Problem Statement:

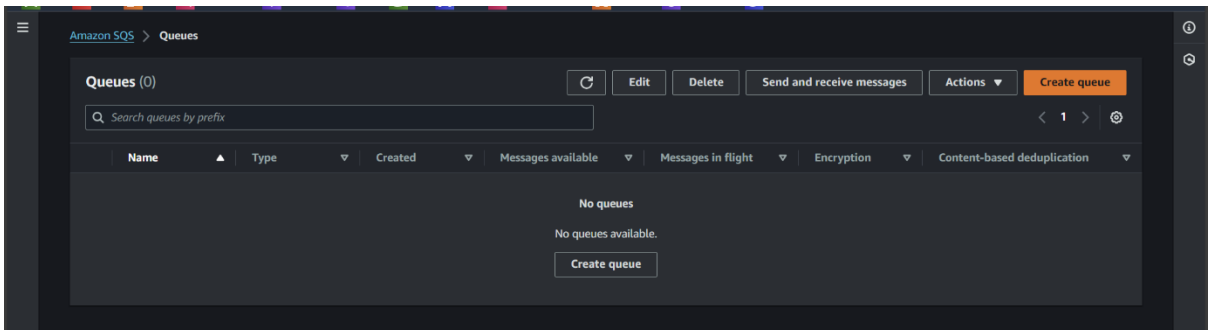
You work for XYZ Corporation. Your corporation wants to launch a new web-based application and they do not want their servers to be running all the time. It should also be managed by AWS. Implement suitable solutions.

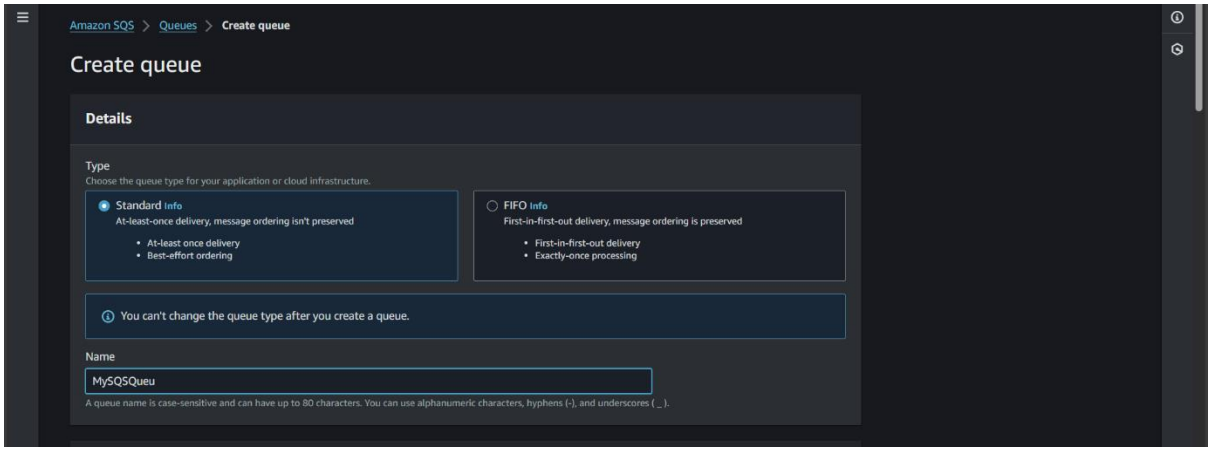
Tasks To Be Performed:

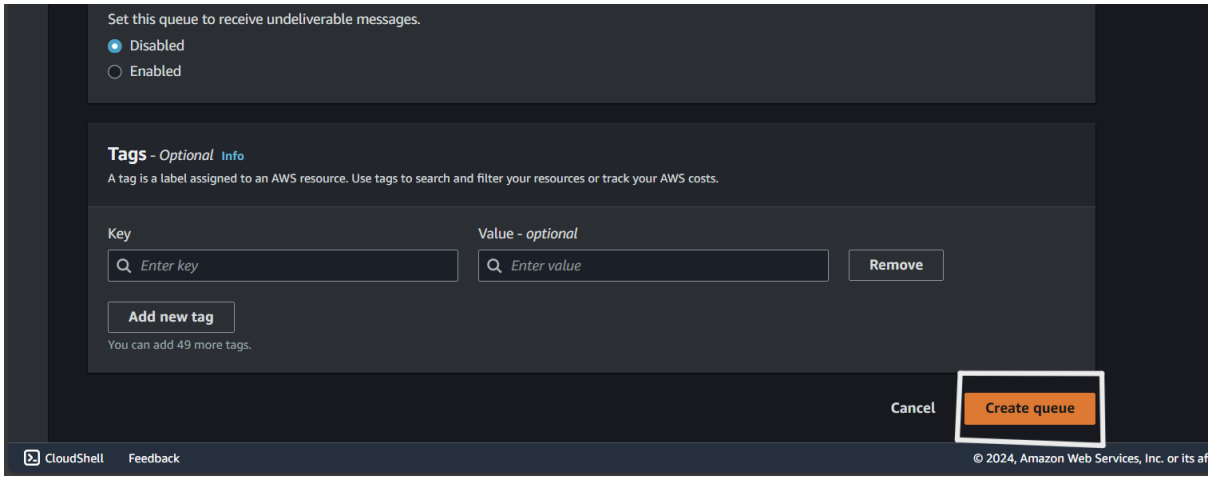
1. Create a sample Python Lambda function.

