

AWS_3(assignment)

Host Static Website in S3 Bucket

Harini

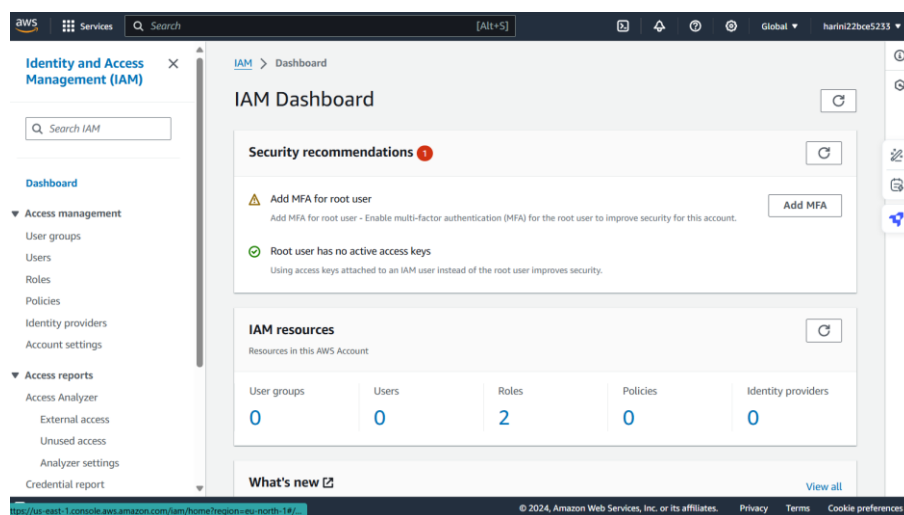
22BCE5233

AIM:

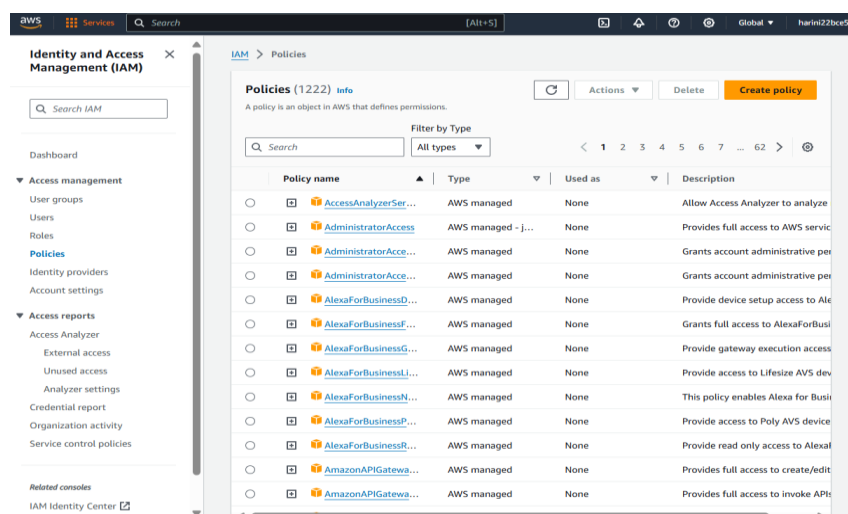
To create an IAM policy, user, and assign a policy to a group of users, and access an S3 bucket to host a static website.

PROCEDURE:

