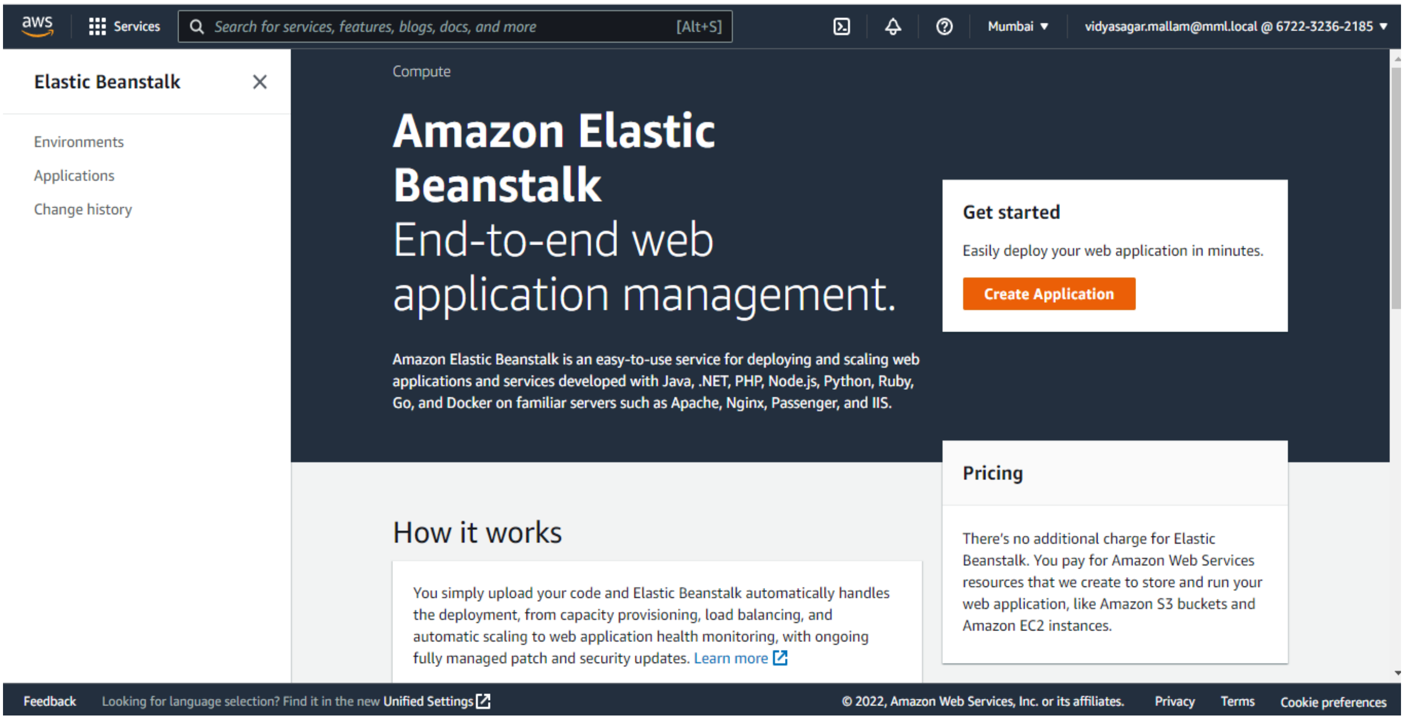
AWS Deployment

Backend Deployment

Step-1: Open EBS (Elastic Beanstalk) and Click on Create Application



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Compute

Amazon Elastic Beanstalk
End-to-end web application management.

Amazon Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.

Get started

Easily deploy your web application in minutes.

Create Application

Pricing

There's no additional charge for Elastic Beanstalk. You pay for Amazon Web Services resources that we create to store and run your web application, like Amazon S3 buckets and Amazon EC2 instances.

How it works

You simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, and automatic scaling to web application health monitoring, with ongoing fully managed patch and security updates. Learn more

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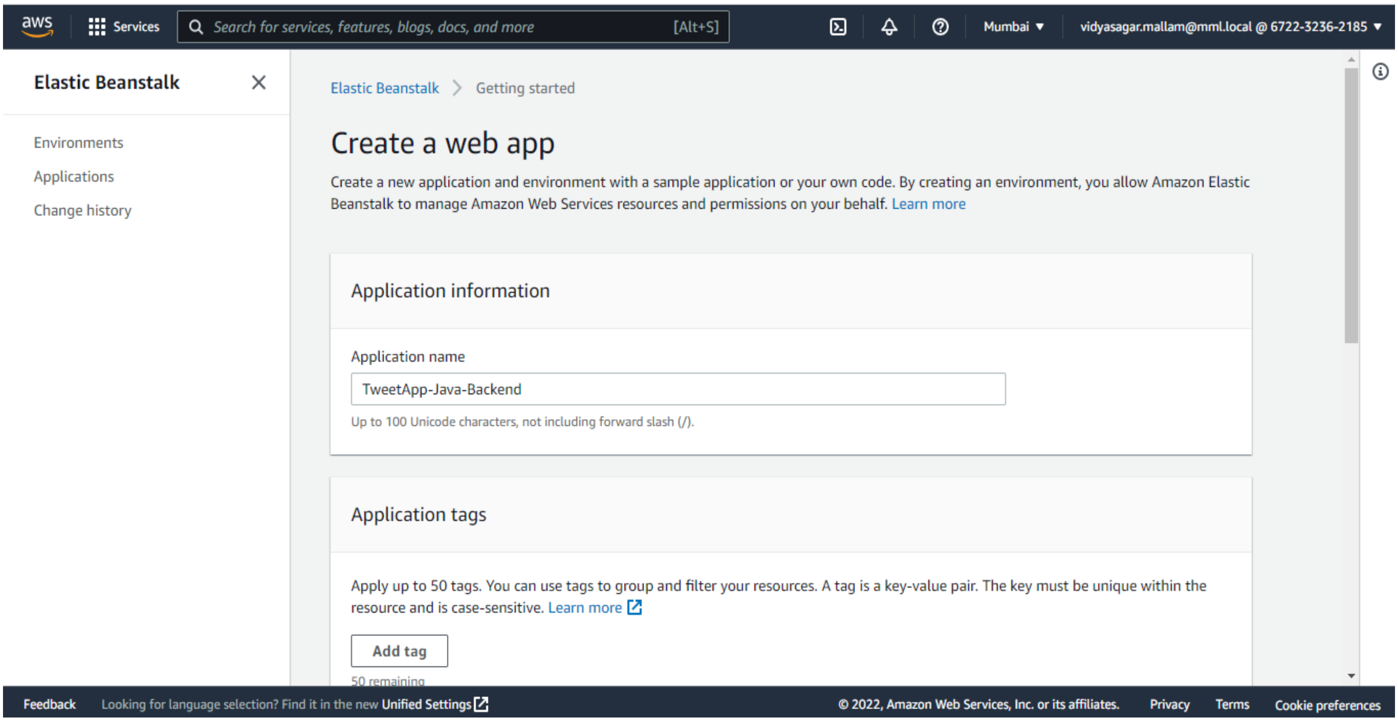
Step-2: Fill the mentioned Details (Application name) and tags are optional



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Elastic Beanstalk > Getting started

Create a web app

Create a new application and environment with a sample application or your own code. By creating an environment, you allow Amazon Elastic Beanstalk to manage Amazon Web Services resources and permissions on your behalf. Learn more

Application information

Application name: TweetApp-Java-Backend

Up to 100 Unicode characters, not including forward slash (/).

Application tags

Apply up to 50 tags. You can use tags to group and filter your resources. A tag is a key-value pair. The key must be unique within the resource and is case-sensitive. Learn more

Add tag

50 remaining

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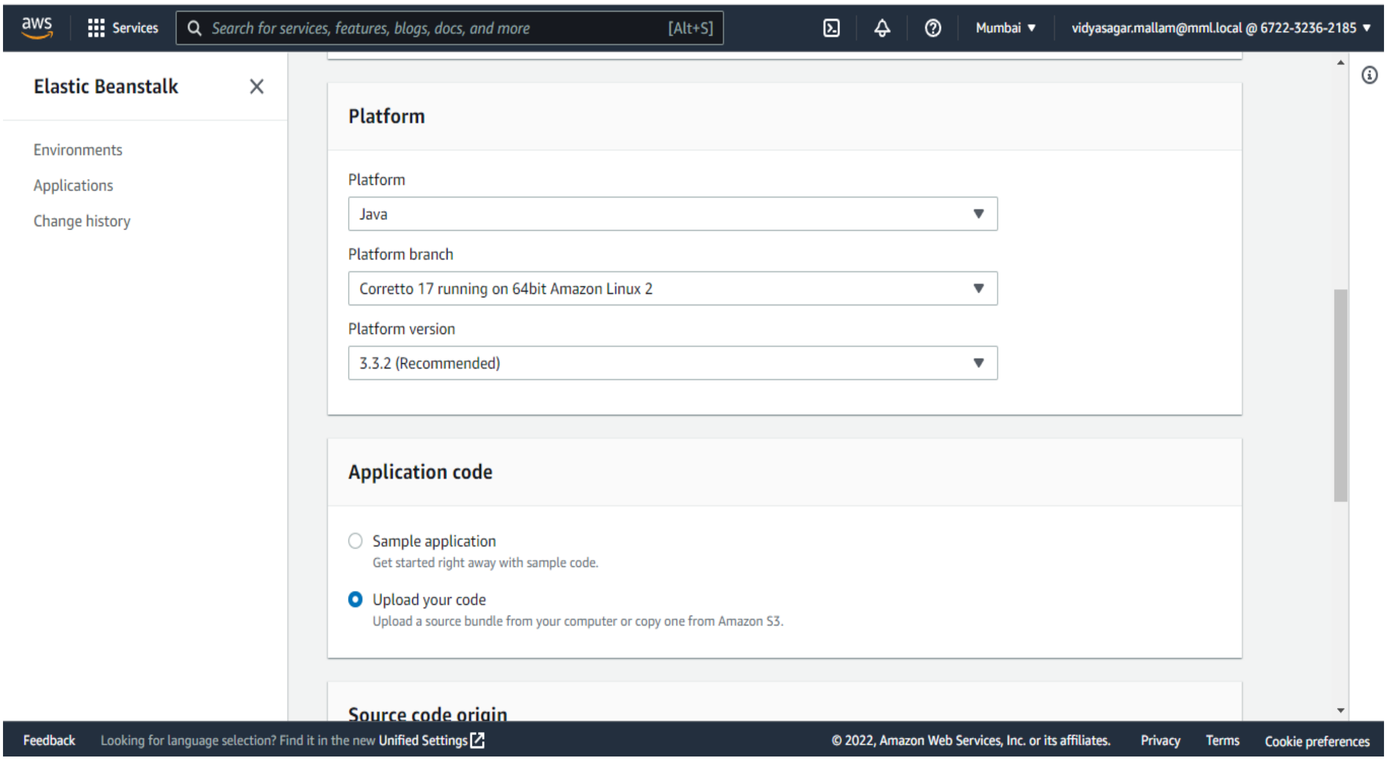
Step-3: Select Preferred platform(java), platform branch and version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Platform

Platform: Java

Platform branch: Corretto 17 running on 64bit Amazon Linux 2

Platform version: 3.3.2 (Recommended)

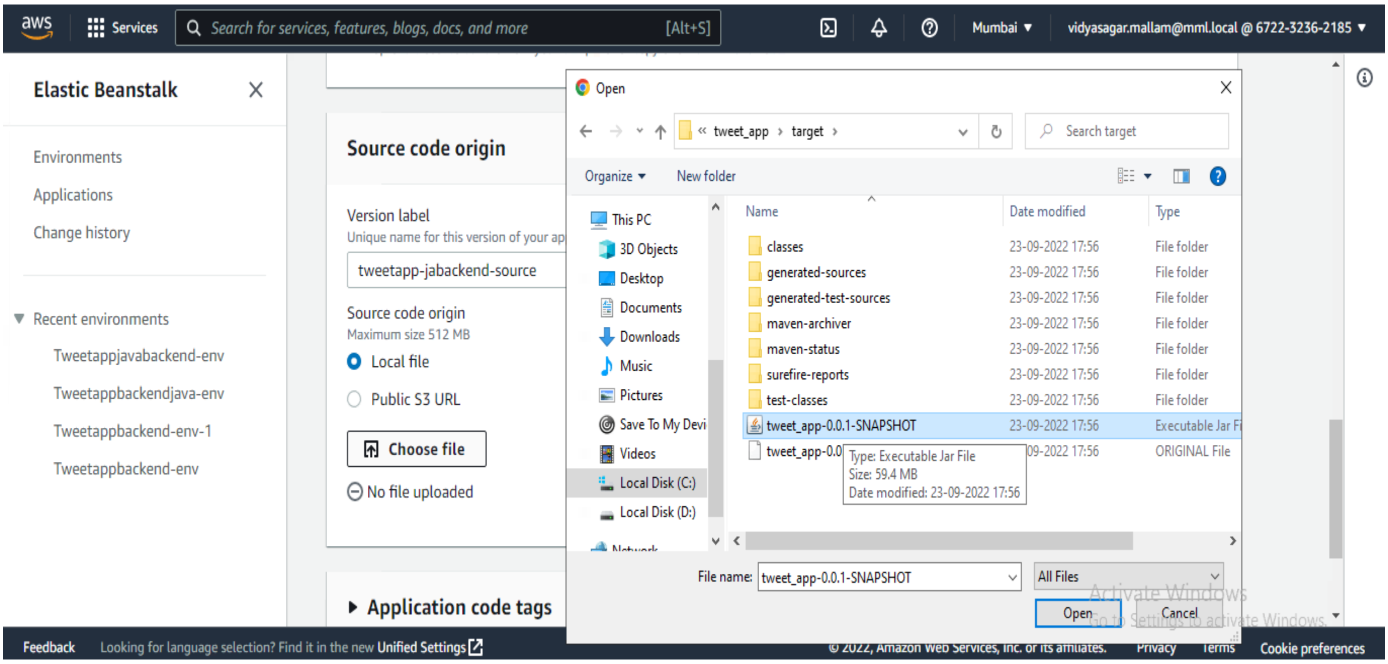
Application code

○ Sample application
Get started right away with sample code.

