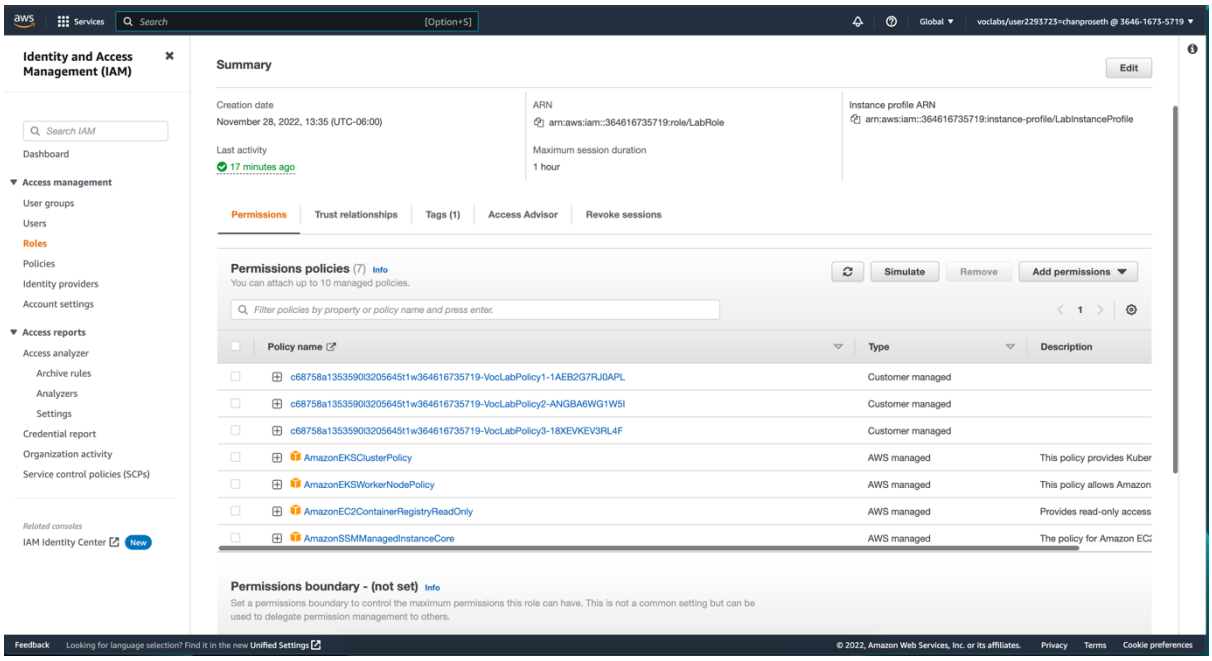
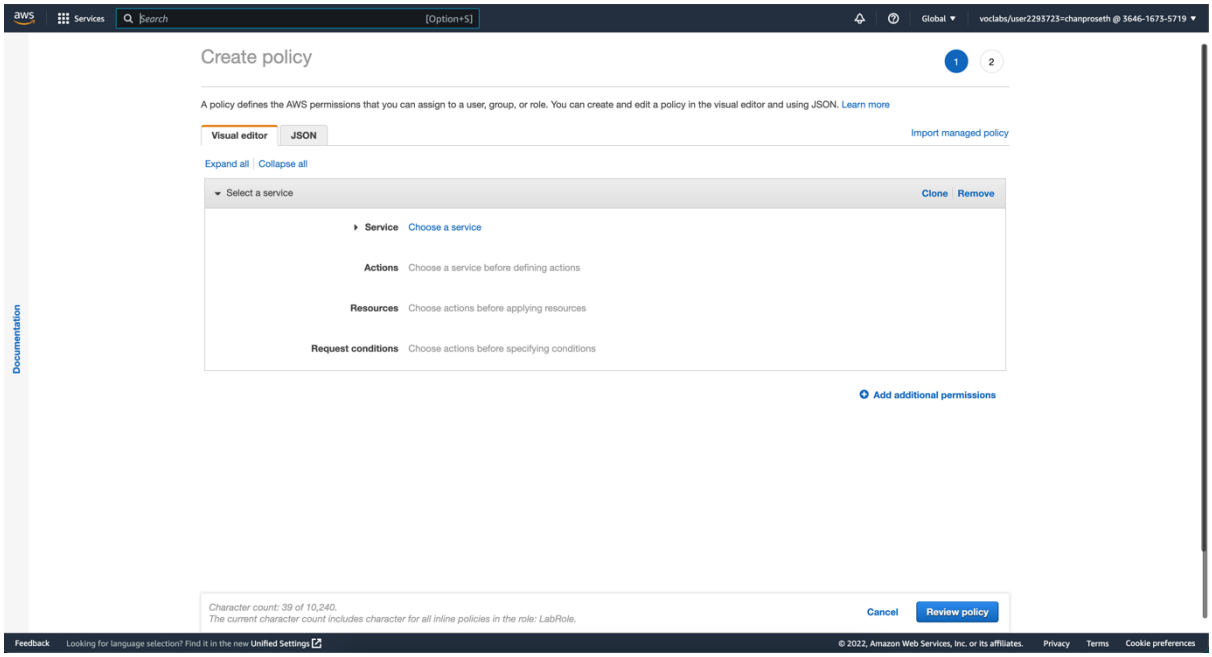
1. Create a bucket for assets of the web app hosted on EC2. Put an image into the bucket.

