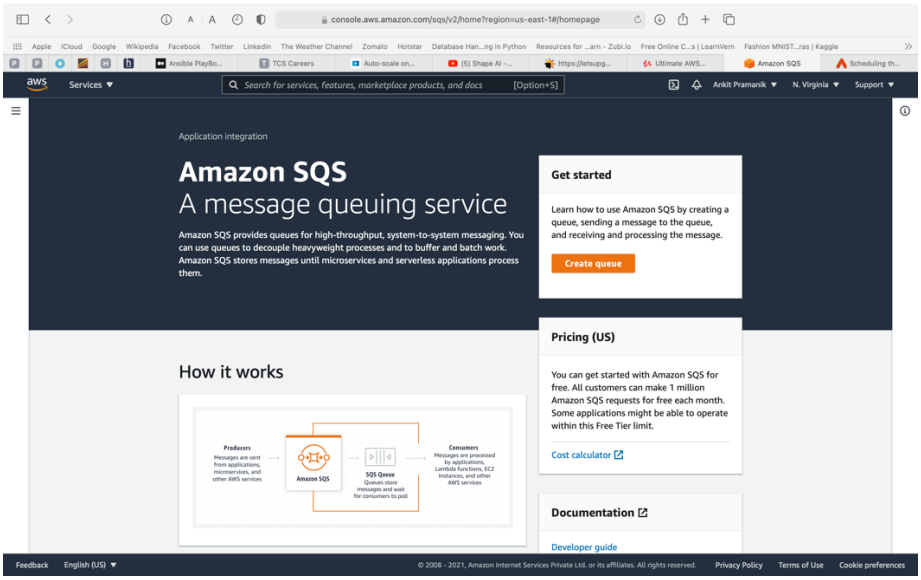
AWS SQS Integration with AWS Lambda and AWS S3

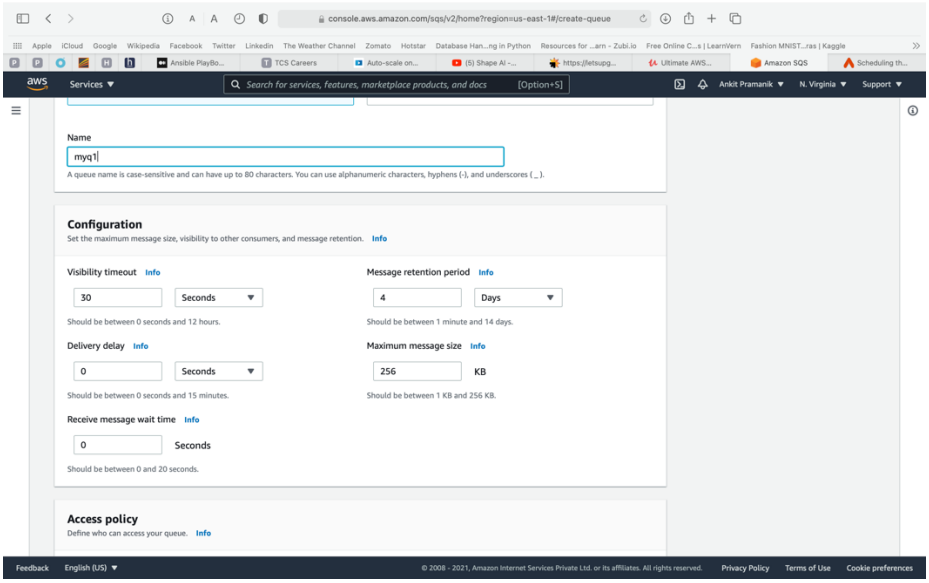
Aim – Whenever an user will upload an object to the S3 bucker, there will be the Lambda Function which will get triggered and a message will be sent to the AWS SQS. Later we can poll the message for further use cases and read/use the message.

All the steps have been performed over AWS using free tier account.