● Upload your code
Upload a source bundle from your computer or copy one from Amazon S3.

Source code origin

Step-4: Upload jar file and click on create application



Source code origin

Version label
Unique name for this version of your ap
tweetapp-jabackend-source

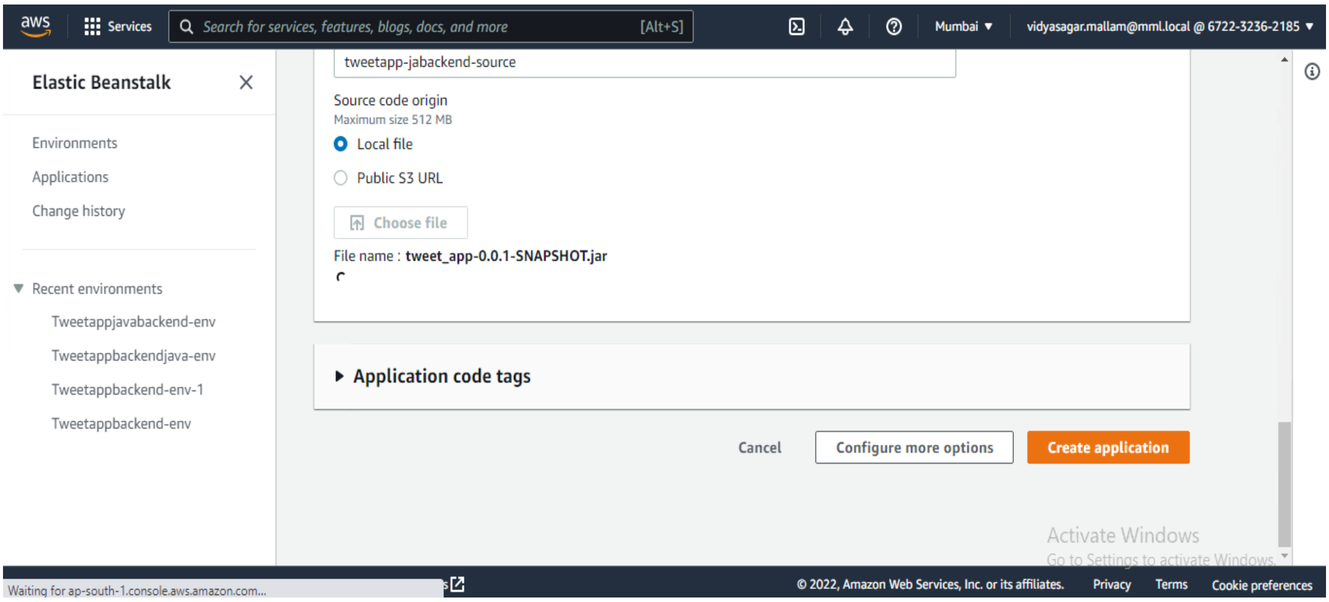
Source code origin
Maximum size 512 MB
● Local file
○ Public S3 URL

No file uploaded

Name	Date modified	Type
classes	23-09-2022 17:56	File folder
generated-sources	23-09-2022 17:56	File folder
generated-test-sources	23-09-2022 17:56	File folder
maven-archiver	23-09-2022 17:56	File folder
maven-status	23-09-2022 17:56	File folder
surefire-reports	23-09-2022 17:56	File folder
test-classes	23-09-2022 17:56	File folder
tweet_app-0.0.1-SNAPSHOT	23-09-2022 17:56	Executable Jar Fi
tweet_app-0.0	09-2022 17:56	ORIGINAL File

Type: Executable Jar File
Size: 59.4 MB
Date modified: 23-09-2022 17:56

File name: tweet_app-0.0.1-SNAPSHOT



tweetapp-jabackend-source

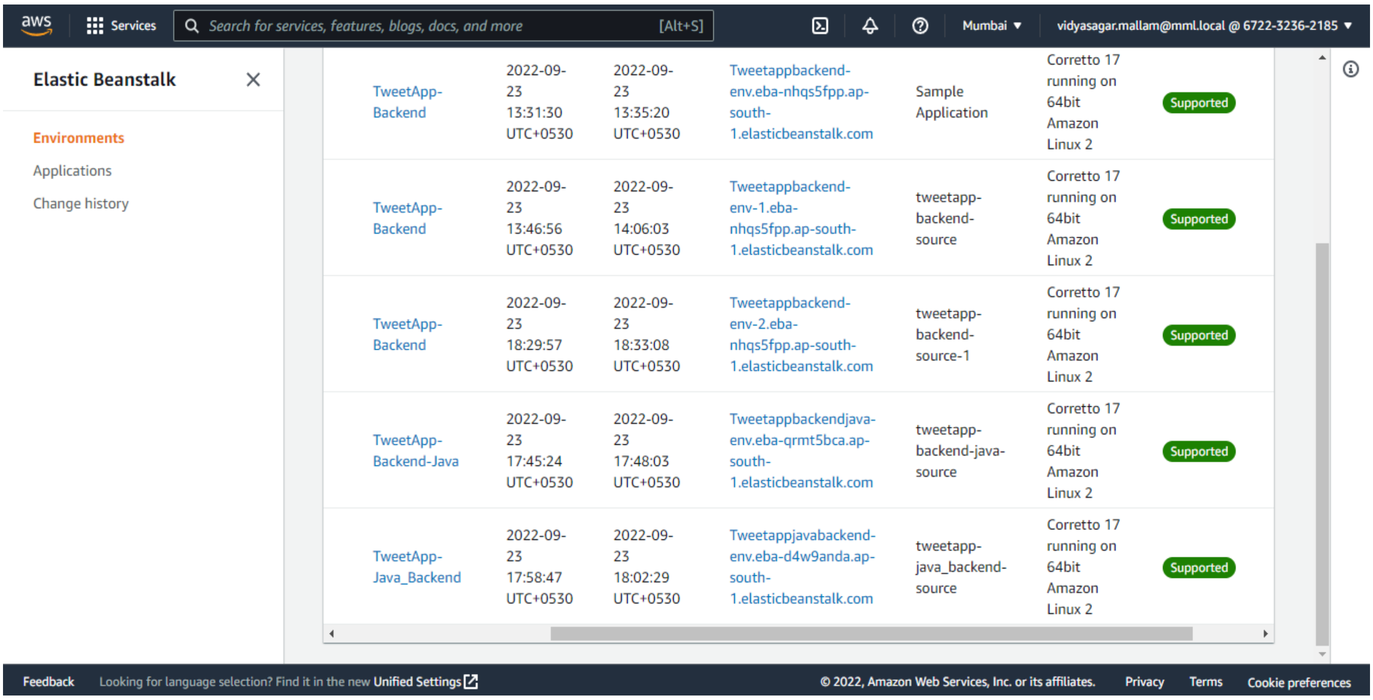
Source code origin
Maximum size 512 MB

● Local file

○ Public S3 URL

File name : **tweet_app-0.0.1-SNAPSHOT.jar**

Step-5: We can see the list of applications we have created



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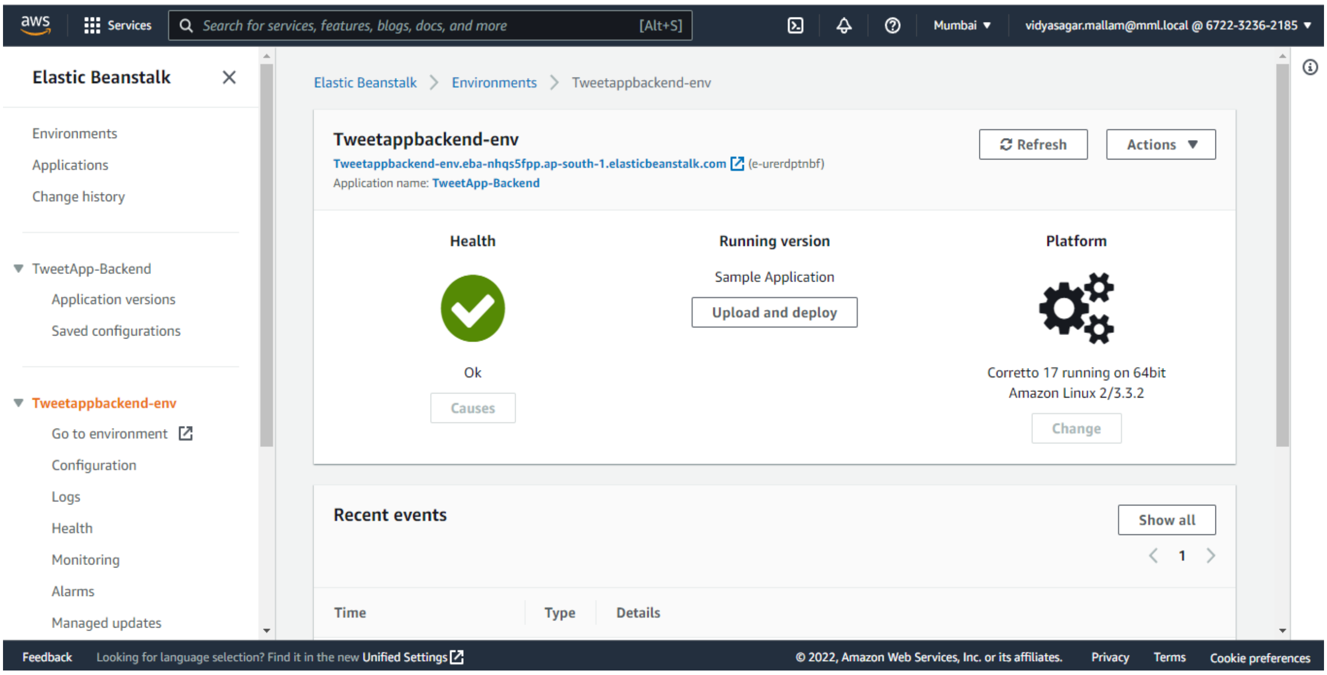
TweetApp-Backend	2022-09-23 13:31:30 UTC+0530	2022-09-23 13:35:20 UTC+0530	Tweetappbackend-env.eba-nhqs5fpp.ap-south-1.elasticbeanstalk.com	Sample Application	Corretto 17 running on 64bit Amazon Linux 2	Supported
TweetApp-Backend	2022-09-23 13:46:56 UTC+0530	2022-09-23 14:06:03 UTC+0530	Tweetappbackend-env-1.eba-nhqs5fpp.ap-south-1.elasticbeanstalk.com	tweetapp-backend-source	Corretto 17 running on 64bit Amazon Linux 2	Supported
TweetApp-Backend	2022-09-23 18:29:57 UTC+0530	2022-09-23 18:33:08 UTC+0530	Tweetappbackend-env-2.eba-nhqs5fpp.ap-south-1.elasticbeanstalk.com	tweetapp-backend-source-1	Corretto 17 running on 64bit Amazon Linux 2	Supported
TweetApp-Backend-Java	2022-09-23 17:45:24 UTC+0530	2022-09-23 17:48:03 UTC+0530	Tweetappbackendjava-env.eba-qrmt5bca.ap-south-1.elasticbeanstalk.com	tweetapp-backend-java-source	Corretto 17 running on 64bit Amazon Linux 2	Supported
TweetApp-Java_Backend	2022-09-23 17:58:47 UTC+0530	2022-09-23 18:02:29 UTC+0530	Tweetappjavabackend-env.eba-d4w9anda.ap-south-1.elasticbeanstalk.com	tweetapp-java_backend-source	Corretto 17 running on 64bit Amazon Linux 2	Supported

Step-6: deployment process will happen once jar is uploaded. Once deployment is done, the link will be available for use. And if any changes required in backend, we could upload new jar file and deploy again in the same page.



Tweetappbackend-env

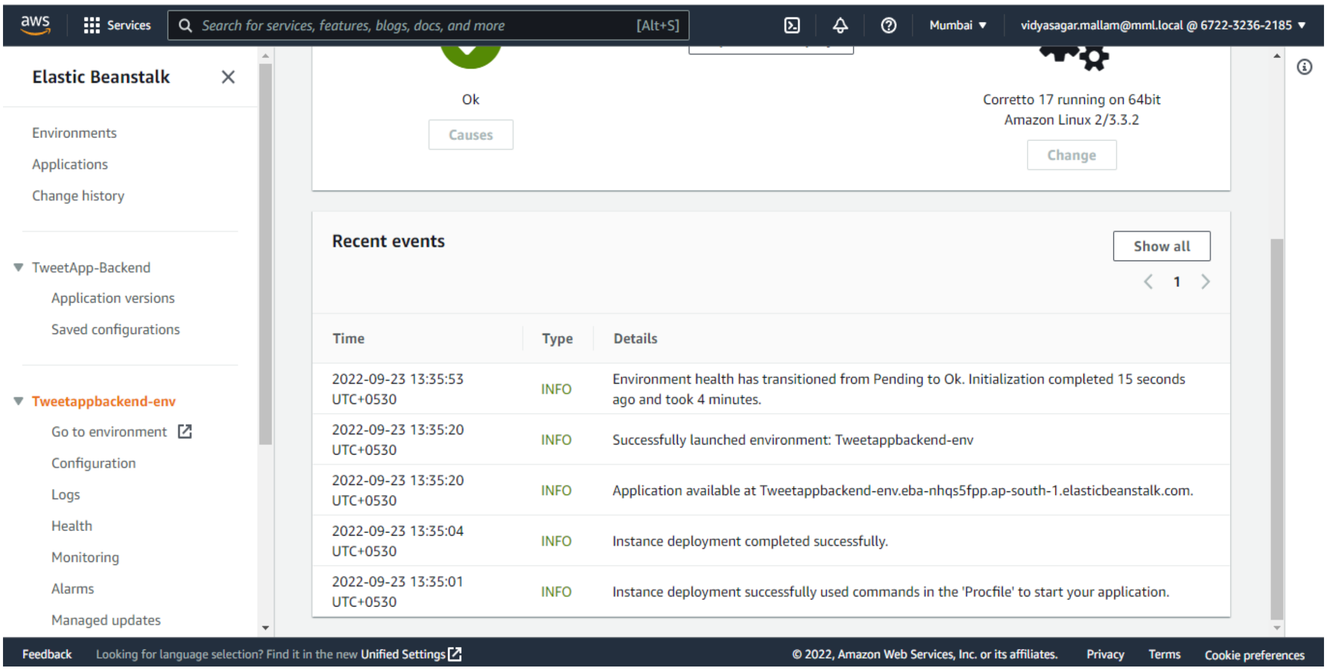
Tweetappbackend-env.eba-nhqs5fpp.ap-south-1.elasticbeanstalk.com (e-urerdptnbf)

