Lambda in AWS

- **What is Lambda ?**

➢ AWS Lambda is a serverless, event-driven computing technology offered by Amazon as part of Amazon Web Services (AWS). This means Amazon Lambda handles all of your infrastructure requirements such as which AWS services to deploy and also how to maintain them.

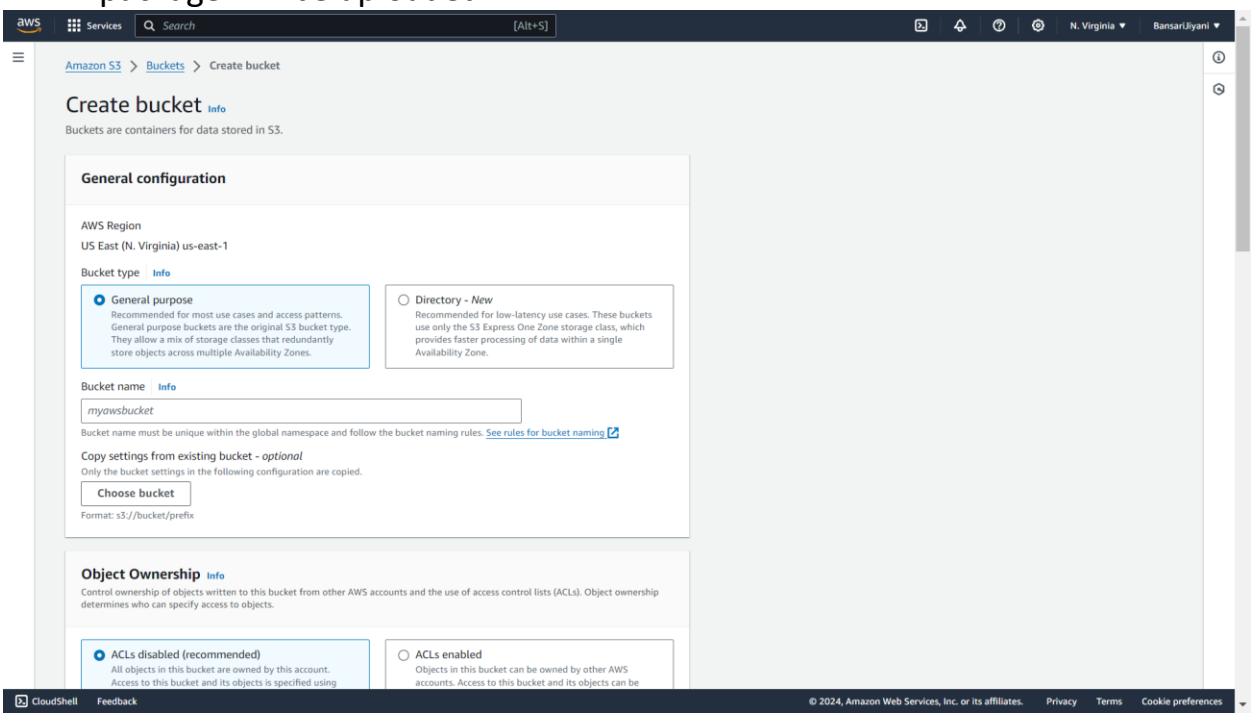
➢ How Does AWS Lambda Work?

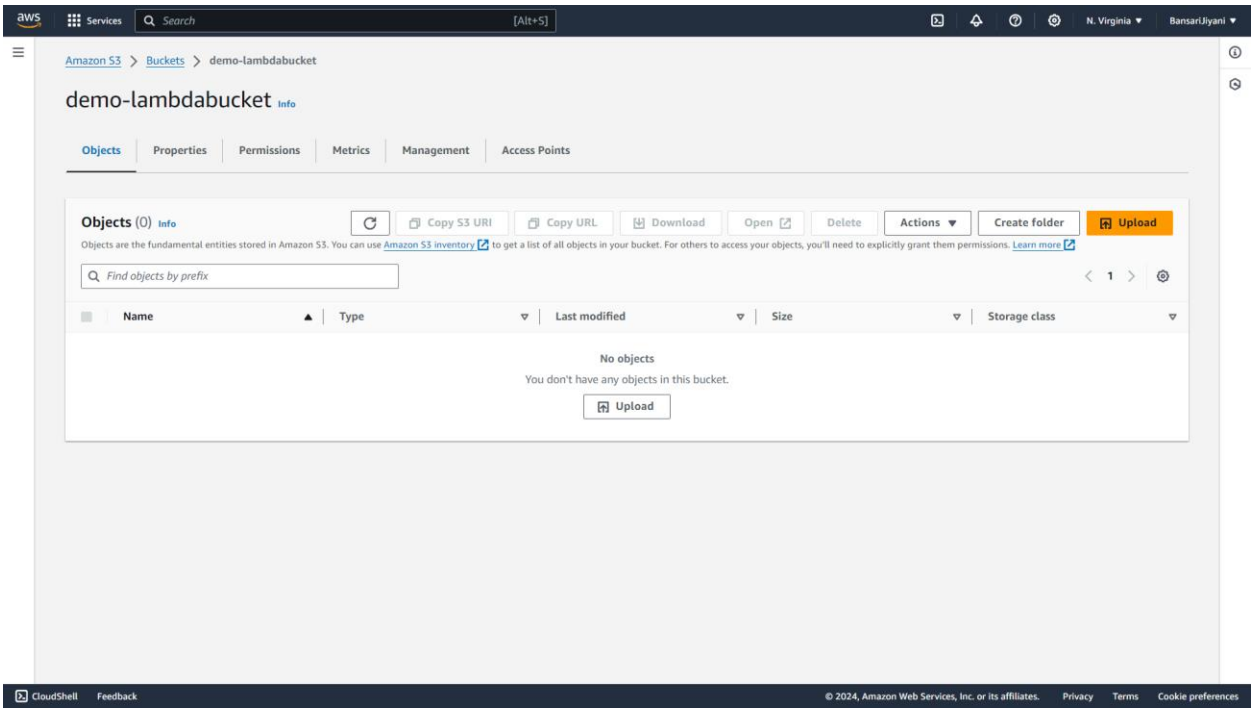
➢ First, you need to upload the AWS Lambda code or you can directly write it in the Lambda code editor in any language that Lambda supports. It supports a variety of AWS Lambda languages, including Java, **Python**, Go, and C#. AWS Lambda assists you in uploading code as well as the event information that should be used to trigger it. You need to mention the triggering conditions that activate the code.

➢ An AWS Lambda function is a piece of code that runs on the Lambda runtime environment. The AWS Lambda function is basically used when you just require a function for a short time.