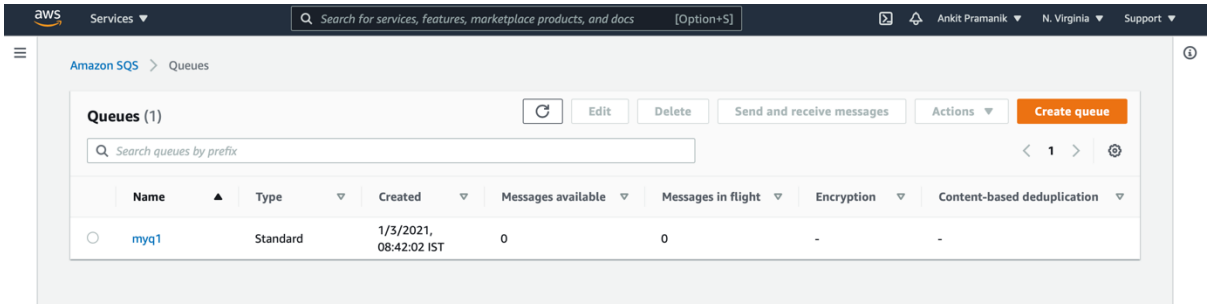
Step 1: Go to AWS SQS and create a queue.



Step 2: We created the queue with name ***myq1***

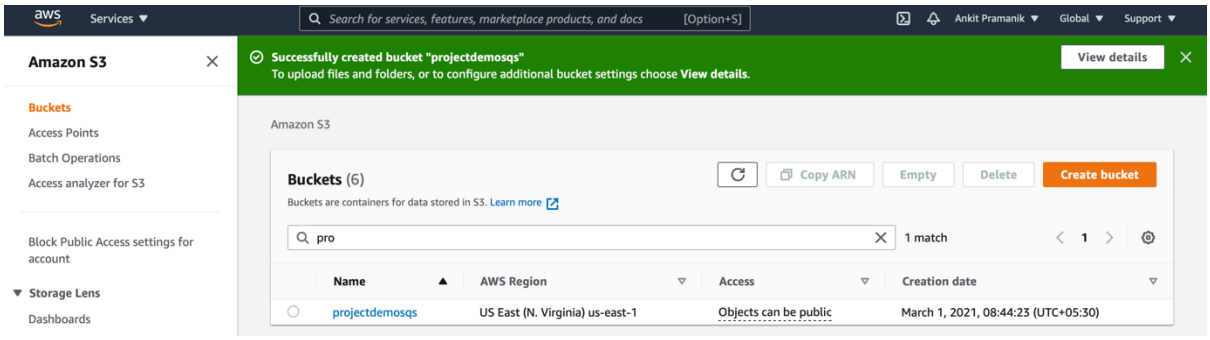


Step 3: Our queue is ready. We can see as of now, we don't have any available messasges.

