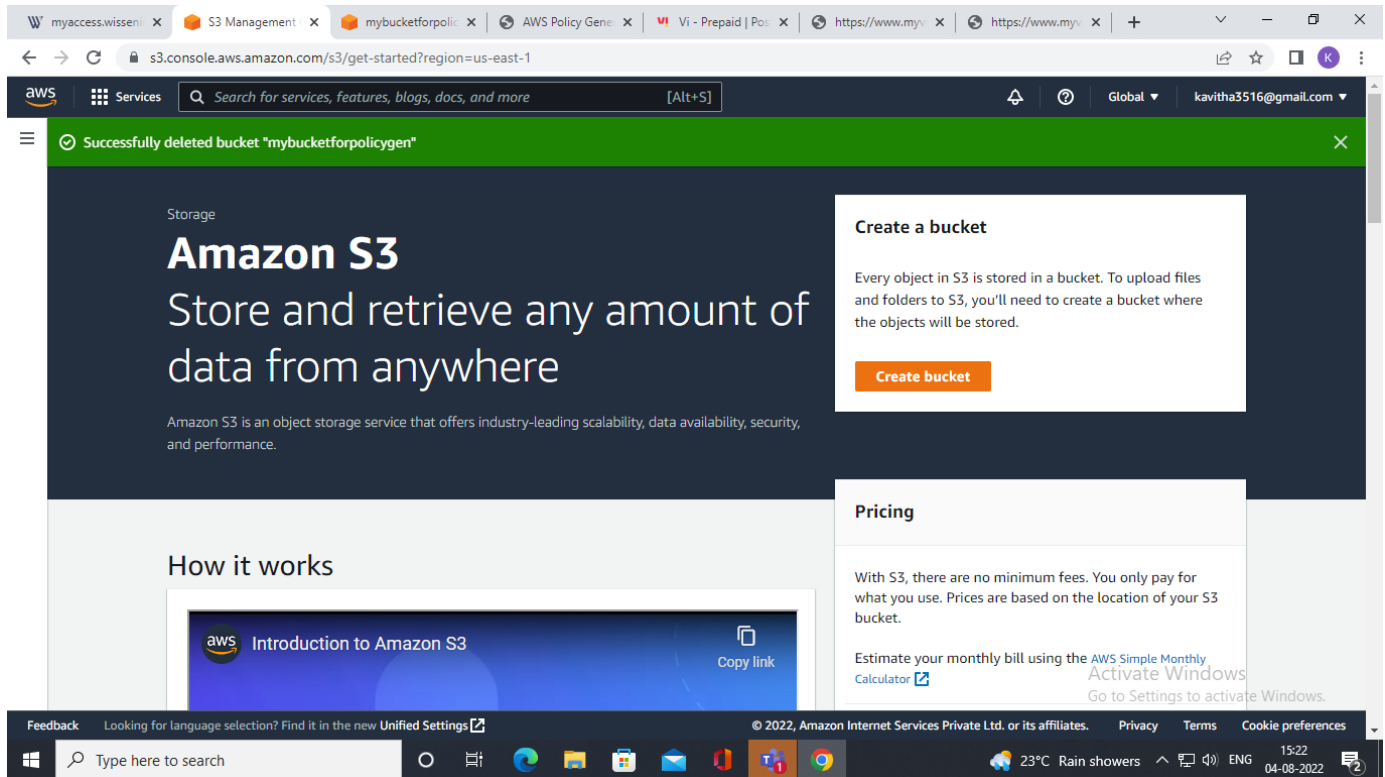


Policy Gen of S3 Bucket

1. Login to AWS Management console --> Go to S3 resource Dashboard--> click on create Bucket.



2. Give Required parameters to create S3 Bucket, but bucket name should be unique.

Amazon S3 > Buckets > Create bucket

Create bucket [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name

mybucketforpolicygen

Bucket name must be globally unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

US East (N. Virginia) us-east-1

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

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](#)

