AWS LAMBDA TASK

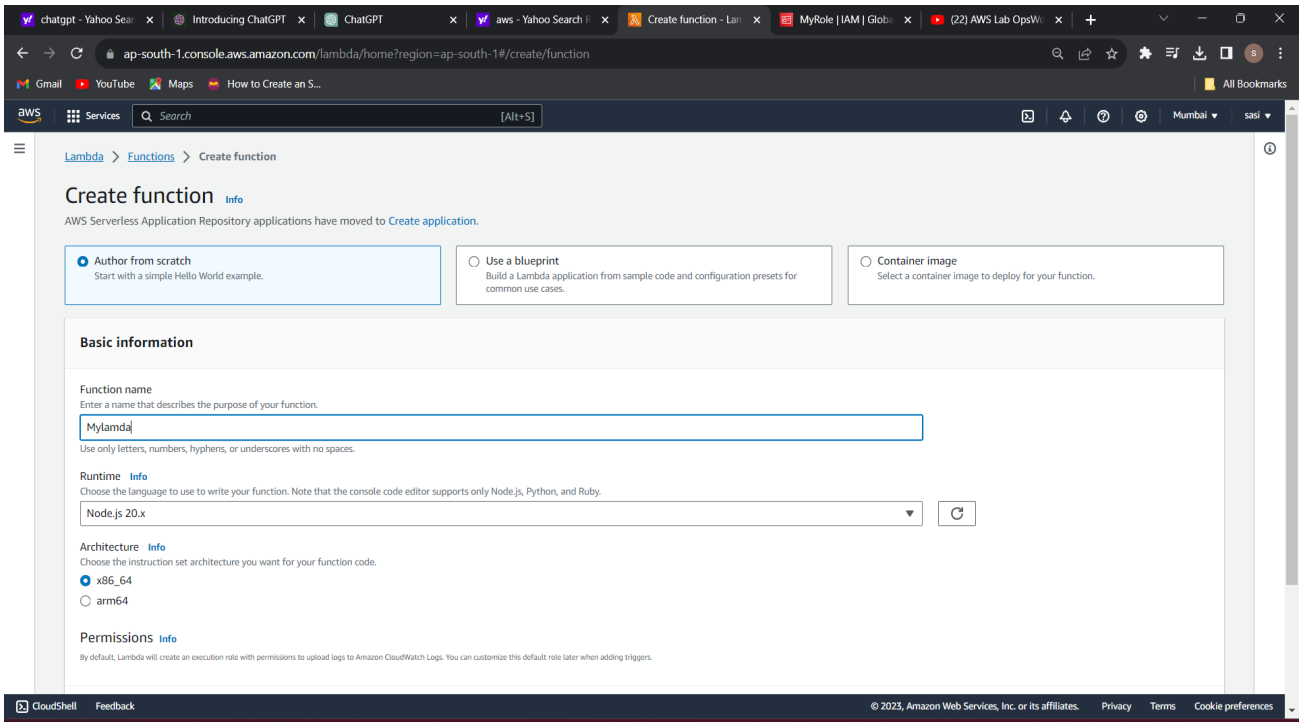
Problem Statement: You work for XYZ Corporation. Your corporation wants to launch a new web-based application and they do not want their servers to be running all the time. It should also be managed by AWS. Implement suitable solutions.

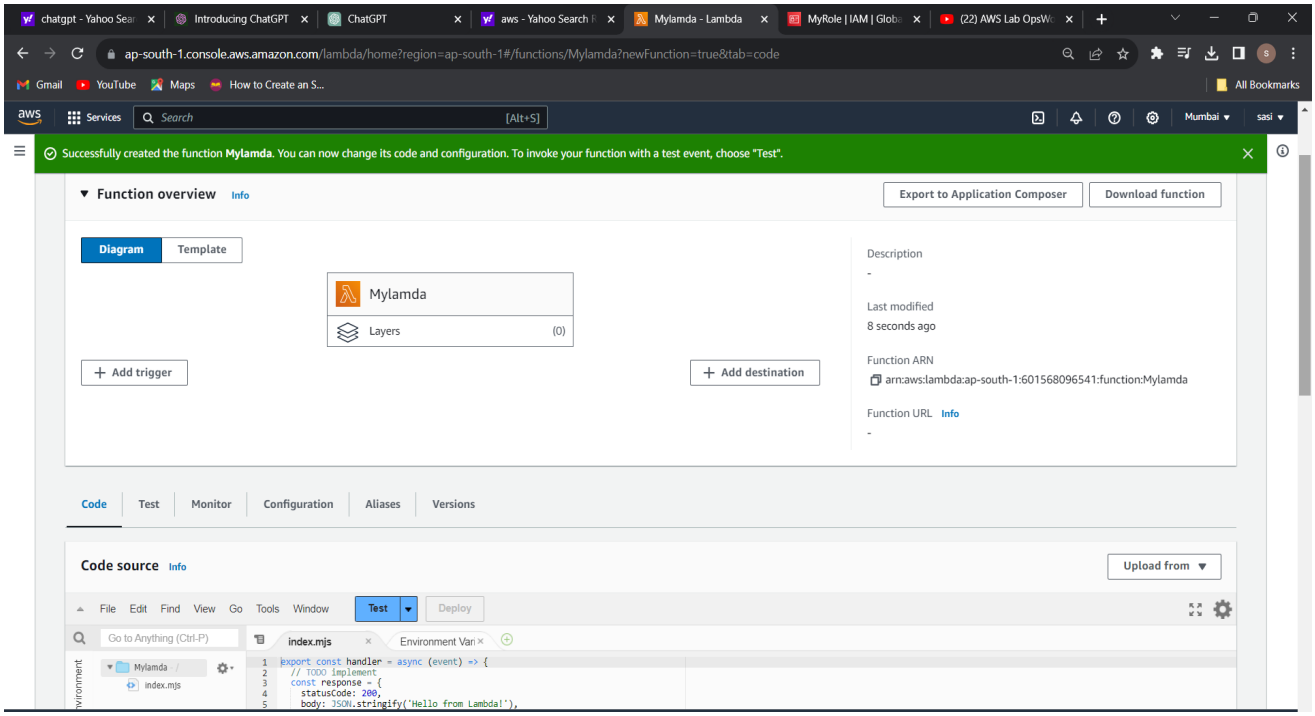
Tasks To Be Performed:

1. Create a sample Python Lambda function.
2. Set the Lambda Trigger as SQS and send a message to test invocations

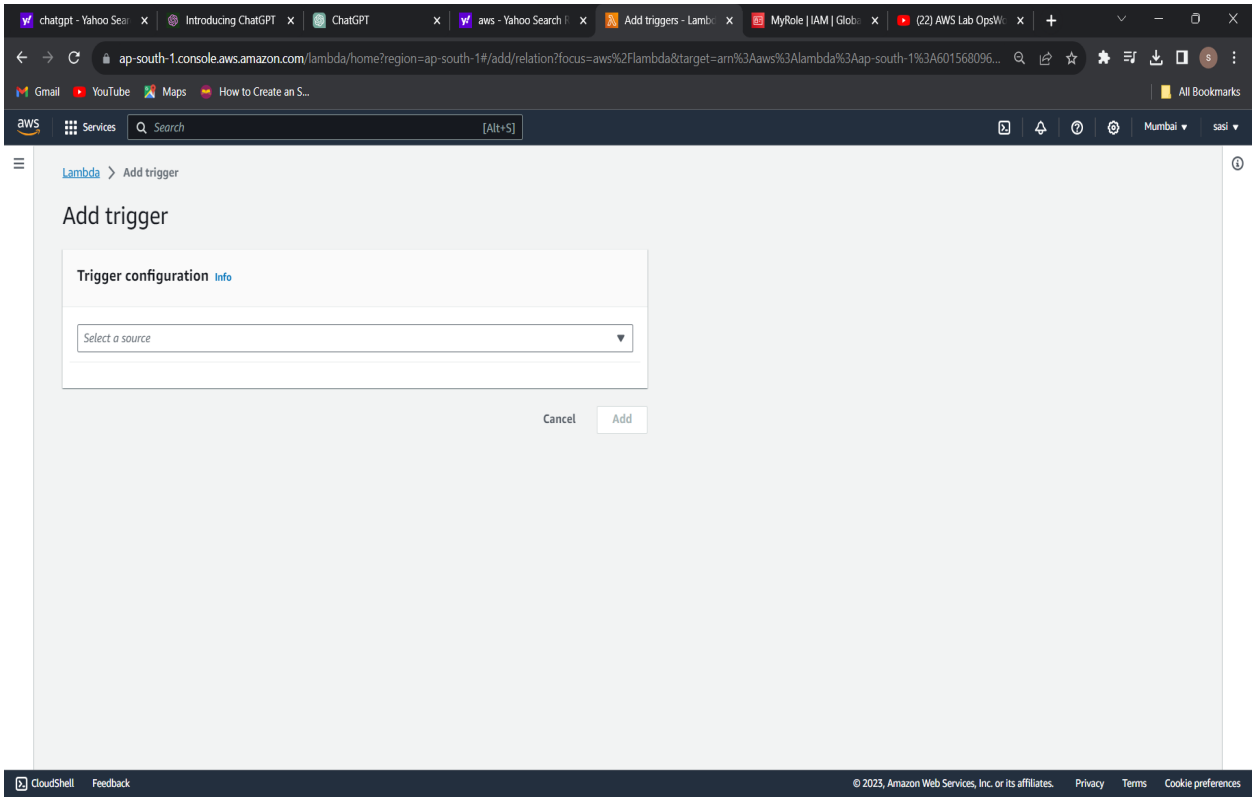
Go to AWS Console click on lambda

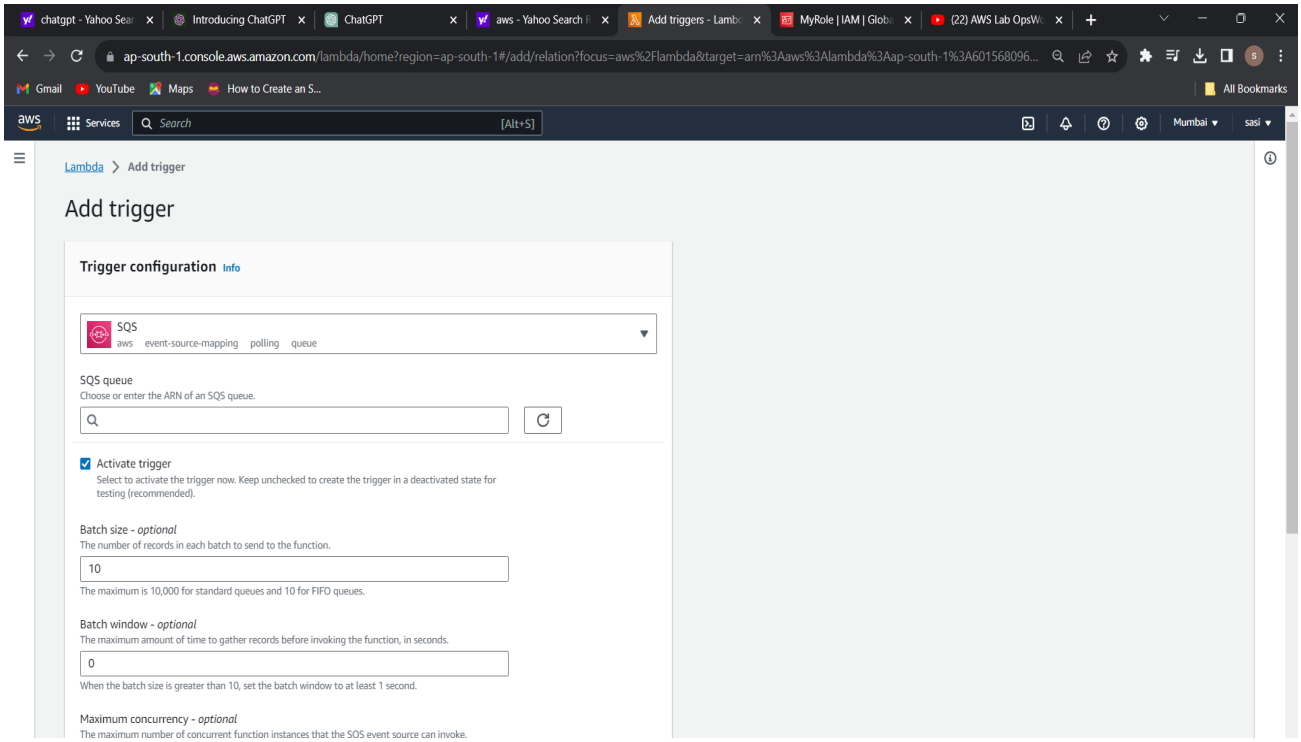
Create a function





Add Trigger in that add SQS

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ChatGPT
aws - Yahoo Search
Add triggers - Lambda