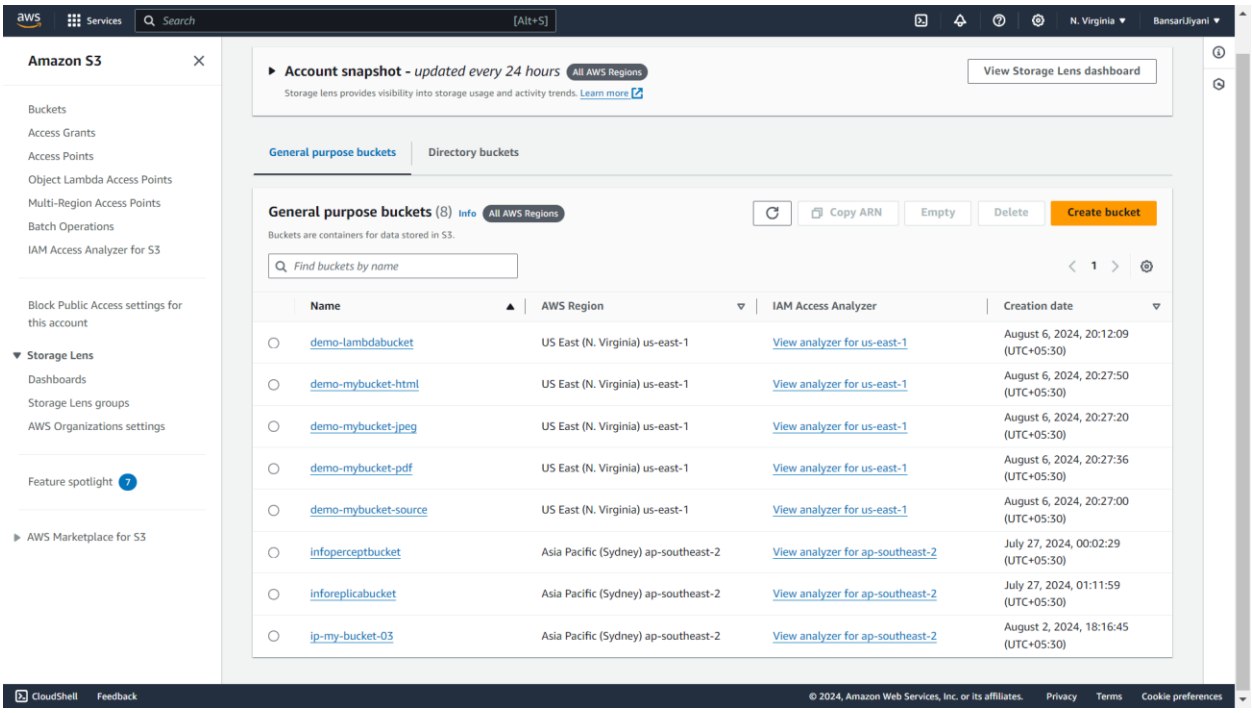
PRACTICAL :

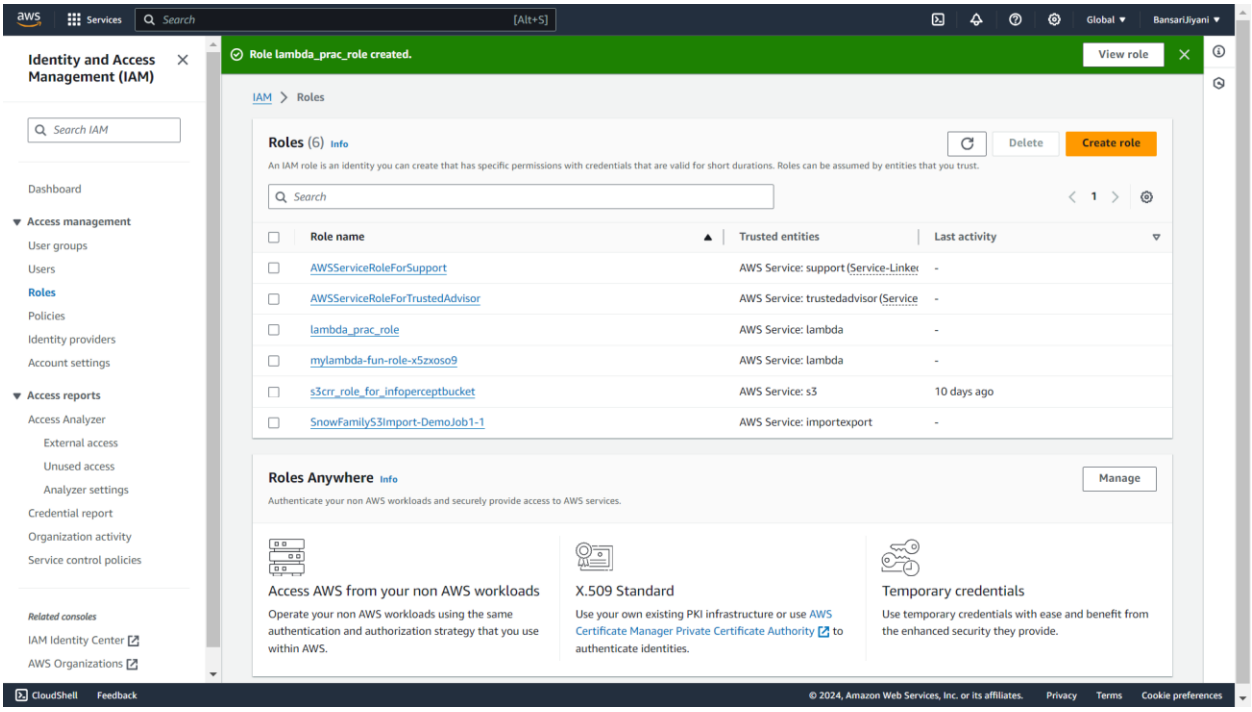
1. First we have to create s3 bucket for the lambda function's deployment package will be uploaded.