Navigate to the IAM Dashboard



Create a policy by navigating to policies page in Access Management



Edit the policy with the given JSON code

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "s3:ListBucket",
      "Resource": "arn:aws:s3:::harini-bucket"
    },
    {
      "Effect": "Allow",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::harini-bucket/*"
    }
  ]
}
```

Give a name for the policy

The screenshot shows the AWS IAM console interface during the 'Review and create' step of a new policy. The left sidebar indicates 'Step 2: Review and create'. The main content area is titled 'Review and create' with a sub-header 'Review the permissions, specify details, and tags.'.

Policy details

Policy name
Enter a meaningful name to identify this policy.
HariniS3AccessPolicy
Maximum 128 characters. Use alphanumeric and '+', '@', '-', '_' characters.

Description - optional
Add a short explanation for this policy.
Policy to access the S3 bucket for the website.
Maximum 1,000 characters. Use alphanumeric and '+', '@', '-', '_' characters.

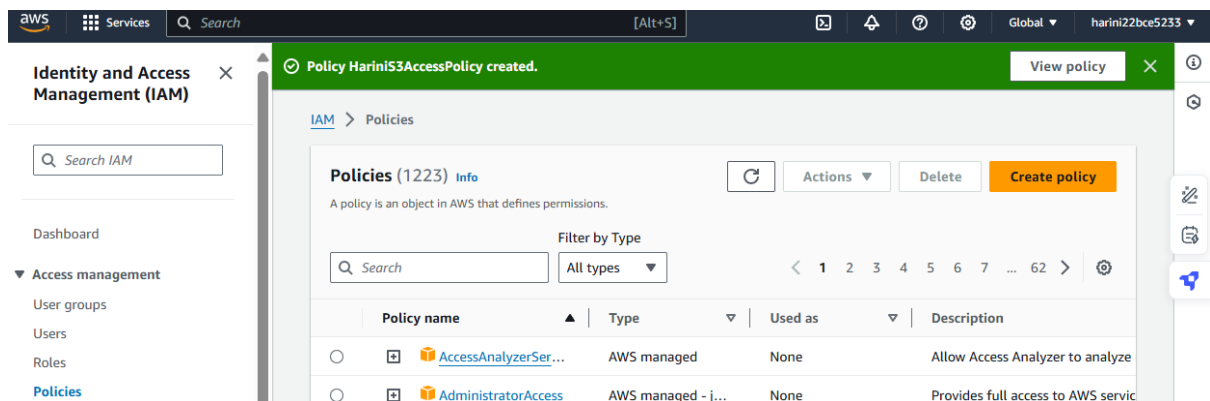
Permissions defined in this policy [Info](#) [Edit](#)

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it.

Allow (1 of 420 services) ☐ Show remaining 419 services

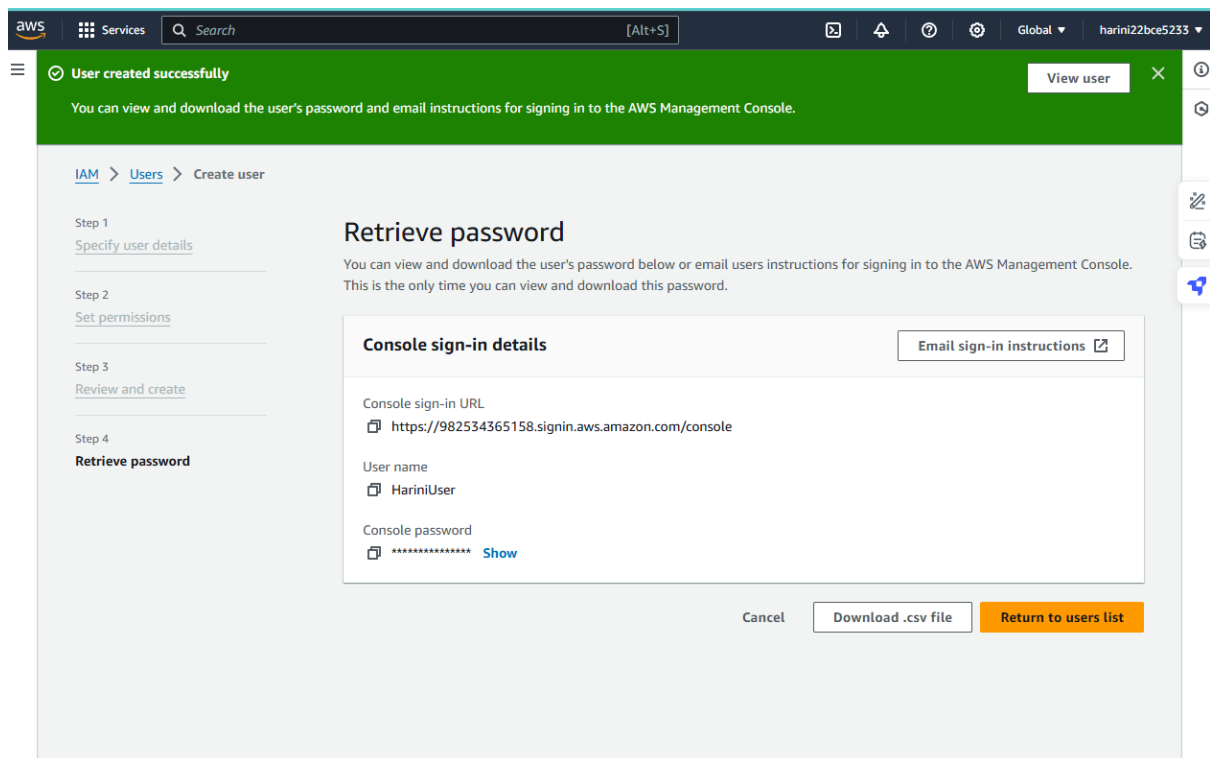
Service	Access level	Resource	Request
S3	Limited: List, Read	Multiple	None

The policy has been successfully created

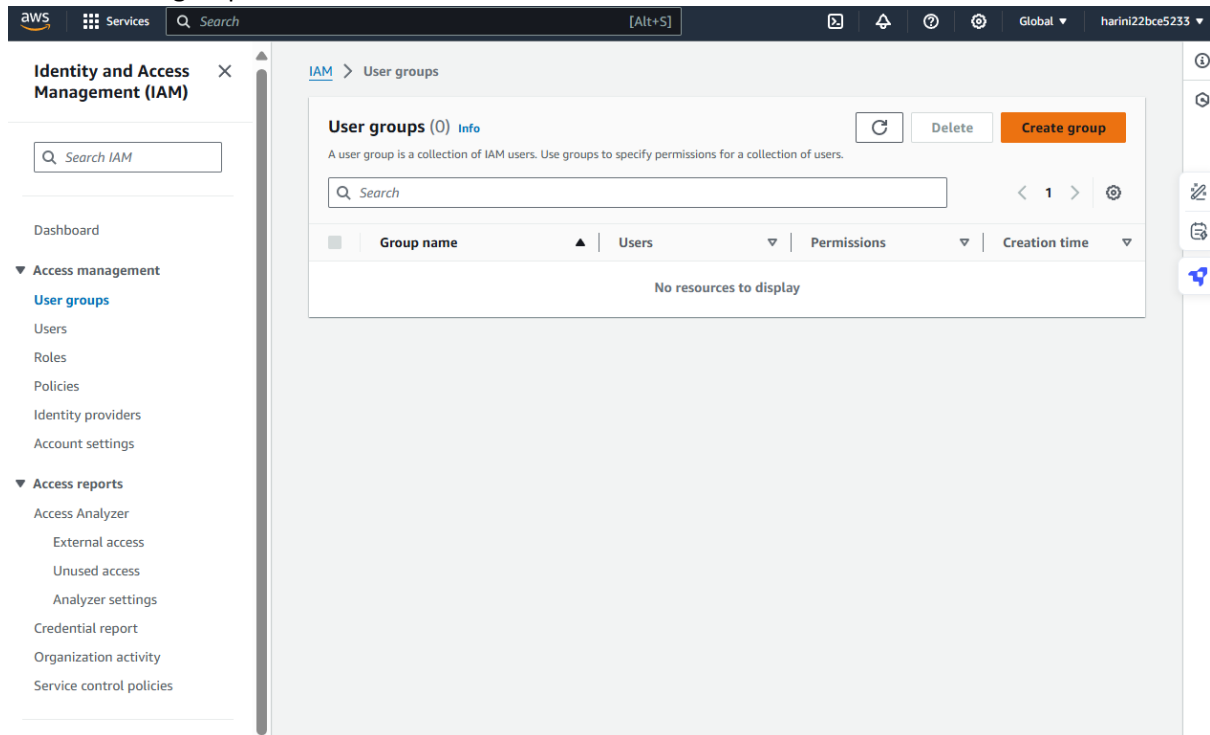


Create a user and give a name for the user with a custom console password

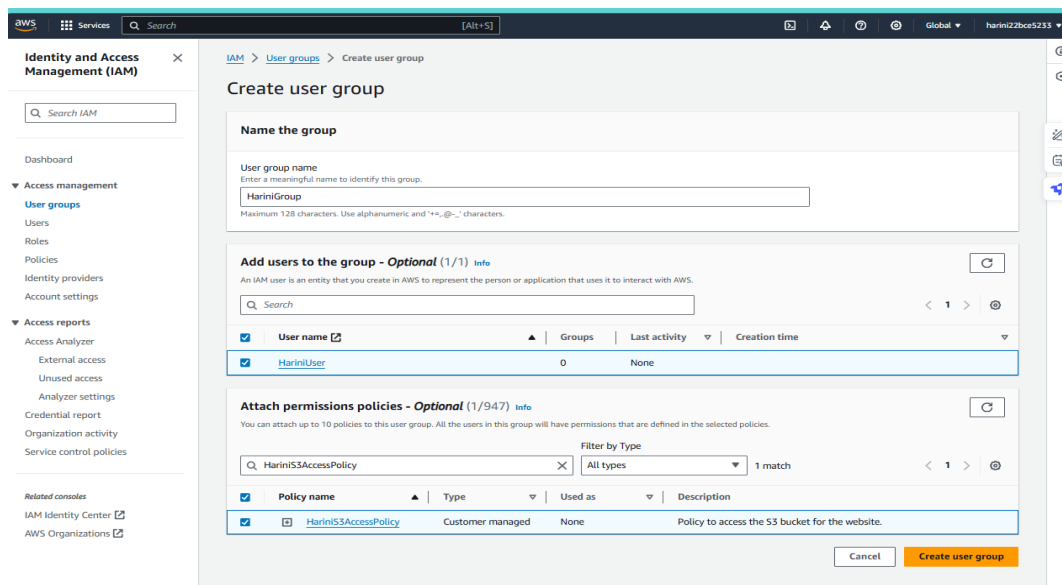
The user has been successfully created



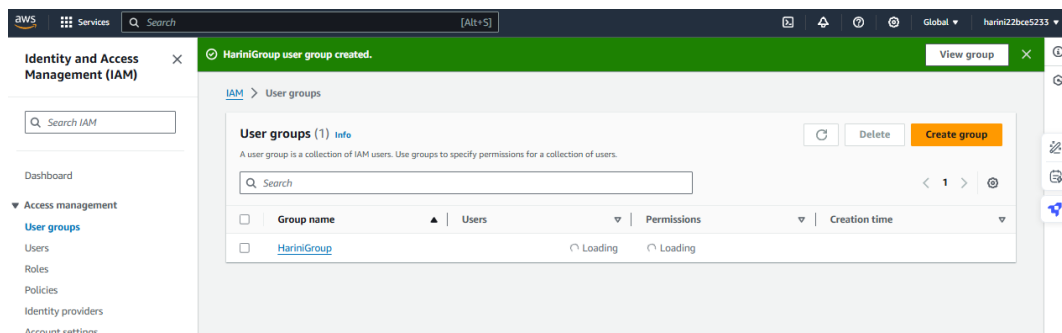
Create a user group



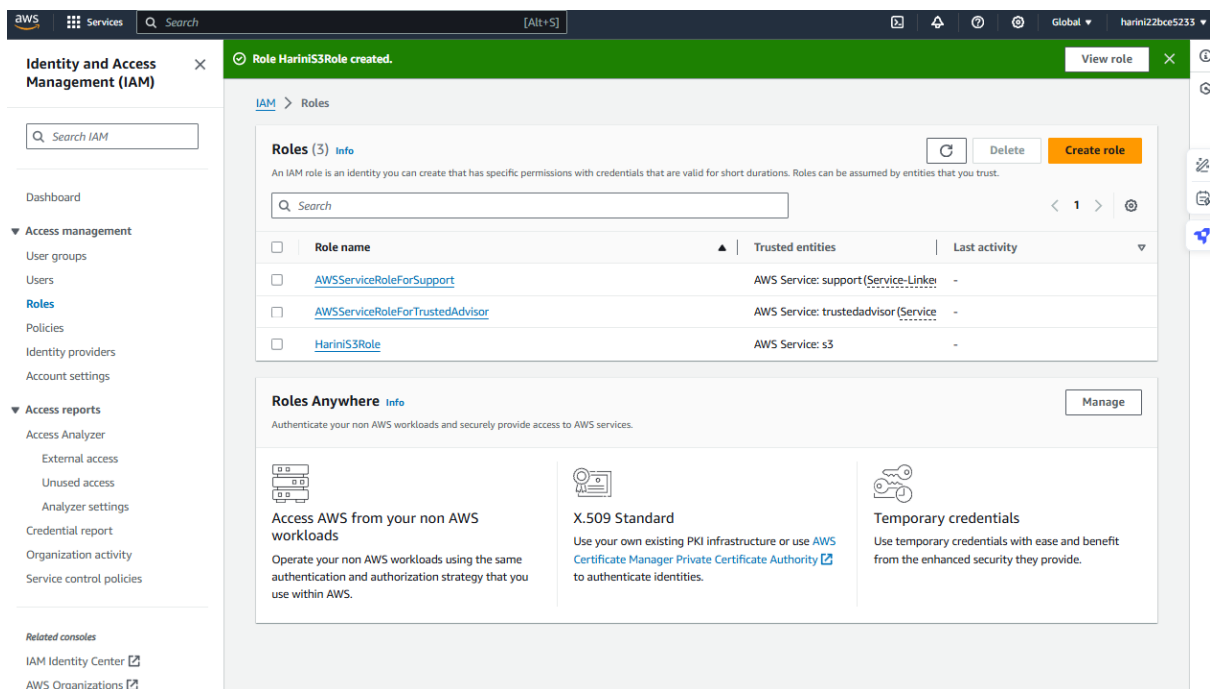
