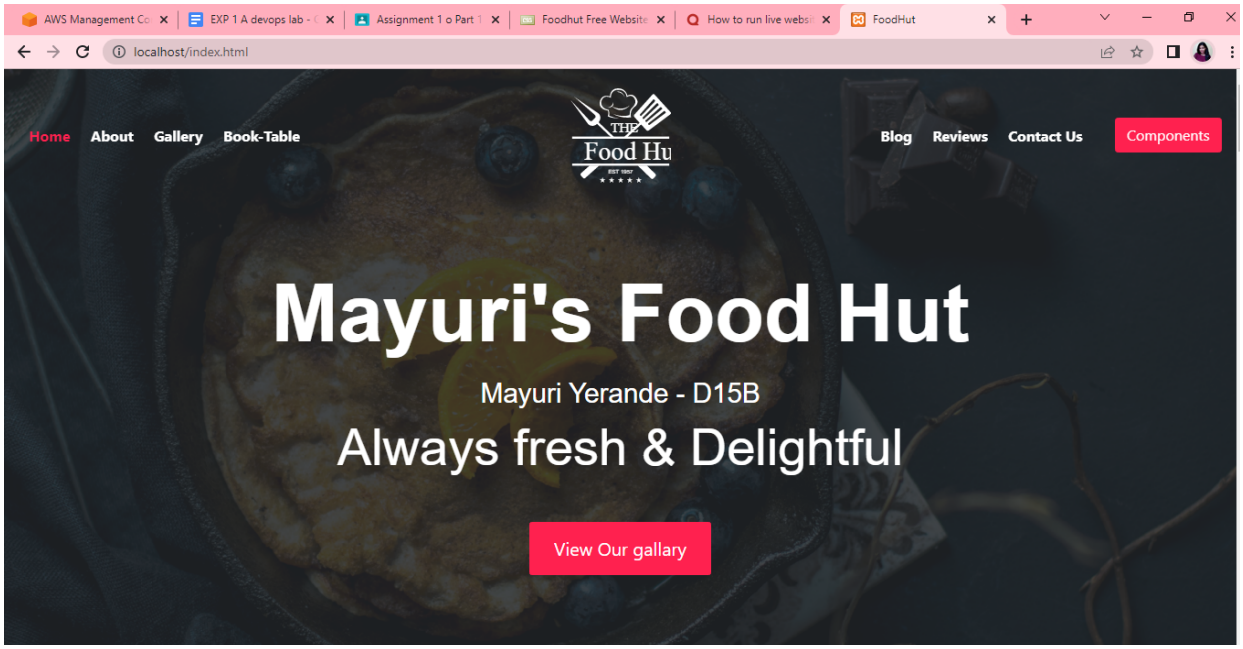
STEPS:

1. **Turn on 'Apache' and 'MySQL' on your Xampp.**

2. **Write your web page in notepad and save it in c:\xampp\htdocs (C or whatever drive it exists in).**