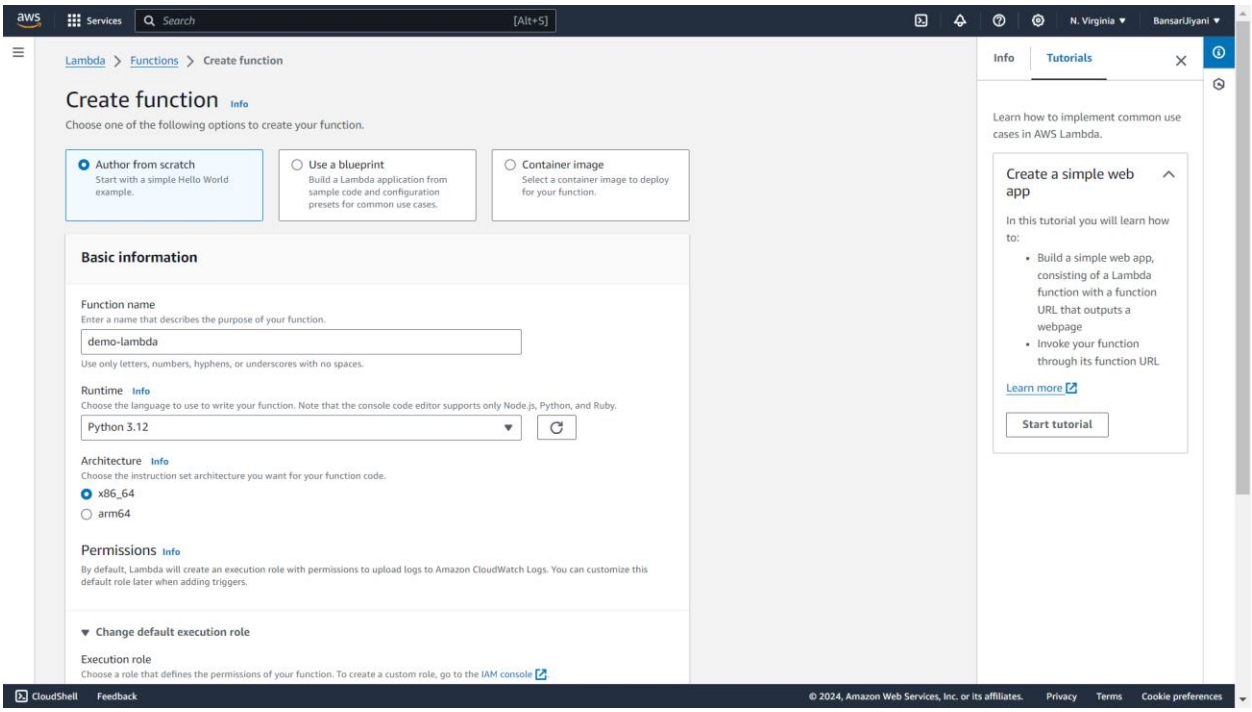


2. Now create a buckets for lambda access and also create IAM user role for access.

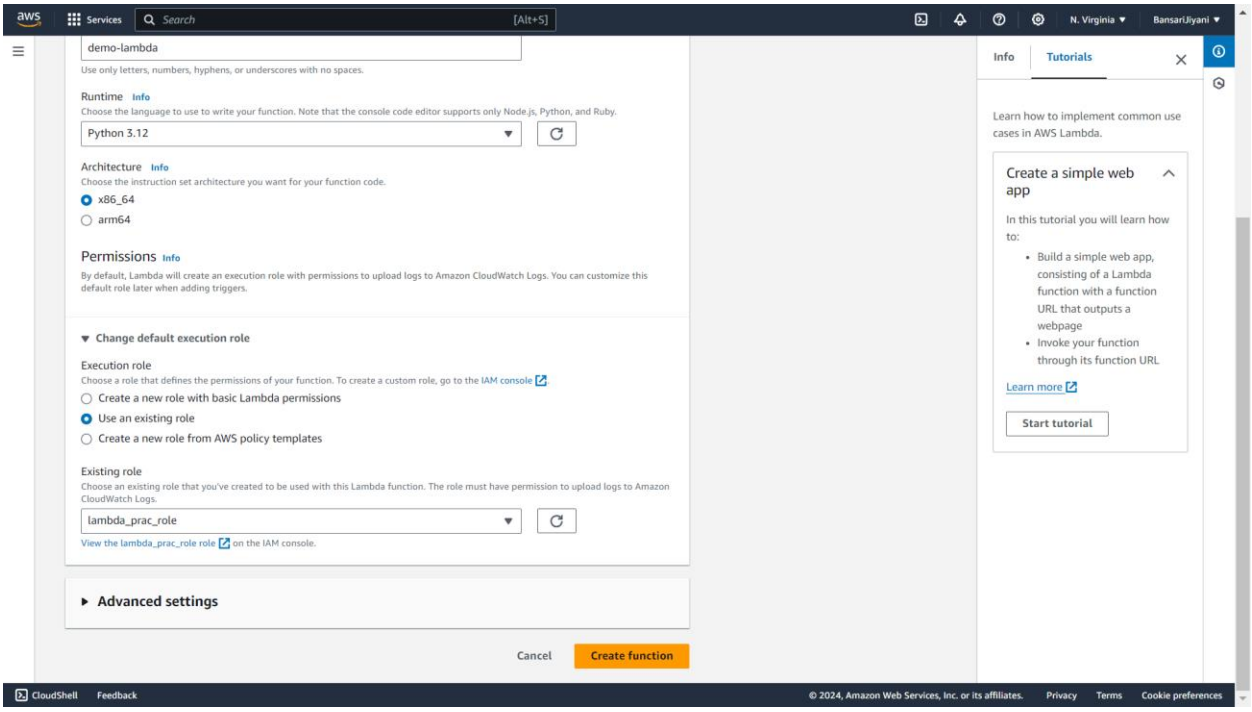




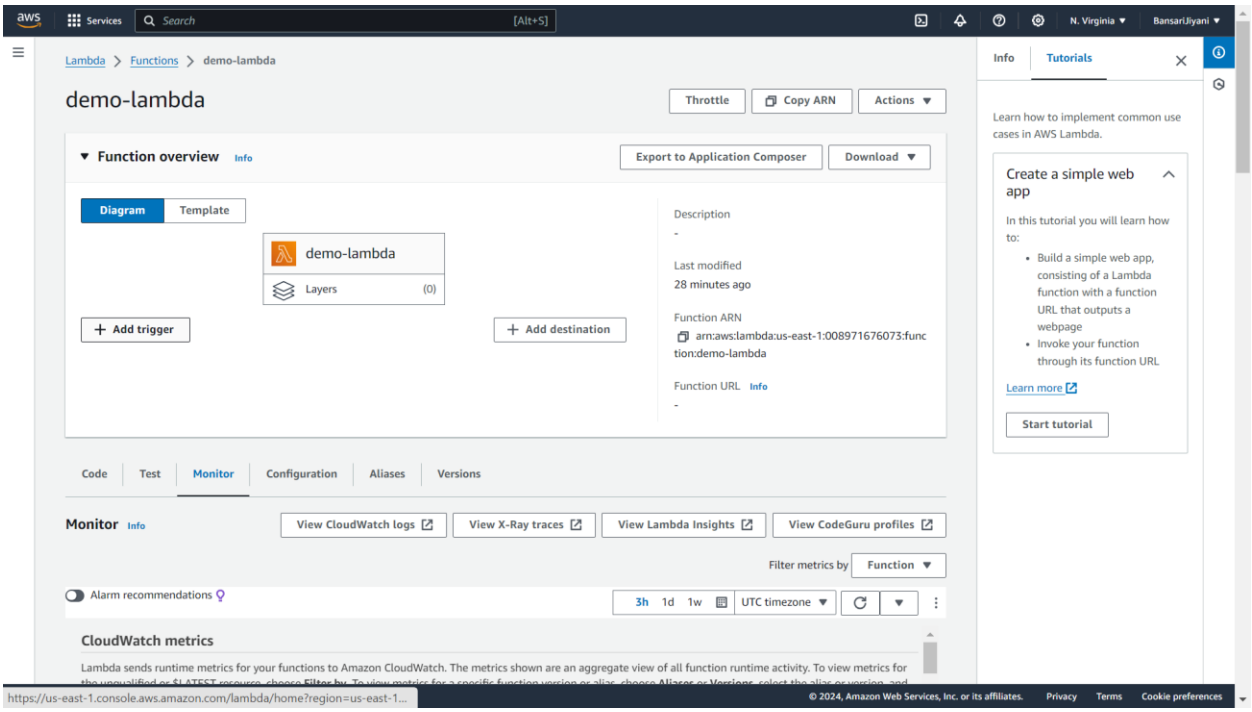