a) Create an inline IAM policy in the LabRole that allows the instance to get objects from the bucket.
b) Download the image in the EC2. Copy from S3 to EC2.
c) Update the index.html and read the image from the /var/www/html folder

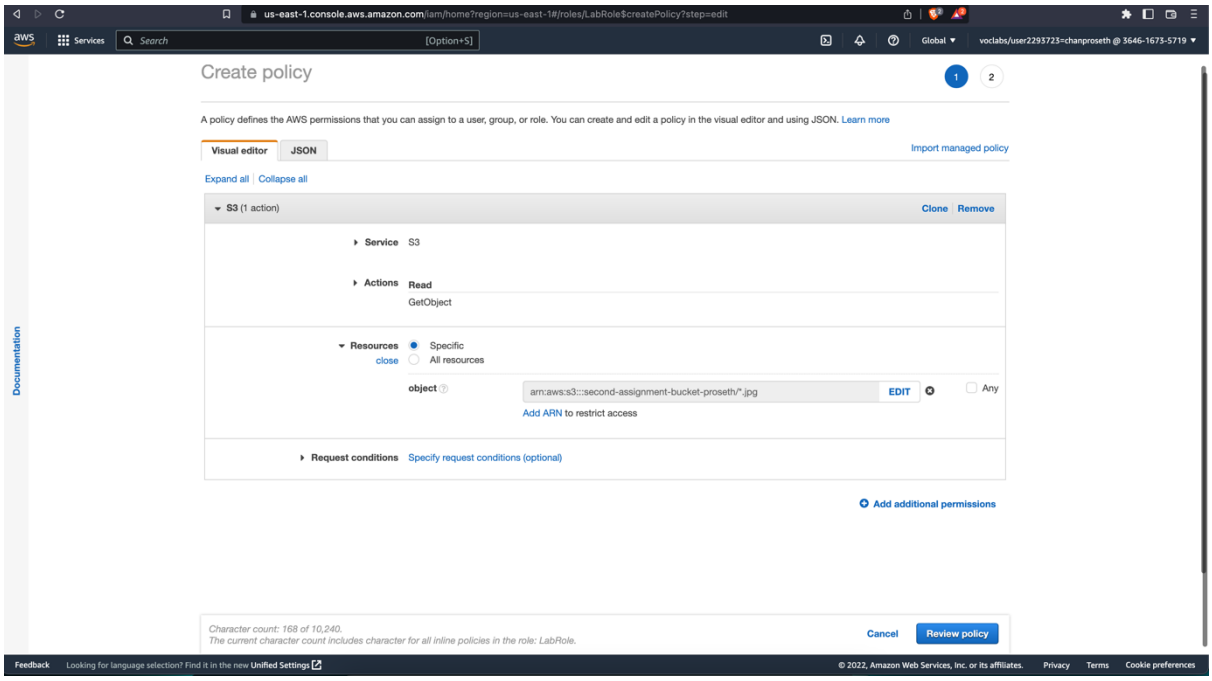
➔ Go to IAM



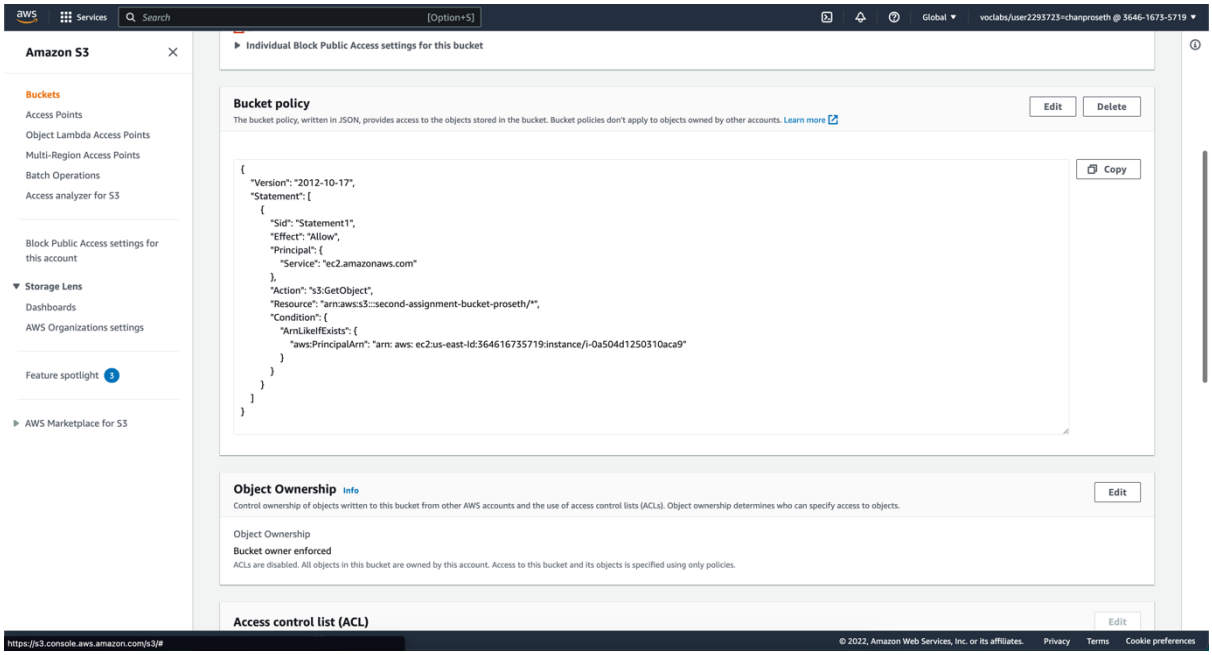