MyRole | IAM | Global
(22) AWS Lab OpsWo
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All Bookmarks
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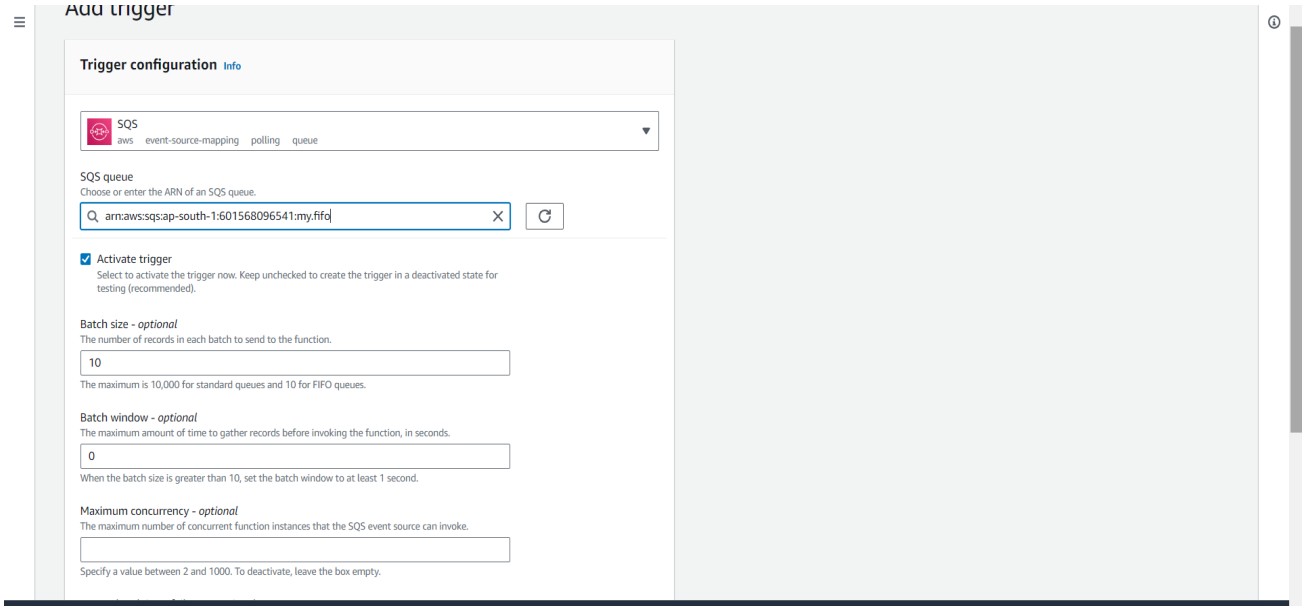
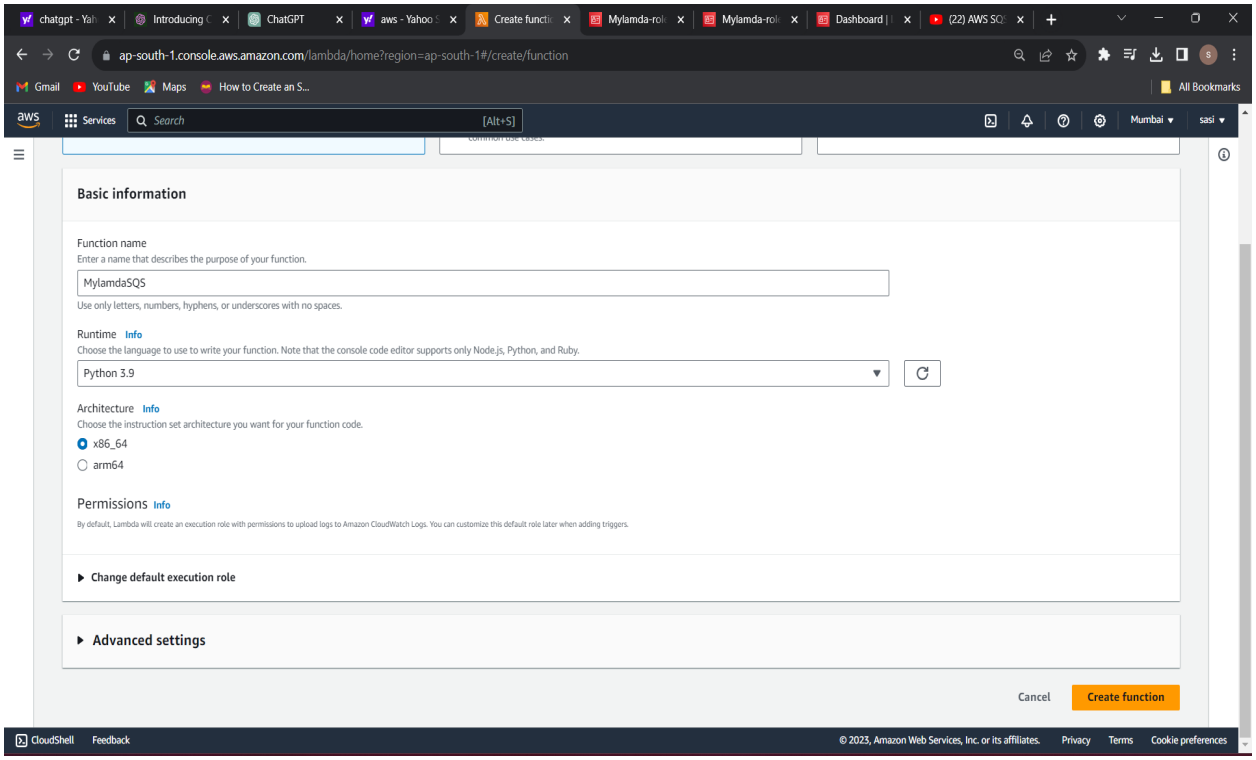
Mumbai
sasi
Lambda
Add trigger
Add trigger
Trigger configuration Info
SQS
aws event-source-mapping polling queue
SQS queue
Choose or enter the ARN of an SQS queue.