3. **Now create a function in lambda.**



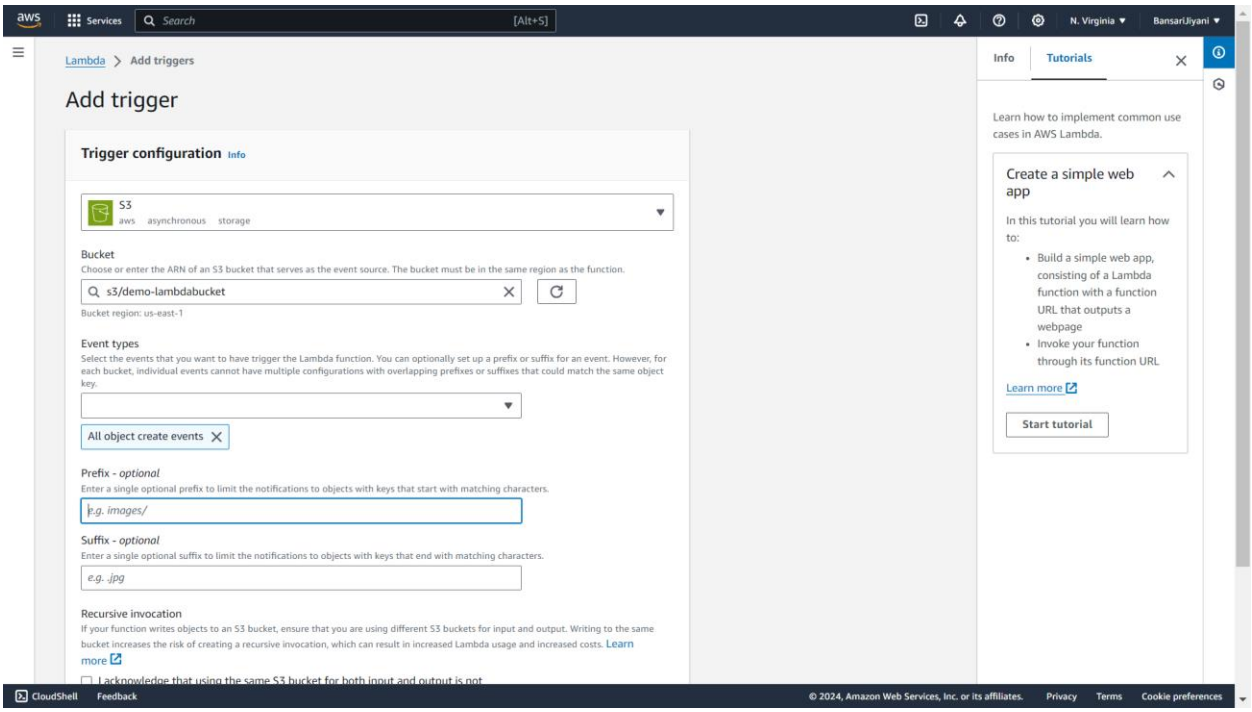
Change the default execution role and select that role for which you create lambda function .