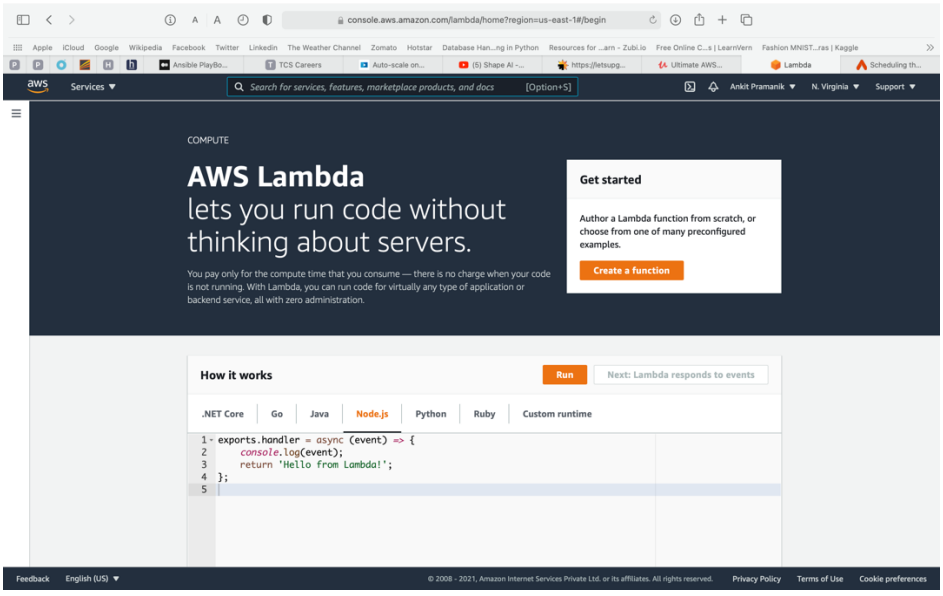


Step 4: Now to create a S3 bucket. We created bucket with the name ***projectdemosqs***.

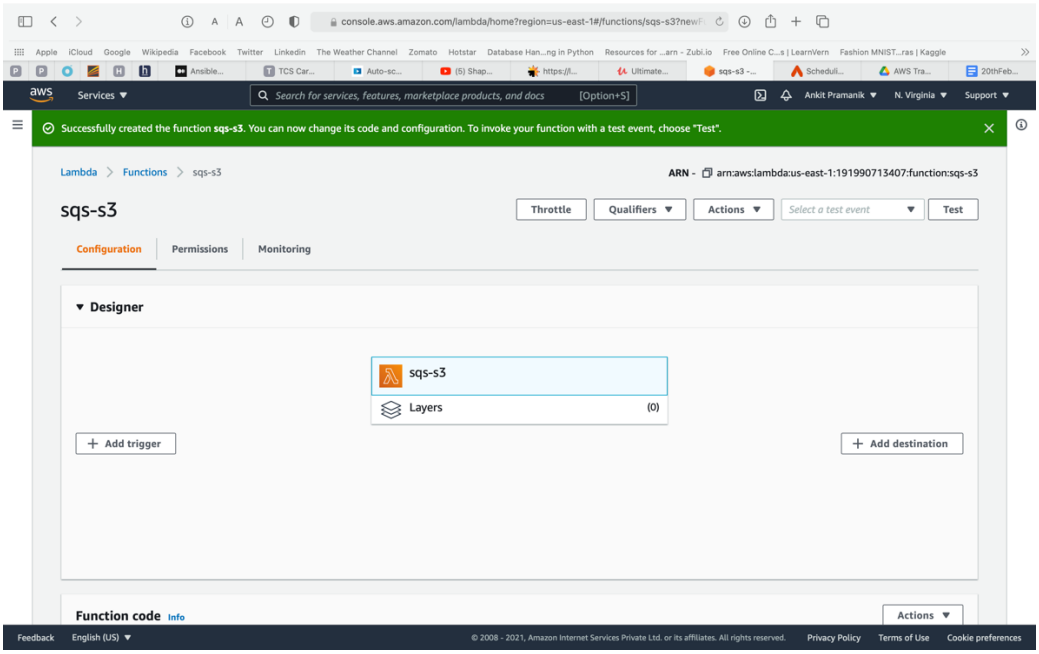
(NOTE: The bucket name must be unique and no uppercase is allowed)



Step 5: Now its time to create a Lambda Function. Go to AWS Lambda Homepage and create a function. We will be using a simple function which will print a message that something is uploaded