Activate trigger
Select to activate the trigger now. Keep unchecked to create the trigger in a deactivated state for testing (recommended).
Batch size - optional
The number of records in each batch to send to the function.
10
The maximum is 10,000 for standard queues and 10 for FIFO queues.
Batch window - optional
The maximum amount of time to gather records before invoking the function, in seconds.
0
When the batch size is greater than 10, set the batch window to at least 1 second.
Maximum concurrency - optional
The maximum number of concurrent function instances that the SQS event source can invoke.


Add trigger
Trigger configuration Info
SQS
aws event-source-mapping polling queue
SQS queue
Choose or enter the ARN of an SQS queue.
arn:aws:sqs:ap-south-1:601568096541:my.fifo
Activate trigger
Select to activate the trigger now. Keep unchecked to create the trigger in a deactivated state for testing (recommended).
Batch size - optional
The number of records in each batch to send to the function.
10
The maximum is 10,000 for standard queues and 10 for FIFO queues.
Batch window - optional
The maximum amount of time to gather records before invoking the function, in seconds.
0
When the batch size is greater than 10, set the batch window to at least 1 second.
Maximum concurrency - optional
The maximum number of concurrent function instances that the SQS event source can invoke.
Specify a value between 2 and 1000. To deactivate, leave the box empty.


ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/create/function
Gmail
YouTube
Maps
How to Create an S...
All Bookmarks
Services
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Mumbai
sasi
Basic information
Function name
Enter a name that describes the purpose of your function.
MylamdaSQS
Use only letters, numbers, hyphens, or underscores with no spaces.
Runtime Info
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.
Python 3.9
Architecture Info
Choose the instruction set architecture you want for your function code.
x86_64
arm64
Permissions Info
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.
Change default execution role
Advanced settings
Cancel
Create function
CloudShell
Feedback
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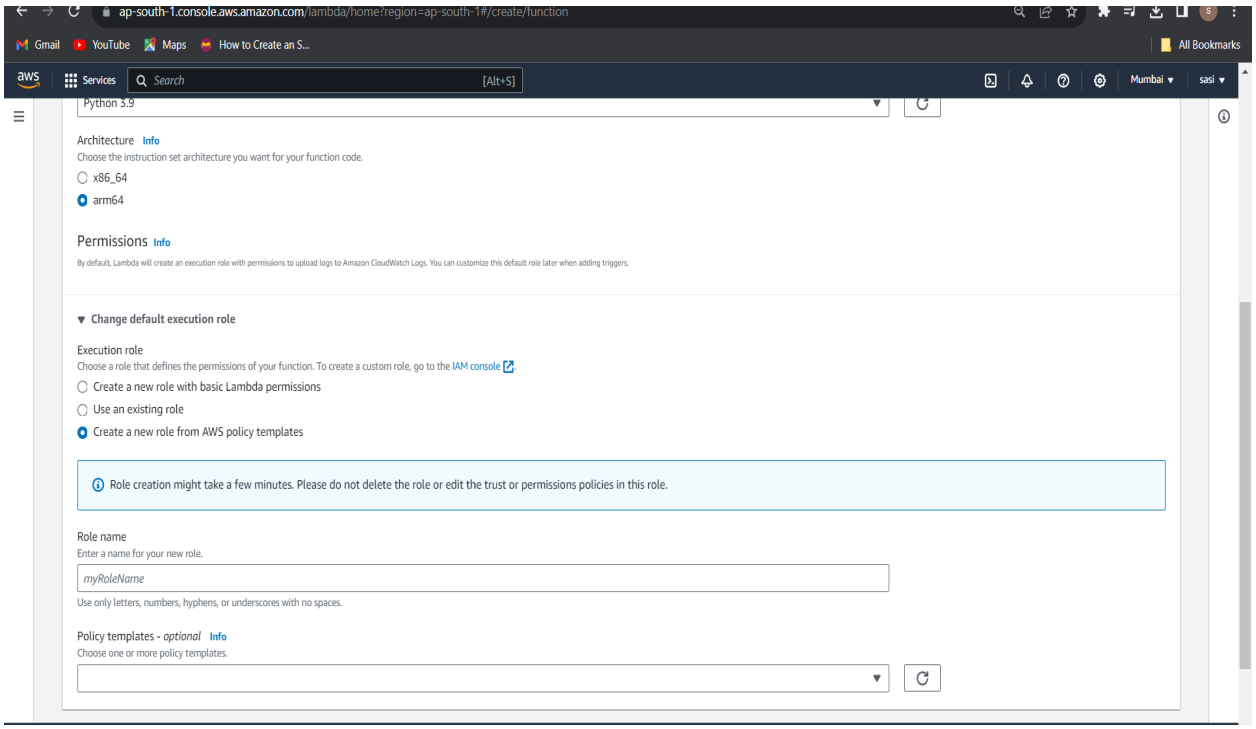
Privacy
Terms
Cookie preferences


ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/create/function
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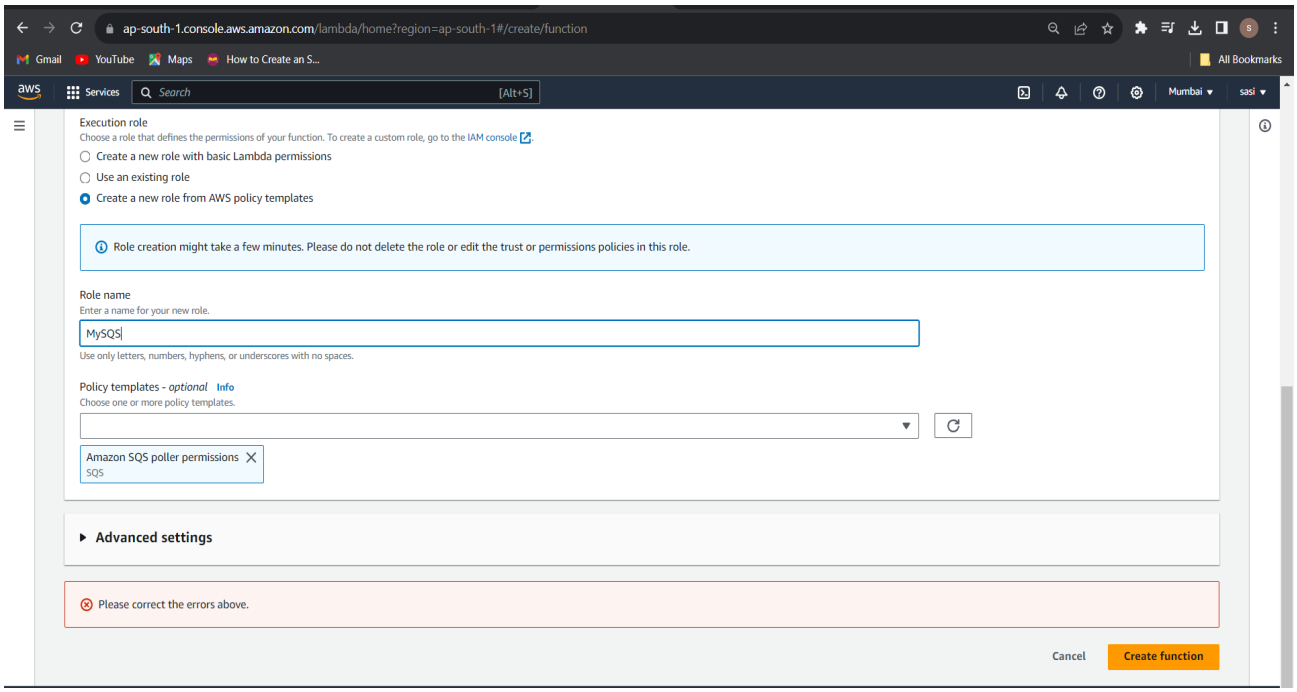
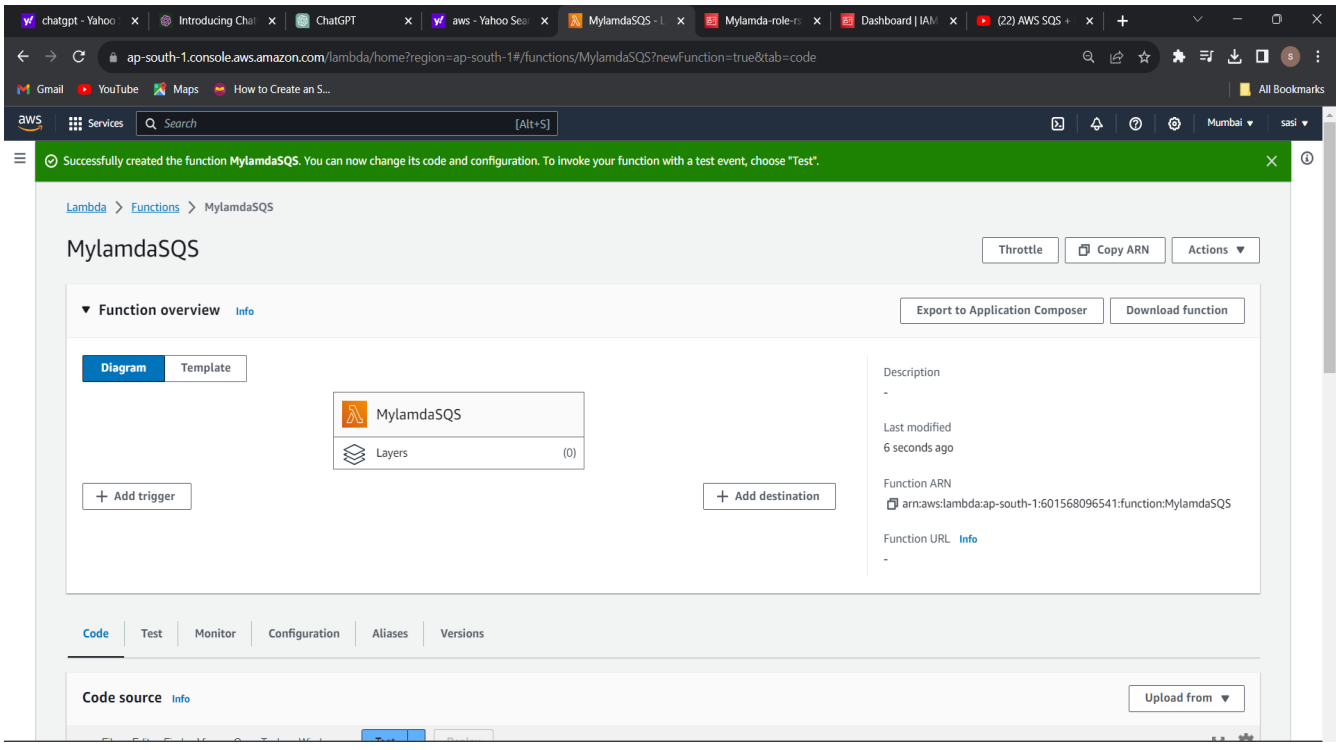
sasi
Python 3.9
Architecture Info
Choose the instruction set architecture you want for your function code.
x86_64
arm64
Permissions Info
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.