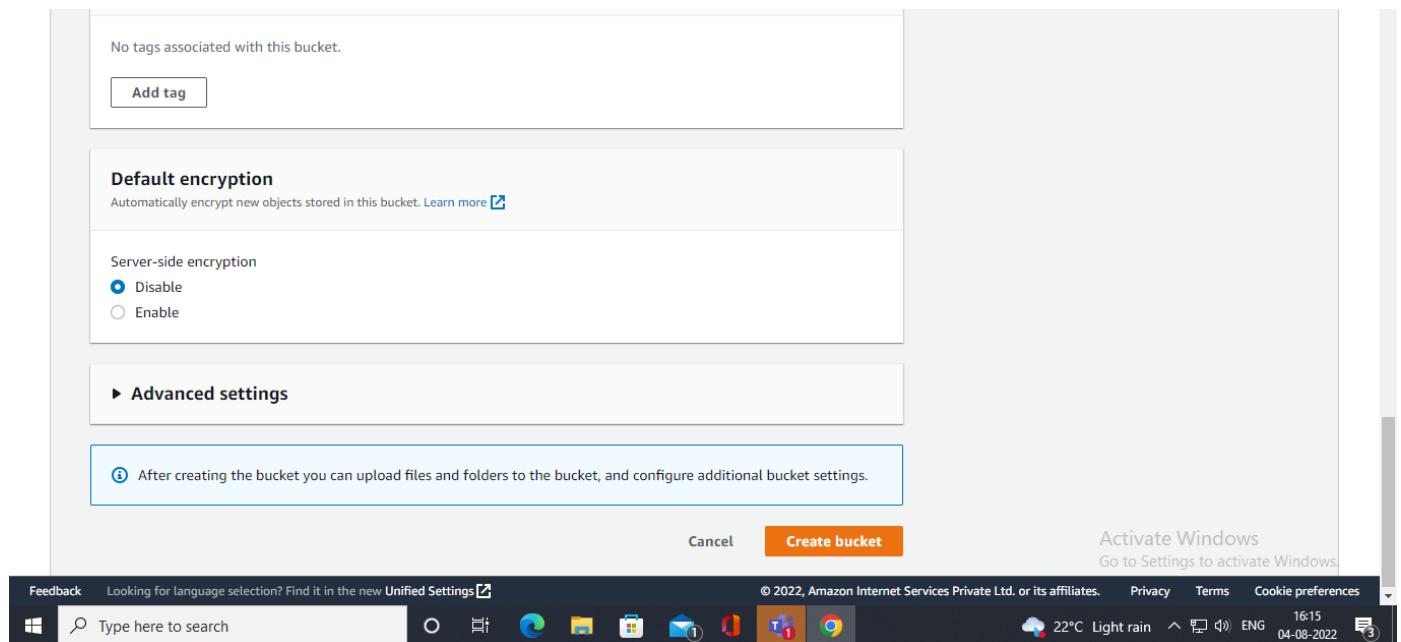
☐ **Block all public access**

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)**

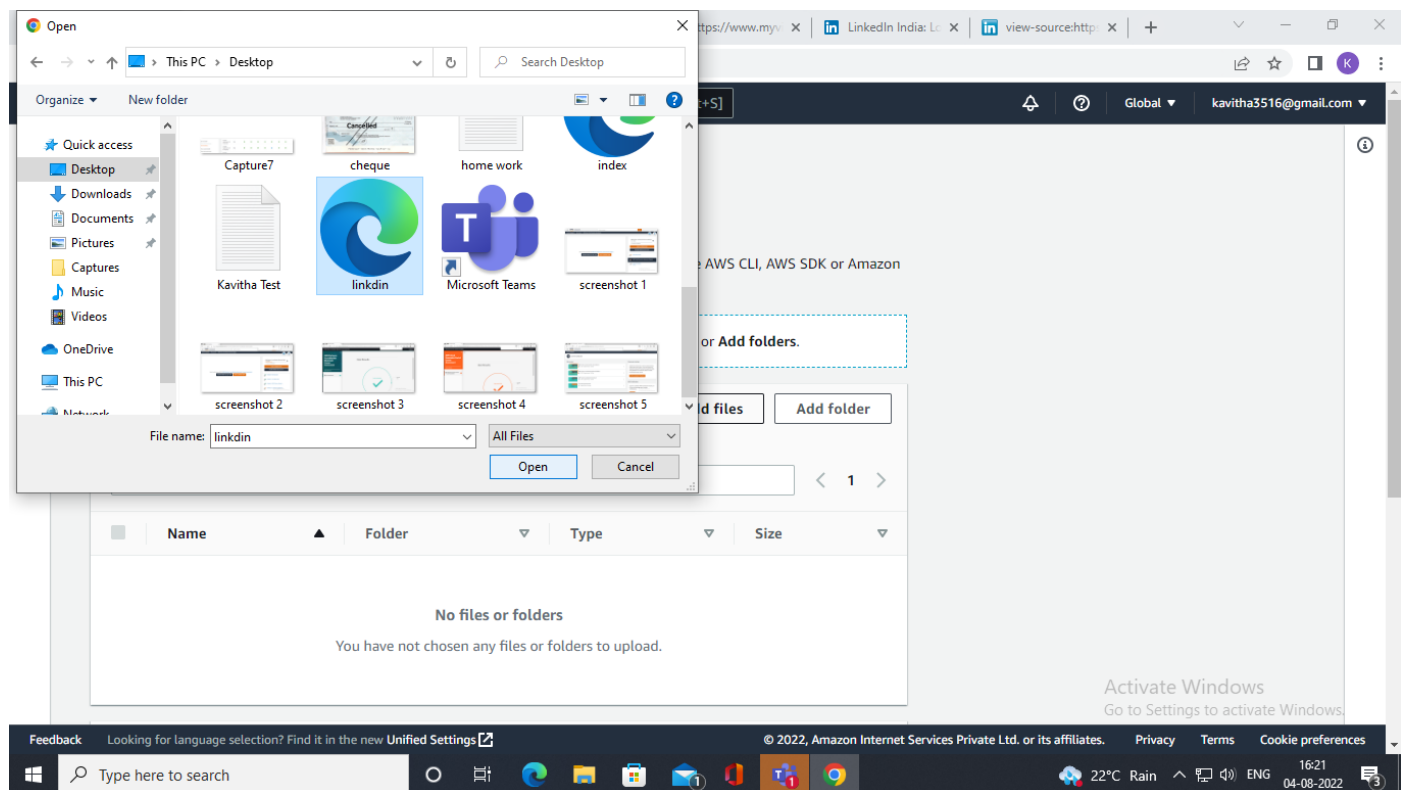
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources

Activate Windows
Go to Settings to activate Windows



3. Bucket is created successfully and upload object in bucket.

Click on bucket --> select upload --> add files --> click on upload. Successfully file is uploaded



The screenshot displays the AWS S3 console interface during an upload process. The browser window shows the URL `s3.console.aws.amazon.com/s3/upload/mybucketforpolicygen?region=us-east-1`. The page title is "Files and folders (1 Total, 115.3 KB)". A table lists the file "linkedin.html" with a size of 115.3 KB. Below the table, the "Destination" section shows the bucket `s3://mybucketforpolicygen`. The "Permissions" section indicates that public access is granted. The "Properties" section allows for specifying storage class, encryption, and tags. At the bottom right, there are "Cancel" and "Upload" buttons. A Windows activation watermark is visible in the bottom right corner.

After clicking the "Upload" button, a green banner at the top of the console states "Upload succeeded" with a link to "View details below". Below this banner, the "Upload: status" section is displayed. It includes a summary table showing the upload progress:

Summary		
Destination <code>s3://mybucketforpolicygen</code>	Succeeded ✔ 1 file, 115.3 KB (100.00%)	Failed ✖ 0 files, 0 B (0%)

Below the summary, there are tabs for "Files and folders" (selected) and "Configuration". The "Files and folders" tab shows the same file "linkedin.html" with a size of 115.3 KB. A Windows activation watermark is also present in the bottom right corner of the console window.

4. For policy generation, click on Permission --> Select bucket policy Edit -->

The image displays two screenshots of the AWS S3 console interface, showing the configuration for a bucket named 'mybucketforpolicygen'.