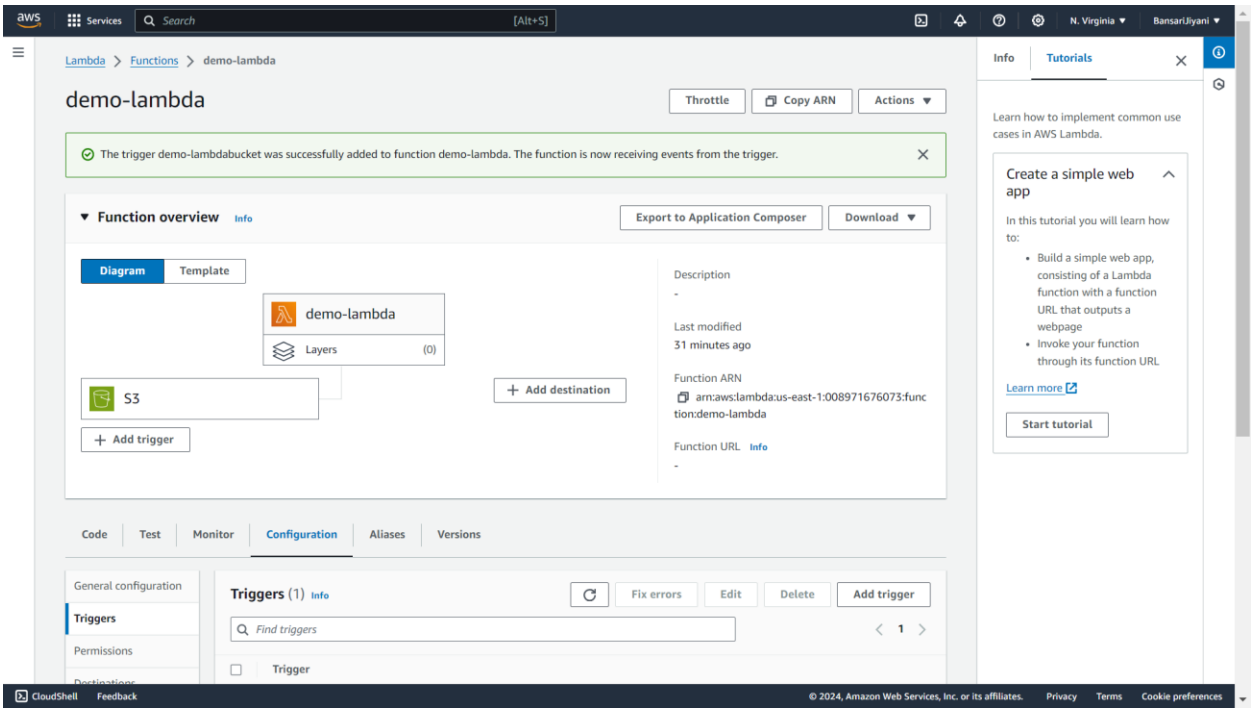
Add a trigger



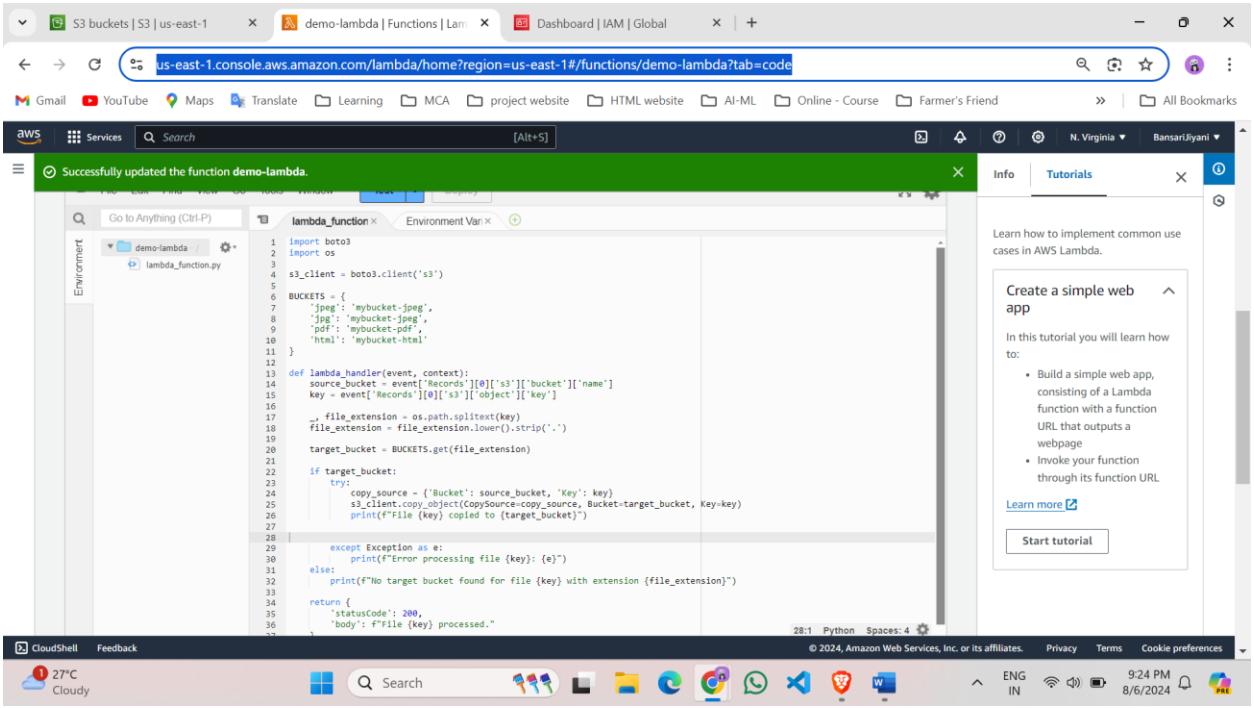
Select the bucket and event type and than add the trigger.



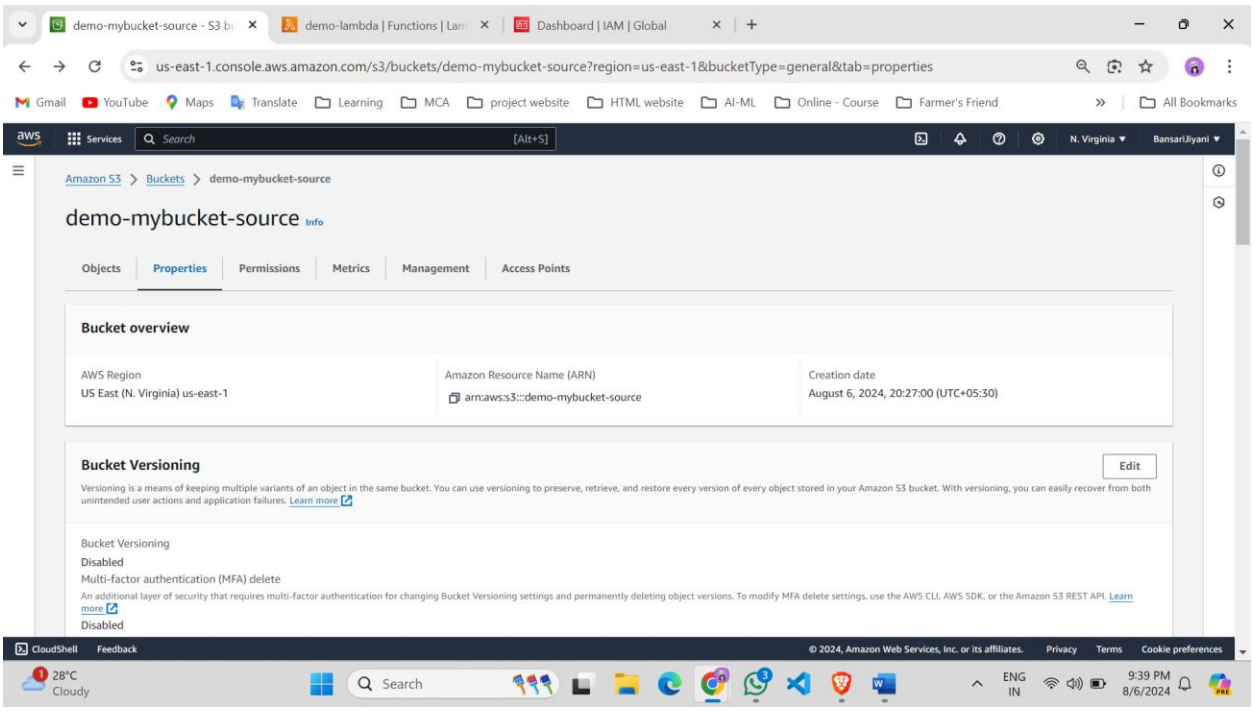
Now trigger is created.