2. Set the Lambda Trigger as SQS and send a message to test invocations.

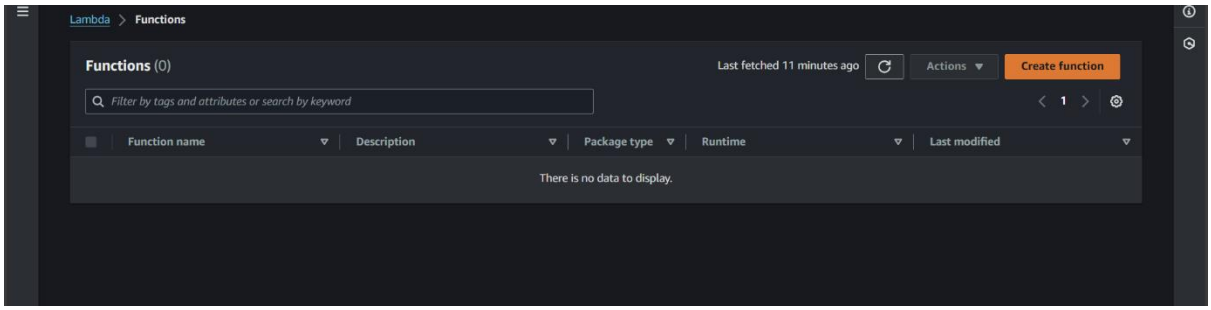
A. Created SQS Queue

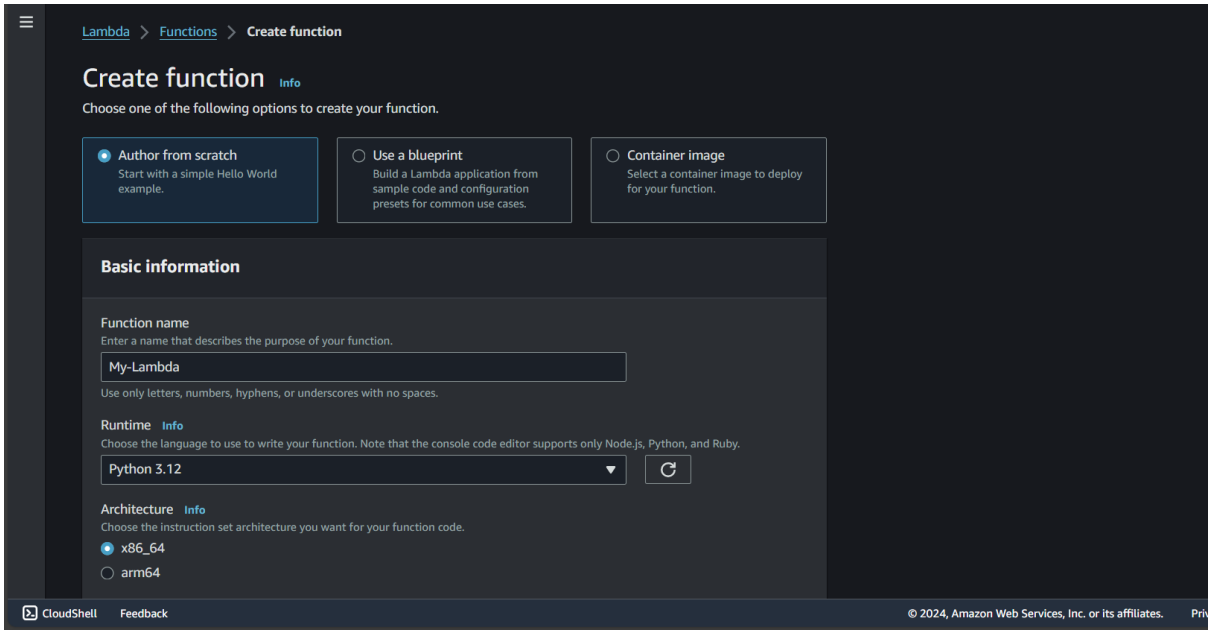


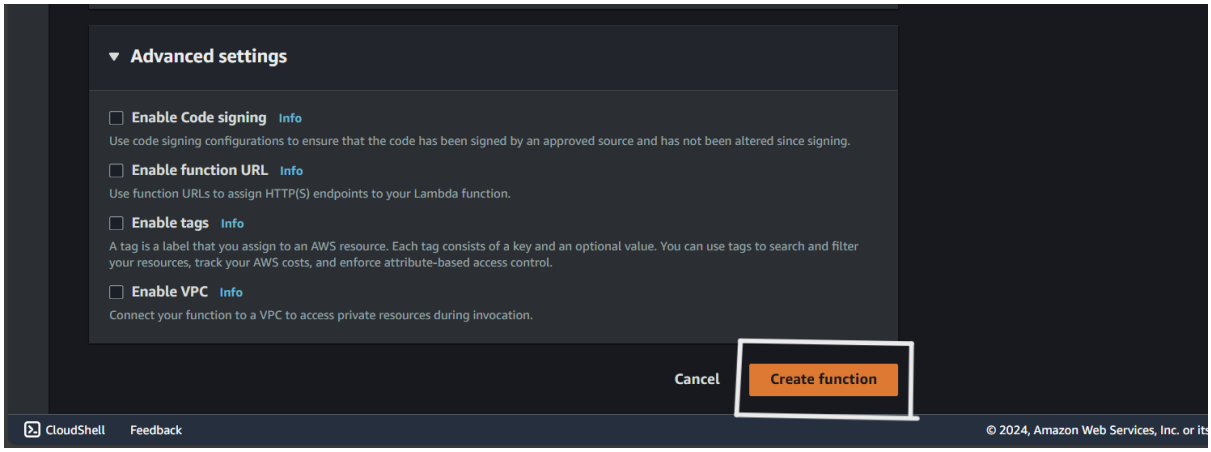




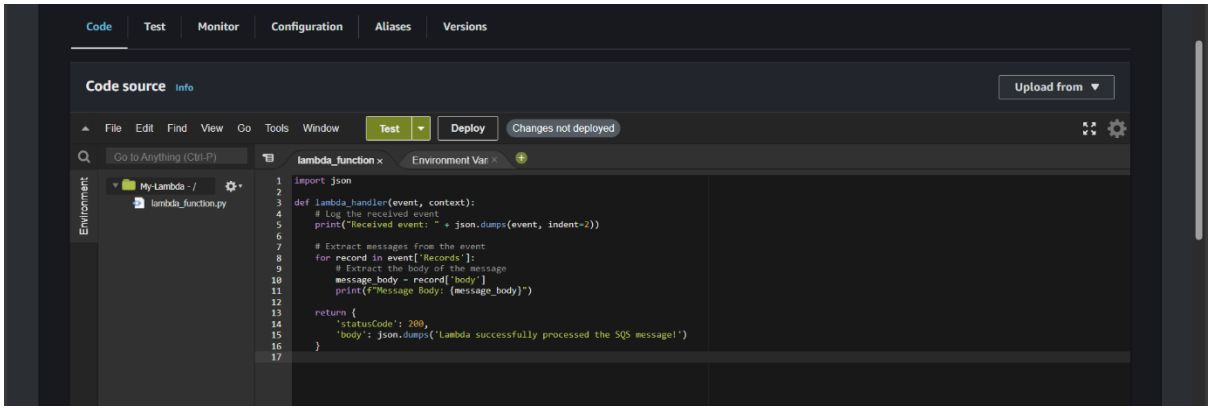