Application name: TweetApp-Backend

Health	Running version	Platform
Ok	Sample Application	Corretto 17 running on 64bit Amazon Linux 2/3.3.2

Recent events

Time	Type	Details

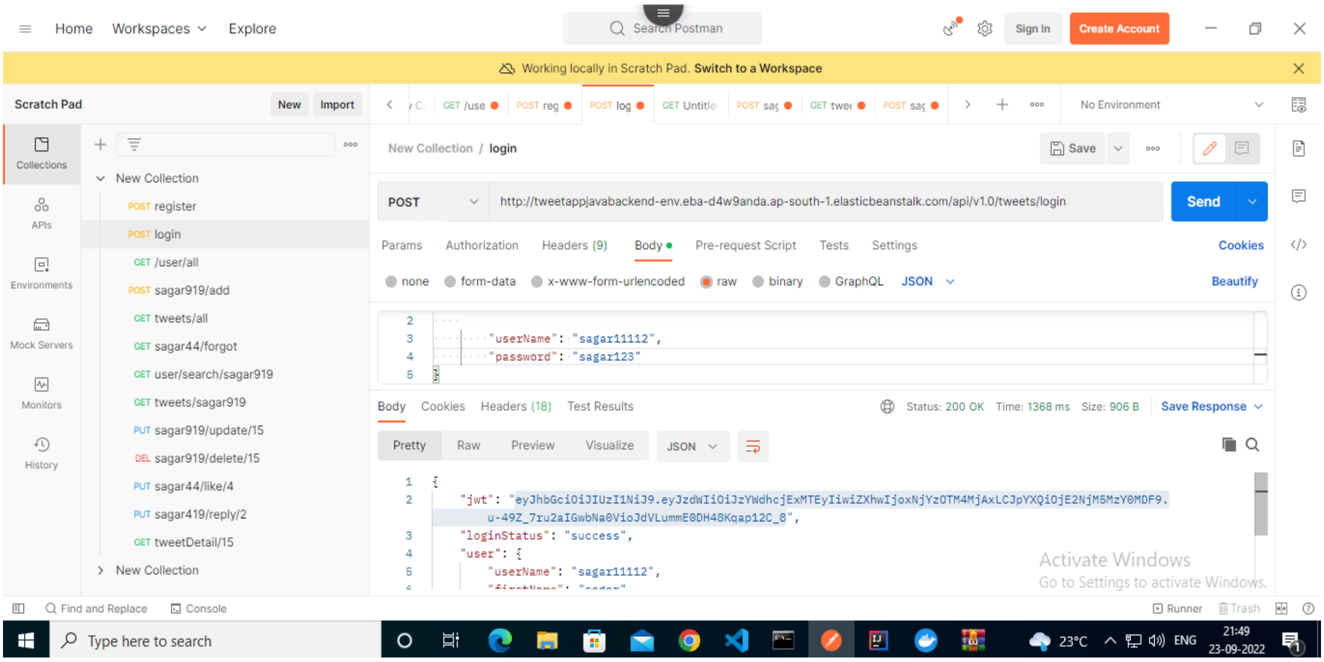


Corretto 17 running on 64bit Amazon Linux 2/3.3.2

Recent events

Time	Type	Details
2022-09-23 13:35:53 UTC+0530	INFO	Environment health has transitioned from Pending to Ok. Initialization completed 15 seconds ago and took 4 minutes.
2022-09-23 13:35:20 UTC+0530	INFO	Successfully launched environment: Tweetappbackend-env
2022-09-23 13:35:20 UTC+0530	INFO	Application available at Tweetappbackend-env.eba-nhqs5fpp.ap-south-1.elasticbeanstalk.com.
2022-09-23 13:35:04 UTC+0530	INFO	Instance deployment completed successfully.
2022-09-23 13:35:01 UTC+0530	INFO	Instance deployment successfully used commands in the 'Procfile' to start your application.

Step-7: Same link we can paste in place of localhost and run-in postman, and we can see the response.



POST http://tweetappjavabackend-env.eba-d4w9anda.ap-south-1.elasticbeanstalk.com/api/v1.0/tweets/login

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

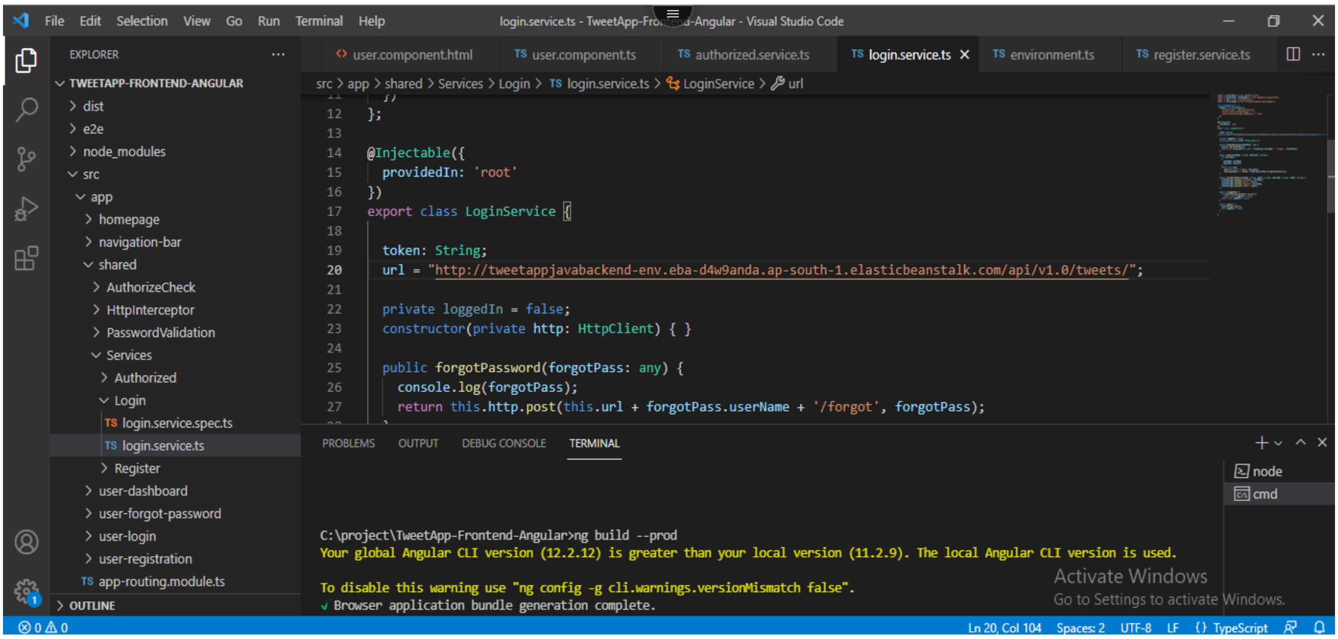
```
    "userName": "sagar11112",
    "password": "sagar123"
}
```

Body Cookies Headers (18) Test Results Status: 200 OK Time: 1368 ms Size: 906 B

```
{
    "jwt": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJzYWdhcjExMTEyIiwiZXhwIjoxNjYzOTM4MjAxLCJpYXQiOjE2NjM5MzY0MDF9.
        u-49Z_7ru2aIGwbNa0VioJdVLummE0DH48Kqap12C_8",
    "loginStatus": "success",
    "user": {
        "userName": "sagar11112",
```

Activate Windows
Go to Settings to activate Windows.

Step-8: The same link will replace localhost in url in frontend.



```
};

@Injectable({
  providedIn: 'root'
})
export class LoginService {

  token: String;
  url = "http://tweetappjavabackend-env.eba-d4w9anda.ap-south-1.elasticbeanstalk.com/api/v1.0/tweets/";

  private loggedIn = false;
  constructor(private http: HttpClient) { }

  public forgotPassword(forgotPass: any) {
    console.log(forgotPass);
    return this.http.post(this.url + forgotPass.userName + '/forgot', forgotPass);
```

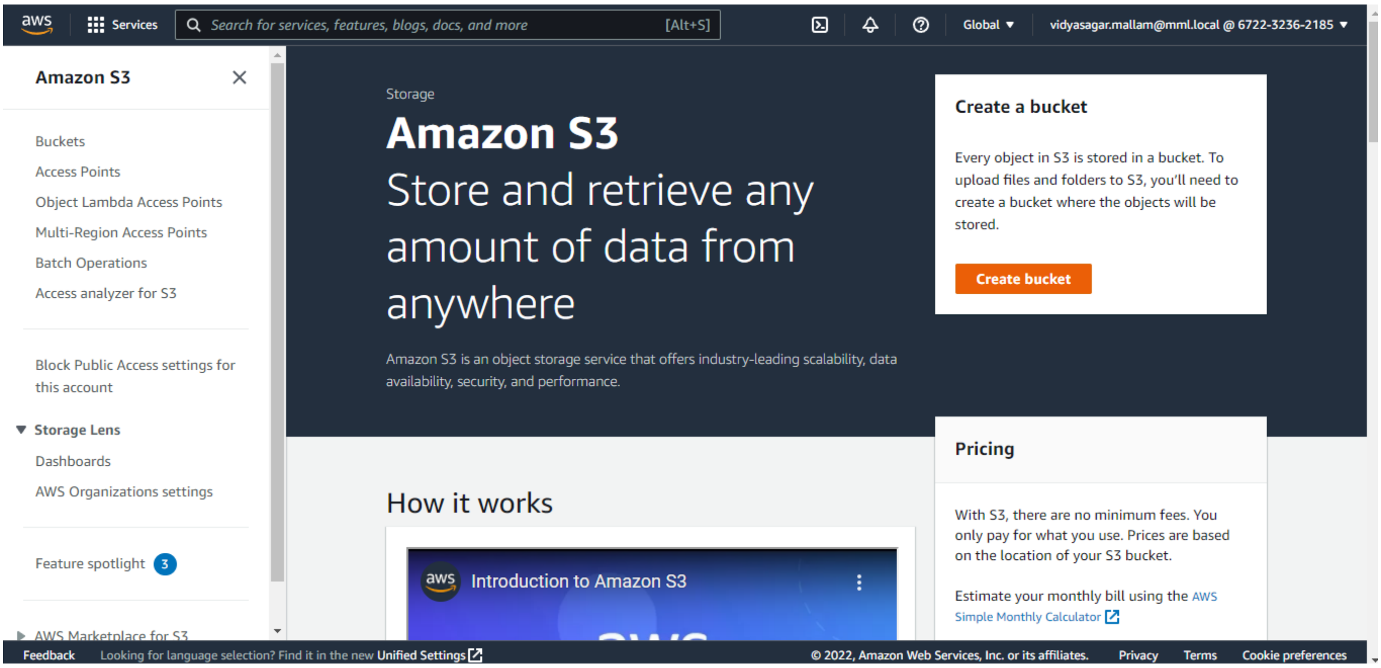
```
C:\project\TweetApp-Frontend-Angular>ng build --prod
Your global Angular CLI version (12.2.12) is greater than your local version (11.2.9). The local Angular CLI version is used.

To disable this warning use "ng config -g cli.warnings.versionMismatch false".
√ Browser application bundle generation complete.
```

Activate Windows
Go to Settings to activate Windows.

Front-end Deployment

Step-1: Open S3 and click on create bucket



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Storage

Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

Create bucket
How it works
Introduction to Amazon S3

Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the AWS Simple Monthly Calculator

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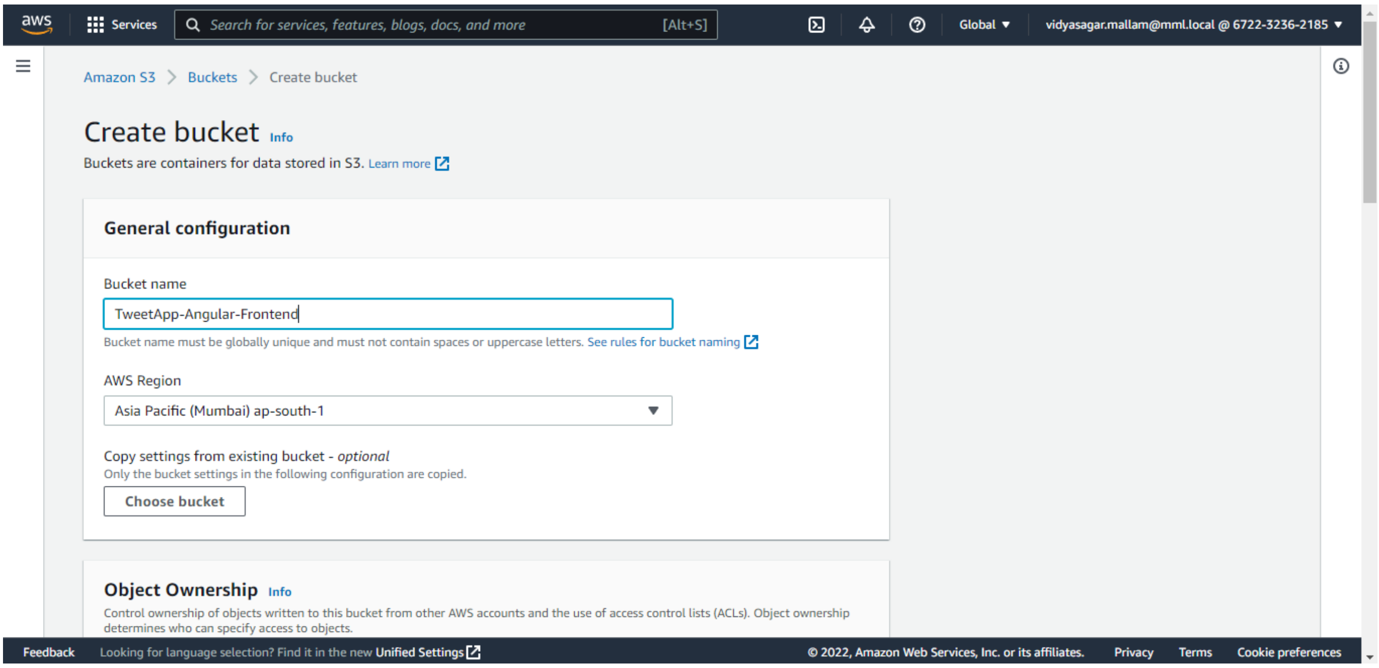
Step-2: Fill the details (Bucket name) and region