Top Screenshot: Objects Tab

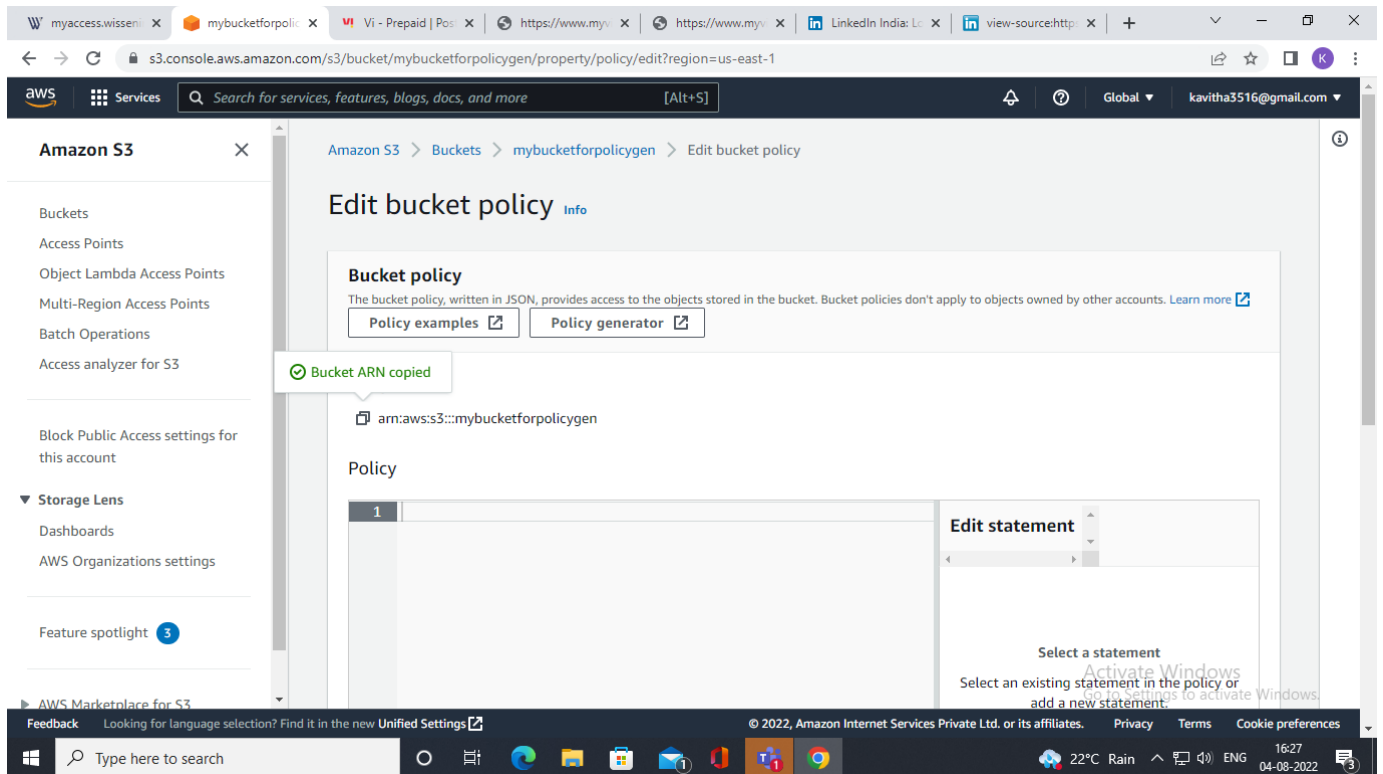
- Navigation:** Amazon S3 > Buckets > mybucketforpolicygen
- Tab Selection:** Objects (selected), Properties, Permissions, Metrics, Management, Access Points
- Objects (1):** Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)
- Actions:** Create folder, Upload, Copy S3 URI, Copy URL, Download, Open, Delete, Actions
- Search:** Find objects by prefix
- Object List:**

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	linkedin.html	html	August 4, 2022, 16:22:07 (UTC+05:30)	115.3 KB	Standard

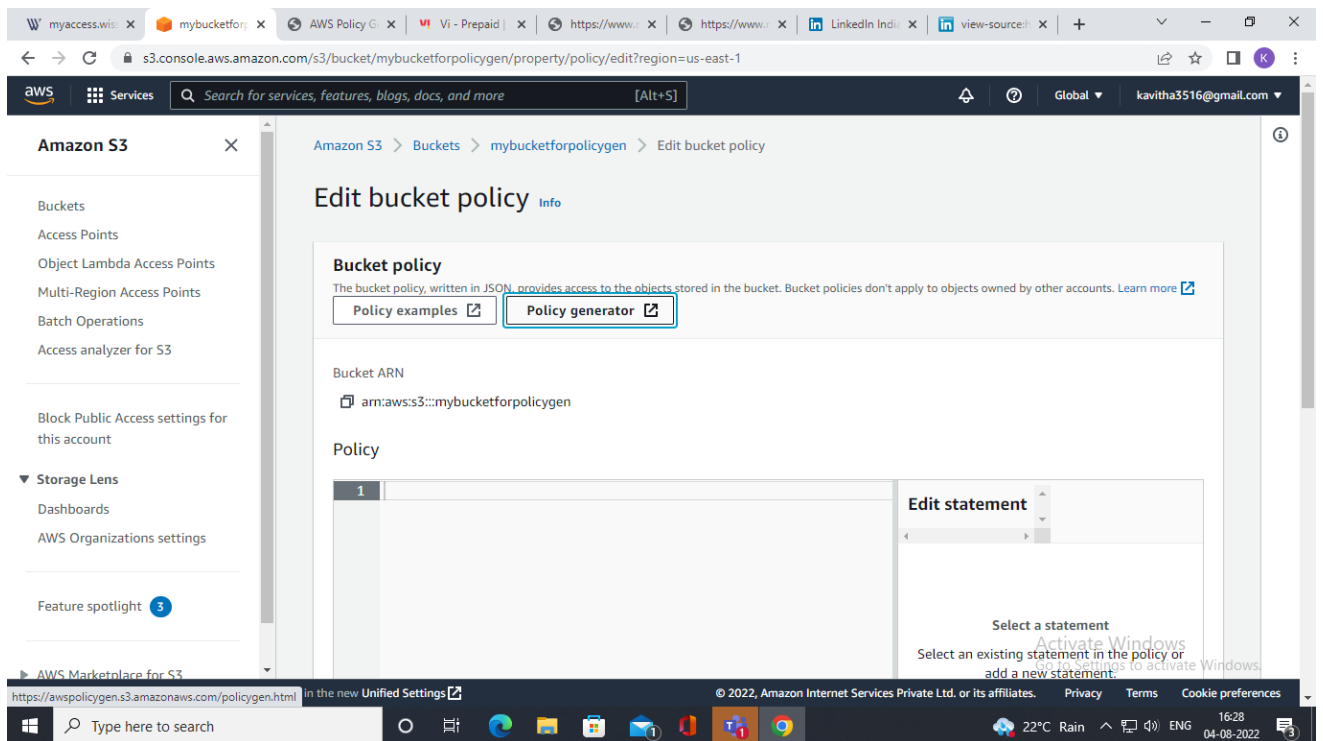
Bottom Screenshot: Permissions Tab

- Navigation:** Amazon S3 > Buckets > mybucketforpolicygen
- Tab Selection:** Objects, Properties, Permissions (selected), Metrics, Management, Access Points
- 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](#)
- Block all public access:** ☐ OFF
- Individual Block Public Access settings for this bucket:**
- 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](#)
- Actions:** Edit, Delete
- Policy Content:** No policy to display. [Copy](#)

5. Copy the ARN of Bucket `arn:aws:s3:::mybucketforpolicygen`



6. Click on Policy Generator



7. In AWS Policy Generator --> select policy Type as S3 Bucket Policy-->Add statement and paste ARN , Click on Generate Policy

myaccess x mybucket! x AWS Policy x AWS Policy x Vi - Prepa x https://ww x https://ww x LinkedIn li x view-sourc x +

← → ↻ awspolicygen.s3.amazonaws.com/policygen.html

Actions -- Select Actions -- All Actions (*)

Amazon Resource Name (ARN)

ARN should follow the following format: arn:aws:s3:::{BucketName}/{KeyName}.
Use a comma to separate multiple values.