B. Create a lambda function



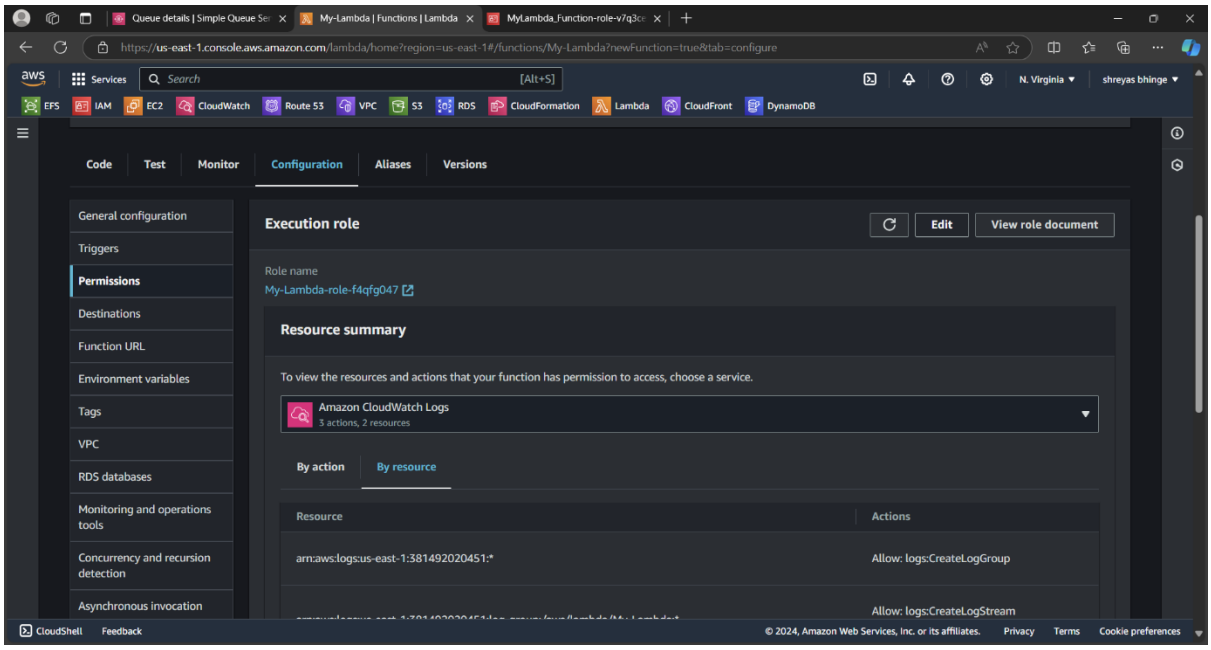




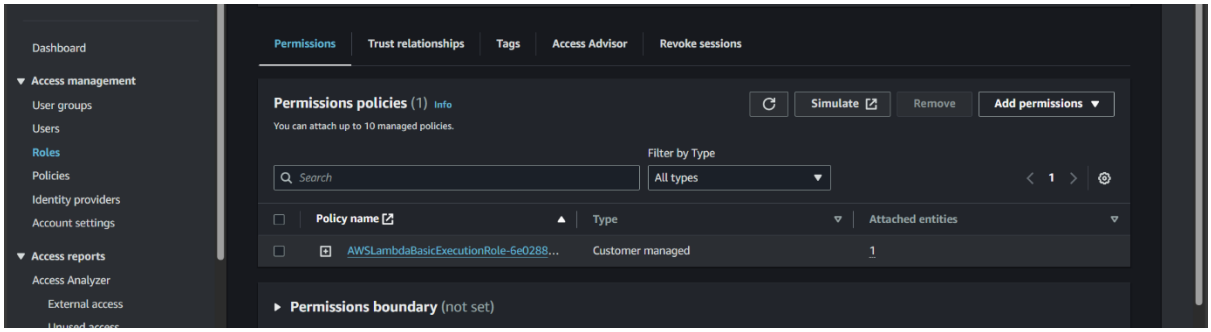
Under function code write the code

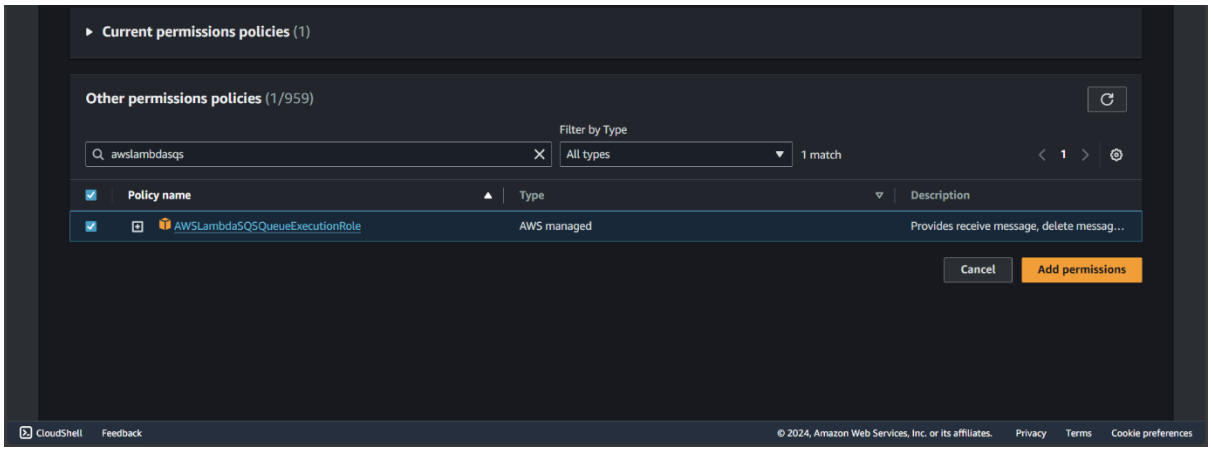


C. Grant lambda access to SQS