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Amazon S3 > Buckets > Create bucket

Create bucket Info

Buckets are containers for data stored in S3. Learn more

General configuration

Bucket name: TweetApp-Angular-Frontend

Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming

AWS Region: Asia Pacific (Mumbai) ap-south-1

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

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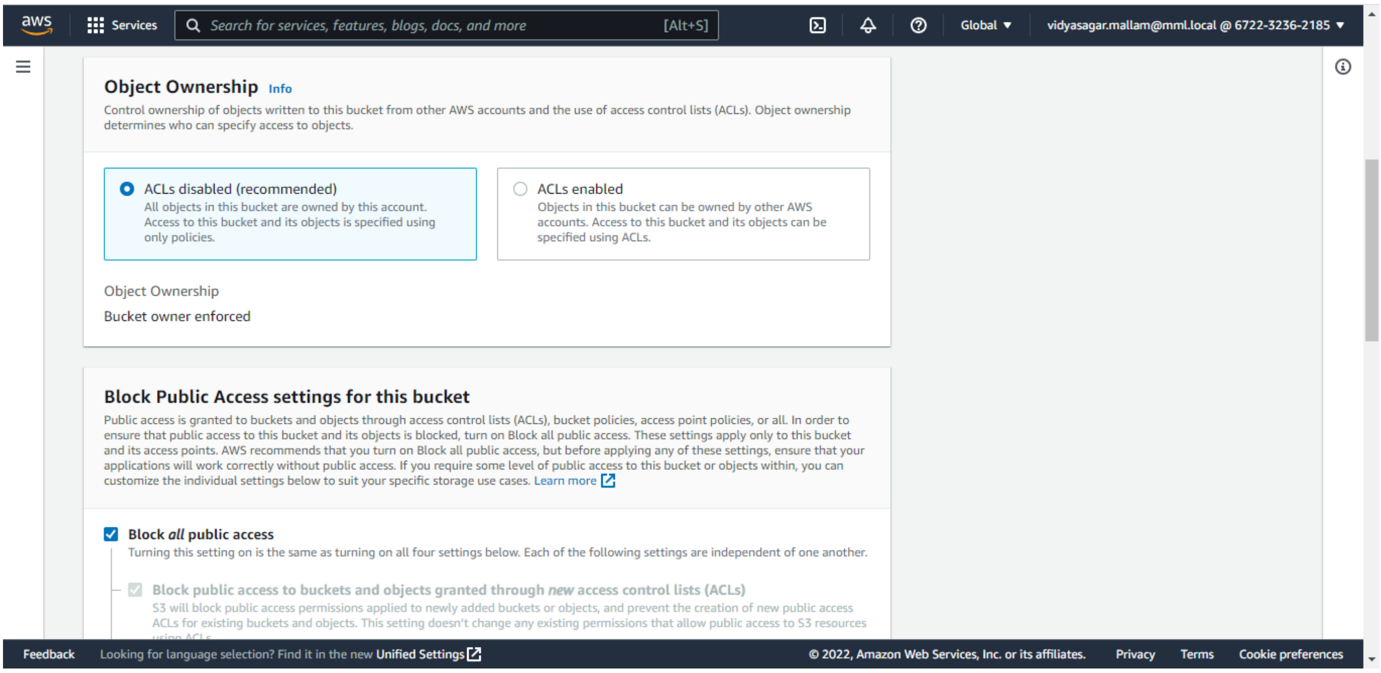
Step-3: Select ACLs disabled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Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

● ACLs disabled (recommended)
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

○ ACLs enabled
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership
Bucket owner enforced

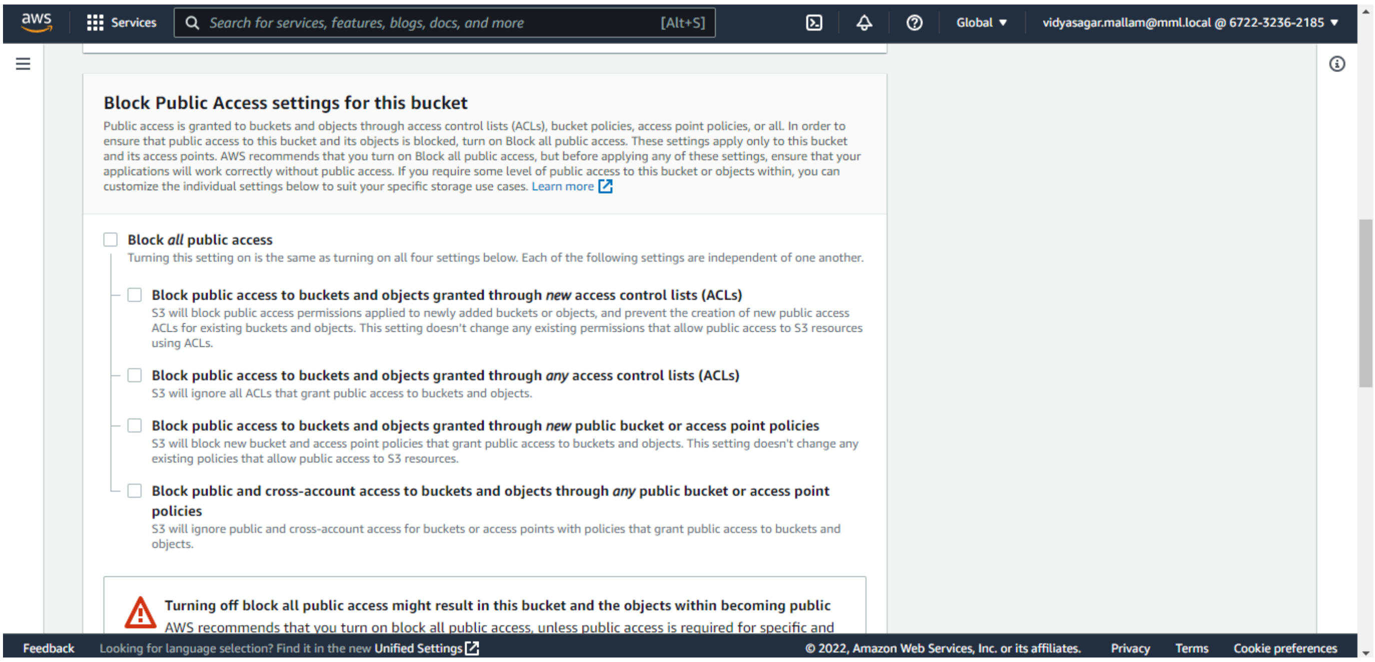
Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings 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. Learn more

☑ Block *all* public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

☑ Block public access to buckets and objects granted through *new* access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

Step-4: Uncheck the block all public access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Block Public Access settings for this bucket

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□ Block *all* public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

□ Block public access to buckets and objects granted through *new* access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

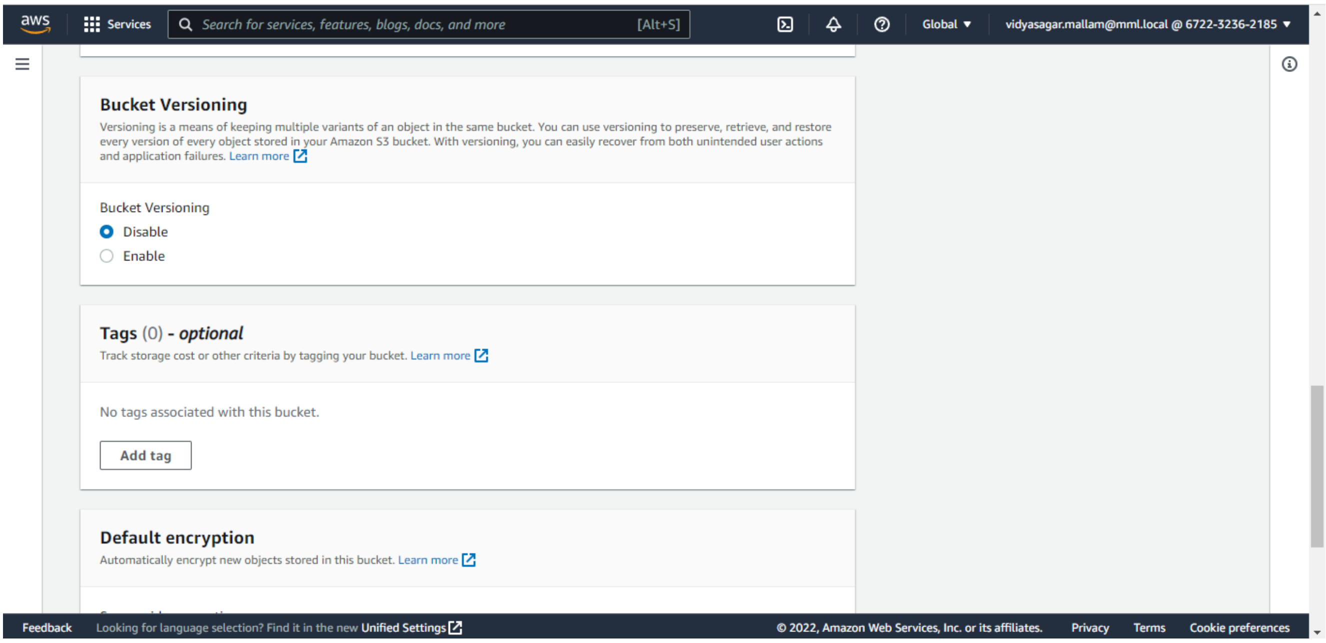
□ Block public access to buckets and objects granted through *any* access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.

□ Block public access to buckets and objects granted through *new* public bucket or access point policies
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

□ Block public and cross-account access to buckets and objects through *any* public bucket or access point policies
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

⚠ Turning off block all public access might result in this bucket and the objects within becoming public
AWS recommends that you turn on block all public access, unless public access is required for specific and

Step-5: Disable Bucket Versioning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Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

Bucket Versioning

● Disable

○ Enable

Tags (0) - *optional*

Track storage cost or other criteria by tagging your bucket. Learn more

No tags associated with this bucket.

Default encryption

Automatically encrypt new objects stored in this bucket. Learn more

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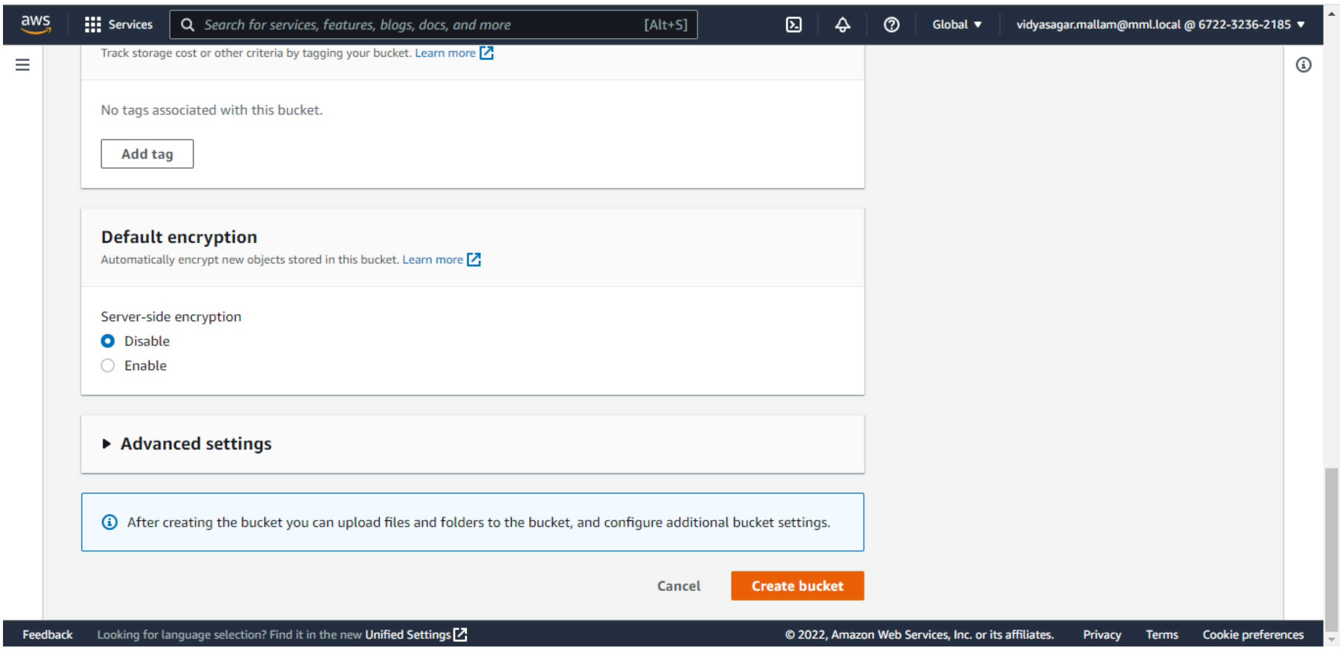
Step-6: Disable Default encryption and click on create application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Track storage cost or other criteria by tagging your bucket. Learn more

No tags associated with this bucket.