➔ Add permissions
➔ Create inline policy



➔ Choose Server S3 > Action select get object
➔ Specified bucket object with ARN
➔ Last add condition



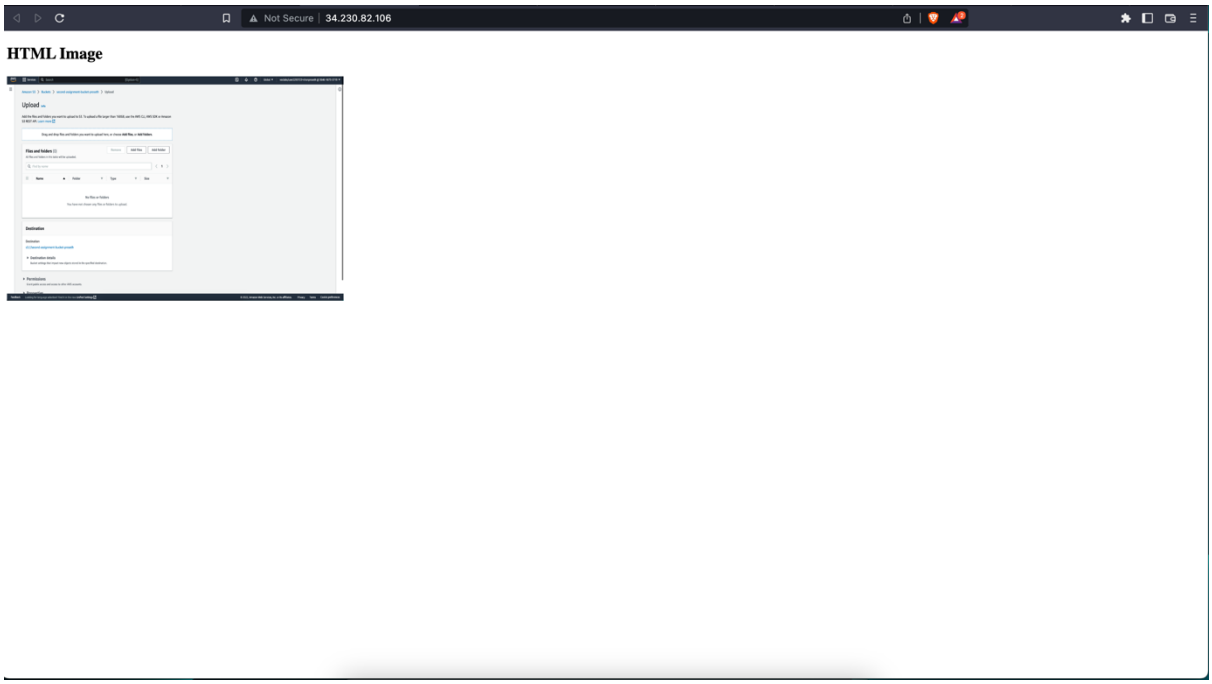
➔ Bucket policy added here because we don't have permission to add policy in IAM with academy account