[Add Conditions \(Optional\)](#)

[Add Statement](#)

You added the following statements. Click the button below to Generate a policy.

Principal(s)	Effect	Action	Resource	Conditions
*	Allow	s3:GetObject	arn:aws:s3:::mybucketforpolicygen/*	None

Step 3: Generate Policy

A *policy* is a document (written in the [Access Policy Language](#)) that acts as a container for one or more statements.

[Generate Policy](#) [Start Over](#)

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Windows search bar: Type here to search

Taskbar: Edge, File Explorer, Mail, Photos, Teams, Chrome, Weather (22°C Rain), System tray (16:32, 04-08-2022)

Browser tabs: myaccess x mybucket! x AWS Policy x AWS Policy x Vi - Prepa x https://ww x https://ww x LinkedIn li x view-sourc x +

Address bar: ← → ↻ awspolicygen.s3.amazonaws.com/policygen.html

Policy JSON Document

Click below to edit. To save the policy, copy the text below to a text editor.
Changes made below will not be reflected in the policy generator tool.

```
{
  "Id": "Policy1659610949772",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stmnt1659610918124",
      "Action": [
        "s3:GetObject"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::mybucketforpolicygen/*",
      "Principal": "*"
    }
  ]
}
```

[Close](#)

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8. Copy the Generated Policy JSON Document and paste in Policy save the changes

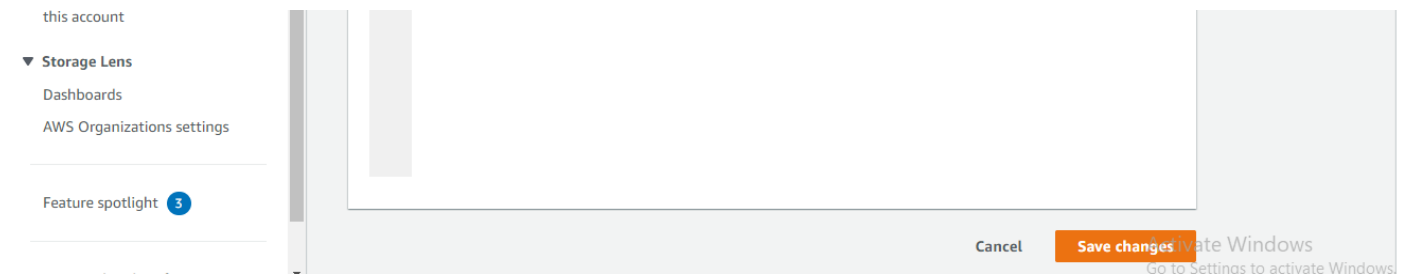
The top screenshot shows the AWS S3 console's 'Bucket policy' editor. The left sidebar lists navigation options like Buckets, Access Points, and Storage Lens. The main content area shows the 'Bucket policy' for 'mybucketforpolicygen'. It includes a 'Policy generator' button and a JSON policy snippet:

```
1 {
2   "Id": "Policy1659610949772",
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "Stmt1659610918124",
7       "Action": [
8         "s3:GetObject"
9       ],
10      "Effect": "Allow",
11      "Resource": "arn:aws:s3:::mybucketforpolicygen/*",
12      "Principal": "*"
13    }
14  ]
15 }
```

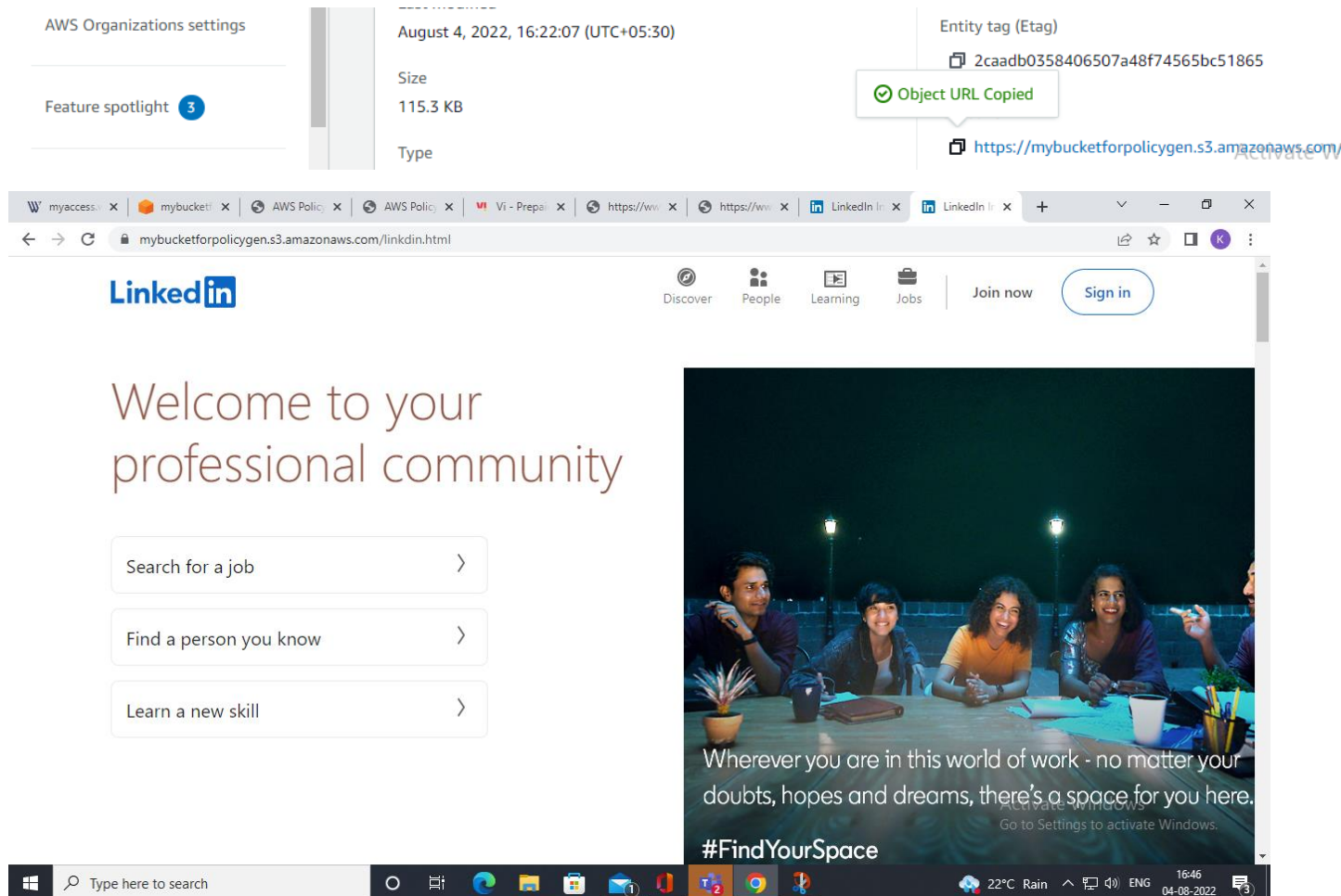
The right sidebar shows an 'Edit statement' dialog with a 'Select a statement' prompt and an 'Add new statement' button. The bottom screenshot shows the 'Permissions overview' for the same bucket. It indicates the bucket is 'Publicly accessible' and shows a 'Public' access icon. Below this, there is a section for 'Block public access (bucket settings)' with explanatory text.