Default encryption

Automatically encrypt new objects stored in this bucket. Learn more

Server-side encryption

● Disable

○ Enable

▸ **Advanced settings**

After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel
Create bucket
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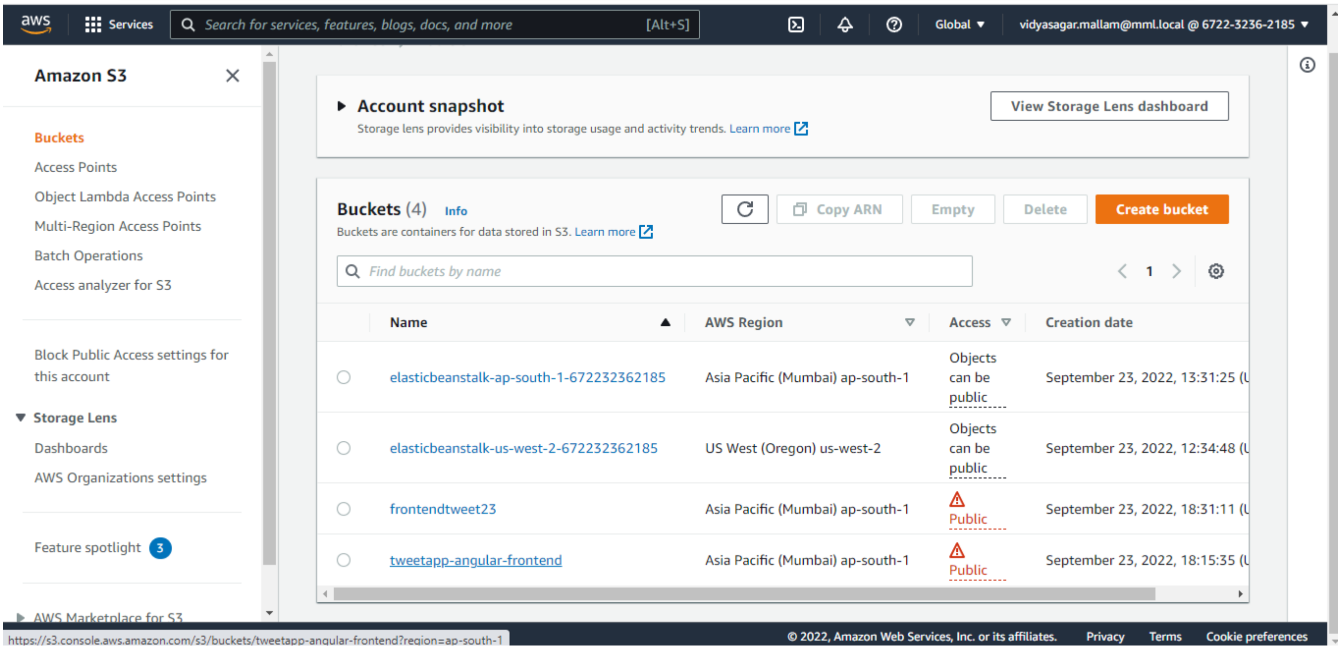
Step-7: We can see the list of buckets created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Account snapshot

Storage lens provides visibility into storage usage and activity trends. Learn more

View Storage Lens dashboard

Buckets (4) Info

Buckets are containers for data stored in S3. Learn more

Copy ARN
Empty
Delete
Create bucket
Find buckets by name
1

	Name	AWS Region	Access	Creation date
○	elasticbeanstalk-ap-south-1-672232362185	Asia Pacific (Mumbai) ap-south-1	Objects can be public	September 23, 2022, 13:31:25 (U
○	elasticbeanstalk-us-west-2-672232362185	US West (Oregon) us-west-2	Objects can be public	September 23, 2022, 12:34:48 (U
○	frontendtweet23	Asia Pacific (Mumbai) ap-south-1	⚠ Public	September 23, 2022, 18:31:11 (U
○	tweetapp-angular-frontend	Asia Pacific (Mumbai) ap-south-1	⚠ Public	September 23, 2022, 18:15:35 (U

https://s3.console.aws.amazon.com/s3/buckets/tweetapp-angular-frontend?region=ap-south-1

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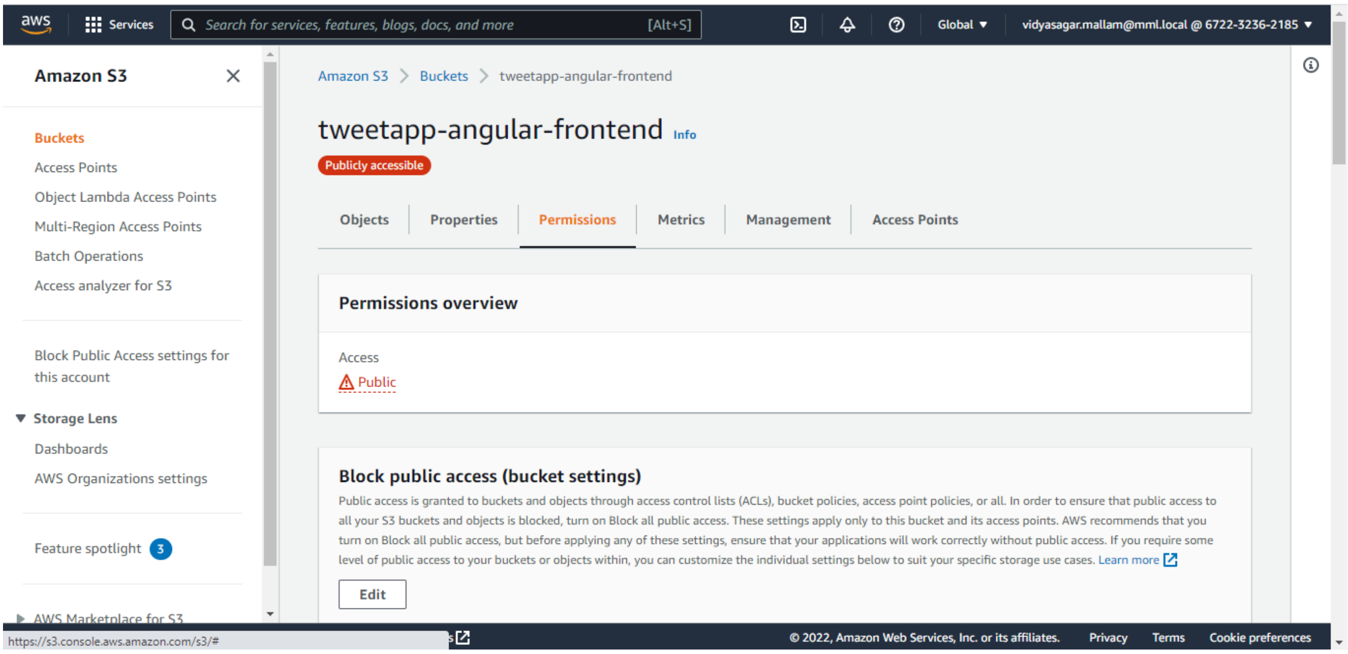
Step-8: Click on the bucket and go to permissions tab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Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight 3
AWS Marketplace for S3
Amazon S3 > Buckets > tweetapp-angular-frontend

tweetapp-angular-frontend Info

Publicly accessible

Objects
Properties
Permissions
Metrics
Management
Access Points

Permissions overview

Access

⚠ Public

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings 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 your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more

https://s3.console.aws.amazon.com/s3/#

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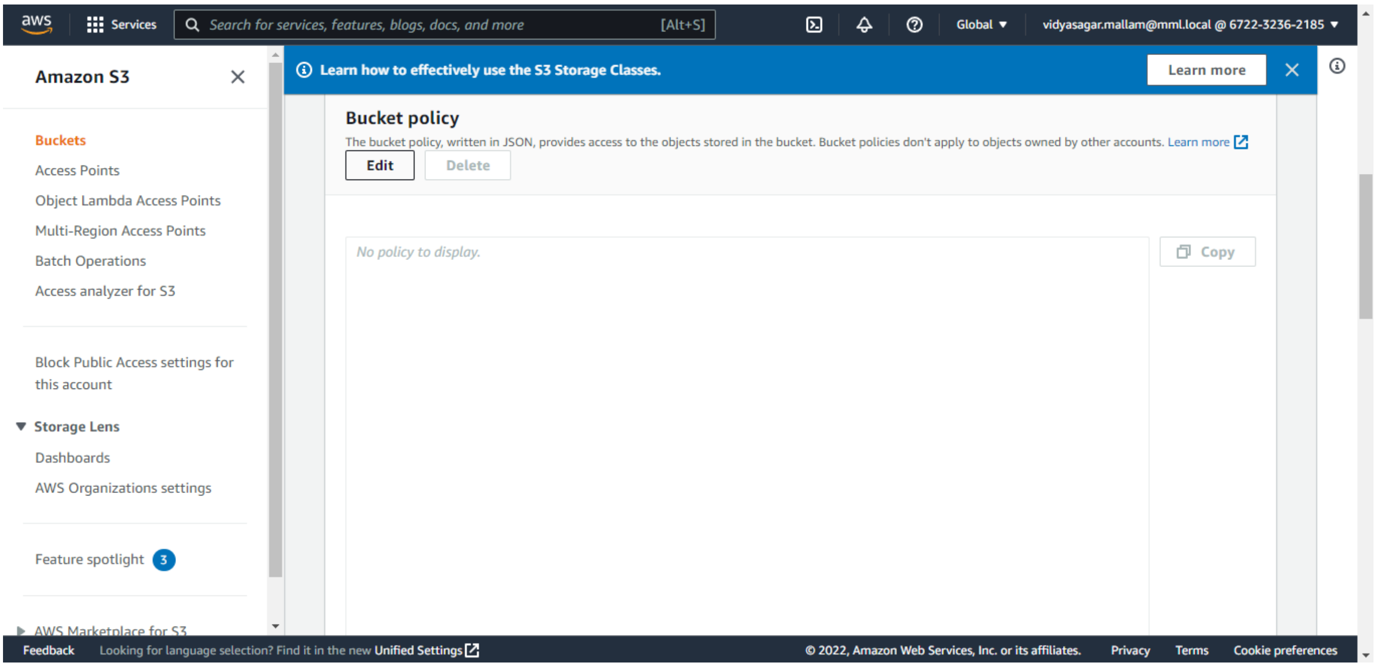
Step-9: Scroll down and click on edit Bucket policy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Learn how to effectively use the S3 Storage Classes.

Bucket policy

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

No policy to display.

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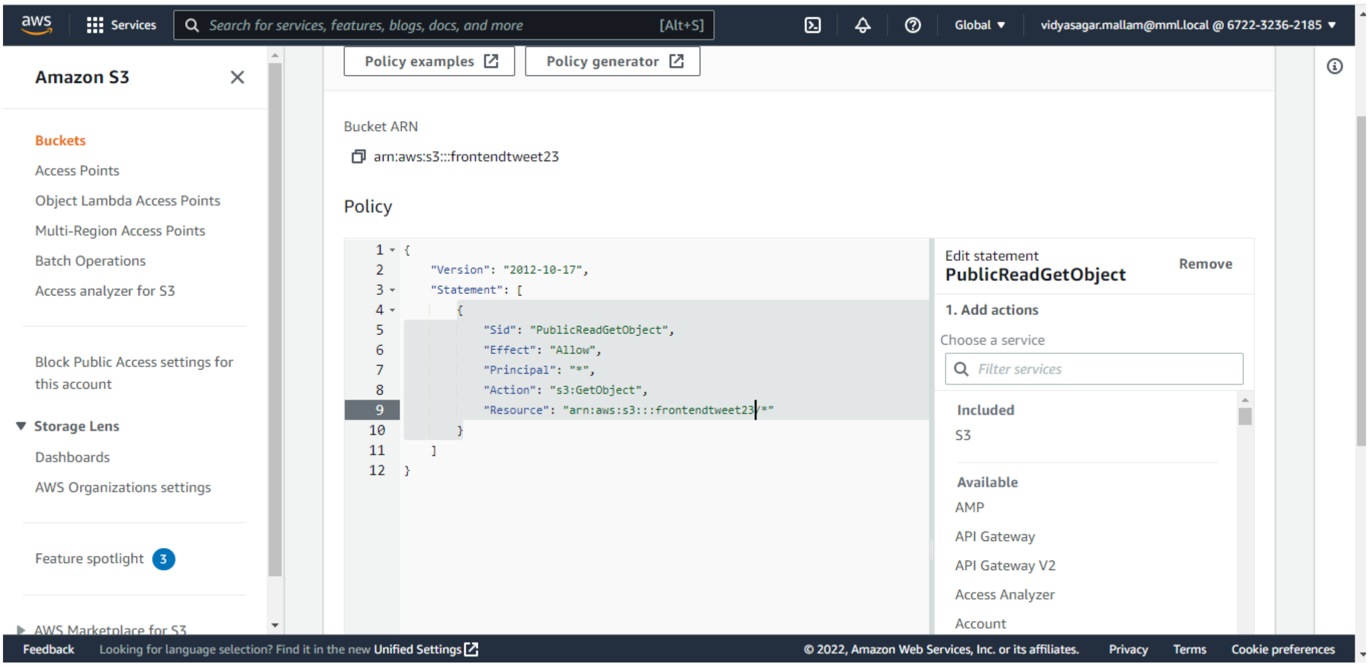
Step-10: paste the ARN link (provided above) in resource and add /* at the end and save the changes.