➔ Connect EC2 Session Manager
➔ Use command to copy image from the bucket
➔ We can see it successfully copied

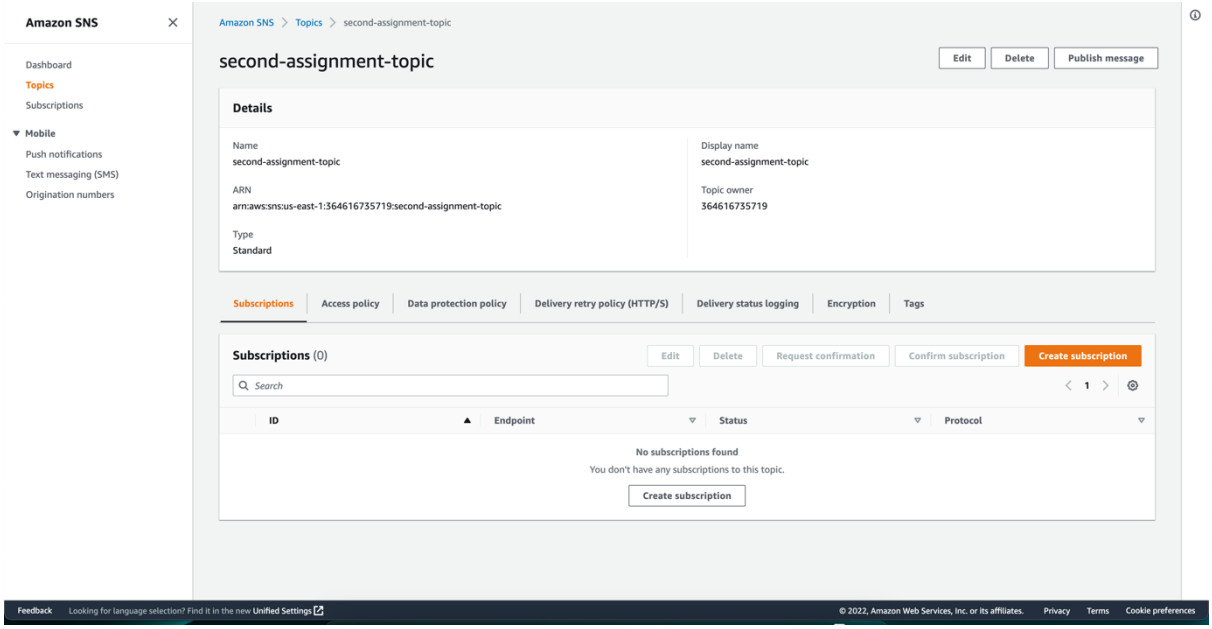
➔ Create index.html and read the image to display in the website