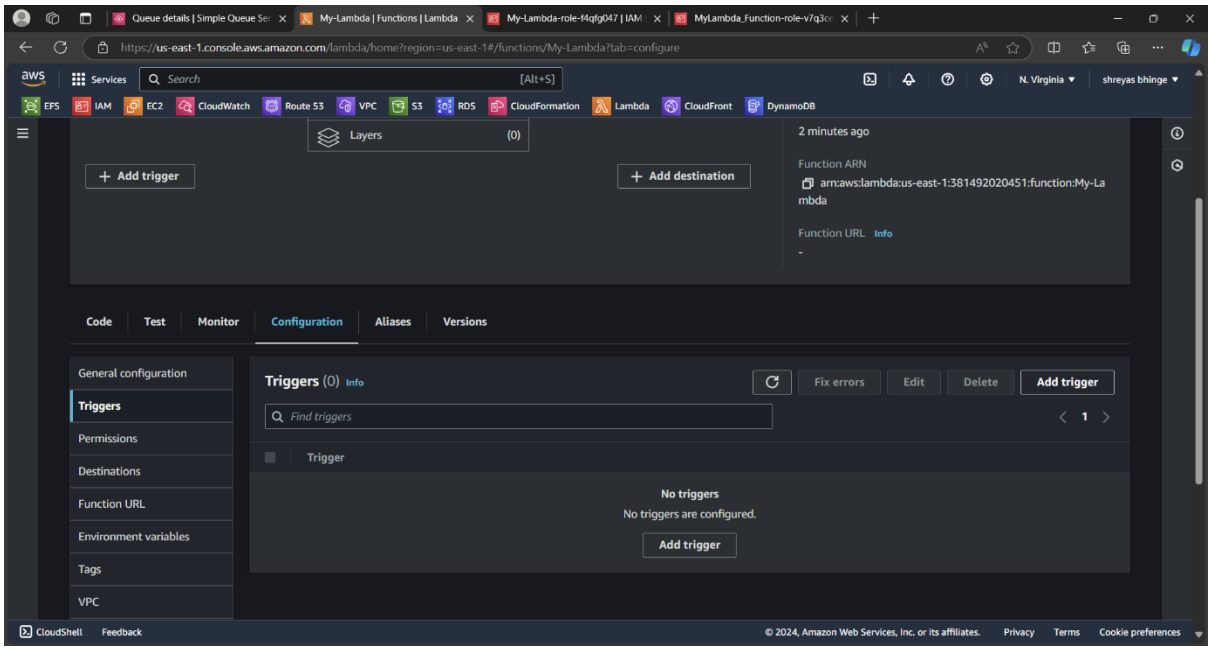


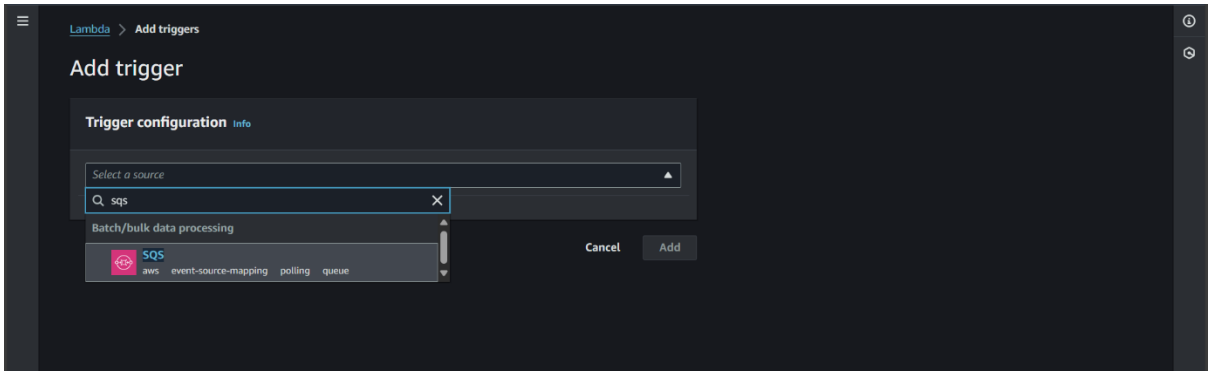
Click on Add permission

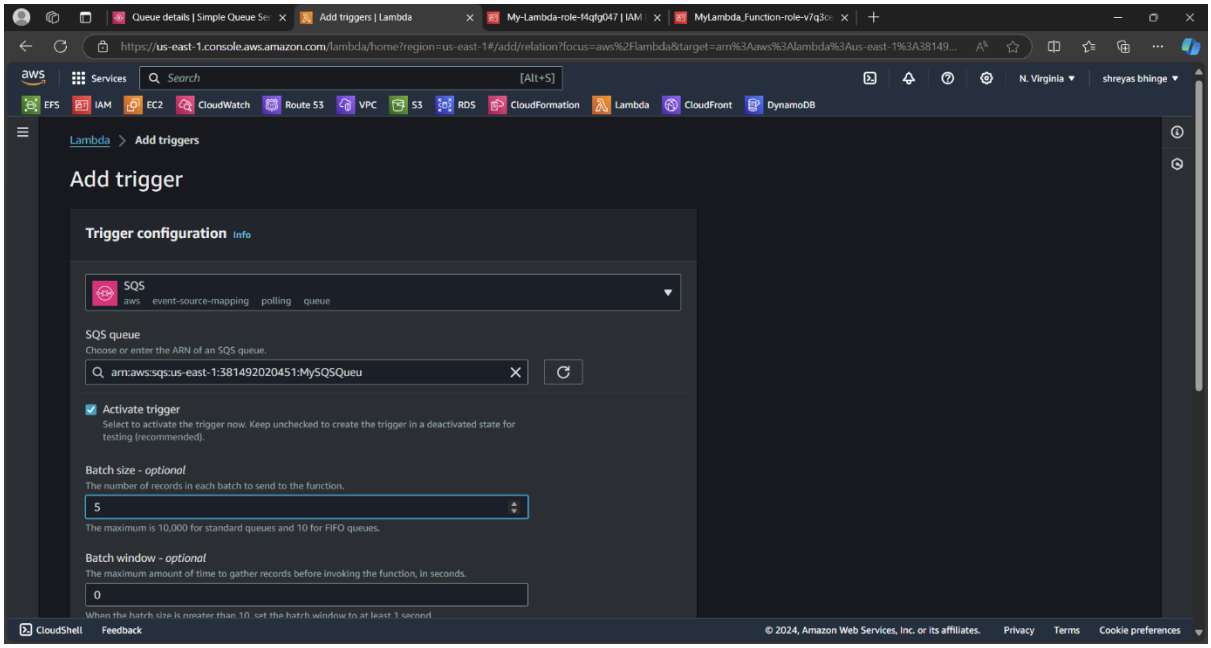


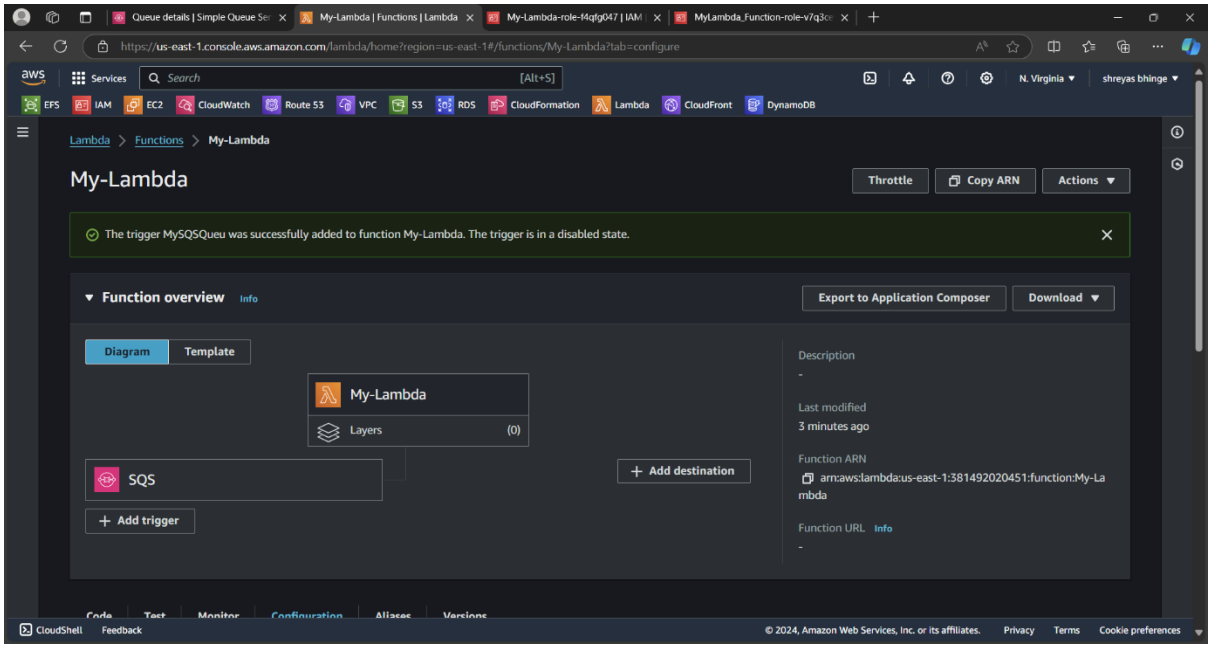


D. Add Trigger

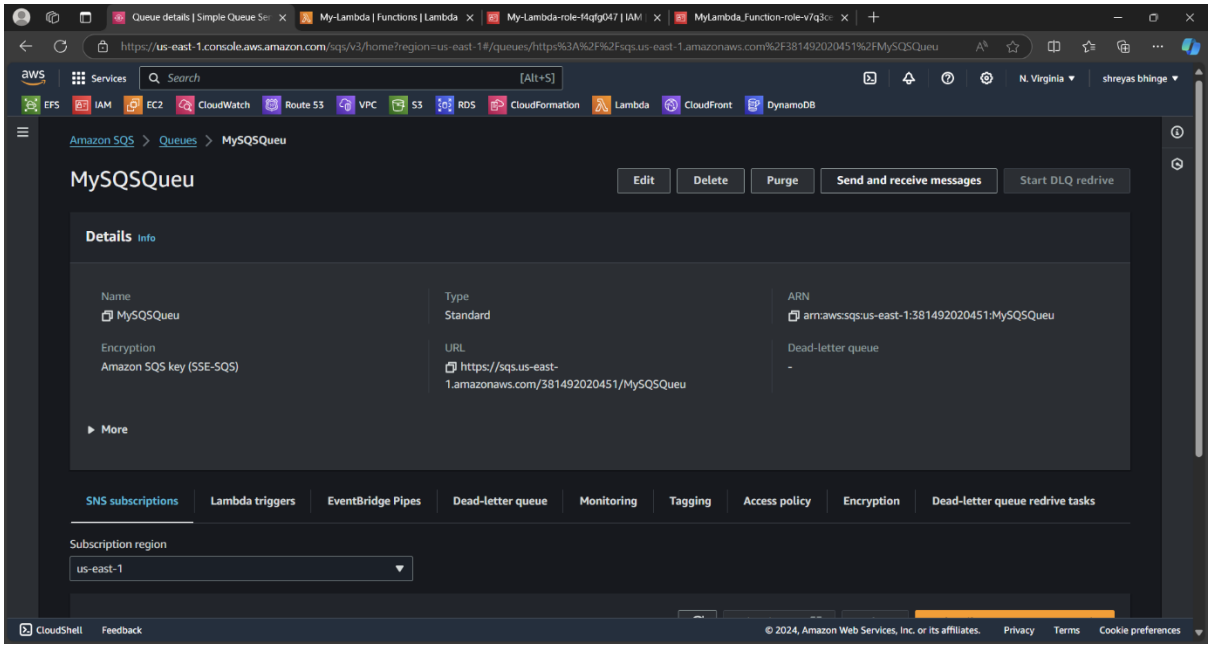