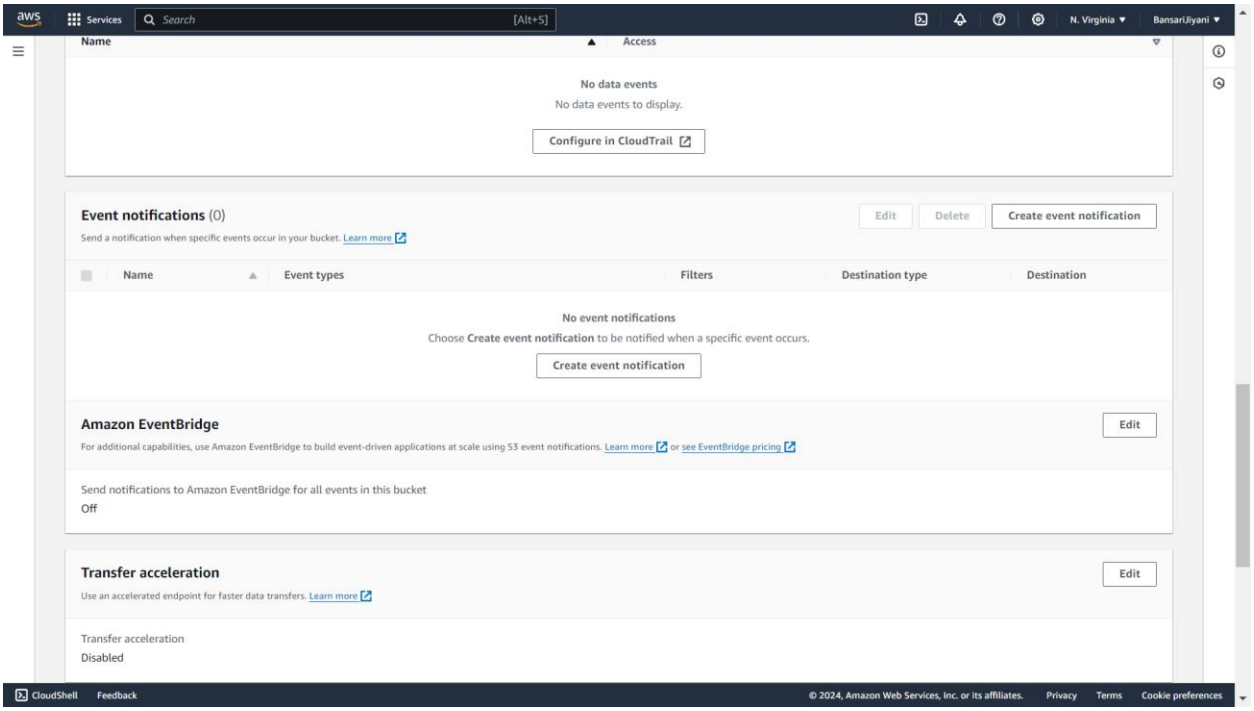
Upload python lambda function here

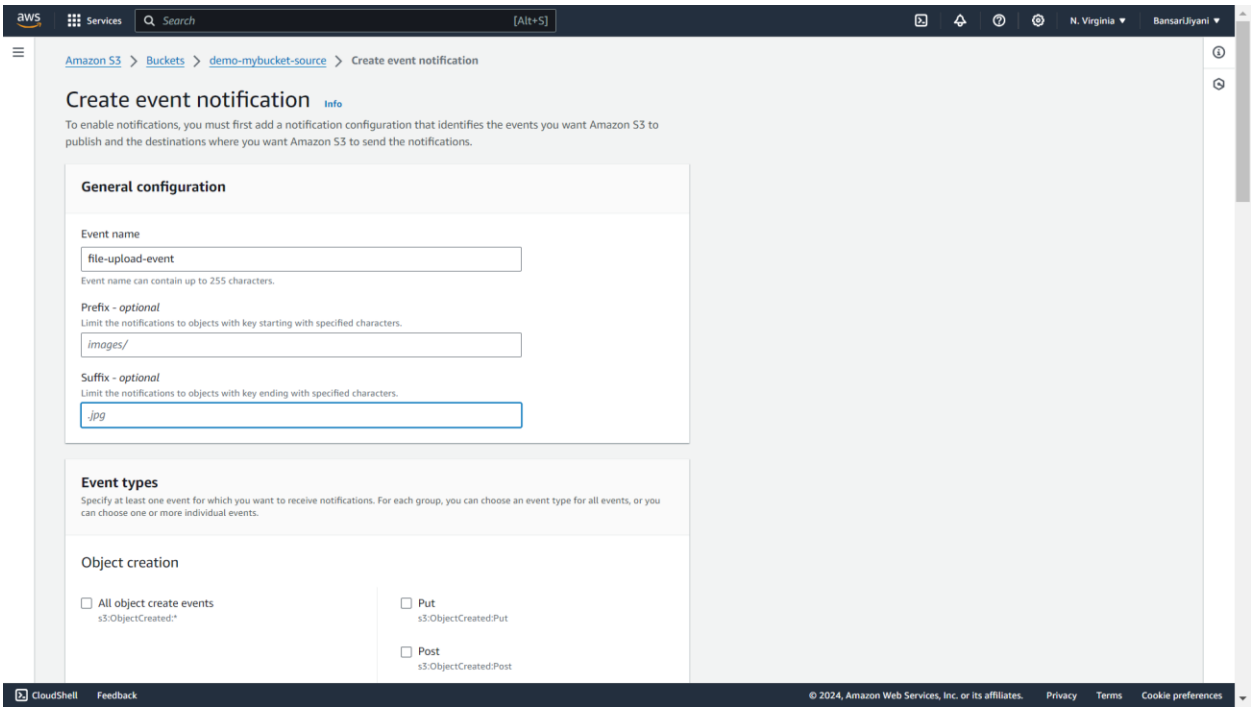


Go to the s3 bucket list and select source bucket



Scroll down and Go to event notification and create event notification




Services
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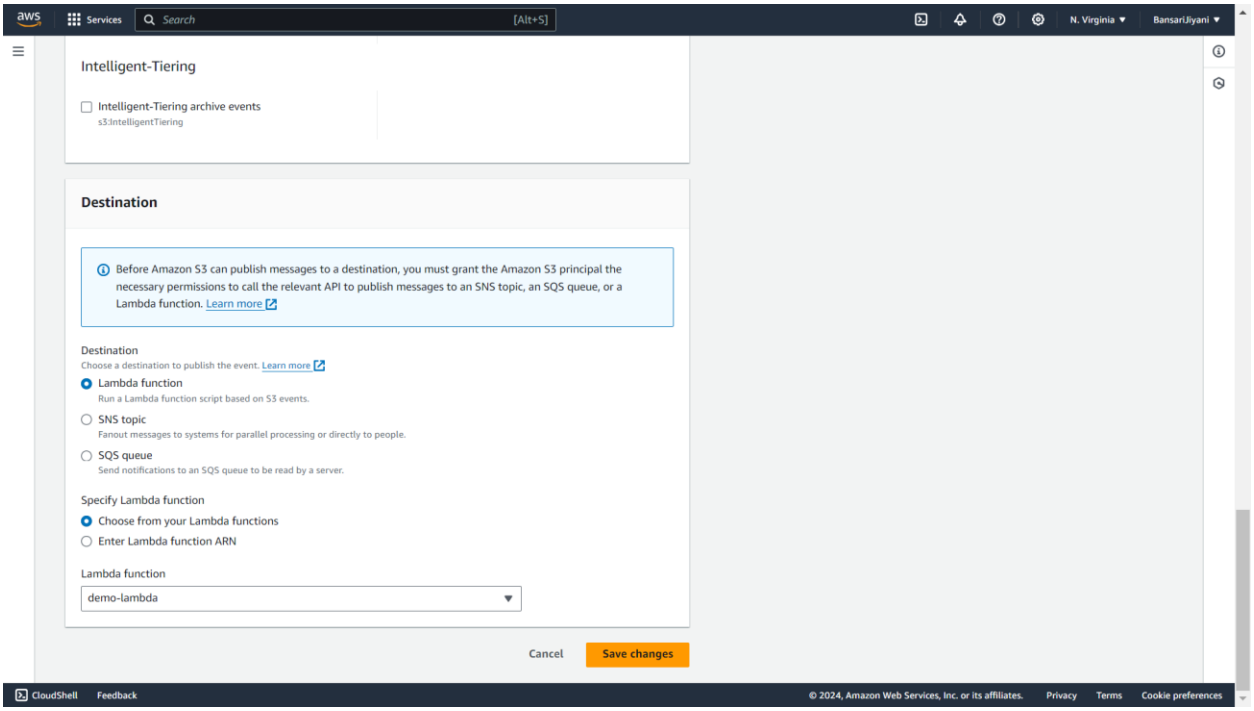
Amazon S3 > Buckets > demo-mybucket-source > Create event notification
Create event notification
Info
To enable notifications, you must first add a notification configuration that identifies the events you want Amazon S3 to publish and the destinations where you want Amazon S3 to send the notifications.
General configuration
Event name
file-upload-event
Event name can contain up to 255 characters.
Prefix - optional
Limit the notifications to objects with key starting with specified characters.
images/
Suffix - optional
Limit the notifications to objects with key ending with specified characters.
.jpg
Event types
Specify at least one event for which you want to receive notifications. For each group, you can choose an event type for all events, or you can choose one or more individual events.
Object creation