➔ Result

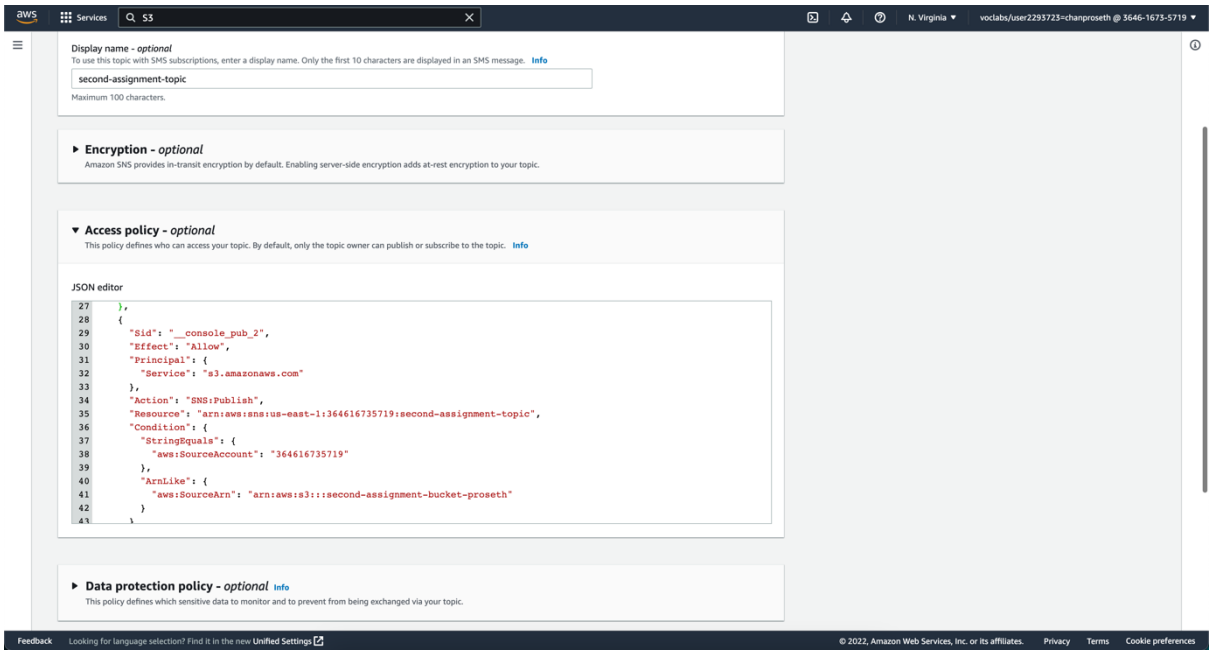


2. Send an email to yourself when the object is created in the bucket.
    a) You need to create an SNS topic. Modify the default SNS policy while creating the SNS.
    b) Subsribe it with your email.