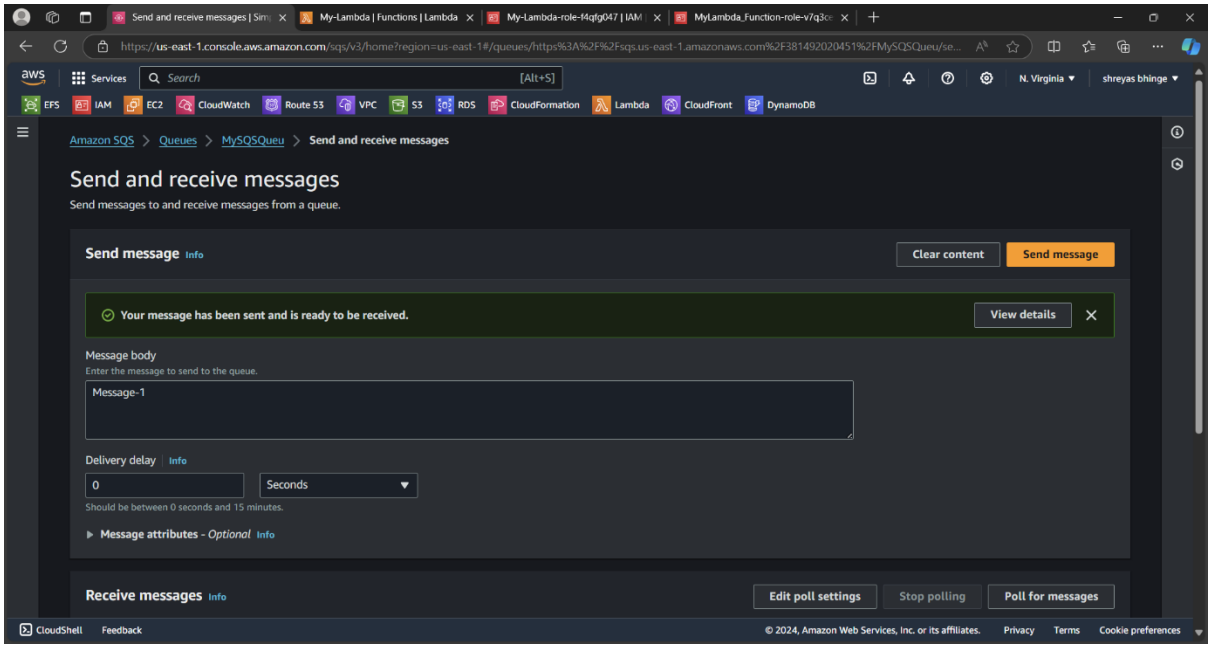




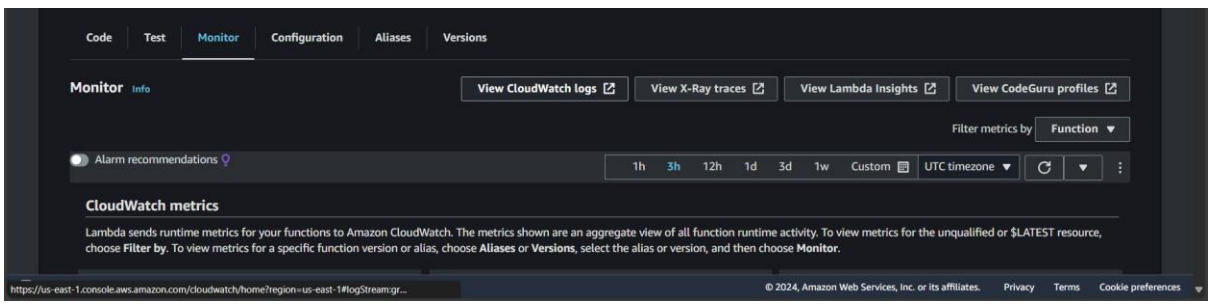


Go to SQS and click On “Send and Receive Messages”

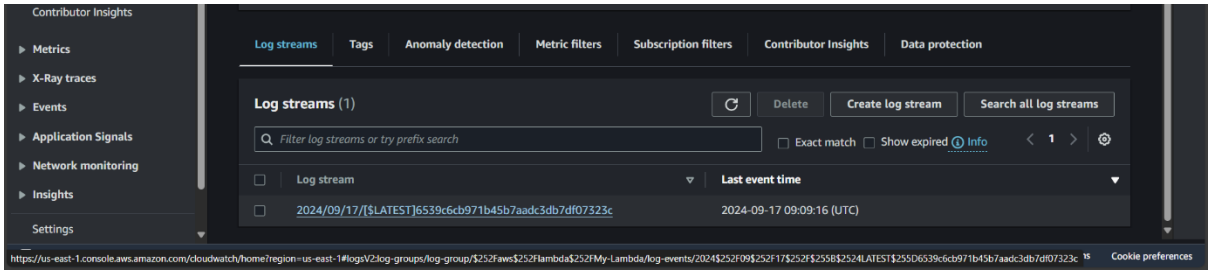


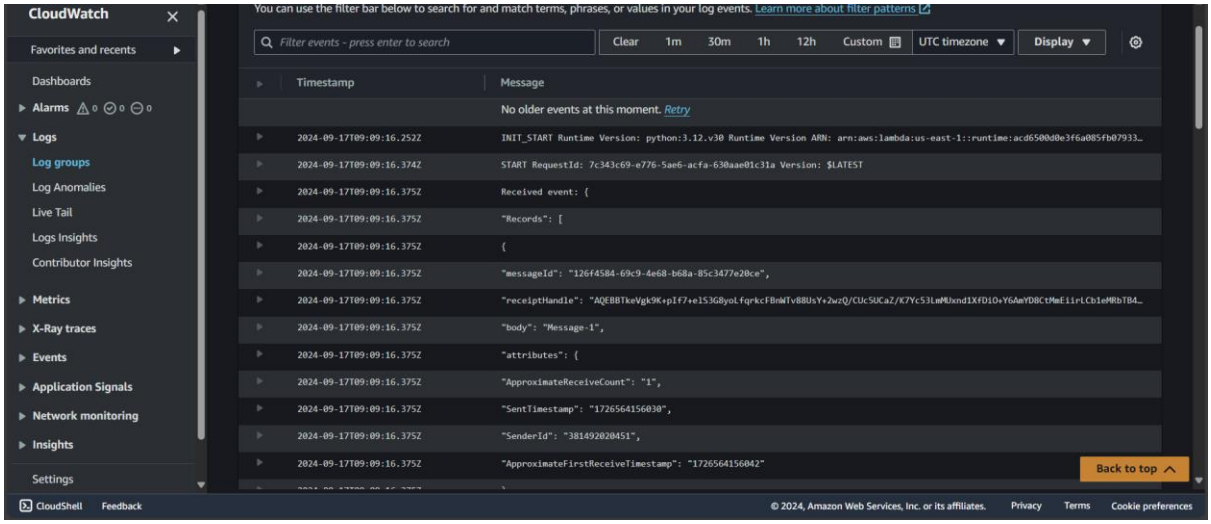


Go to Lambda function under Monitor section



Click on View CloudWatch Log


Contributor Insights
Metrics
X-Ray traces
Events
Application Signals
Network monitoring
Insights
Settings
Log streams
Tags
Anomaly detection
Metric filters
Subscription filters
Contributor Insights
Data protection
Log streams (1)
Delete
Create log stream
Search all log streams
Filter log streams or try prefix search
Exact match
Show expired
Info
Log stream
Last event time
2024/09/17/[$LATEST]6539c6cb971b45b7aadc3db7df07323c
2024-09-17 09:09:16 (UTC)
Cookie preferences