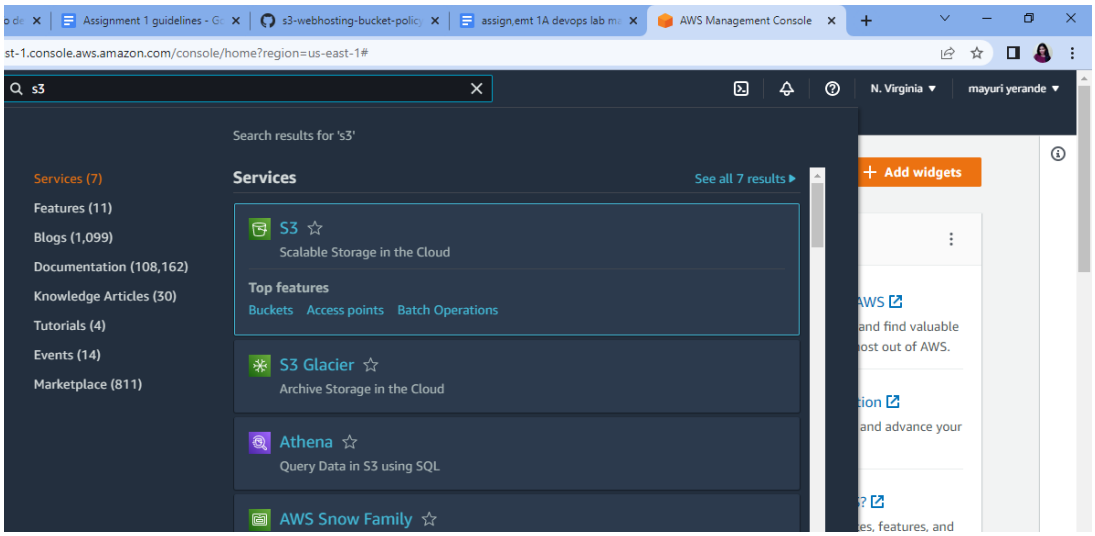


3. **My webpage's name is index.html**
4. **Open your web browser. Type localhost\index.html in your URL box.**

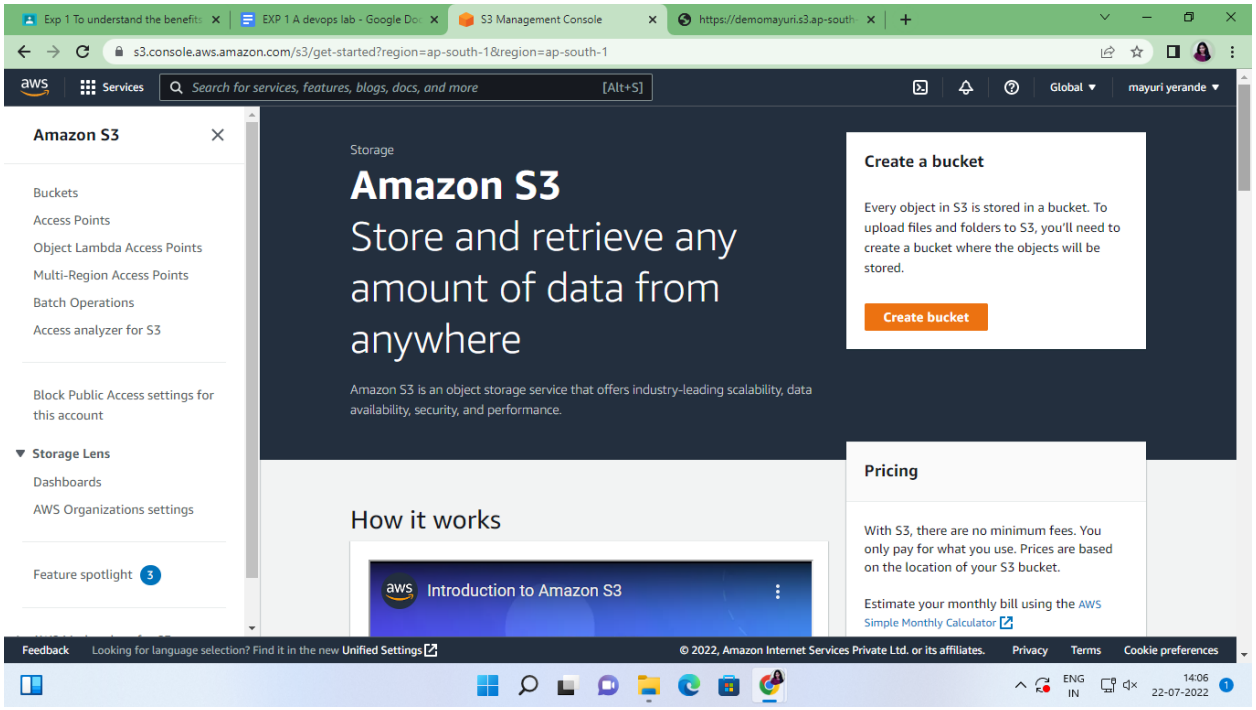


Part 2 : To host the website developed as part 1 of Assignment 1 using AWS.