9. For static web hosting we need to enable static web hosting --> click on properties--> Enable static web hosting

The image displays two overlapping screenshots of the AWS Management Console. The top screenshot shows the 'mybucketforpolicygen' bucket overview page. The 'Properties' tab is selected, showing the 'Static website hosting' status as 'Disabled'. The bottom screenshot shows the 'Edit static website hosting' page for the same bucket. In this page, the 'Static website hosting' is set to 'Enable', and the 'Hosting type' is 'Host a static website'. A blue information box states: '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'. The 'Index document' is set to 'index.html' and the 'Error document' is set to 'error.html'. The 'Redirection rules' section is also visible, showing a list of rules.



10. Select object URL and open it in new tab



SNS Integration with S3

1. Go to SNS Dashboard --> click on Create Topic

myacce x mybuck x Simple x AWS Pol x AWS Pol x Vi - Prej x https:// x https:// x Linked x Linked x +

us-west-1.console.aws.amazon.com/sns/v3/home?region=us-west-1#/homepage

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. California kavitha3516@gmail.com

Amazon Simple Notification Service

Pub/sub messaging for microservices and serverless applications.

Amazon SNS is a highly available, durable, secure, fully managed pub/sub messaging service that enables you to decouple microservices, distributed systems, and event-driven serverless applications. Amazon SNS provides topics for high-throughput, push-based, many-to-many messaging.

Create topic

Topic name

A topic is a message channel. When you publish a message to a topic, it fans out the message to all subscribed endpoints.

Next step

Start with an overview

Benefits and features

Reliably deliver messages with Automatically scale your workload

Pricing

Amazon SNS has no upfront costs. You pay based on the number of messages you publish, the number of messages you deliver, and any additional API calls for managing topics.

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2. Select required parameters and click on create topic

myacce x mybuck x Simple x AWS Pol x AWS Pol x Vi - Prej x https:// x https:// x Linked x Linked x +

us-west-1.console.aws.amazon.com/sns/v3/home?region=us-west-1#/create-topic

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. California kavitha3516@gmail.com

Amazon SNS > Topics > Create topic

Create topic

Details

Type [Info](#)

Topic type cannot be modified after topic is created

☐ FIFO (first-in, first-out)

- Strictly-preserved message ordering
- Exactly-once message delivery
- High throughput, up to 300 publishes/second
- Subscription protocols: SQS

☒ Standard

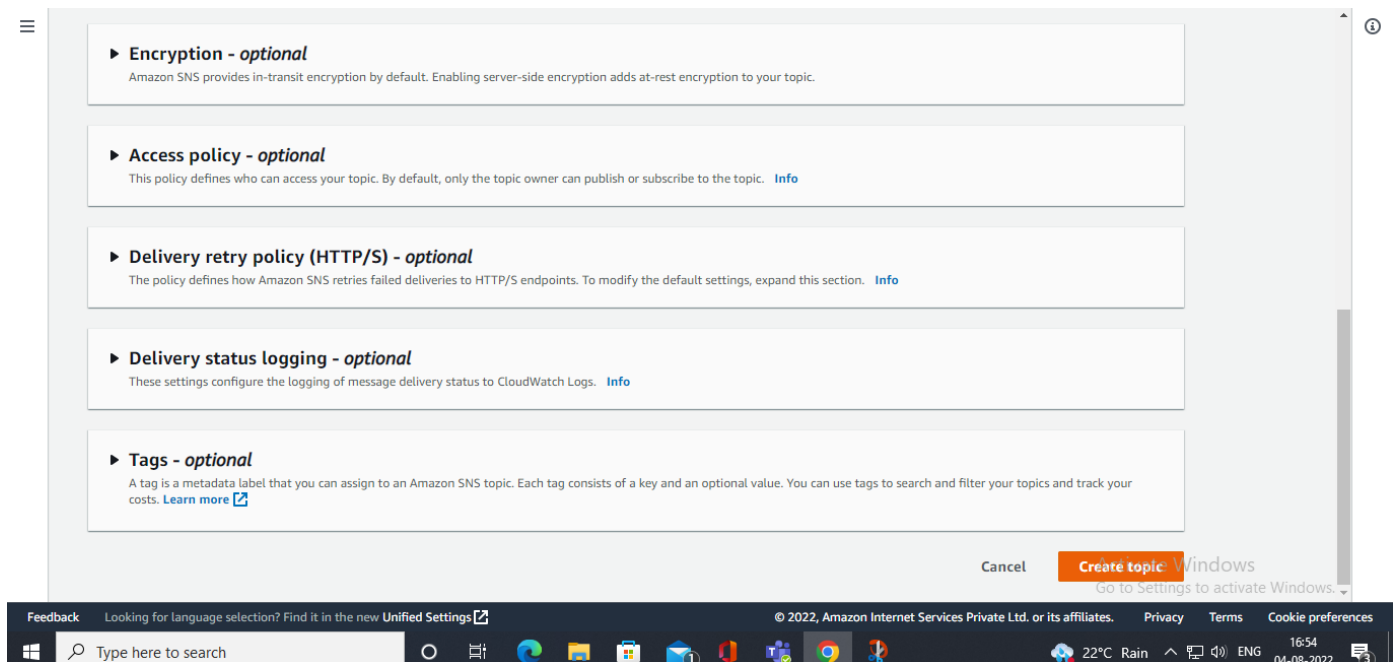
- Best-effort message ordering
- At-least once message delivery
- Highest throughput in publishes/second
- Subscription protocols: SQS, Lambda, HTTP, SMS, email, mobile application endpoints