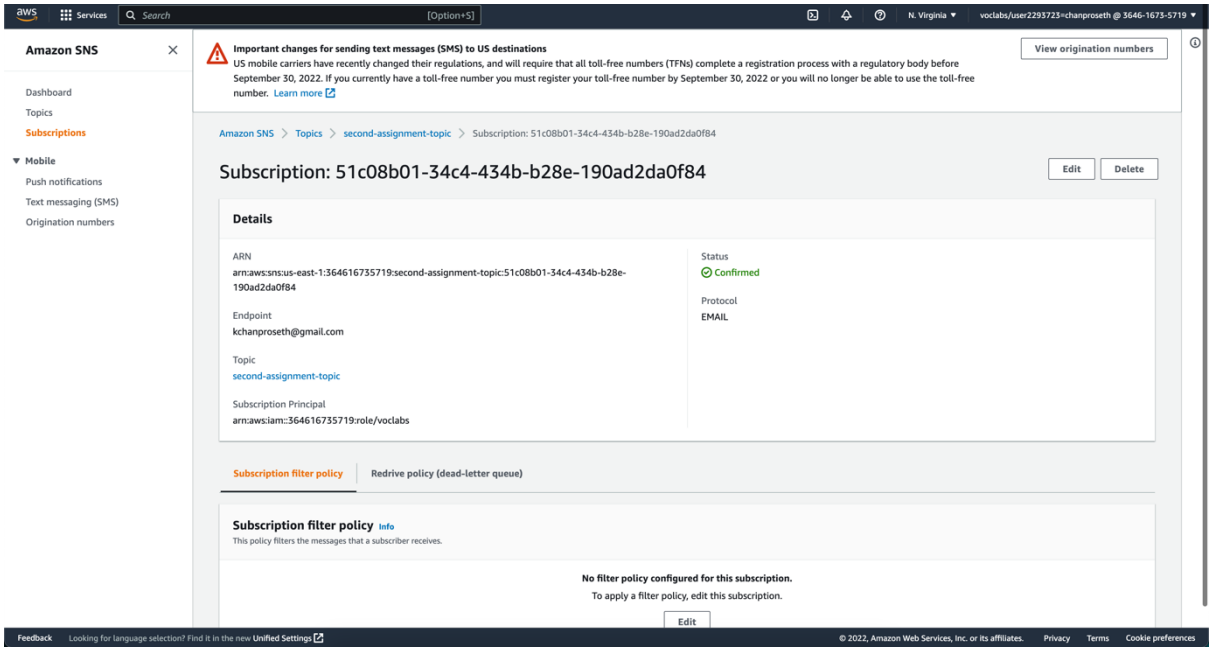
➔ Create SNS Topic



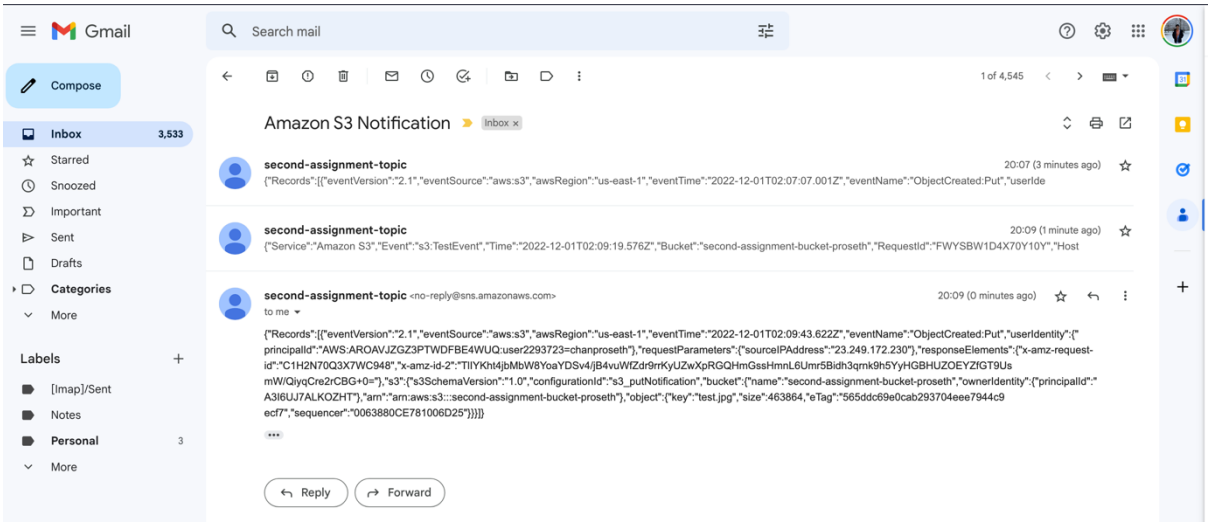
➔ Add Policy for S3 to access publish email from event that trigger in the s3 bucket