Step 6: Our function with the name ***sqs-s3***

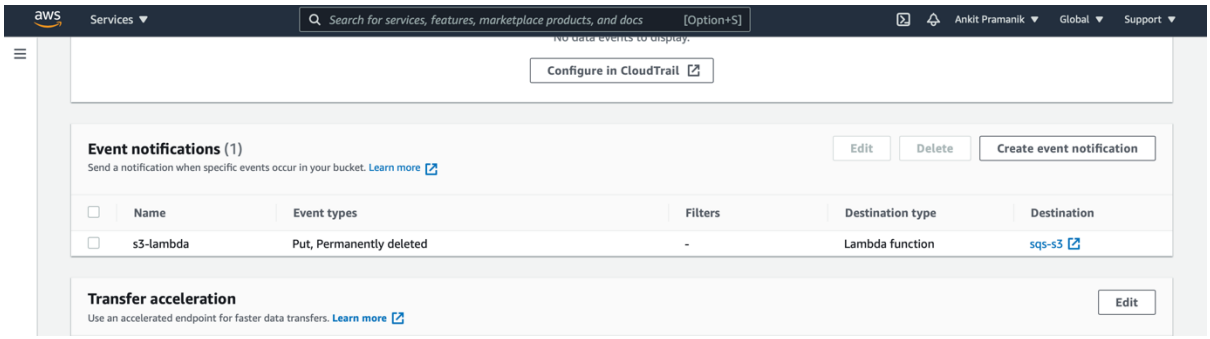


Step 7: Next is we need to add a trigger to our Lambda Function. Now there are multiple ways to do that.

i. We can directly click on the option ***trigger***.

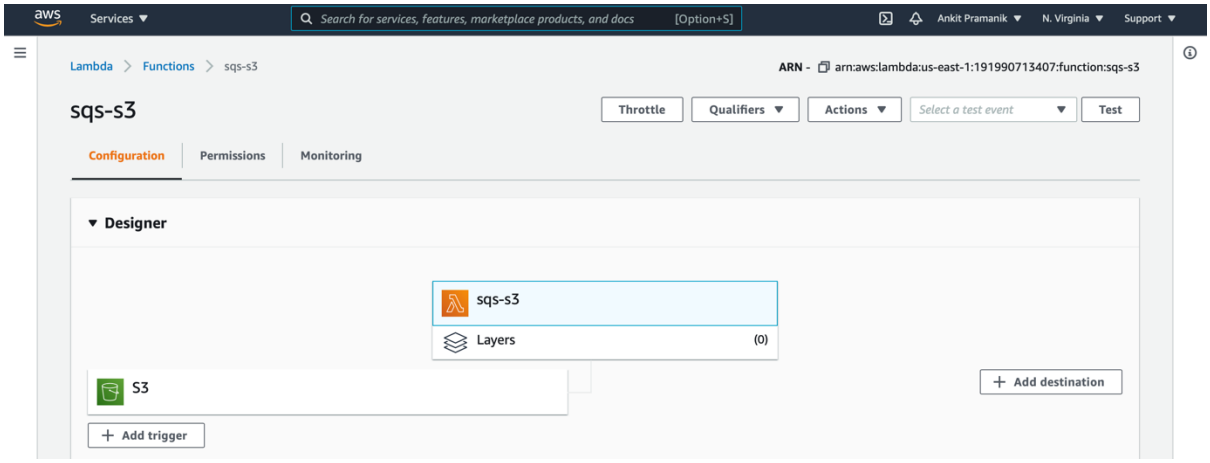
ii. We can manually go to our S3 bucket(***projectdemosqs***) -> ***Event Notification*** -> ***Create event notification***

Here in this demo, I have followed the (ii) step.