All object create events
s3:ObjectCreated:*
Put
s3:ObjectCreated:Put
Post
s3:ObjectCreated:Post
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences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Intelligent-Tiering
Intelligent-Tiering archive events
s3:IntelligentTiering
Destination
Before Amazon S3 can publish messages to a destination, you must grant the Amazon S3 principal the necessary permissions to call the relevant API to publish messages to an SNS topic, an SQS queue, or a Lambda function. Learn more
Destination
Choose a destination to publish the event. Learn more
Lambda function
Run a Lambda function script based on S3 events.
SNS topic
Fanout messages to systems for parallel processing or directly to people.
SQS queue
Send notifications to an SQS queue to be read by a server.
Specify Lambda function
Choose from your Lambda functions
Enter Lambda function ARN
Lambda function
demo-lambda
Cancel
Save changes
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
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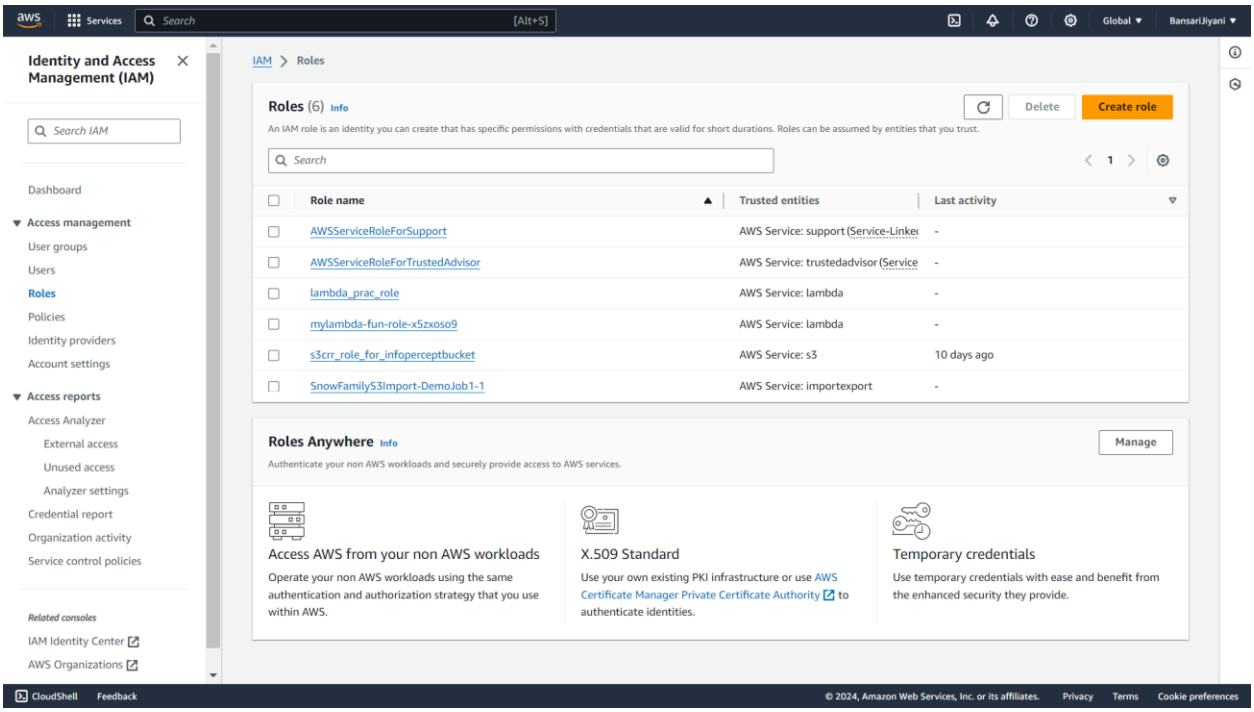
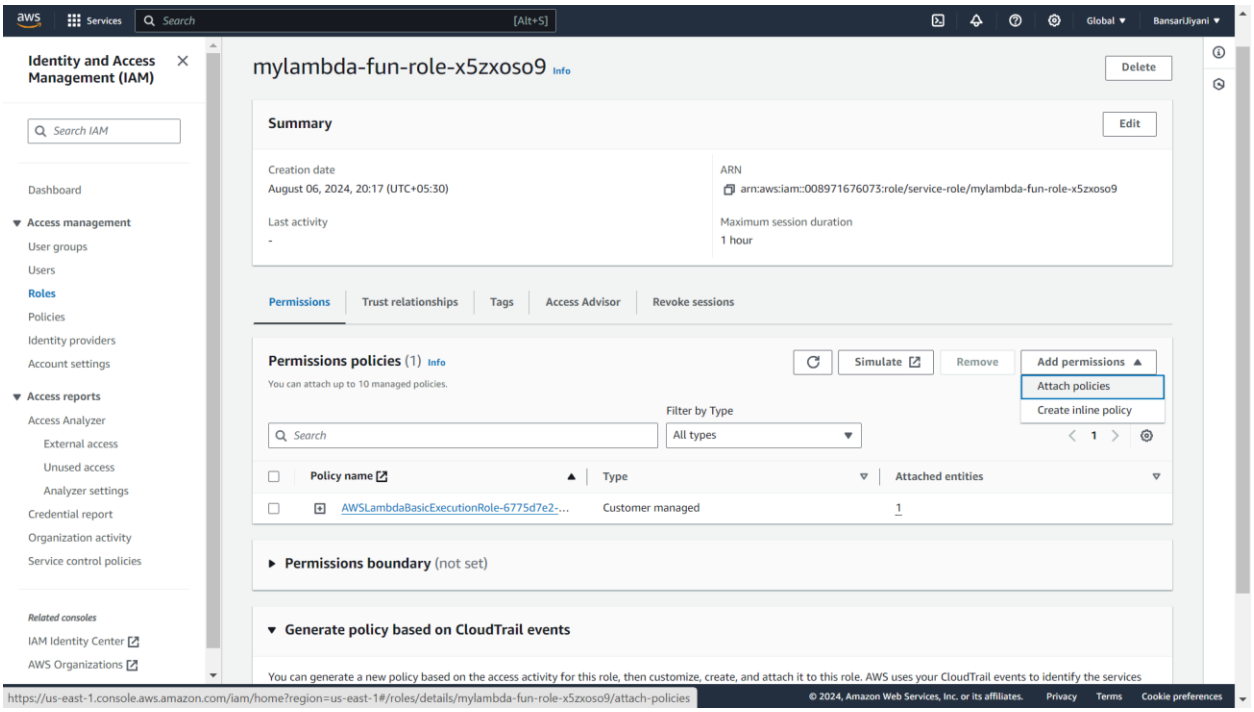
Update IAM role policies