Bucket ARN

arn:aws:s3:::frontendtweet23

Policy

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PublicReadGetObject",
            "Effect": "Allow",
            "Principal": "*",
            "Action": "s3:GetObject",
            "Resource": "arn:aws:s3:::frontendtweet23/*"
        }
    ]
}
```

Edit statement
PublicReadGetObject

1. Add actions

Choose a service

Looking for language selection? Find it in the new Unified Settings

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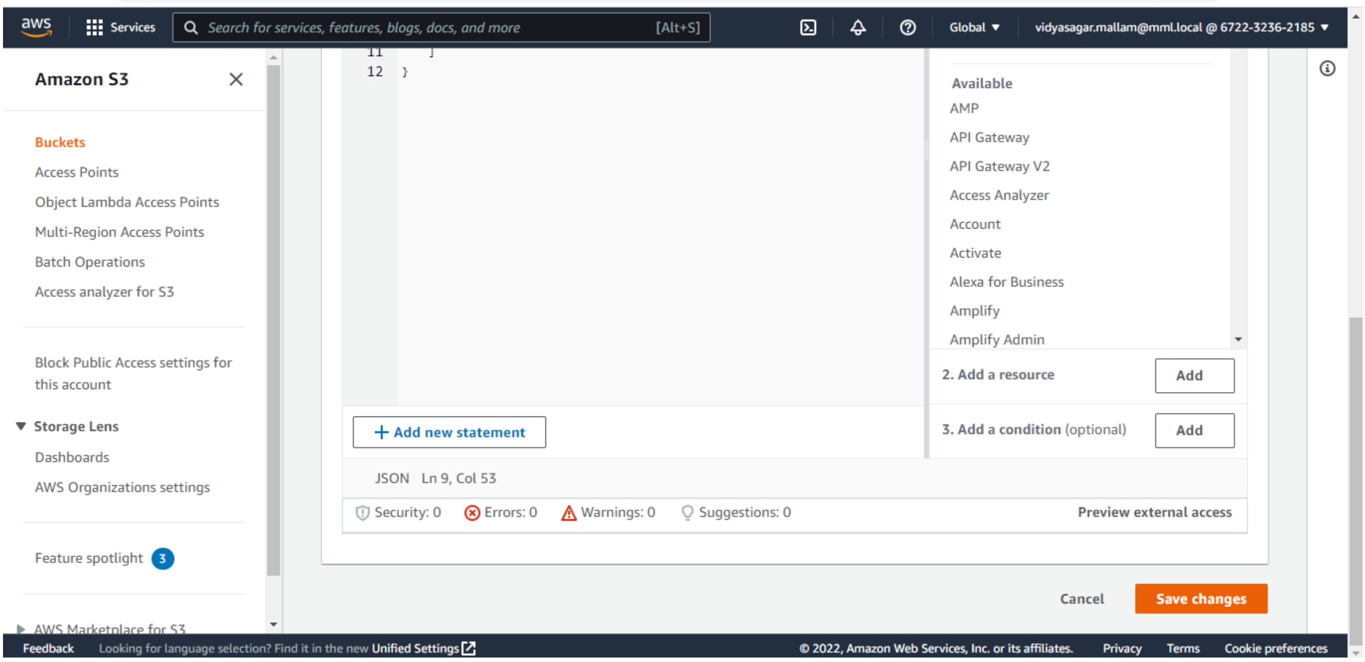
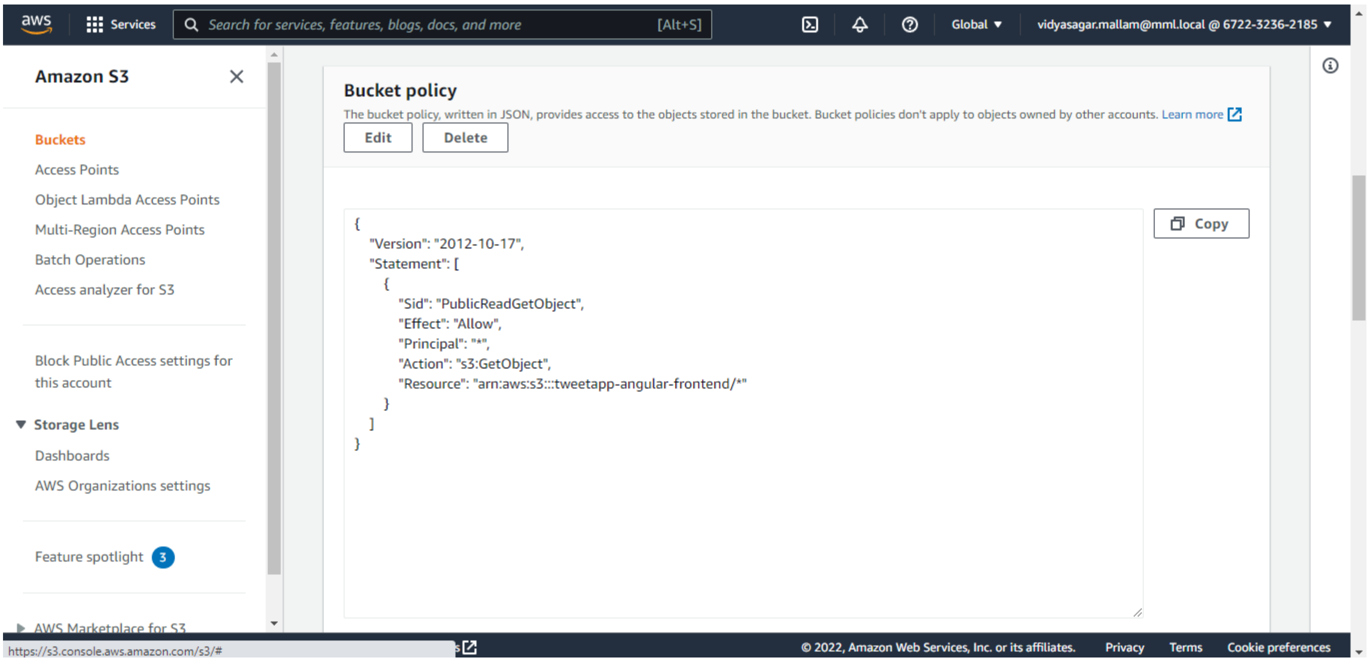


```
  ]
}
```

We can see the edited policy here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Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight 3
AWS Marketplace for S3
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Delete
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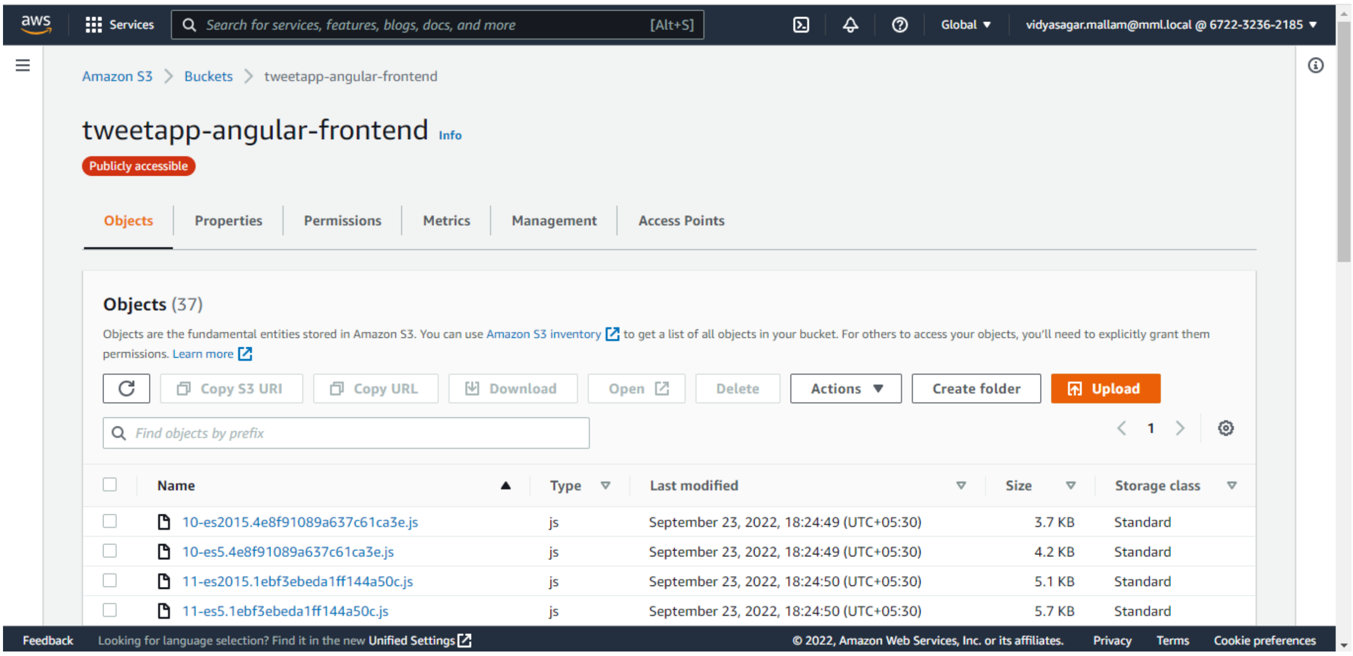
Bucket policy

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": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::tweetapp-angular-frontend/*"
    }
  ]
}
```

Step-11: Open objects tab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Amazon S3 > Buckets > tweetapp-angular-frontend
tweetapp-angular-frontend Info
Publicly accessible
Objects
Properties
Permissions
Metrics
Management
Access Points

Objects (37)

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

□	Name	Type	Last modified	Size	Storage class
□	10-es2015.4e8f91089a637c61ca3e.js	js	September 23, 2022, 18:24:49 (UTC+05:30)	3.7 KB	Standard
□	10-es5.4e8f91089a637c61ca3e.js	js	September 23, 2022, 18:24:49 (UTC+05:30)	4.2 KB	Standard
□	11-es2015.1ebf3ebeda1ff144a50c.js	js	September 23, 2022, 18:24:50 (UTC+05:30)	5.1 KB	Standard
□	11-es5.1ebf3ebeda1ff144a50c.js	js	September 23, 2022, 18:24:50 (UTC+05:30)	5.7 KB	Standard

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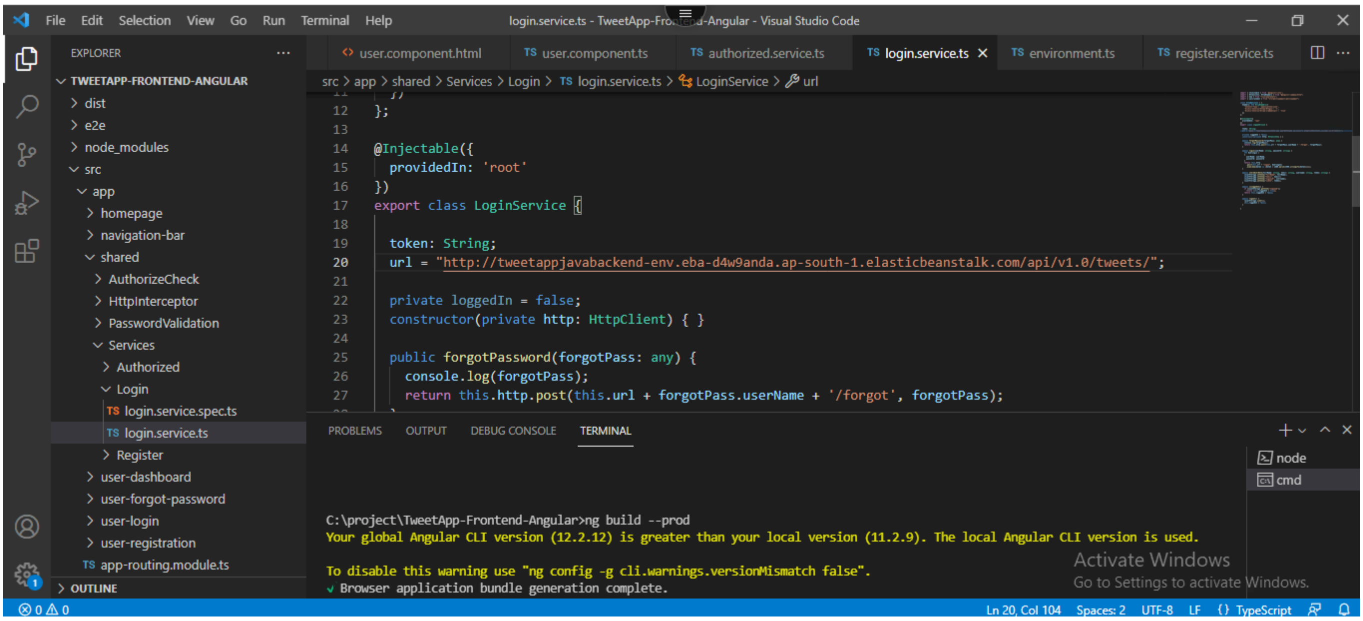
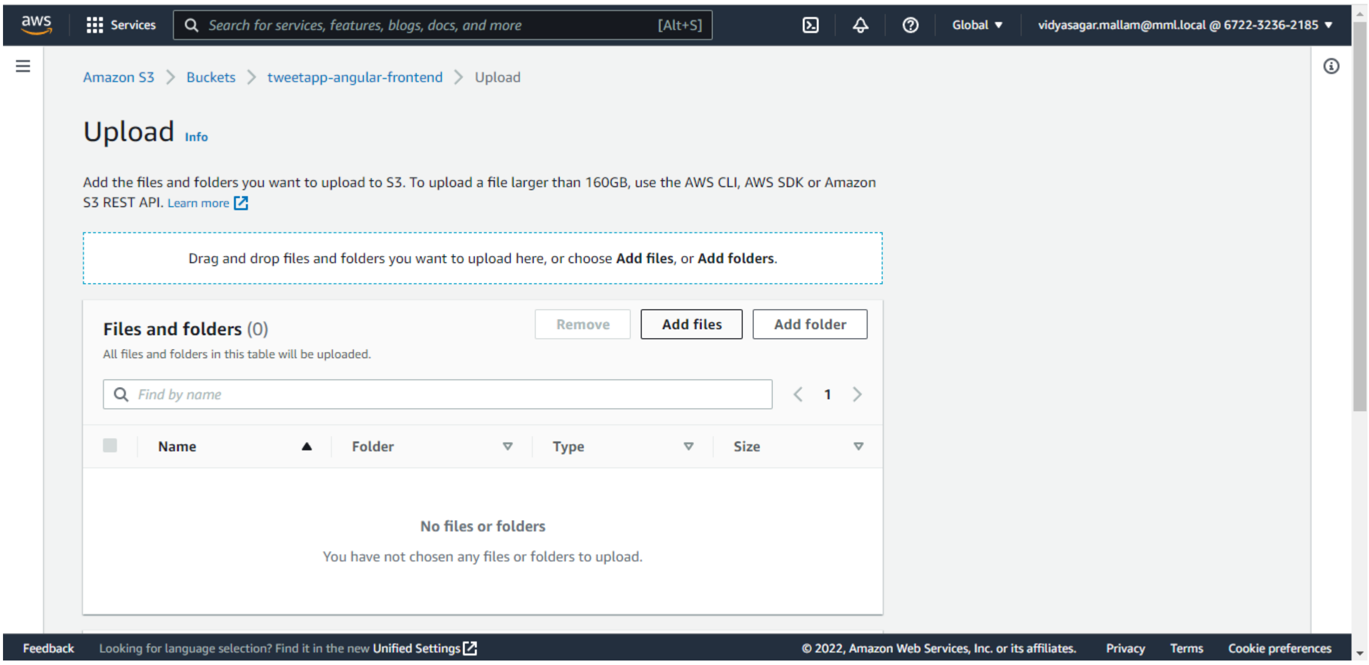
Step-12: Now go to Angular code and run command “ng build –prod”. This will create a dist folder in application folder.



```
};

@Injectable({
  providedIn: 'root'
})
export class LoginService {

  token: String;
  url = "http://tweetappjavabackend-env.eba-d4w9anda.ap-south-1.elasticbeanstalk.com/api/v1.0/tweets/";

  private loggedIn = false;
  constructor(private http: HttpClient) { }

  public forgotPassword(forgotPass: any) {
    console.log(forgotPass);
    return this.http.post(this.url + forgotPass.userName + '/forgot', forgotPass);
```

```
C:\project\TweetApp-Frontend-Angular>ng build --prod
Your global Angular CLI version (12.2.12) is greater than your local version (11.2.9). The local Angular CLI version is used.

To disable this warning use "ng config -g cli.warnings.versionMismatch false".
✓ Browser application bundle generation complete.
```

Step-13: click on add files and upload dist folder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Amazon S3 > Buckets > tweetapp-angular-frontend > Upload
Remove
Add files
Add folder
Find by name
1
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Upload Info

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

Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.