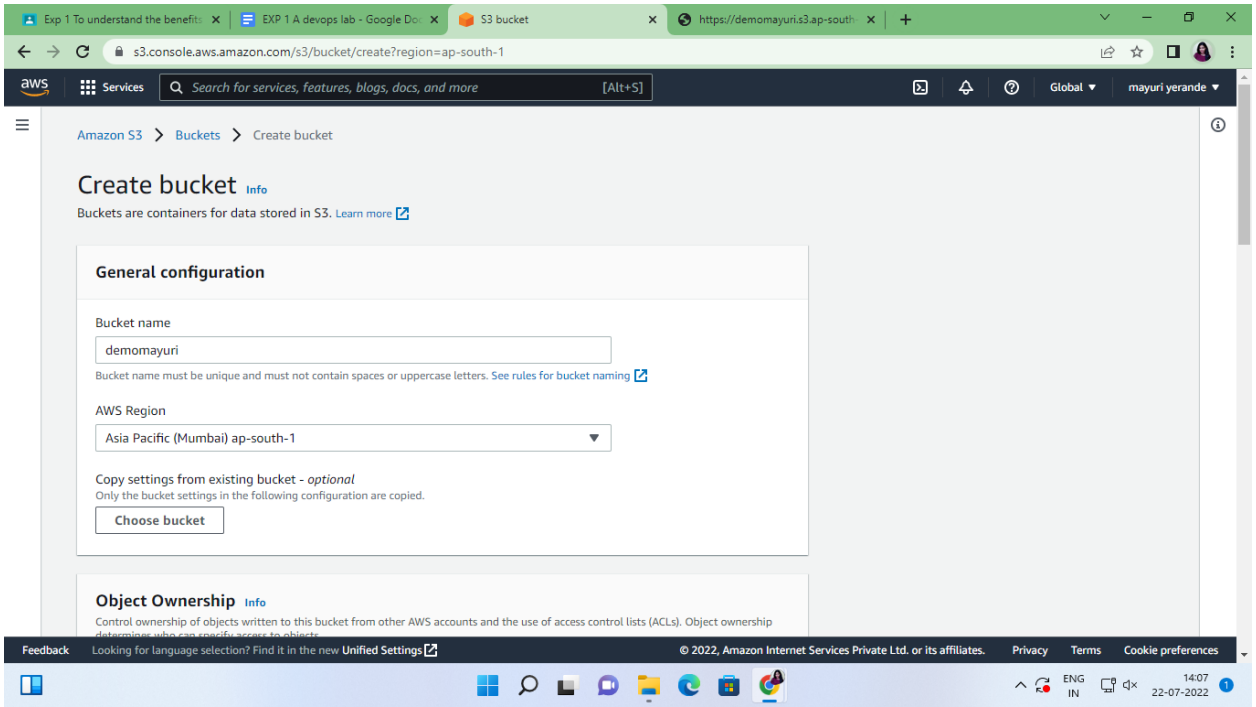
1. ## Search “S3” on your AWS account



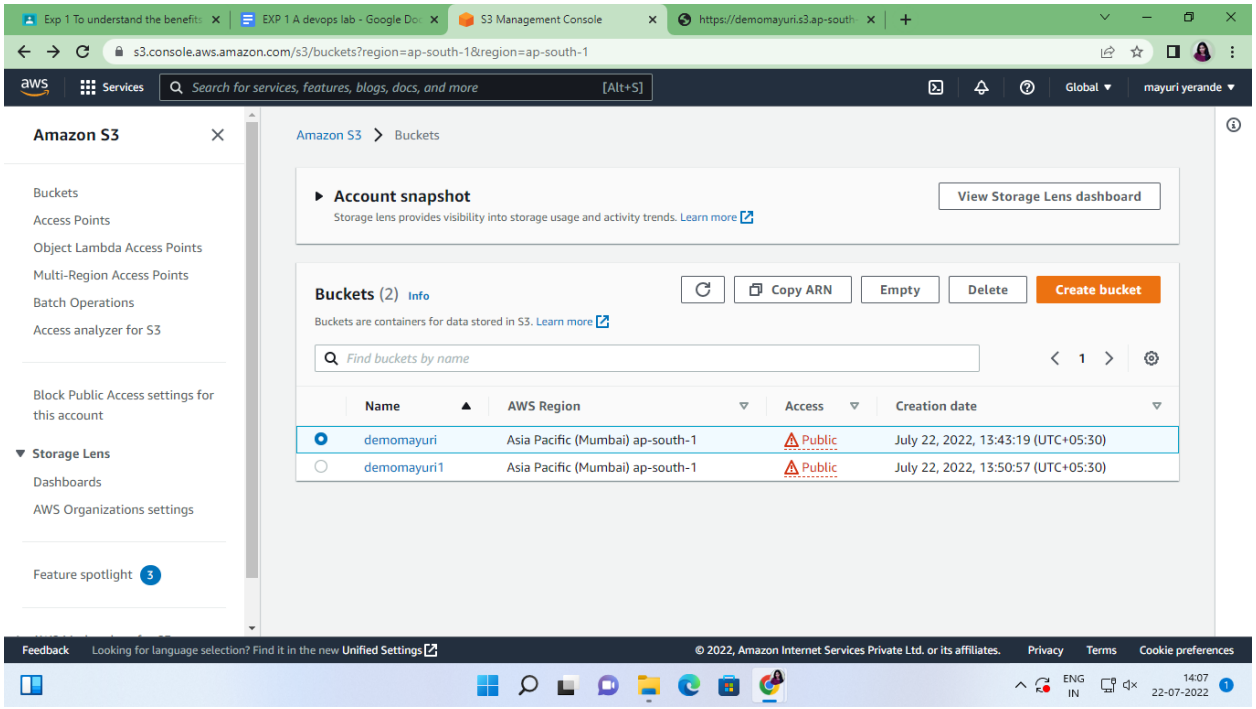