Add the created user and policy to the user group



The user group has been successfully created



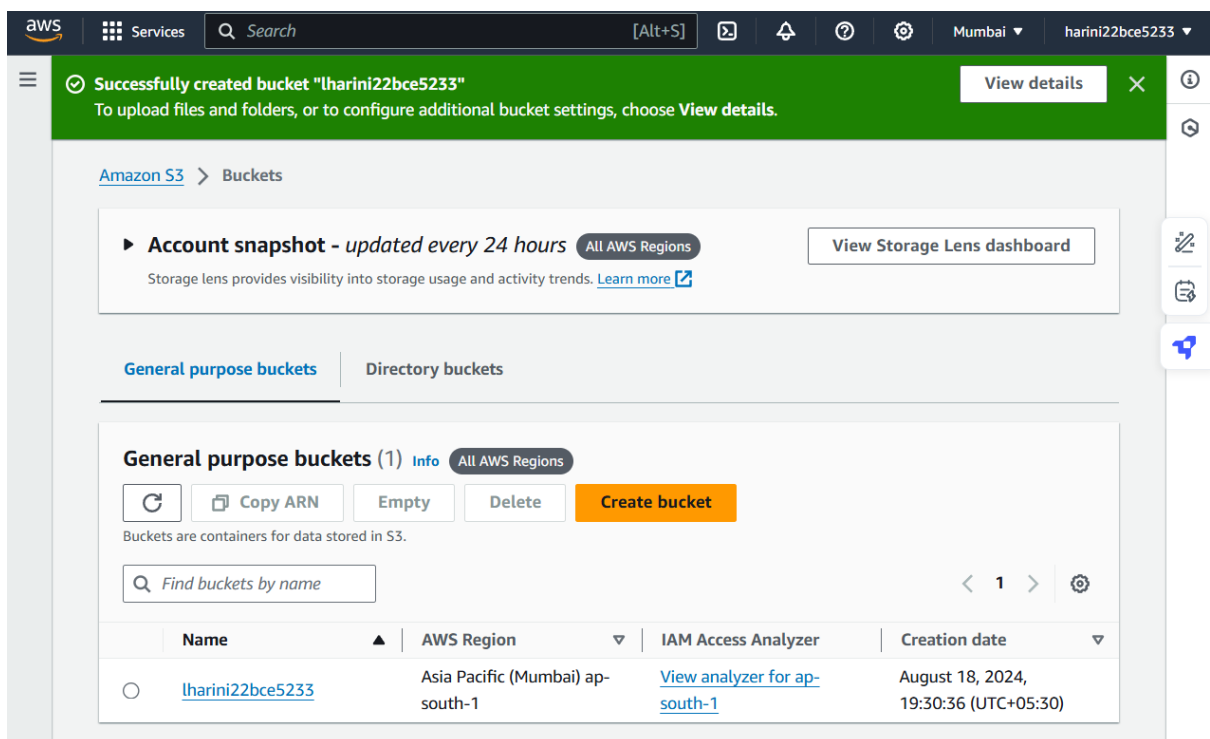
The role has been successfully created



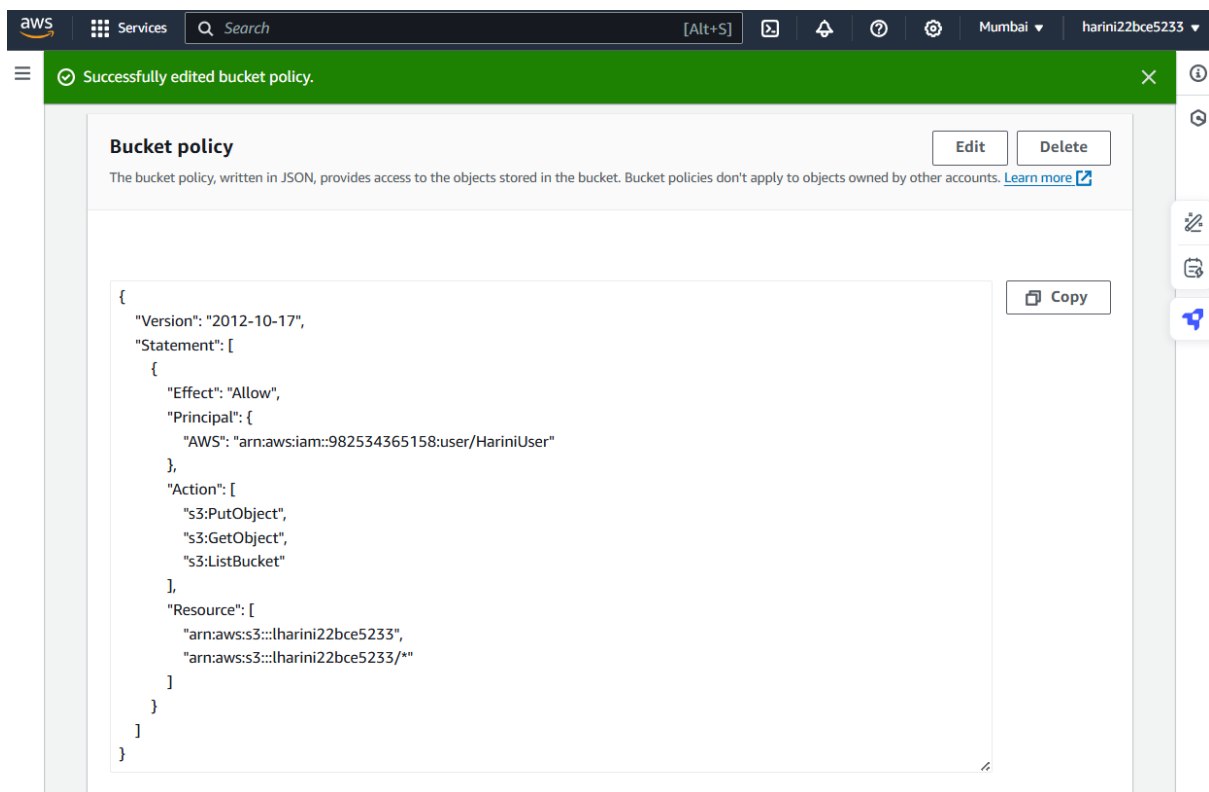
Navigate to AWS Console Home and set the region as Mumbai and then access to S3

Create a bucket inside Amazon S3 and give a name for the bucket

Now bucket has been successfully created



Navigate to permissions and edit the policy with the following code



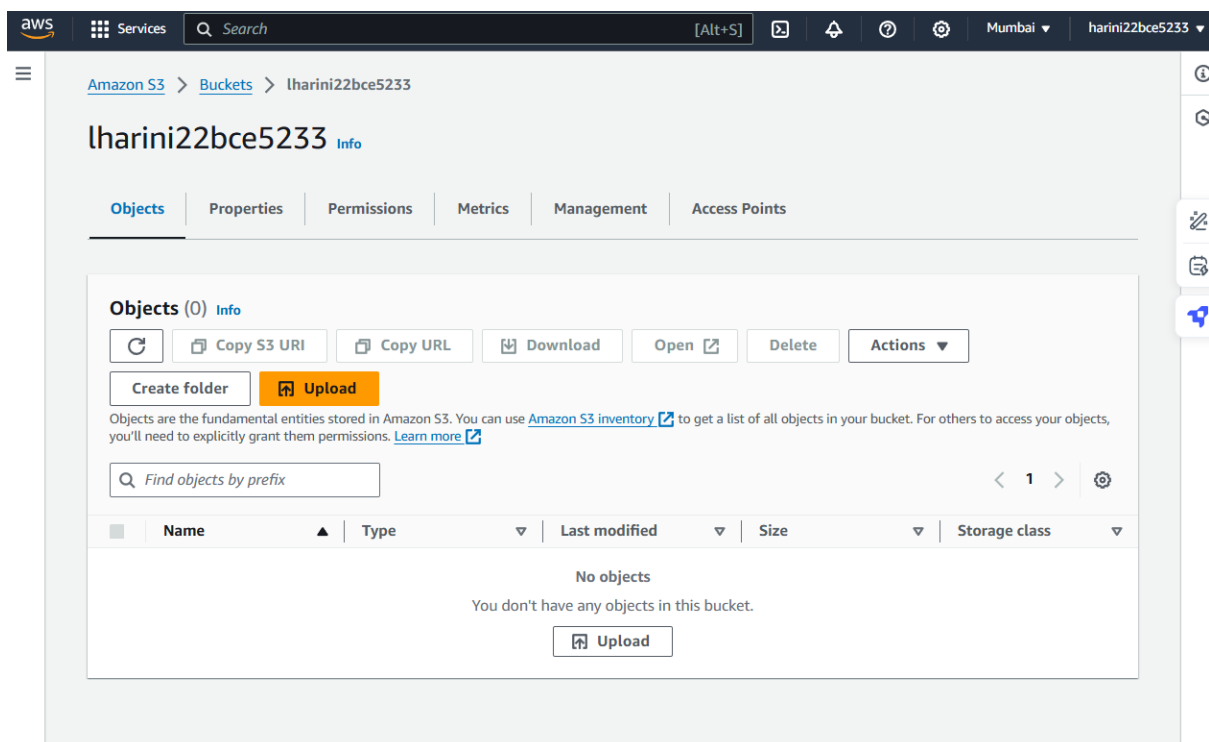
Bucket policy Edit Delete

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": {
        "AWS": "arn:aws:iam::982534365158:user/HariniUser"
      },
      "Action": [
        "s3:PutObject",
        "s3:GetObject",
        "s3:ListBucket"
      ],
      "Resource": [
        "arn:aws:s3:::lharini22bce5233",
        "arn:aws:s3:::lharini22bce5233/*"
      ]
    }
  ]
}
```