Name

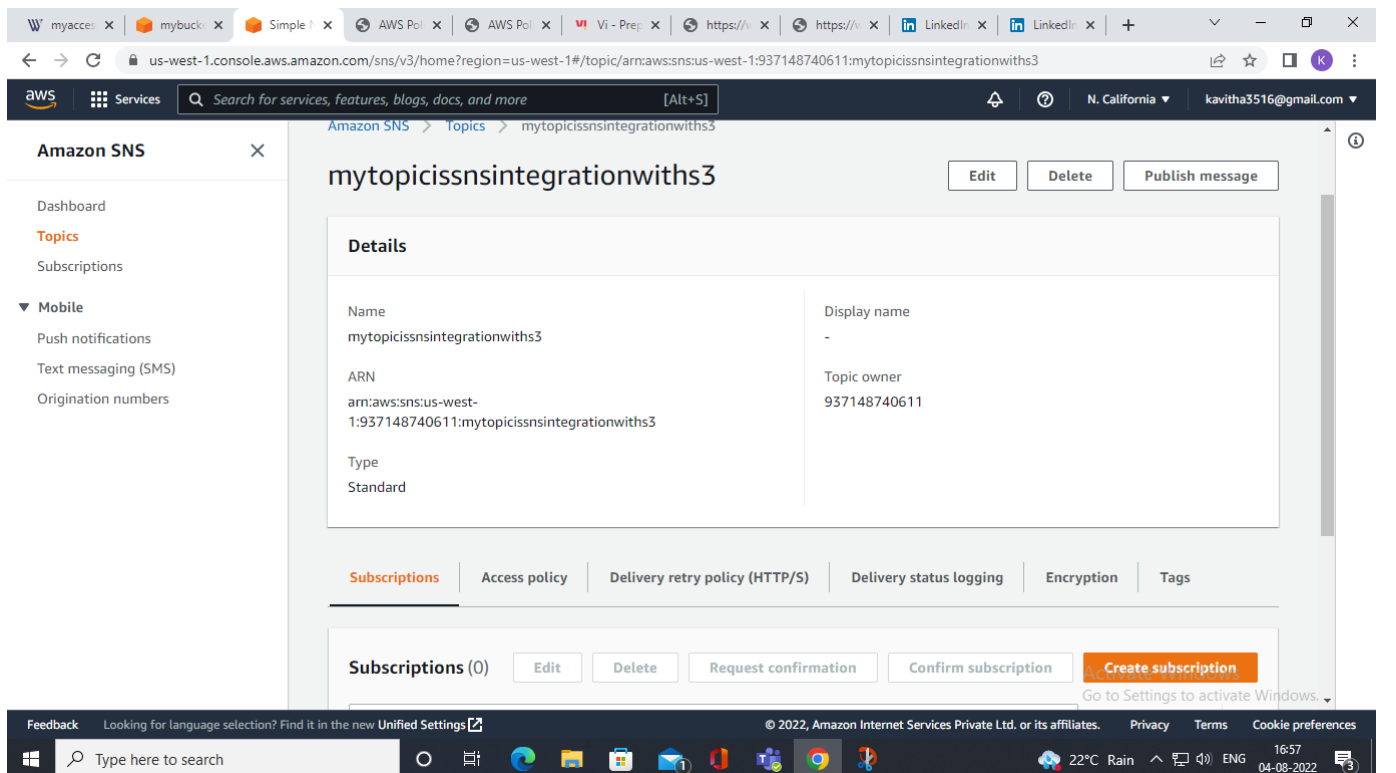
Maximum 256 characters. Can include alphanumeric characters, hyphens (-) and underscores (_).

Display name - optional

To use this topic with SMS subscriptions, enter a display name. Only the first 10 characters are displayed in an SMS message. [Info](#)



3. Topic is created successfully



4. create subscription—Select Protocol as Email --> Give Endpoint mail Id and click on create subscription

myacce: xmybuck: xSimple: xAWS Pol: xAWS Pol: xVi - Pre: xhttps://: xhttps://: xLinkedIn: xLinkedIn: x+
us-west-1.console.aws.amazon.com/sns/v3/home?region=us-west-1#/create-subscription

awsServicesSearch for services, features, blogs, docs, and more[Alt+S]N. Californiakavitha3516@gmail.com

Amazon SNS > Subscriptions > Create subscription

Create subscription

Details

Topic ARN
arn:aws:sns:us-west-1:937148740611:mytopicssnsintegrationwiths3

Protocol
The type of endpoint to subscribe
Email

Endpoint
An email address that can receive notifications from Amazon SNS.
kavitha3516@gmail.com

After your subscription is created, you must confirm it. Info

Subscription filter policy - optional
This policy filters the messages that a subscriber receives. Info

Redrive policy (dead-letter queue) - optional
Send undeliverable messages to a dead-letter queue. Info

CancelCreate subscription

Windows
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valid origination ID. [Learn more](#)

Subscription to mytopicssnsintegrationwiths3 created successfully.
The ARN of the subscription is arn:aws:sns:us-west-1:937148740611:mytopicssnsintegrationwiths3:49a6b7d4-d910-44e3-8fe7-48a31d9ec40f.

Amazon SNS > Topics > mytopicssnsintegrationwiths3 > Subscription: 49a6b7d4-d910-44e3-8fe7-48a31d9ec40f

Subscription: 49a6b7d4-d910-44e3-8fe7-48a31d9ec40f

Edit Delete

Details

ARN arn:aws:sns:us-west-1:937148740611:mytopicssnsintegrationwiths3:49a6b7d4-d910-44e3-8fe7-48a31d9ec40f	Status ⌚ Pending confirmation
Endpoint kavitha3516@gmail.com	Protocol EMAIL
Topic mytopicssnsintegrationwiths3	

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5. Subscription request is in Pending confirmation status.

us-west-1.console.aws.amazon.com/sns/v3/home?region=us-west-1#/topic/arn:aws:sns:us-west-1:937148740611:mytopicssnsintegrationwiths3

Amazon SNS

Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
Origination numbers

Name mytopicssnsintegrationwiths3	Display name -
ARN arn:aws:sns:us-west-1:937148740611:mytopicssnsintegrationwiths3	Topic owner 937148740611
Type Standard	

Subscriptions Access policy Delivery retry policy (HTTP/S) Delivery status logging Encryption Tags

Subscriptions (1) Edit Delete Request confirmation Confirm subscription Create subscription

Search

ID	Endpoint	Status	Protocol
ⓘ Pending confirmation	kavitha3516@gmail.com	⌚ Pending confirmation	EMAIL

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6. Endpoint received Email notification and confirmed subscription.