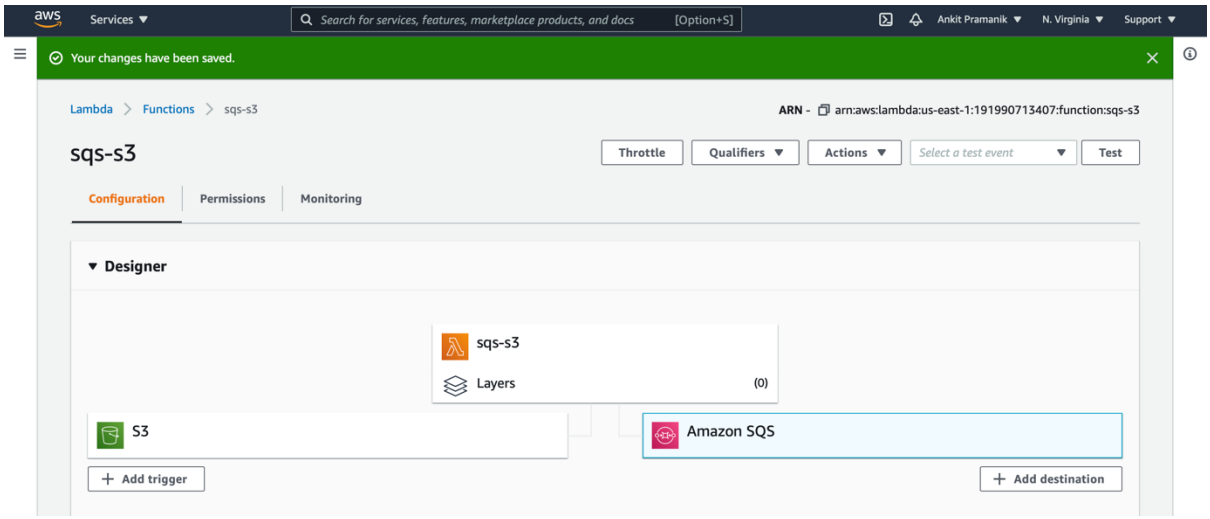


Hence our trigger is ready.

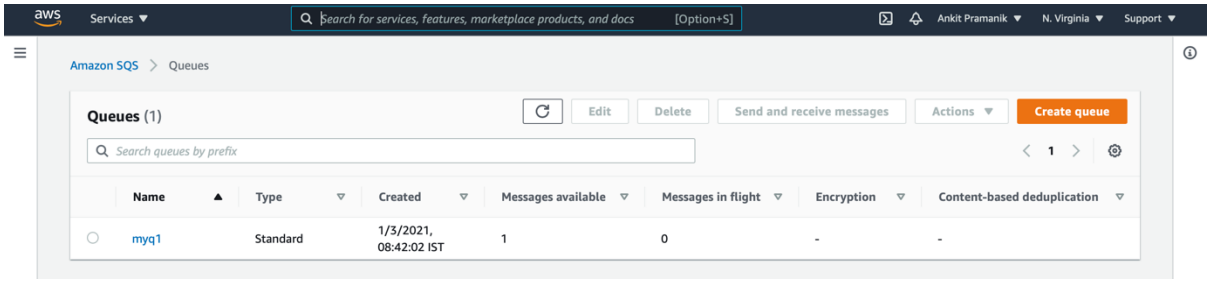
Step 8: We need to add a destination to our Lambda function. On this add destination, we can add a SQS queue (Where the message after successful execution of the function will store up the message).



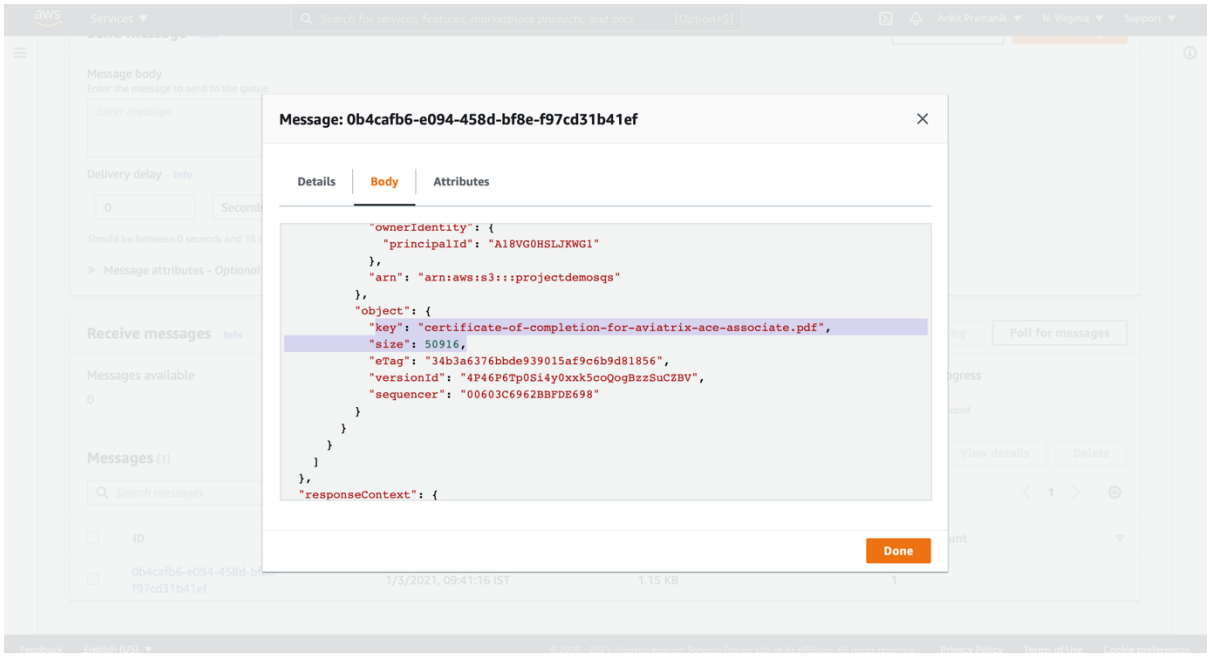
Successfully added the SQS queue (***myq1***) in the destination.