2. Click on “Create Bucket” to Create a bucket.



3. Name Your bucket.



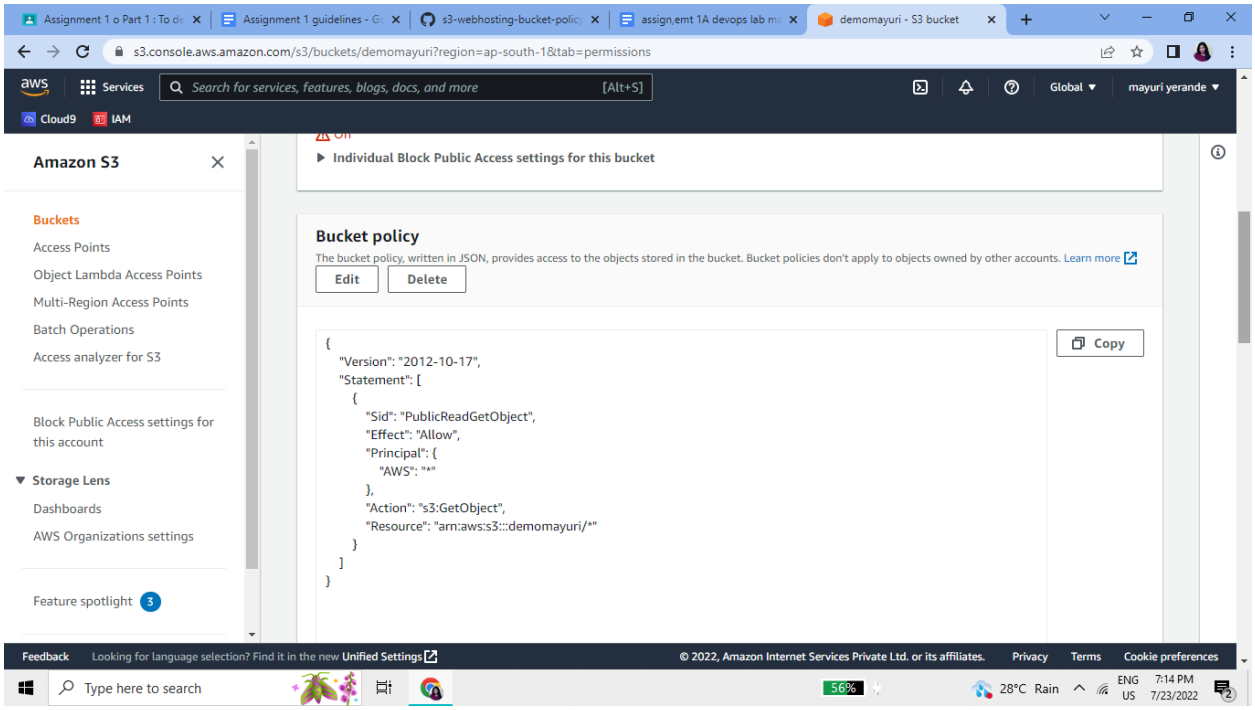
4. Now the Bucket is created.