CloudWatch
Favorites and recents
Dashboards
Alarms
Logs
Log groups
Log Anomalies
Live Tail
Logs Insights
Contributor Insights
Metrics
X-Ray traces
Events
Application Signals
Network monitoring
Insights
Settings
You can use the filter bar below to search for and match terms, phrases, or values in your log events. Learn more about filter patterns
Filter events - press enter to search
Clear
1m
30m
1h
12h
Custom
UTC timezone
Display
Timestamp
Message
No older events at this moment. Retry
2024-09-17T09:09:16.252Z
INIT_START Runtime Version: python:3.12.v30 Runtime Version ARN: arn:aws:lambda:us-east-1::runtime:acd6500d0e3f6a085fb07933…
2024-09-17T09:09:16.374Z
START RequestId: 7c343c69-e776-5ae6-acfa-630aae01c31a Version: $LATEST
2024-09-17T09:09:16.375Z
Received event: {
"Records": [
{
"messageId": "126f4584-69c9-4e68-b68a-85c3477e20ce",
"receiptHandle": "AQEBBTkeVgk9K+pIf7+el53G8yoLfqrkcFBnWTv88UsY+2wzQ/CUc5UCaZ/K7Yc53LmMUxnd1XfDiO+Y6AmYD8CtMmEiirLCb1eMRbTB4…
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"attributes": {
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"SentTimestamp": "1726564156030",
"SenderId": "381492020451",
"ApproximateFirstReceiveTimestamp": "1726564156042"
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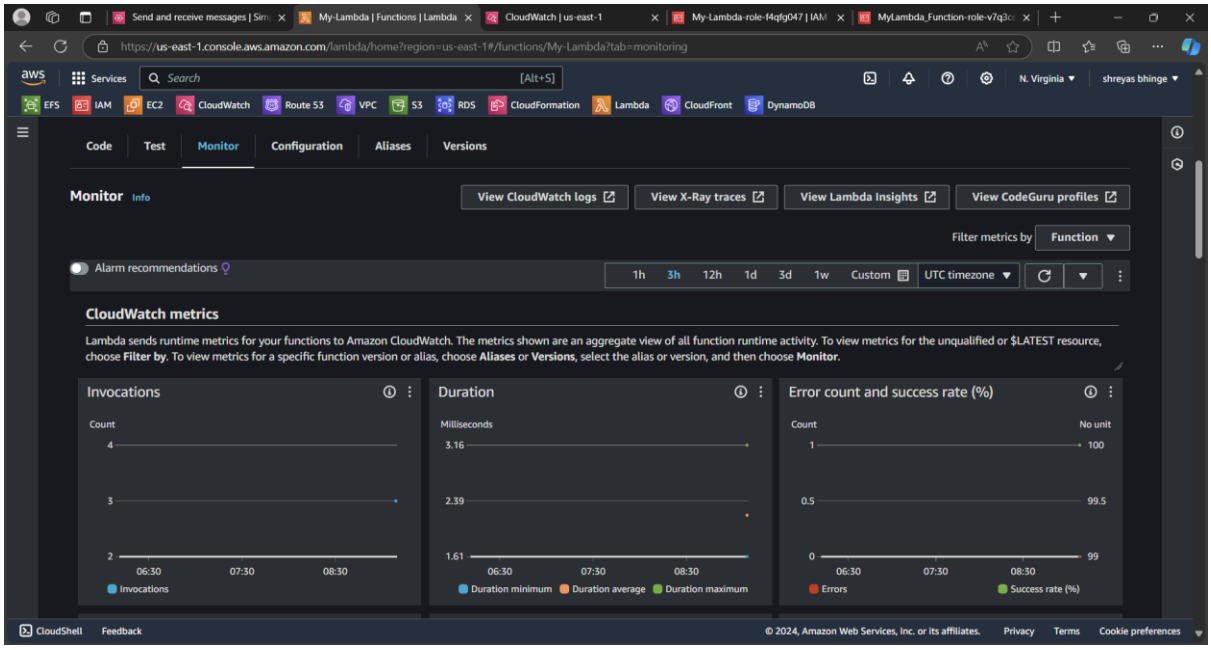
https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/My-Lambda?tab=monitoring
Services
Search
[Alt+S]
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shreyas bhinge
EFS
IAM
EC2
CloudWatch
Route 53
VPC
S3
RDS
CloudFormation
Lambda
CloudFront
DynamoDB
Code
Test
Monitor
Configuration
Aliases
Versions
Monitor
Info
View CloudWatch logs
View X-Ray traces
View Lambda Insights
View CodeGuru profiles
Filter metrics by
Function
Alarm recommendations
1h
3h
12h
1d
3d
1w
Custom
UTC timezone
CloudWatch metrics
Lambda sends runtime metrics for your functions to Amazon CloudWatch. The metrics shown are an aggregate view of all function runtime activity. To view metrics for the unqualified or $LATEST resource, choose Filter by. To view metrics for a specific function version or alias, choose Aliases or Versions, select the alias or version, and then choose Monitor.
Invocations
Count
4
3
2
06:30
07:30
08:30
Invocations
Duration
Milliseconds
3.16
2.39
1.61
Duration minimum
Duration average
Duration maximum
Error count and success rate (%)
Count
No unit
1
0.5
0
100
99.5
99
Errors
Success rate (%)
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