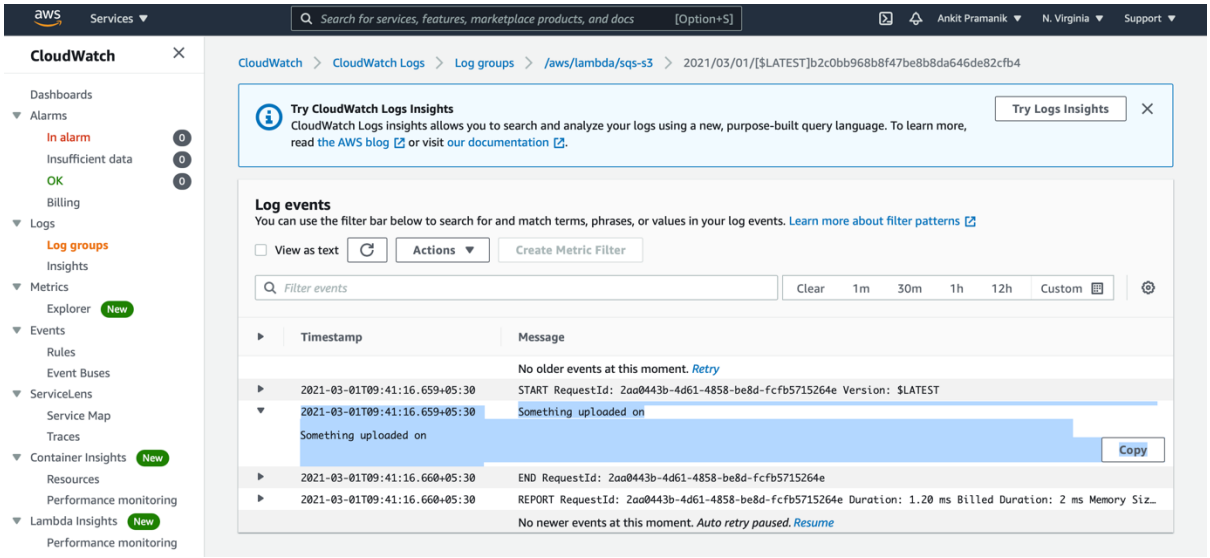
Now, we added an object to our S3 bucket, we can see that there is one message available in the queue we created



To see in detail what the message is, we first open the queue (***myq1***) and then we Poll for the message. Also in the body, if we see in detail, it's a JSON format message containing all the details including the name, size and every details of the object and what actions took place.



Also in the cloudwatch logs of the lambda function we can see details/logs of our function getting executed.



Thank You