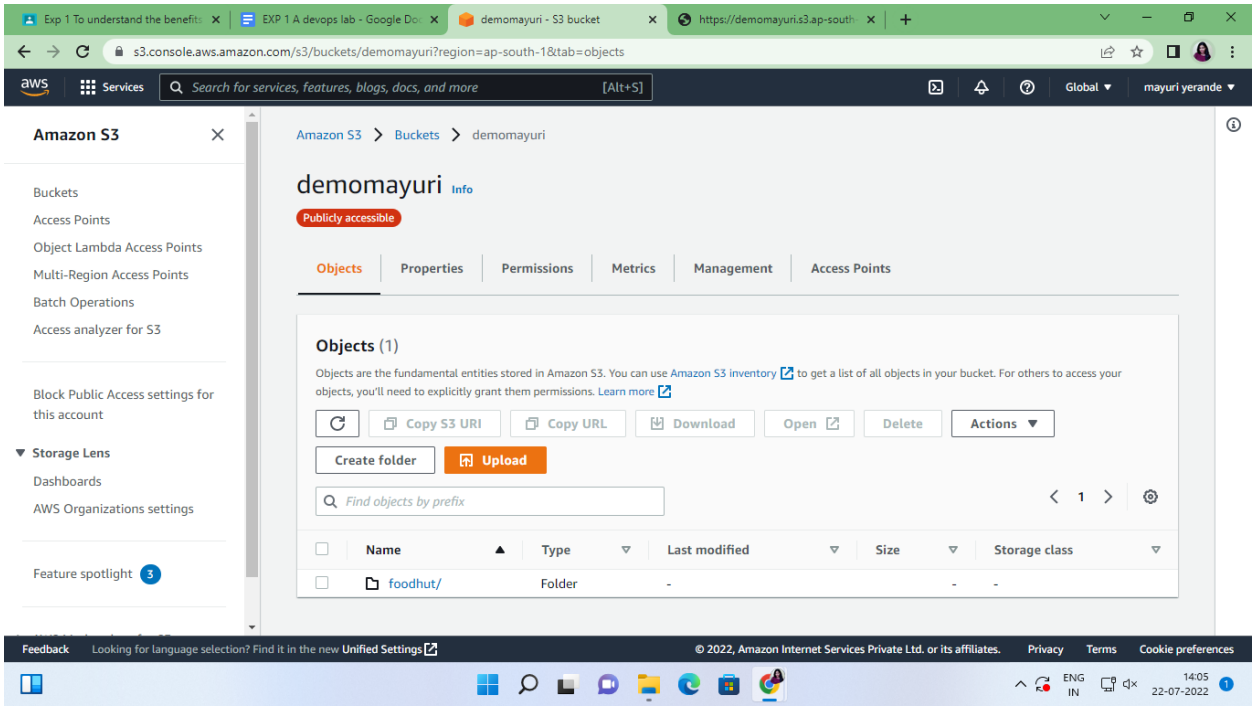
5. **To make our website publicly visible. You need to make your s3 bucket public.**
6. **Go to permissions. Paste this code in “Bucket policy”.**