Copy

The bucket has been successfully edited with the given code



Amazon S3 > Buckets > lharini22bce5233

lharini22bce5233 Info

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Objects (0) Info

Refresh Copy S3 URI Copy URL Download Open Delete Actions

Create folder Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

< 1 > Settings

Name	Type	Last modified	Size	Storage class
No objects				
You don't have any objects in this bucket.				

Upload

In the bucket, navigate to the uploads page and upload the 4 html files

The screenshot shows the AWS S3 console interface. At the top, the navigation bar includes the AWS logo, 'Services', a search bar, and the account name 'harini22bce5233'. The breadcrumb trail indicates the path: Amazon S3 > Buckets > lharini22bce5233 > Upload. The main heading is 'Upload' with an 'Info' link. Below this, a message states: 'Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)'. A dashed box contains the instruction: 'Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.' Below this is a section titled 'Files and folders (4 Total, 7.4 KB)' with a 'Remove' button and 'Add files' and 'Add folder' buttons. A search bar labeled 'Find by name' is present. A table lists the files:

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	about.html	-	text/html	1.5 KB
<input type="checkbox"/>	contact.html	-	text/html	1.6 KB
<input type="checkbox"/>	index.html	-	text/html	1.6 KB
<input type="checkbox"/>	register.html	-	text/html	2.7 KB

Below the table is a 'Destination' section with an 'Info' link. It shows the destination as 's3://lharini22bce5233'. The footer of the console includes 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates, along with links for 'Privacy', 'Terms', and 'Cookie preferences'.