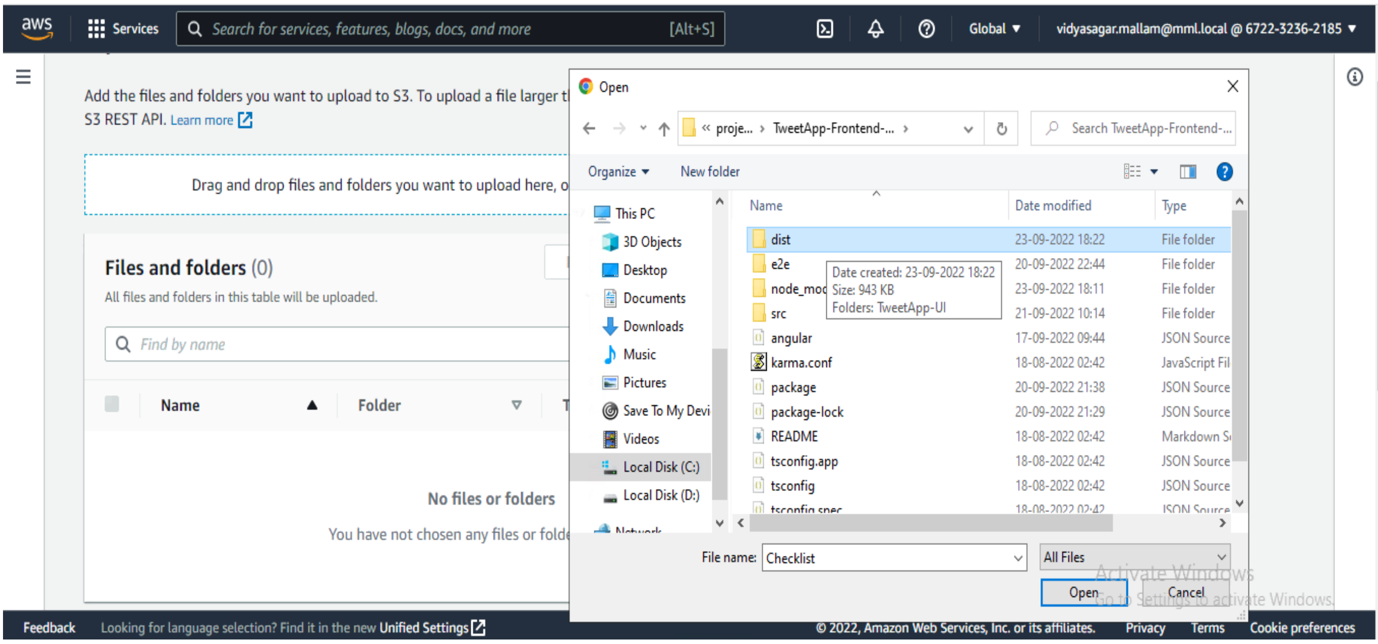
Files and folders (0)

All files and folders in this table will be uploaded.

Name	Folder	Type	Size

No files or folders

You have not chosen any files or folders to upload.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Open
« proje... > TweetApp-Frontend-... >
Search TweetApp-Frontend-...
Organize ▼
New folder
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Save To My Devi
Videos
Local Disk (C:)
Local Disk (D:)
Network
Open
Cancel
Activate Windows
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Add the files and folders you want to upload to S3. To upload a file larger t
S3 REST API. Learn more

Drag and drop files and folders you want to upload here, o

Files and folders (0)

All files and folders in this table will be uploaded.

No files or folders

You have not chosen any files or folde

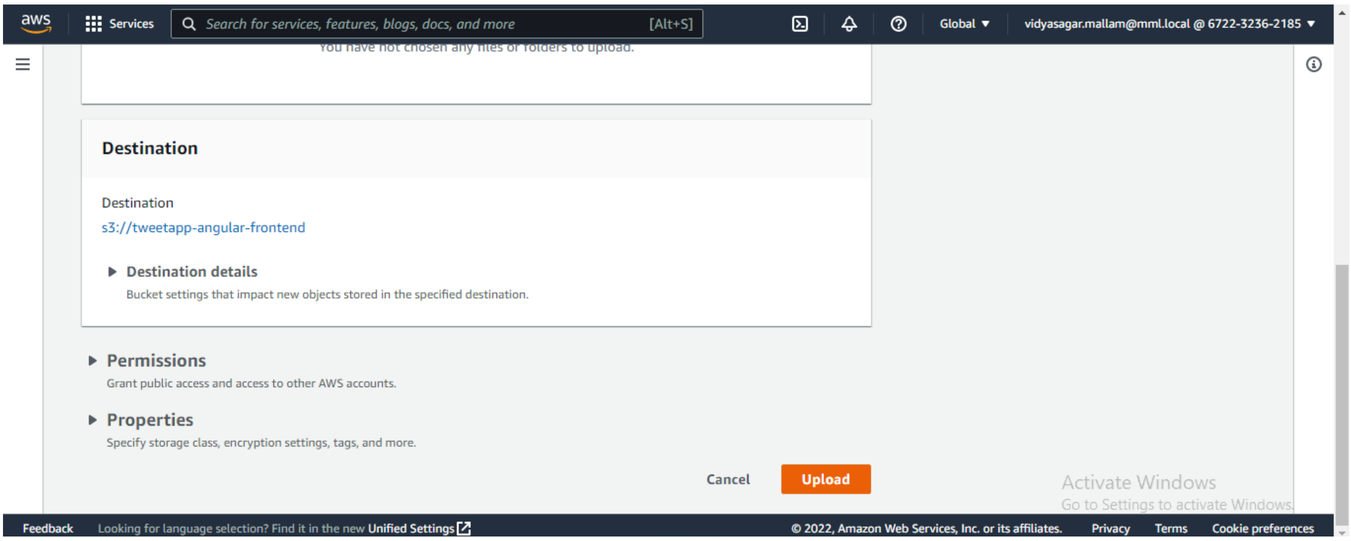
Name	Date modified	Type
dist	23-09-2022 18:22	File folder
e2e	20-09-2022 22:44	File folder
node_moc	23-09-2022 18:11	File folder
src	21-09-2022 10:14	File folder
angular	17-09-2022 09:44	JSON Source
karma.conf	18-08-2022 02:42	JavaScript Fil
package	20-09-2022 21:38	JSON Source
package-lock	20-09-2022 21:29	JSON Source
README	18-08-2022 02:42	Markdown S
tsconfig.app	18-08-2022 02:42	JSON Source
tsconfig	18-08-2022 02:42	JSON Source
tsconfig.spec	18-08-2022 02:42	JSON Source

Date created: 23-09-2022 18:22
Size: 943 KB
Folders: TweetApp-UI

File name: Checklist

All Files

Step-14: Once files are uploaded click on the upload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You have not chosen any files or folders to upload.

Destination

Destination
s3://tweetapp-angular-frontend

▶ Destination details
Bucket settings that impact new objects stored in the specified destination.

▶ Permissions
Grant public access and access to other AWS accounts.

▶ Properties
Specify storage class, encryption settings, tags, and more.

Cancel
Upload
Activate Windows
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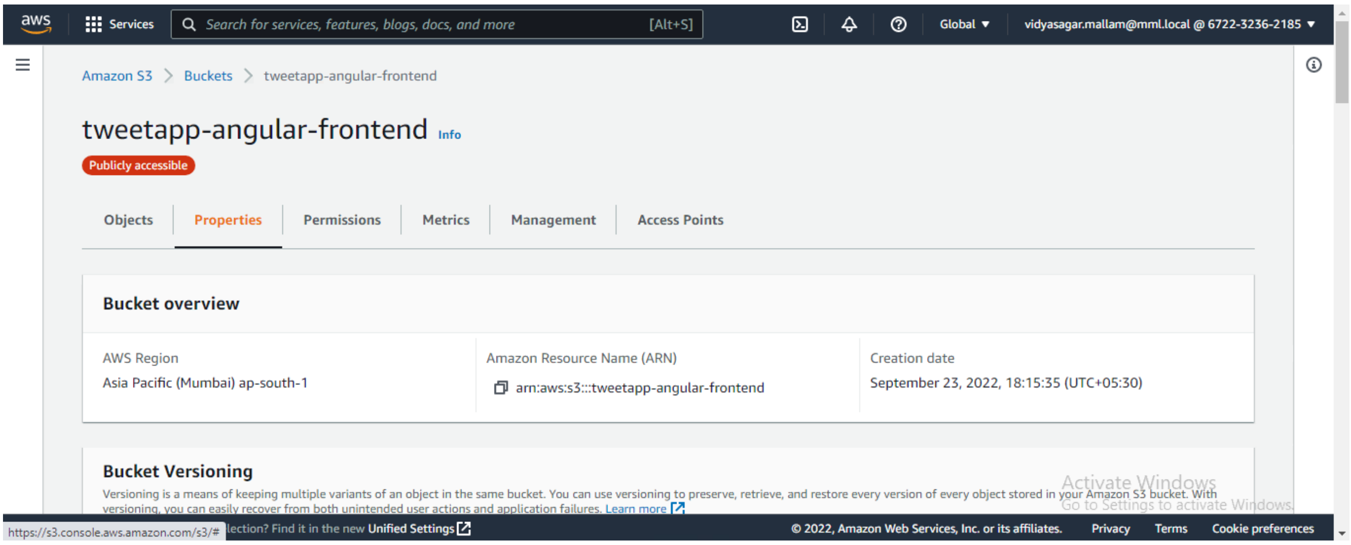
Step-15: Next go to properties tab


aws
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Amazon S3 > Buckets > tweetapp-angular-frontend

tweetapp-angular-frontend Info

Publicly accessible

Objects
Properties
Permissions
Metrics
Management
Access Points

Bucket overview

AWS Region
Asia Pacific (Mumbai) ap-south-1

Amazon Resource Name (ARN)
arn:aws:s3:::tweetapp-angular-frontend

Creation date
September 23, 2022, 18:15:35 (UTC+05:30)

Bucket Versioning
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

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https://s3.console.aws.amazon.com/s3/#
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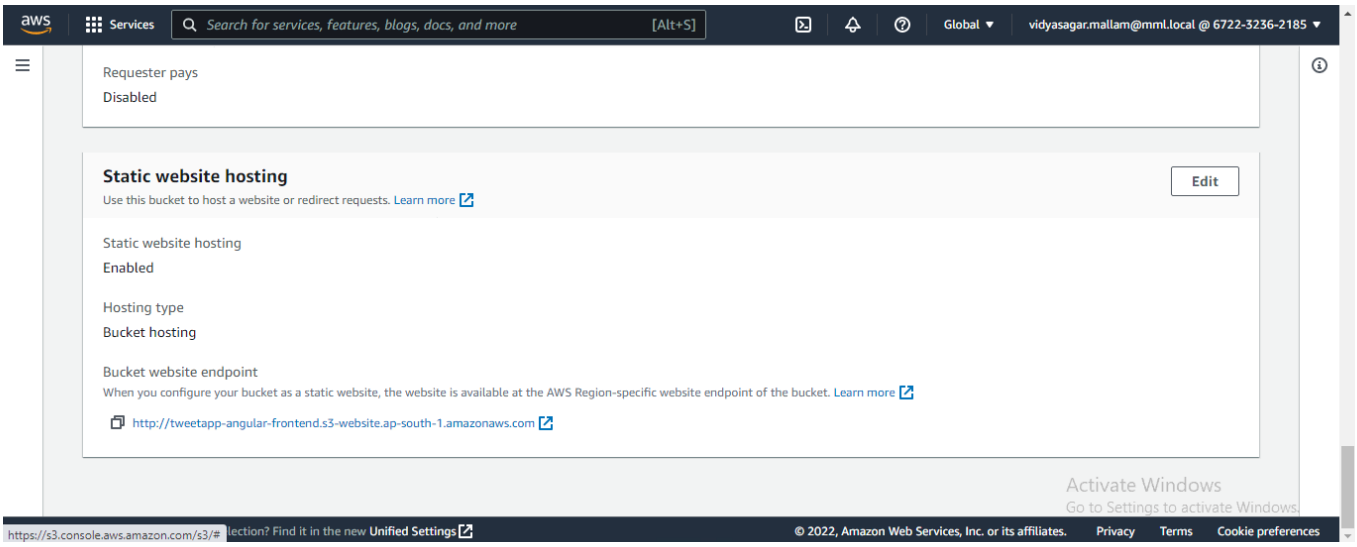
Step-16: go to static website hosting and click on edit and enable static website hosting


aws
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vidyasagar.mallam@mml.local @ 6722-3236-2185 ▾

Requester pays
Disabled

Static website hosting
Use this bucket to host a website or redirect requests. Learn more