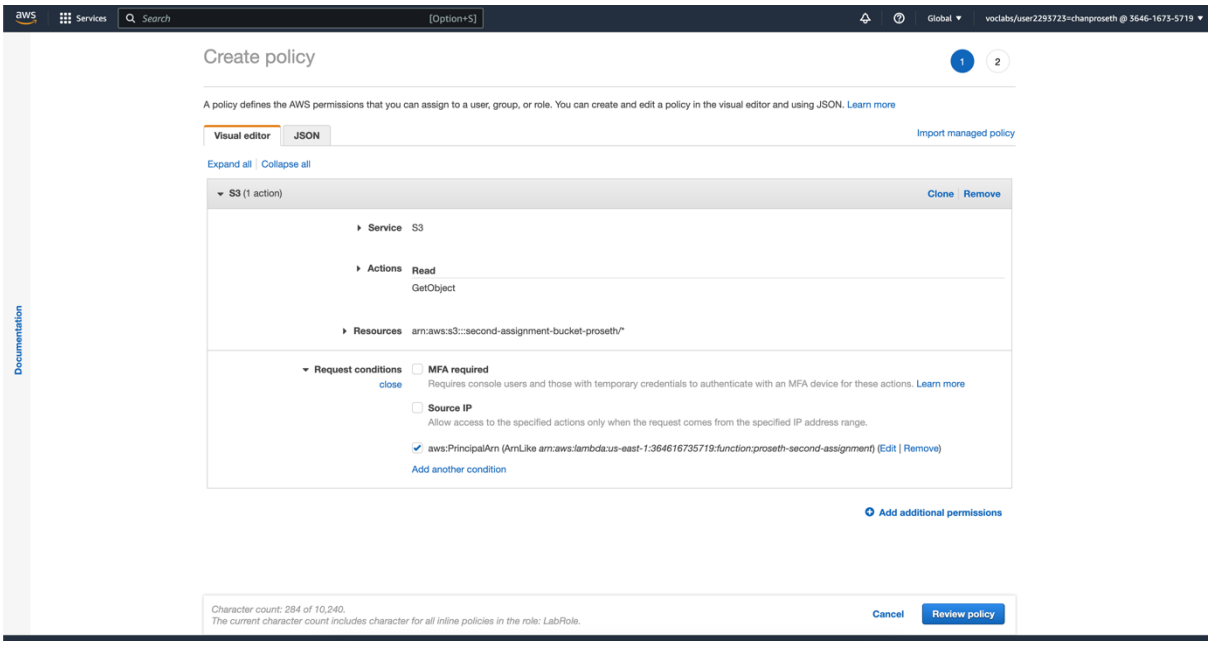
➔ Create subscription to my email



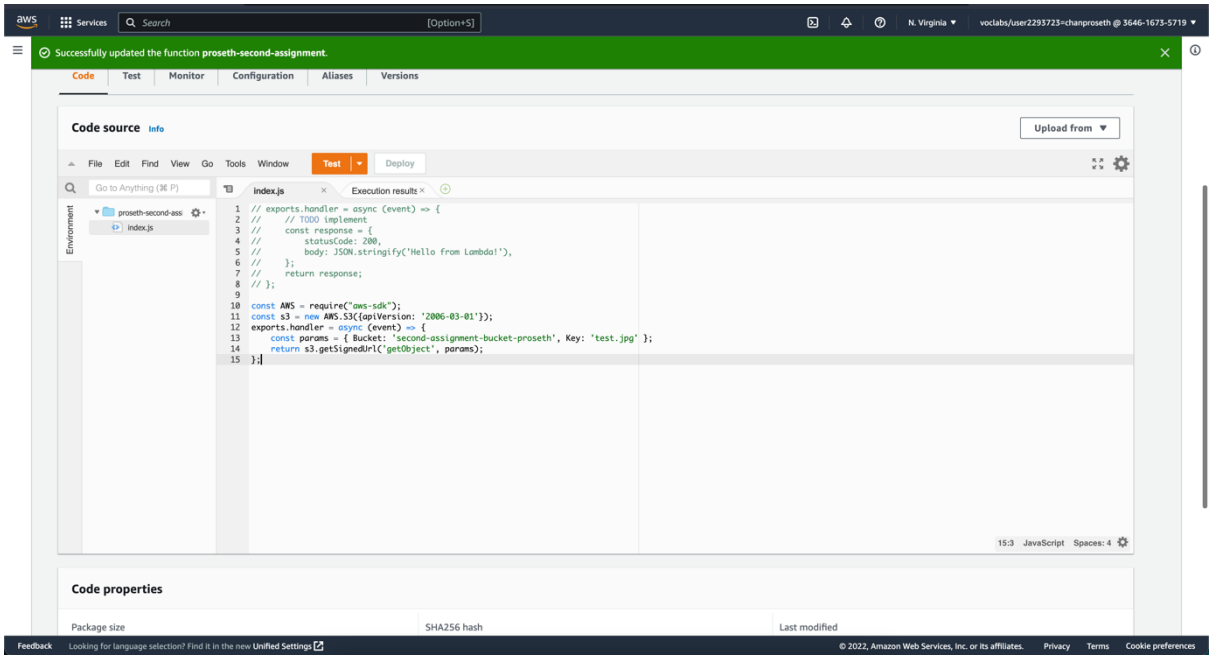
➔ Received email after upload or update new image



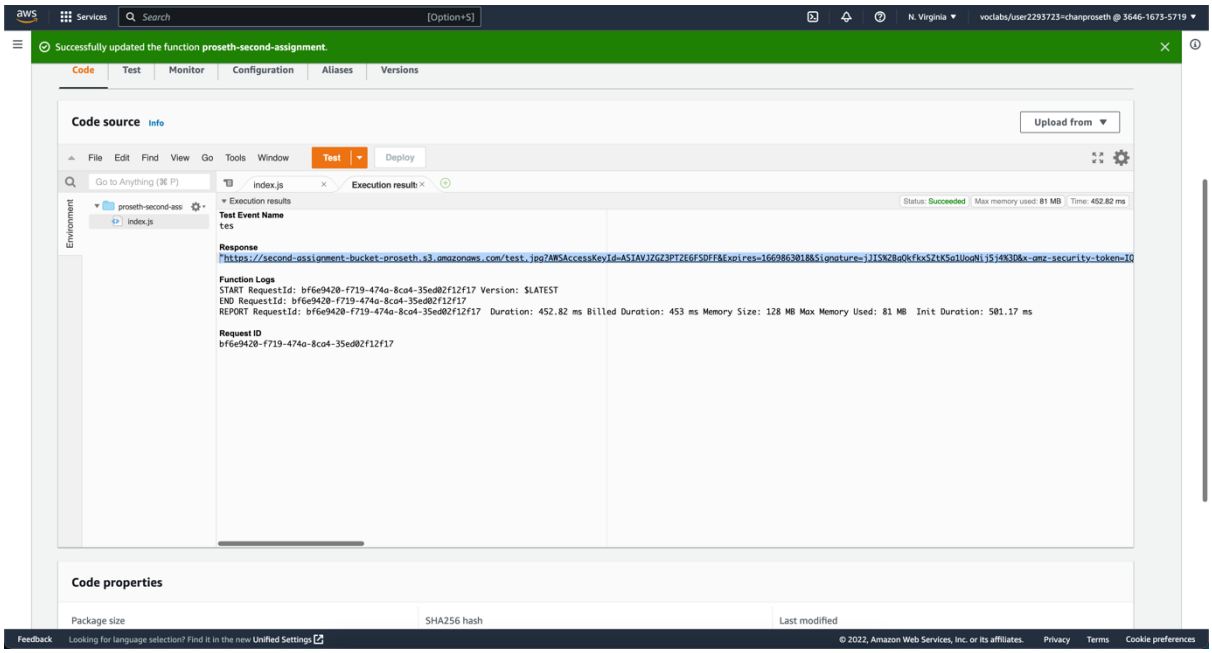
3. Write a lambda that returns a Signed URL of the object. Make sure the LabRole has an inline policy that allows getting objects from the bucket.