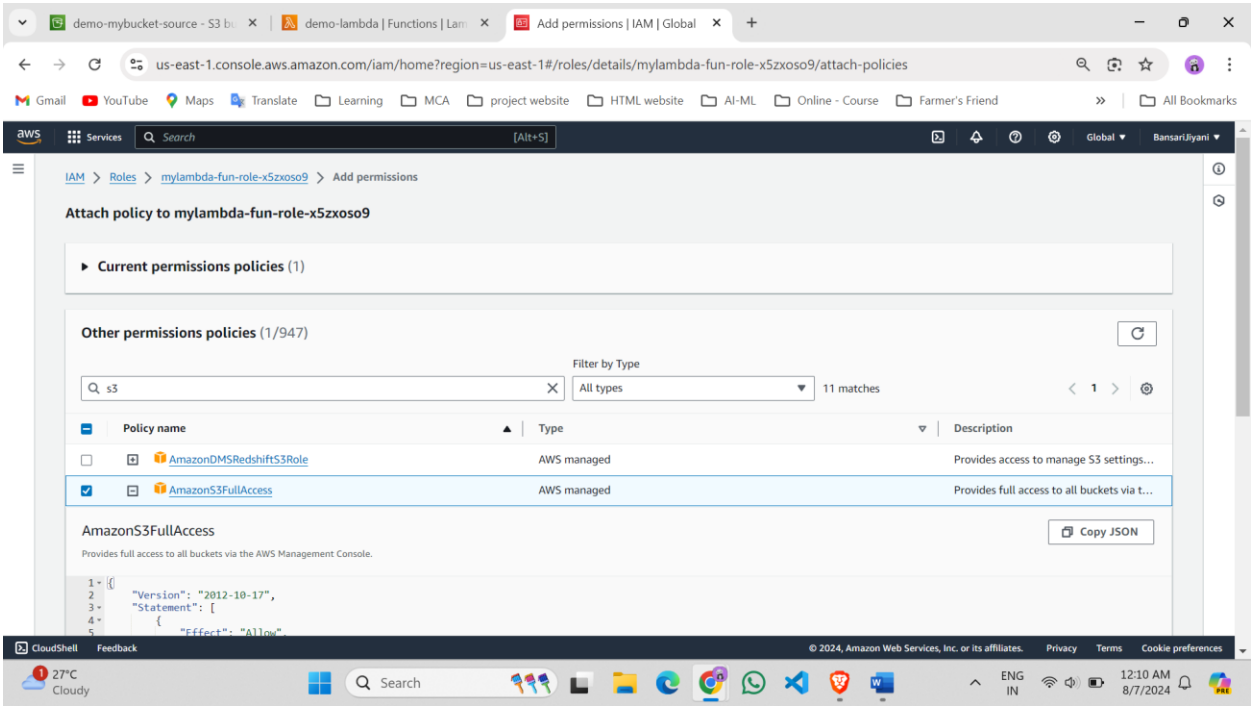
1. Select the role of lambda user



2. Attach/add policies



3. Add permission AmazonS3FullAccess



4. Add the files using this command

aws s3 cp sample.jpg s3://mybucket-source/sample.jpg

aws s3 cp document.pdf s3://mybucket-source/document.pdf

aws s3 cp index.html s3://mybucket-source/index.html