W myac x mybi x Simp x AWS x AWS x Vi - F x https x https x Linke x Linke x AWS x https x +

mail.google.com/mail/u/0/?tab=rm#inbox/FMfcgGqPpbdKdHrPJdzhZTNtcljftB

Gmail Search in mail

Compose

Inbox 804

Starred

Snoozed

Sent

Drafts 1

More

Labels +

AWS Notification - Subscription Confirmation

AWS Notifications <no-reply@sns.amazonaws.com> to me 5:03 PM (19 minutes ago)

You have chosen to subscribe to the topic:
arn:aws:sns:us-west-1:937148740611:mytopicissnsintegrationwiths3

To confirm this subscription, click or visit the link below (If this was in error no action is necessary):
[Confirm subscription](#)

Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to [sns-opt-out](#)

Reply Forward

Enable desktop notifications for Gmail. OK No thanks X

Activate Windows
Go to Settings to activate Windows.

Type here to search

22°C Rain ENG 17:23 04-08-2022

sns.us-west-1.amazonaws.com/confirmation.html?TopicArn=arn:aws:sns:us-west-1:937148740611:mytopicissnsintegrationwiths3&Token=2336412f37fb687f5d51e6e242...

aws Simple Notification Service

Subscription confirmed!

You have successfully subscribed.

Your subscription's id is:
arn:aws:sns:us-west-1:937148740611:mytopicissnsintegrationwiths3:49a6b7d4-d910-44e3-8fe7-48a31d9ec40f

If it was not your intention to subscribe, [click here to unsubscribe](#).

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Amazon SNS console screenshot showing the 'Subscriptions' tab for a topic. The topic name is 'mytopicissnsintegrationwiths3'. The subscription list shows one subscription with ID '49a6b7d4-d910-44e3-8fe7-48a31d9ec40f', endpoint 'kavitha3516@gmail.com', status 'Confirmed', and protocol 'EMAIL'. The 'Access policy' tab is highlighted.

ID	Endpoint	Status	Protocol
49a6b7d4-d910-44e3-8fe7-48a31d9ec40f	kavitha3516@gmail.com	Confirmed	EMAIL

7. Click on subscription --> select Access Policy

Amazon SNS console screenshot showing the 'Access policy' tab for a subscription. The subscription ID is '49a6b7d4-d910-44e3-8fe7-48a31d9ec40f'. The 'Access policy' tab is highlighted, and the 'Subscriptions' tab is also visible.

ID	Endpoint	Status	Protocol
49a6b7d4-d910-44e3-8fe7-48a31d9ec40f	kavitha3516@gmail.com	Confirmed	EMAIL

8. Edit the Access Policy Delete existed and paste Required policy information. Resource enter SNS ARN and aws:sourcern enter aws s3 bucket arn. Save changes

mytopicissnsintegrationwith3

Details

Name	mytopicissnsintegrationwith3	Display name	-
ARN	arn:aws:sns:us-west-1:937148740611:mytopicissnsintegrationwith3	Topic owner	937148740611
Type	Standard		

Subscriptions (1) Edit Delete Request confirmation Confirm subscription Create subscription

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15:06 05-08-2022

mytopicissnsintegrationwith3

```
17 "SNS:Subscribe",
18 "SNS:ListSubscriptionsByTopic",
19 "SNS:Publish",
20 "SNS:Receive"
21 },
22 "Resource": "arn:aws:sns:us-west-1:937148740611:mytopicissnsintegrationwith3",
23 "Condition": {
24   "ArnLike": {
25     "aws:SourceArn": "arn:aws:s3:::mysnswith3integration"
```

► Delivery retry policy (HTTP/S) - optional

The policy defines how Amazon SNS retries failed deliveries to HTTP/S endpoints. To modify the default settings, expand this section. [Info](#)

► Delivery status logging - optional

These settings configure the logging of message delivery status to CloudWatch Logs. [Info](#)

► Tags - optional

A tag is a metadata label that you can assign to an Amazon SNS topic. Each tag consists of a key and an optional value. You can use tags to search and filter your topics and track your costs. [Learn more](#)

Cancel Save changes

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15:06 05-08-2022

The screenshot shows the Amazon SNS console in the us-west-1 region. A green banner at the top indicates 'Save changes' and 'Topic mytopicissnsintegrationwith3 saved successfully.' The left sidebar shows the navigation menu with 'Topics' selected. The main content area displays the details for the topic 'mytopicissnsintegrationwith3'. The details include:

Details	
Name	mytopicissnsintegrationwith3
Display name	-
ARN	arn:aws:sns:us-west-1:937148740611:mytopicissnsintegrationwith3
Topic owner	937148740611
Type	Standard

Below the details, there are tabs for 'Subscriptions', 'Access policy', 'Delivery retry policy (HTTP/S)', 'Delivery status logging', and 'Encryption'. The 'Subscriptions' tab is currently selected. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 15:05 on 05-08-2022.