Code:

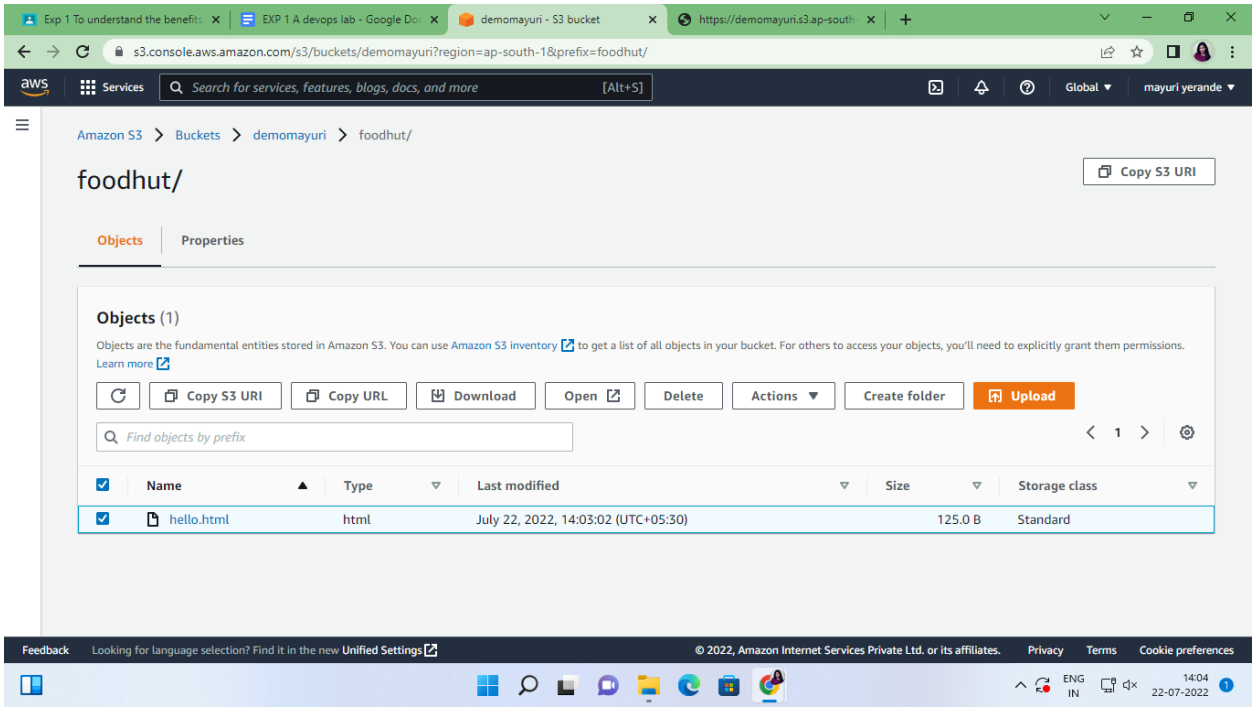
```
{
        "Version": "2012-10-17",
        "Statement": [
          {
            "Sid": "PublicReadGetObject",
            "Effect": "Allow",
            "Principal": {
              "AWS": "*"
            },
            "Action": "s3:GetObject",
            "Resource":
"arn:aws:s3:::YOUR-BUCKET-NAME-HE
RE/*"
          }
        ]
        }
```



7. **Now your S3 bucket is public.**
8. **Upload your webpage files into the bucket via the "upload" button.**



9. **The files are uploaded. (My hello.html file is now uploaded)**
10. **Select the file and click on "copy URL" Button.**



11. **Paste the copied URL into the browser and You can see your page.**