Static website hosting
Enabled

Hosting type
Bucket hosting

Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more

http://tweetapp-angular-frontend.s3-website.ap-south-1.amazonaws.com

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https://s3.console.aws.amazon.com/s3/#
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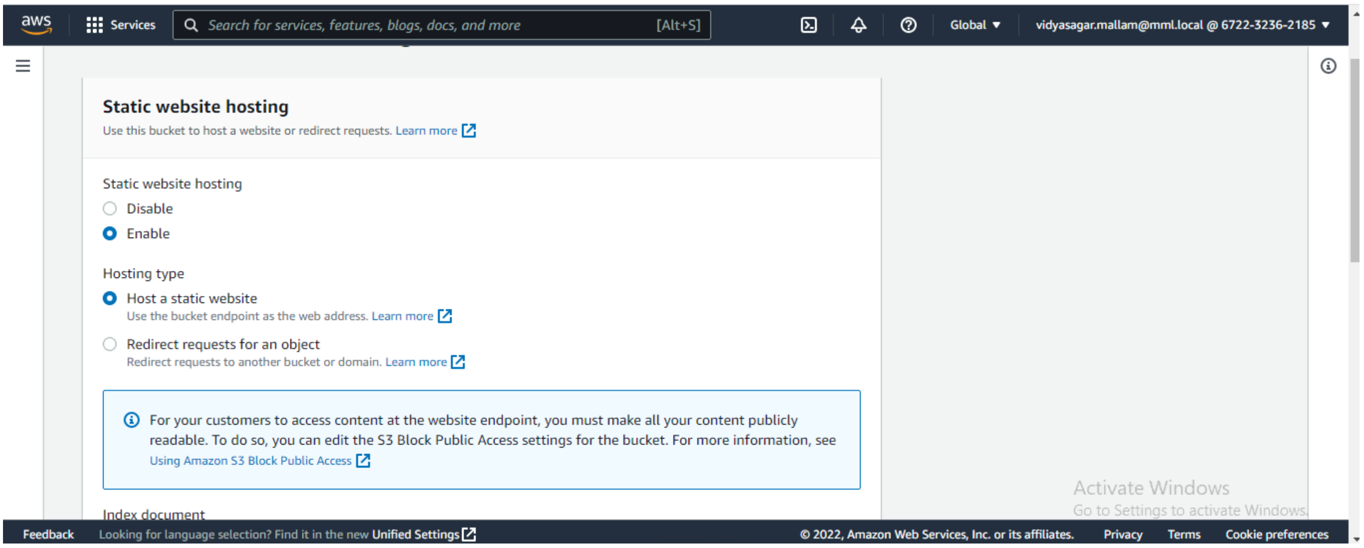
aws
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Activate Windows
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Feedback
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Static website hosting

Use this bucket to host a website or redirect requests. Learn more

Static website hosting

○ Disable

● Enable

Hosting type

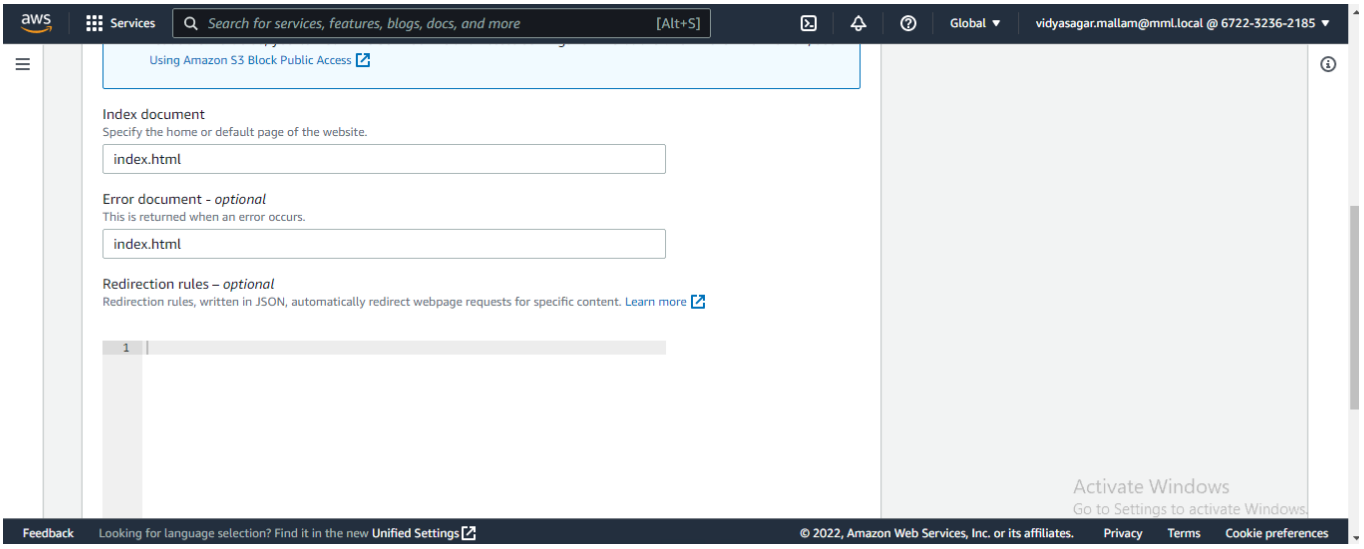
● Host a static website
Use the bucket endpoint as the web address. Learn more

○ Redirect requests for an object
Redirect requests to another bucket or domain. Learn more

For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see Using Amazon S3 Block Public Access

Index document

Step-18: now add index.html in index document


aws
Services
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Using Amazon S3 Block Public Access

Index document
Specify the home or default page of the website.

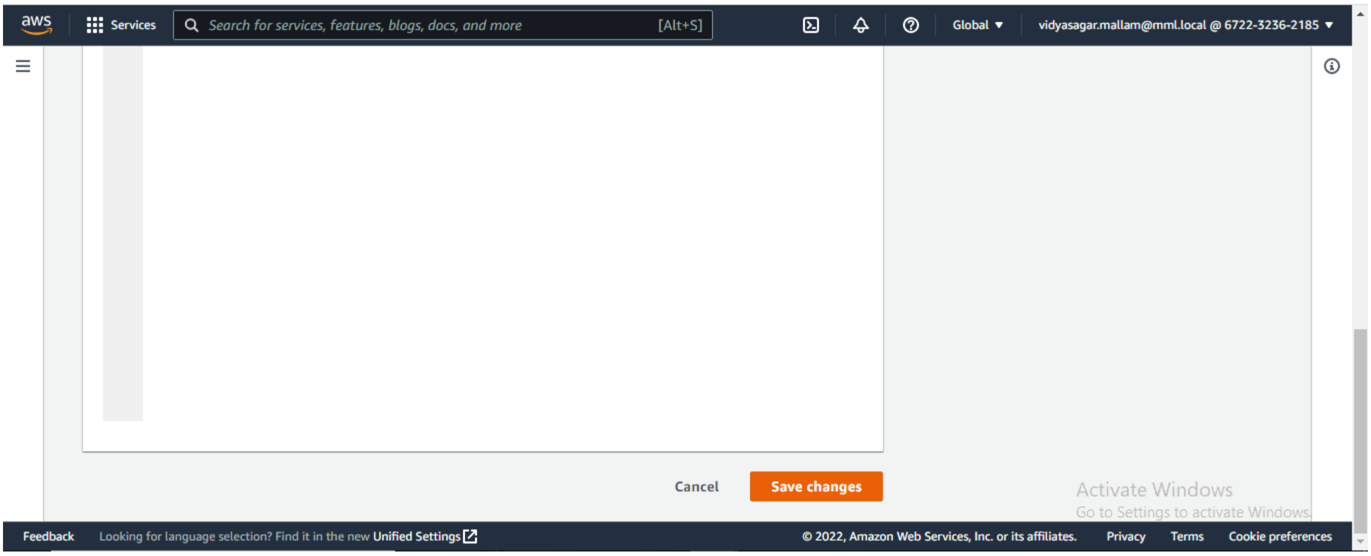
index.html

Error document - *optional*
This is returned when an error occurs.

index.html

Redirection rules – *optional*
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. Learn more

Step-19: And save changes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Global
vidyasagar.mallam@mml.local @ 6722-3236-2185
Cancel
Save changes
Activate Windows
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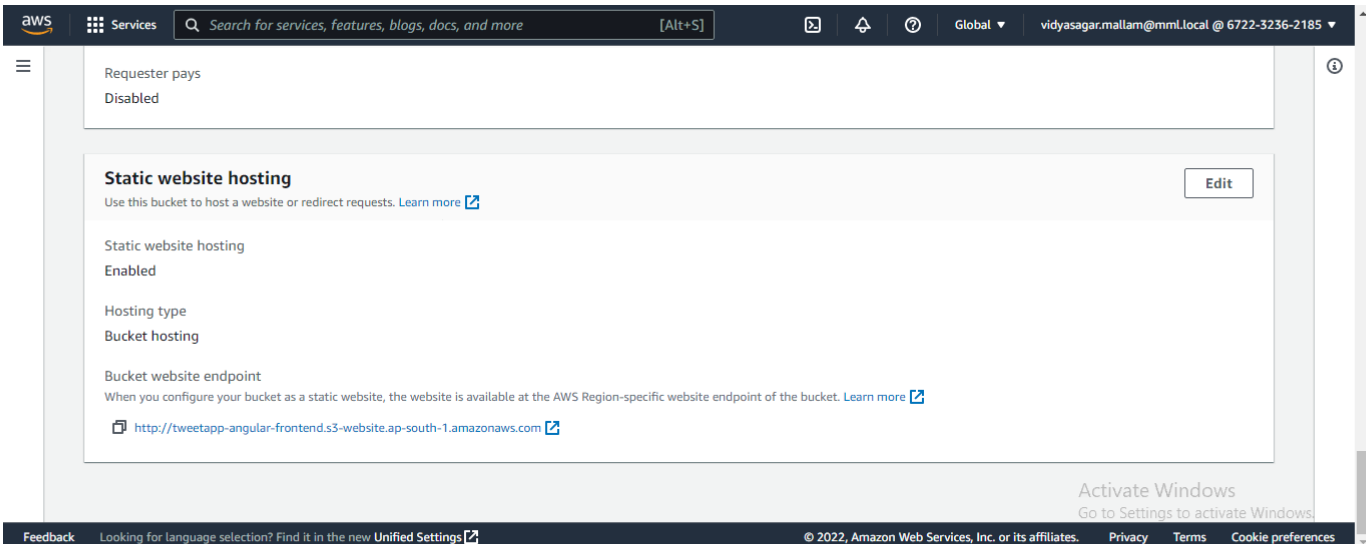
Step-20: now we can use the below link for our tweetApp (application will be running on this link)


aws
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Global
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Edit
Activate Windows
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Requester pays
Disabled

Static website hosting
Use this bucket to host a website or redirect requests. Learn more

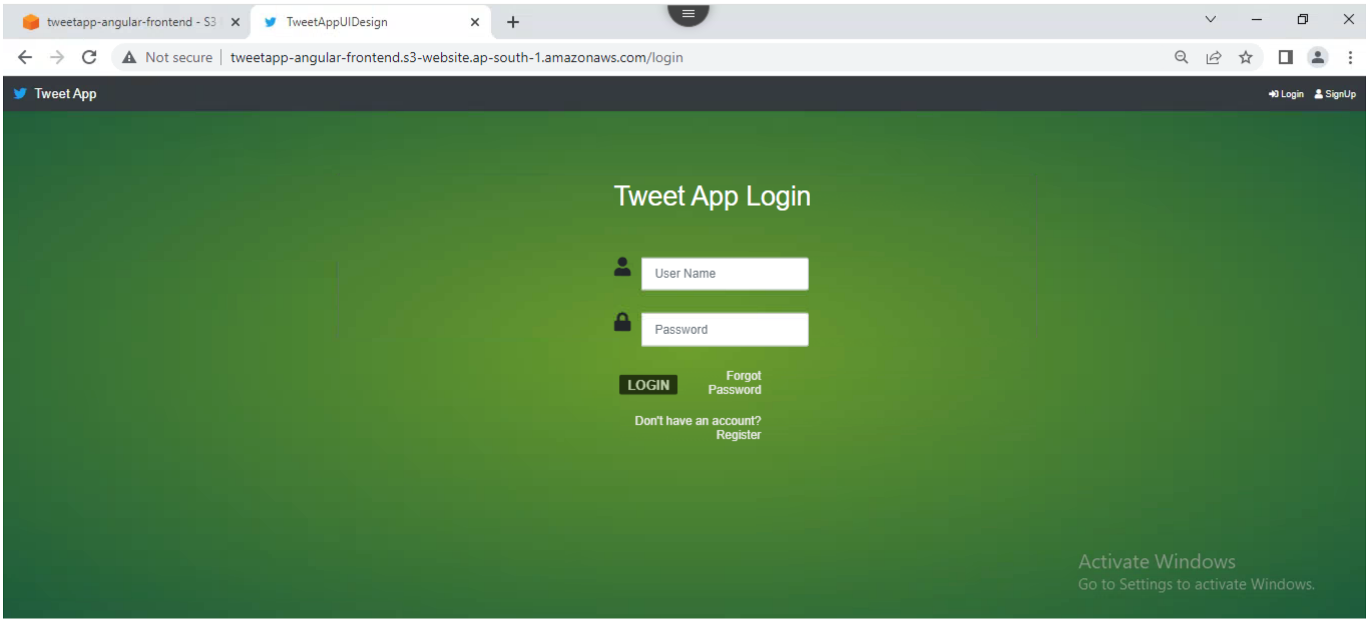
Static website hosting
Enabled

Hosting type
Bucket hosting

Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. Learn more

http://tweetapp-angular-frontend.s3-website.ap-south-1.amazonaws.com

Step-21: We can use tweetApp with this link


tweetapp-angular-frontend - S3
TweetAppUIDesign
Not secure
Tweet App
Login
SignUp
Activate Windows
Go to Settings to activate Windows.

tweetapp-angular-frontend.s3-website.ap-south-1.amazonaws.com/login

Tweet App Login

User Name

Password

LOGIN

Forgot Password

Don't have an account? Register

Mallam Vidya Sagar

VidyaSagar.Mallam@cognizant.com

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