The contents of the html file are as follows

index.html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Home - IAM User Homepage</title>
```

```
<style>
```

```
body {
```

```
    font-family: 'Arial', sans-serif;
```

```
    margin: 0;
```

```
    padding: 0;
```

```
    background: #f0f0f0;
```

```
}
```

```
nav {
```

```
background: #333;
color: #fff;
padding: 15px 20px;
text-align: center;
}
nav a {
color: #fff;
margin: 0 15px;
text-decoration: none;
font-weight: bold;
font-size: 16px;
}
nav a:hover {
text-decoration: underline;
}
main {
padding: 40px 20px;
text-align: center;
}
h1 {
color: #333;
font-size: 36px;
}
footer {
background: #333;
color: #fff;
text-align: center;
padding: 10px 20px;
position: fixed;
width: 100%;
bottom: 0;
```

```
    }
  </style>
</head>
<body>

<nav>
  <a href="index.html">Home</a>
  <a href="about.html">About</a>
  <a href="contact.html">Contact</a>
  <a href="register.html">Register</a>
</nav>

<main>
  <h1>Welcome to My IAM User Homepage</h1>
  <p>Explore our website and learn more about our project or register for updates.</p>
</main>

<footer>
  <p>&copy; 2024 IAM User Homepage. All rights reserved.</p>
</footer>

</body>
</html>
```

about.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>About - IAM User Homepage</title>
```

```
<style>

body {

    font-family: 'Arial', sans-serif;

    margin: 0;

    padding: 0;

    background: #f0f0f0;

}

nav {

    background: #333;

    color: #fff;

    padding: 15px 20px;

    text-align: center;

}

nav a {

    color: #fff;

    margin: 0 15px;

    text-decoration: none;

    font-weight: bold;

    font-size: 16px;

}

nav a:hover {

    text-decoration: underline;

}

main {

    padding: 40px 20px;

    text-align: center;

}

h1 {

    color: #333;

    font-size: 36px;

}
```

```
        footer {
            background: #333;
            color: #fff;
            text-align: center;
            padding: 10px 20px;
            position: fixed;
            width: 100%;
            bottom: 0;
        }
    </style>
</head>
<body>

<nav>
    <a href="index.html">Home</a>
    <a href="about.html">About</a>
    <a href="contact.html">Contact</a>
    <a href="register.html">Register</a>
</nav>

<main>
    <h1>About Us</h1>
    <p>Discover more about our team and our mission.</p>
</main>

<footer>
    <p>&copy; 2024 IAM User Homepage. All rights reserved.</p>
</footer>

</body>
</html>
```

contact.html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Contact - IAM User Homepage</title>
```

```
  <style>
```

```
    body {
```

```
      font-family: 'Arial', sans-serif;
```

```
      margin: 0;
```

```
      padding: 0;
```

```
      background: #f0f0f0;
```

```
    }
```

```
    nav {
```

```
      background: #333;
```

```
      color: #fff;
```

```
      padding: 15px 20px;
```

```
      text-align: center;
```

```
    }
```

```
    nav a {
```

```
      color: #fff;
```

```
      margin: 0 15px;
```

```
      text-decoration: none;
```

```
      font-weight: bold;
```

```
      font-size: 16px;
```

```
    }
```

```
    nav a:hover {
```

```
      text-decoration: underline;
```

```
    }
```

```
    main {
```

```
padding: 40px 20px;
text-align: center;
}
h1 {
color: #333;
font-size: 36px;
}
footer {
background: #333;
color: #fff;
text-align: center;
padding: 10px 20px;
position: fixed;
width: 100%;
bottom: 0;
}
</style>
</head>
<body>

<nav>
  <a href="index.html">Home</a>
  <a href="about.html">About</a>
  <a href="contact.html">Contact</a>
  <a href="register.html">Register</a>
</nav>

<main>
  <h1>Contact Us</h1>
  <p>If you have any questions or need support, please reach out to us.</p>
</main>
```

```
<footer>
```

```
  <p>&copy; 2024 IAM User Homepage. All rights reserved.</p>
```

```
</footer>
```

```
</body>
```

```
</html>
```

register.html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Register - IAM User Homepage</title>
```

```
<style>
```

```
  body {
```

```
    font-family: 'Arial', sans-serif;
```

```
    margin: 0;
```

```
    padding: 0;
```

```
    background: #f0f0f0;
```

```
  }
```

```
  nav {
```

```
    background: #333;
```

```
    color: #fff;
```

```
    padding: 15px 20px;
```

```
    text-align: center;
```

```
  }
```

```
  nav a {
```

```
    color: #fff;
```

```
    margin: 0 15px;
```



```
    text-decoration: none;

    font-weight: bold;

    font-size: 16px;
}
nav a:hover {
    text-decoration: underline;
}
main {
    padding: 40px 20px;
    text-align: center;
}
h1 {
    color: #333;
    font-size: 36px;
}
form {
    display: inline-block;
    text-align: left;
    background: #fff;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
    max-width: 400px;
    margin: 0 auto;
}
form input {
    width: 100%;
    padding: 10px;
    margin: 10px 0;
    border: 1px solid #ddd;
    border-radius: 4px;
```

```
}  
  
form button {  
    width: 100%;  
    padding: 10px;  
    background: #007bff;  
    color: #fff;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;  
    font-size: 16px;  
}  
  
form button:hover {  
    background: #0056b3;  
}  
  
footer {  
    background: #333;  
    color: #fff;  
    text-align: center;  
    padding: 10px 20px;  
    position: fixed;  
    width: 100%;  
    bottom: 0;  
}  
  
</style>  
</head>  
<body>  
  
<nav>  
    <a href="index.html">Home</a>  
    <a href="about.html">About</a>  
    <a href="contact.html">Contact</a>
```

```
<a href="register.html">Register</a>
</nav>

<main>
  <h1>Register</h1>
  <form>
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required>

    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required>

    <label for="password">Password:</label>
    <input type="password" id="password" name="password" required>

    <button type="submit">Register</button>
  </form>
</main>

<footer>
  <p>&copy; 2024 IAM User Homepage. All rights reserved.</p>
</footer>

</body>
</html>
```

aws

Services

Search

[Alt+S]

Mumbai

harini22bce5233

Upload succeeded

View details below.