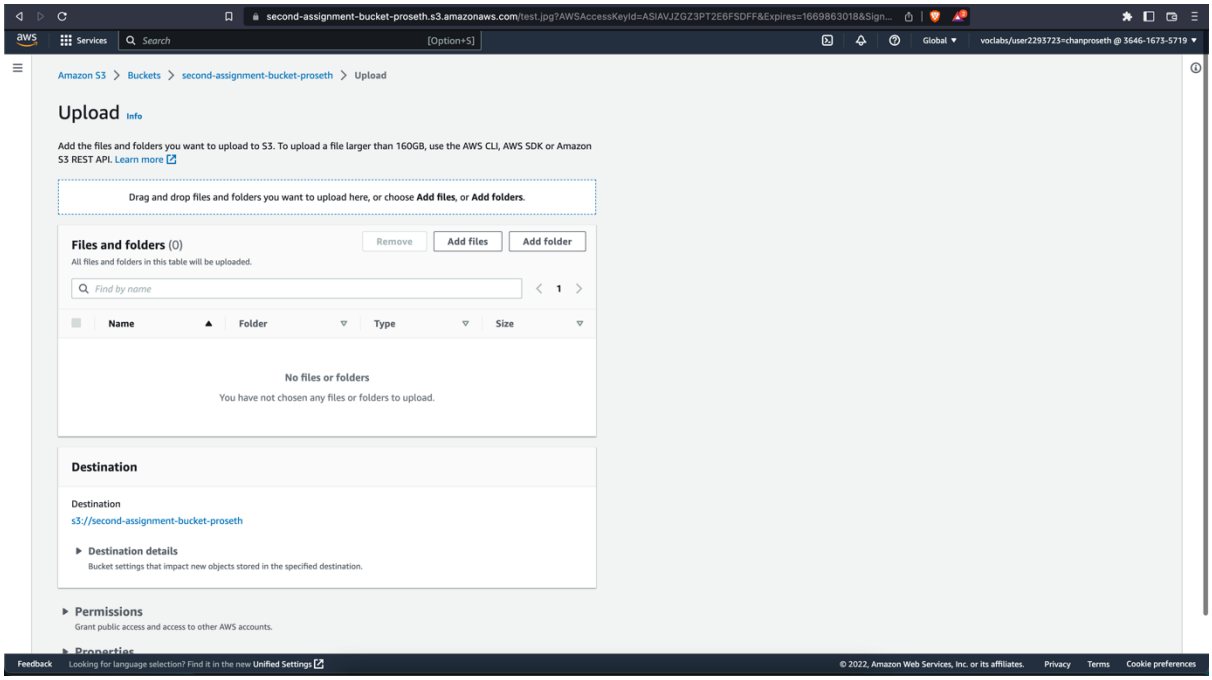


➔ Add code snippet to run call aws sdk and get image from bucket then get the signed url



➔ Test result success




second-assignment-bucket-proseth.s3.amazonaws.com/test.jpg?AWSAccessKeyId=ASIAVJZGZ3PT2E6FSDFF&Expires=1669863018&Sign...
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voclabs/user2293723=chanproseth @ 3646-1673-5719
Amazon S3 > Buckets > second-assignment-bucket-proseth > Upload
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
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Files and folders (0)
All files and folders in this table will be uploaded.
Remove
Add files
Add folder
Find by name
1
Name
Folder
Type
Size
No files or folders
You have not chosen any files or folders to upload.
Destination
Destination
s3://second-assignment-bucket-proseth
Destination details
Bucket settings that impact new objects stored in the specified destination.
Permissions
Grant public access and access to other AWS accounts.
Properties
Feedback
Looking for language selection? Find it in the new Unified Settings
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