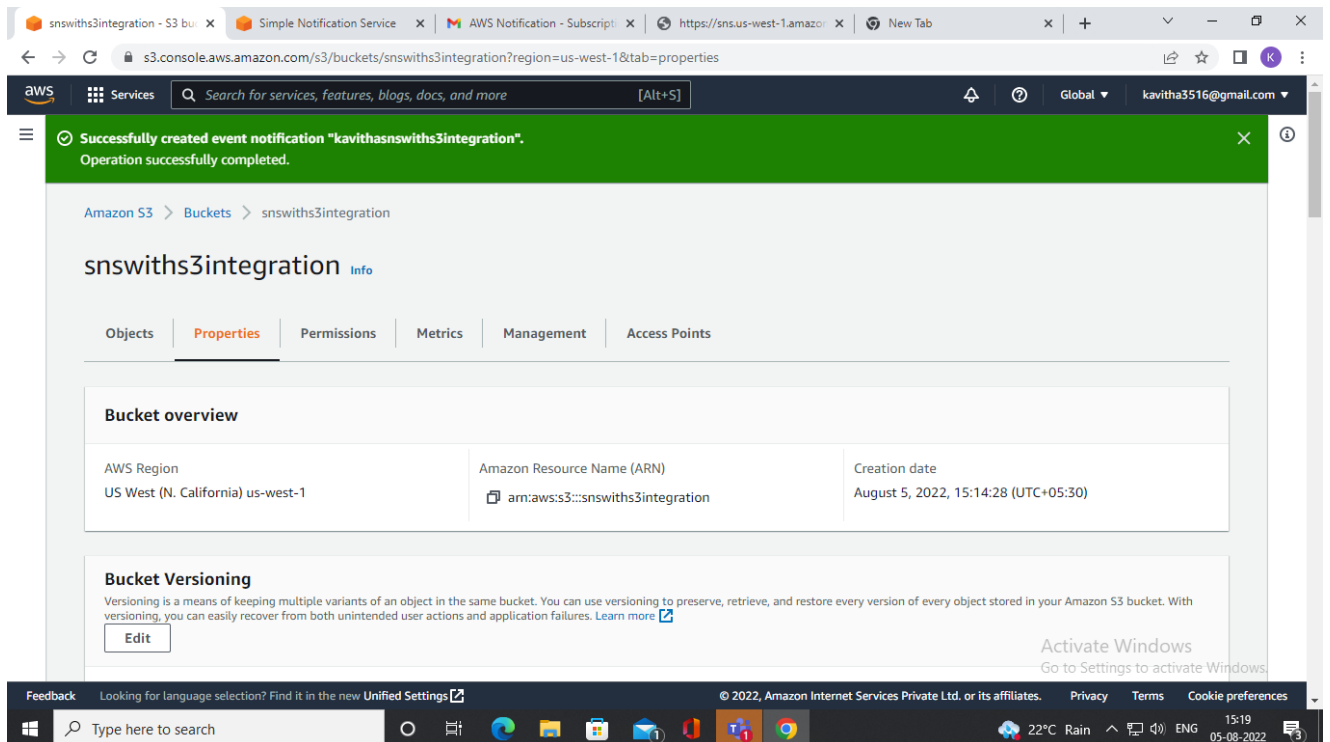
9. Setup Event Notification for Bucket-->click on properties--> select Event notification give required parameters save changes.

The screenshot shows the Amazon S3 console in the us-west-1 region, specifically the 'Create event notification' page for the bucket 'snswith3integration'. The page title is 'Create event notification' with an 'Info' link. Below the title, there is a note: 'To enable notifications, you must first add a notification configuration that identifies the events you want Amazon S3 to publish and the destinations where you want Amazon S3 to send the notifications.'

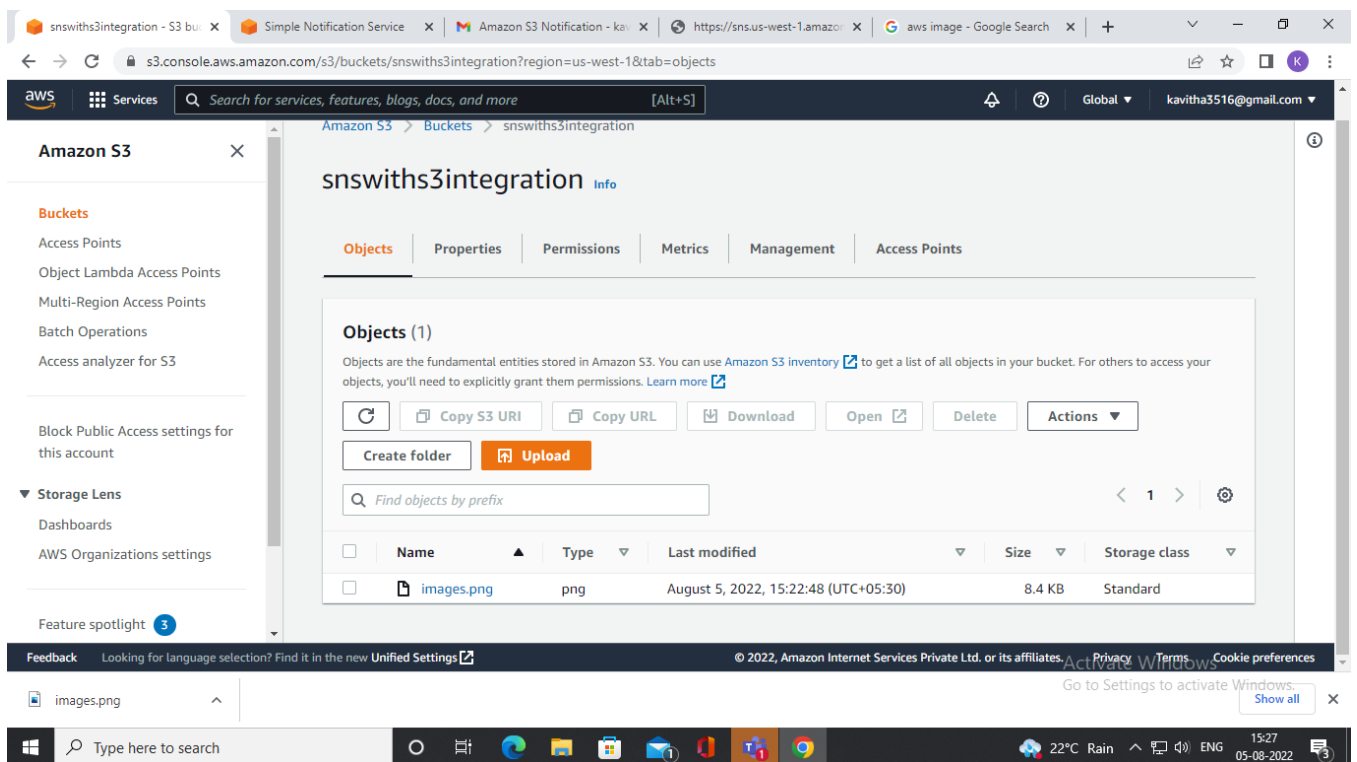
The 'General configuration' section contains the following fields:

- Event name:** A text input field containing 'kavithasnswith3integration'. Below it, a note states 'Event name can contain up to 255 characters.'
- Prefix - optional:** A text input field containing 'images/'. Below it, a note states 'Limit the notifications to objects with key starting with specified characters.'
- Suffix - optional:** A text input field containing '.jpg'. Below it, a note states 'Limit the notifications to objects with key ending with specified characters.'

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9. Go to Bucket and upload a file. Check mail will get SNS Notification



10. Conclusion: SNS integration with S3 Successful.

Note: S3 Bucket location and SNS topic Location should be same then only it will Integrate with each other.