The information below will no longer be available after you navigate away from this page.

Summary

Destination

s3://lharini22bce5233

Succeeded

4 files, 7.4 KB (100.00%)

Failed

0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (4 Total, 7.4 KB)

Find by name

< 1 >

Name	Folder	Type	Size	Status	Error
about.html	-	text/html	1.5 KB	Succeeded	-
contact.html	-	text/html	1.6 KB	Succeeded	-
index.html	-	text/html	1.6 KB	Succeeded	-
register.html	-	text/html	2.7 KB	Succeeded	-

aws

Services

Search

[Alt+S]

Mumbai

harini22bce5233

Amazon S3 > Buckets > lharini22bce5233

lharini22bce5233

Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (4)

Info

Refresh

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	about.html	html	August 18, 2024, 20:09:39 (UTC+05:30)	1.5 KB	Standard
<input type="checkbox"/>	contact.html	html	August 18, 2024, 20:09:40 (UTC+05:30)	1.6 KB	Standard
<input type="checkbox"/>	index.html	html	August 18, 2024, 20:09:40 (UTC+05:30)	1.6 KB	Standard
<input type="checkbox"/>	register.html	html	August 18, 2024, 20:09:41 (UTC+05:30)	2.7 KB	Standard

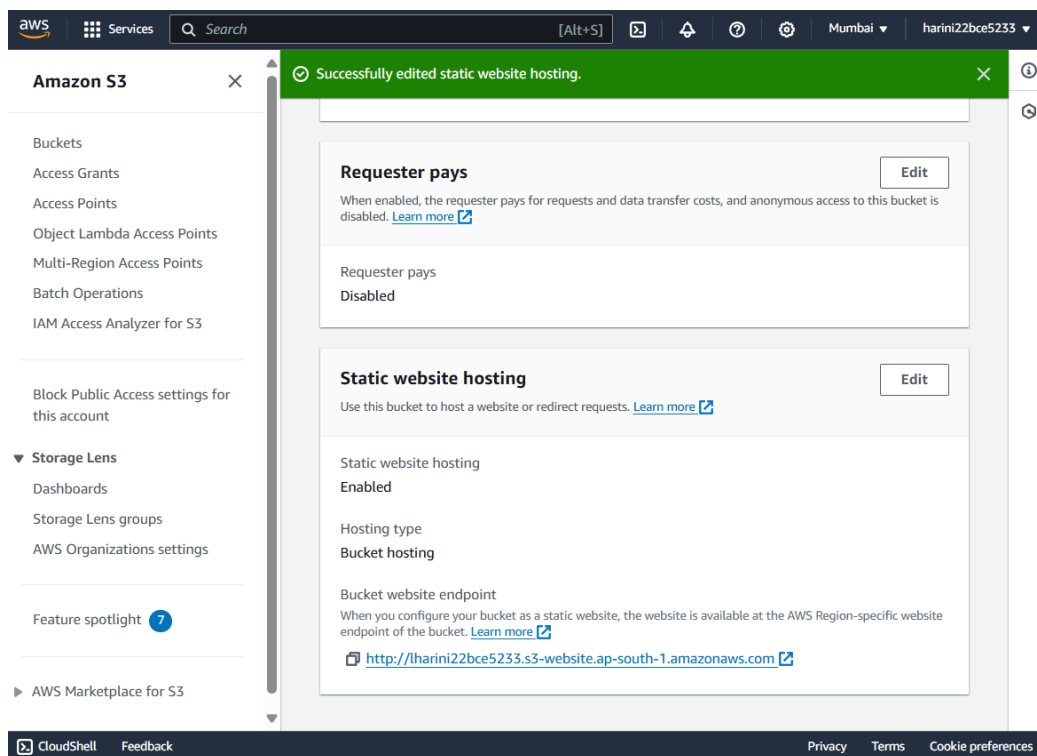
Check the status of the objects

The screenshot shows the Amazon S3 console interface. On the left is a navigation sidebar with options like Buckets, Access Grants, and Storage Lens. The main content area displays the 'Permissions' tab for the bucket 'lharini22bce5233'. A green notification banner at the top states 'Successfully edited Block Public Access settings for this bucket.' Below this, the 'Permissions overview' section shows an 'Access finding' message. The 'Block public access (bucket settings)' section includes an 'Edit' button and a paragraph explaining that public access is granted through ACLs, bucket policies, and access point policies, and that these settings apply only to the bucket and its access points.

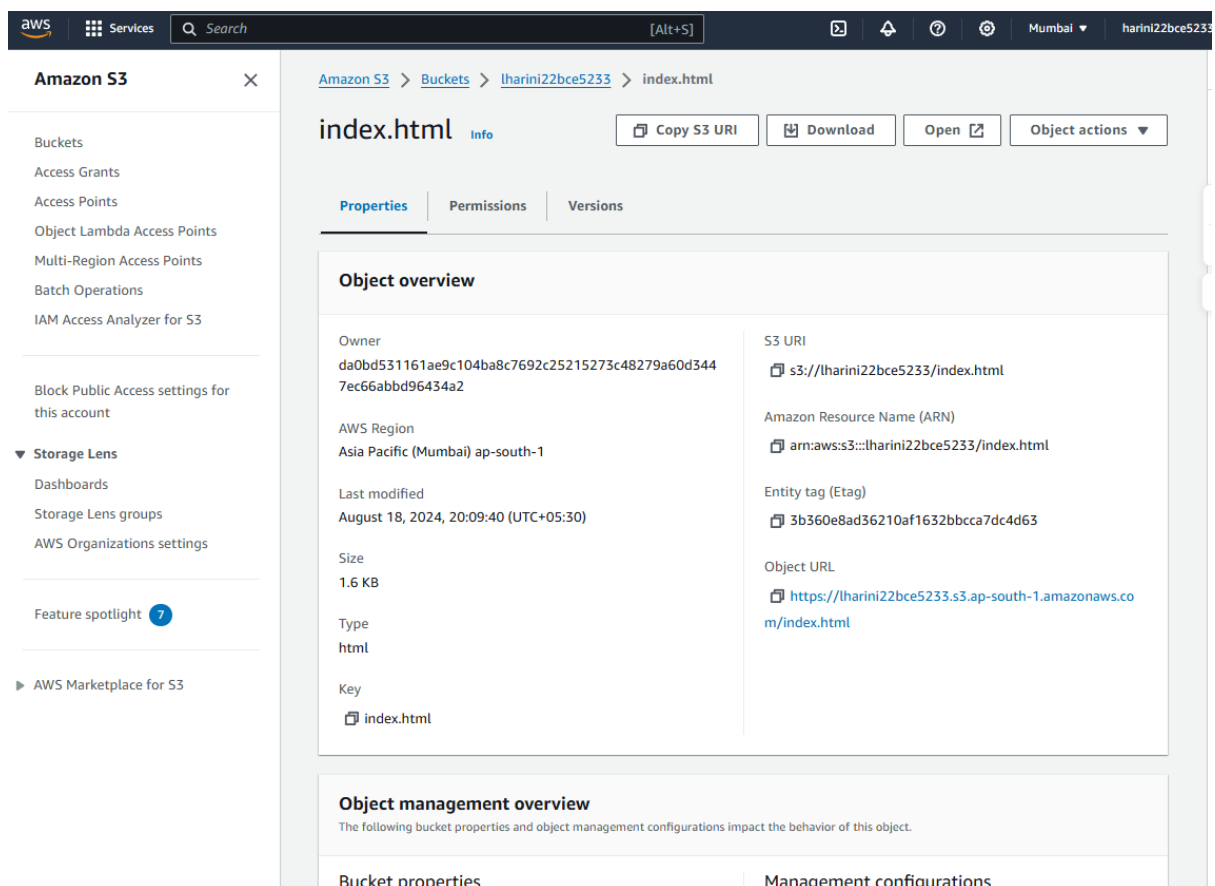
Navigate to the properties of the bucket

This screenshot shows the 'Properties' tab for the same bucket 'lharini22bce5233'. A green notification banner at the top says 'Successfully edited static website hosting.' The 'Bucket overview' section lists the AWS Region as 'Asia Pacific (Mumbai) ap-south-1', the Amazon Resource Name (ARN) as 'arn:aws:s3:::lharini22bce5233', and the creation date as 'August 18, 2024, 19:30:36 (UTC+05:30)'. The 'Bucket Versioning' section includes an 'Edit' button and a paragraph explaining that versioning allows keeping multiple variants of an object in the same bucket for preservation, retrieval, and restoration.

Navigate to the static website hosting and enable the static website hosting



Navigate to the index.html file on the bucket



Copy the object url and paste it into a separate web page

[Home](#)[About](#)[Contact](#)[Register](#)

Welcome to My IAM User Homepage

Explore our website and learn more about our project or register for updates.

© 2024 IAM User Homepage. All rights reserved.

[Home](#)[About](#)[Contact](#)[Register](#)

About Us

Discover more about our team and our mission.

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[Home](#)[About](#)[Contact](#)[Register](#)

Contact Us

If you have any questions or need support, please reach out to us.

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[Home](#) [About](#) [Contact](#) [Register](#)

Register

Name:

harini

Age:

19

Sex:

Female

Email:

harini@gmail.com

Username:

22bce5233

Password:

Save Details

© 2024 IAM User Homepage. All rights reserved.

Name:

harini

Age:

19

Sex:

Female

Email:

harinipappu8@gmail.com

Username:

22bce5233

Password:

Save Details

Details saved successfully!

Navigate to the bucket page and you will notice a new object

The screenshot shows the AWS S3 console interface for the bucket 'lharini22bce5233'. The 'Objects' tab is selected, displaying a list of five objects. The objects are: '22bce5233.json' (118.0 B, Standard), 'about.html' (1.5 KB, Standard), 'contact.html' (1.6 KB, Standard), 'index.html' (1.6 KB, Standard), and 'register.html' (3.4 KB, Standard). All objects were last modified on August 18, 2024. The console also shows tabs for Properties, Permissions, Metrics, Management, and Access Points.

Name	Type	Last modified	Size	Storage class
22bce5233.json	json	August 18, 2024, 21:08:44 (UTC+05:30)	118.0 B	Standard
about.html	html	August 18, 2024, 20:09:39 (UTC+05:30)	1.5 KB	Standard
contact.html	html	August 18, 2024, 20:09:40 (UTC+05:30)	1.6 KB	Standard
index.html	html	August 18, 2024, 20:09:40 (UTC+05:30)	1.6 KB	Standard
register.html	html	August 18, 2024, 21:01:13 (UTC+05:30)	3.4 KB	Standard

Click the json file

The screenshot shows the details page for the object '22bce5233.json' in the bucket 'lharini22bce5233'. The 'Properties' tab is selected, displaying the 'Object overview'. The overview includes the following details:

- Owner:** da0bd531161ae9c104ba8c7692c25215273c48279a60d3447ec66abbd96434a2
- AWS Region:** Asia Pacific (Mumbai) ap-south-1
- Last modified:** August 18, 2024, 21:08:44 (UTC+05:30)
- Size:** 118.0 B
- Type:** json
- Key:** 22bce5233.json
- S3 URI:** s3://lharini22bce5233/22bce5233.json
- Amazon Resource Name (ARN):** arn:aws:s3::lharini22bce5233/22bce5233.json
- Entity tag (Etag):** 04d86410c6ef26206110f661a5f7ae28
- Object URL:** https://lharini22bce5233.s3.ap-south-1.amazonaws.com/22bce5233.json

The entered details in the registration page has been uploaded to the json file

```
{"Name": "harini", "Age": "19", "Sex": "Female", "Email": "harinipappu@gmail.com", "Username": "22bce5233", "Password": "harini"}
```