Change default execution role
Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console.
Create a new role with basic Lambda permissions
Use an existing role
Create a new role from AWS policy templates
Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions policies in this role.
Role name
Enter a name for your new role.
myRoleName
Use only letters, numbers, hyphens, or underscores with no spaces.
Policy templates - optional Info
Choose one or more policy templates.


ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/create/function
Gmail
YouTube
Maps
How to Create an S...
All Bookmarks
aws
Services
Search
[Alt+S]
Mumbai
sasi
Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console
Create a new role with basic Lambda permissions
Use an existing role
Create a new role from AWS policy templates
Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions policies in this role.
Role name
Enter a name for your new role.
MySQS
Use only letters, numbers, hyphens, or underscores with no spaces.
Policy templates - optional Info
Choose one or more policy templates.
Amazon SQS poller permissions
SQS
Advanced settings
Please correct the errors above.
Cancel
Create function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Introducing Cha
ChatGPT
aws - Yahoo Sea
MylamdaSQS - L
Mylamda-role-r
Dashboard | IAM
(22) AWS SQS
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/MylamdaSQS?newFunction=true&tab=code
Gmail
YouTube
Maps
How to Create an S...
All Bookmarks
aws
Services
Search
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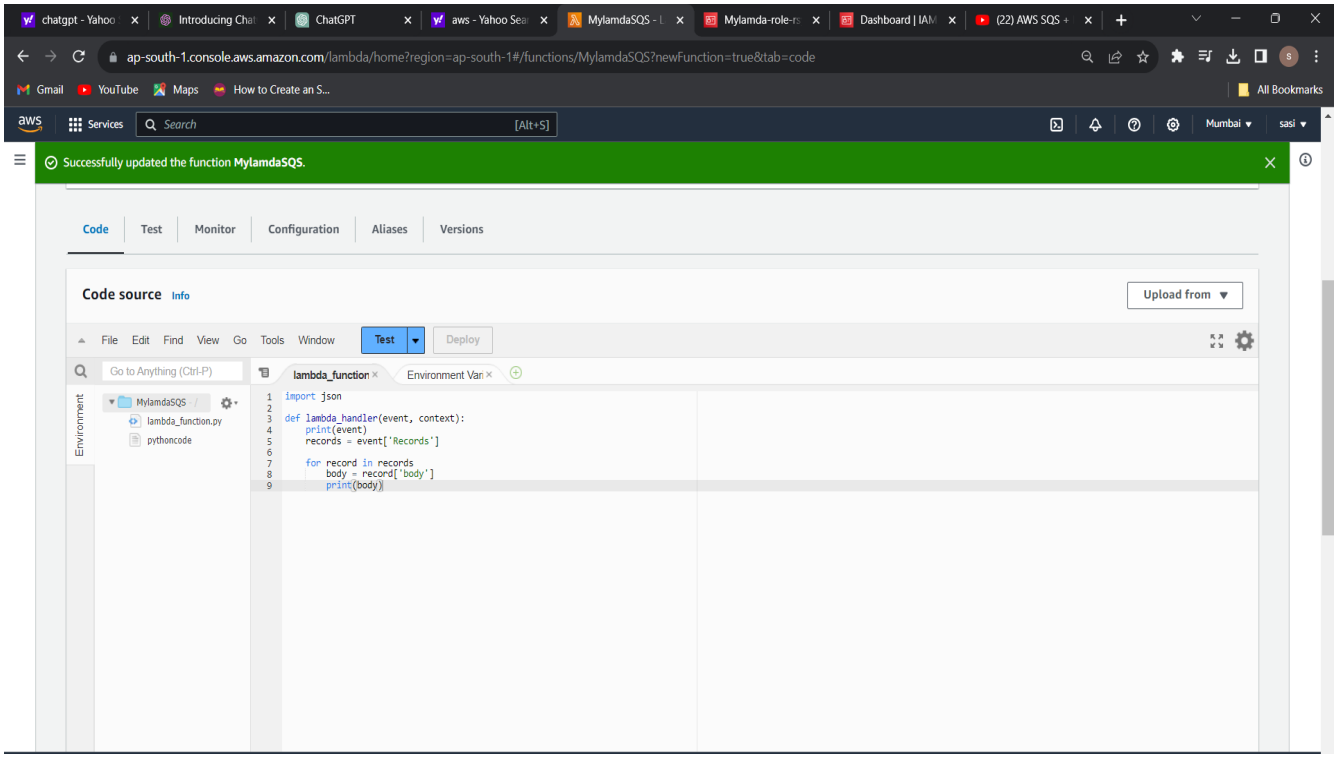
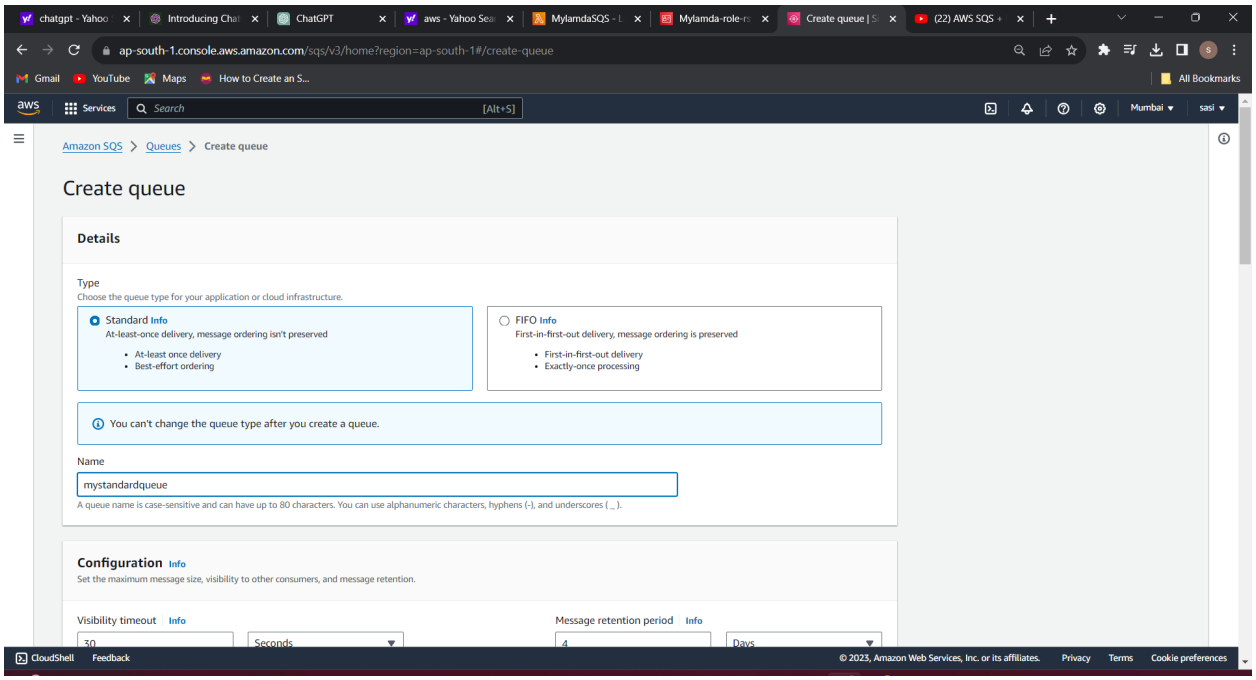
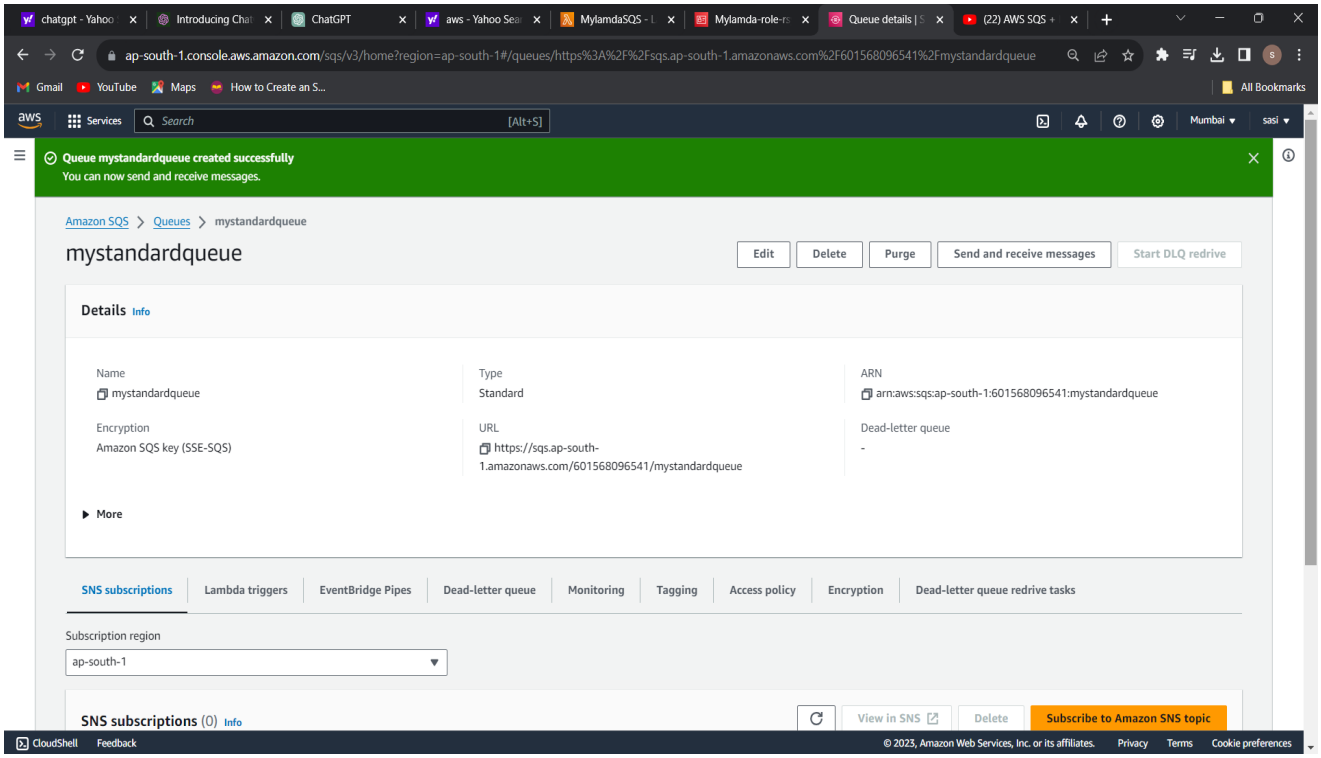
Mumbai
sasi
Successfully created the function MylamdaSQS. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
Lambda
Functions
MylamdaSQS
MylamdaSQS
Throttle
Copy ARN
Actions
Function overview Info
Export to Application Composer
Download function
Diagram
Template
MylamdaSQS
Layers
(0)
Add trigger
Add destination
Description
-
Last modified
6 seconds ago
Function ARN
arn:aws:lambda:ap-south-1:601568096541:function:MylamdaSQS
Function URL Info
-
Code
Test
Monitor
Configuration
Aliases
Versions
Code source Info
Upload from

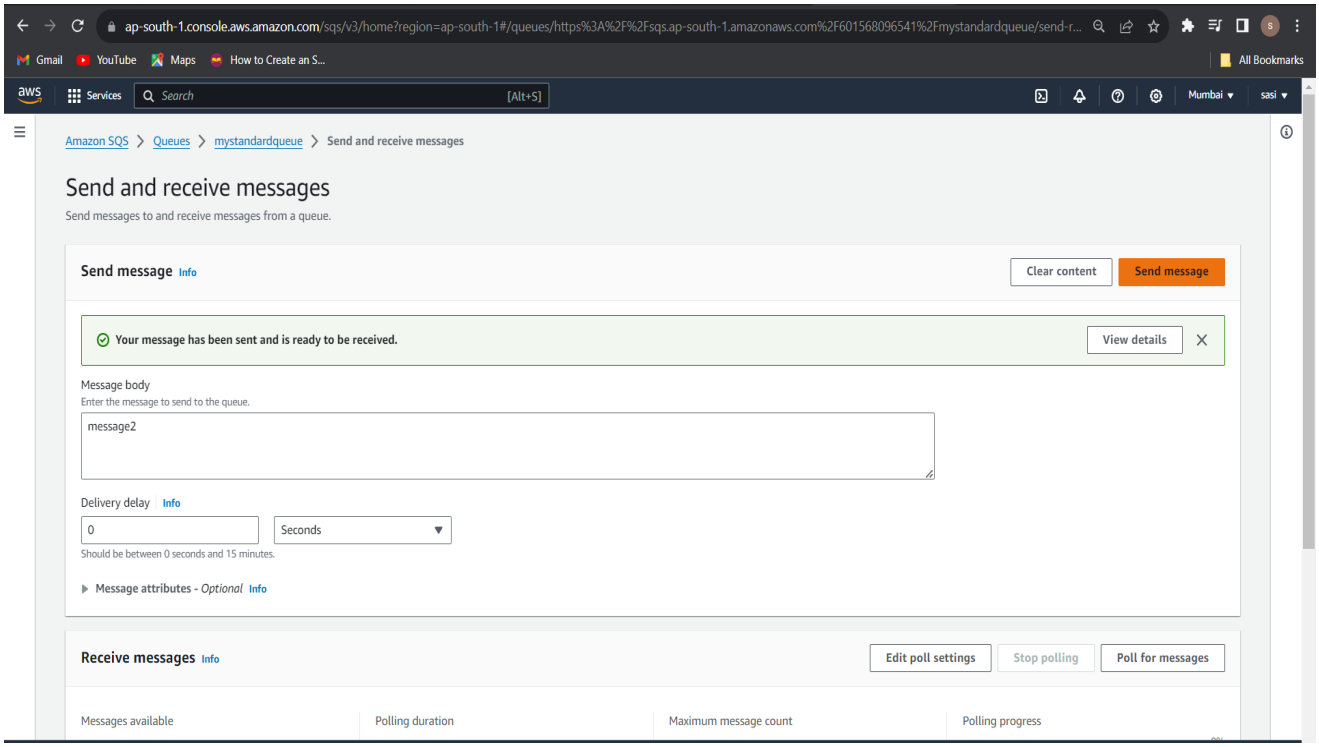


Create SQS

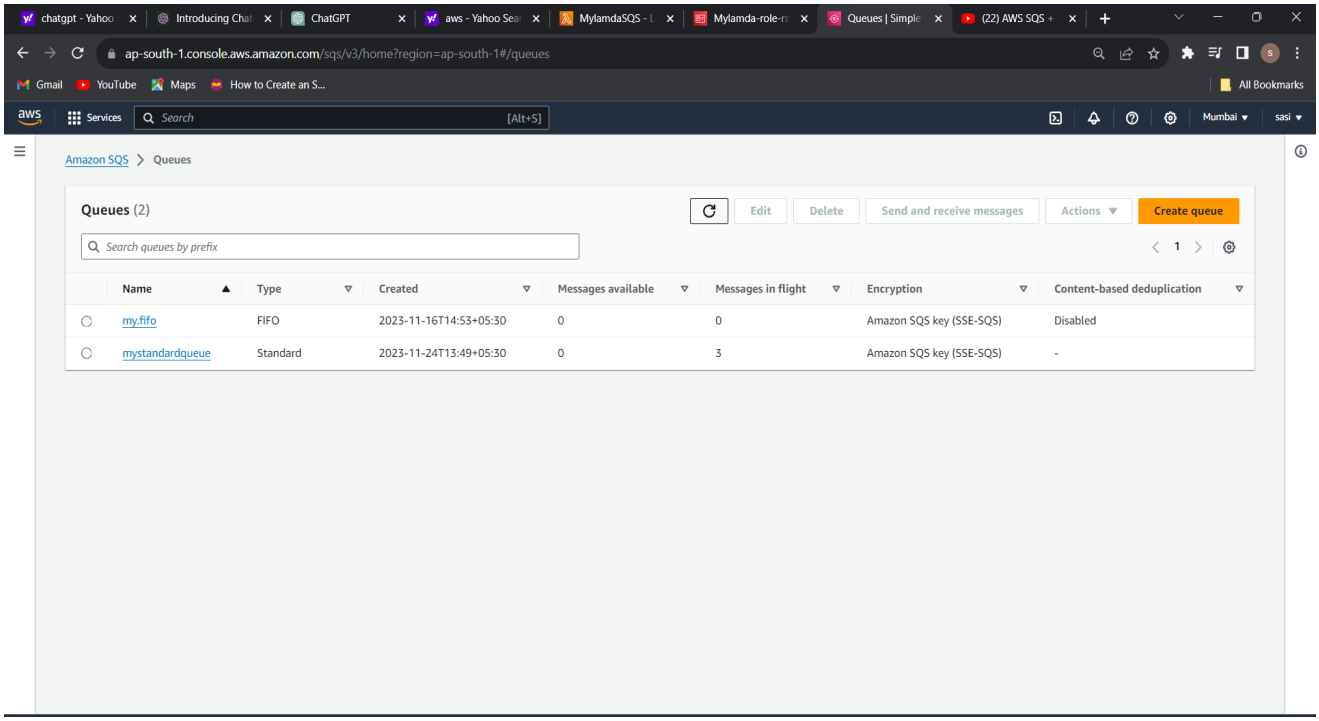


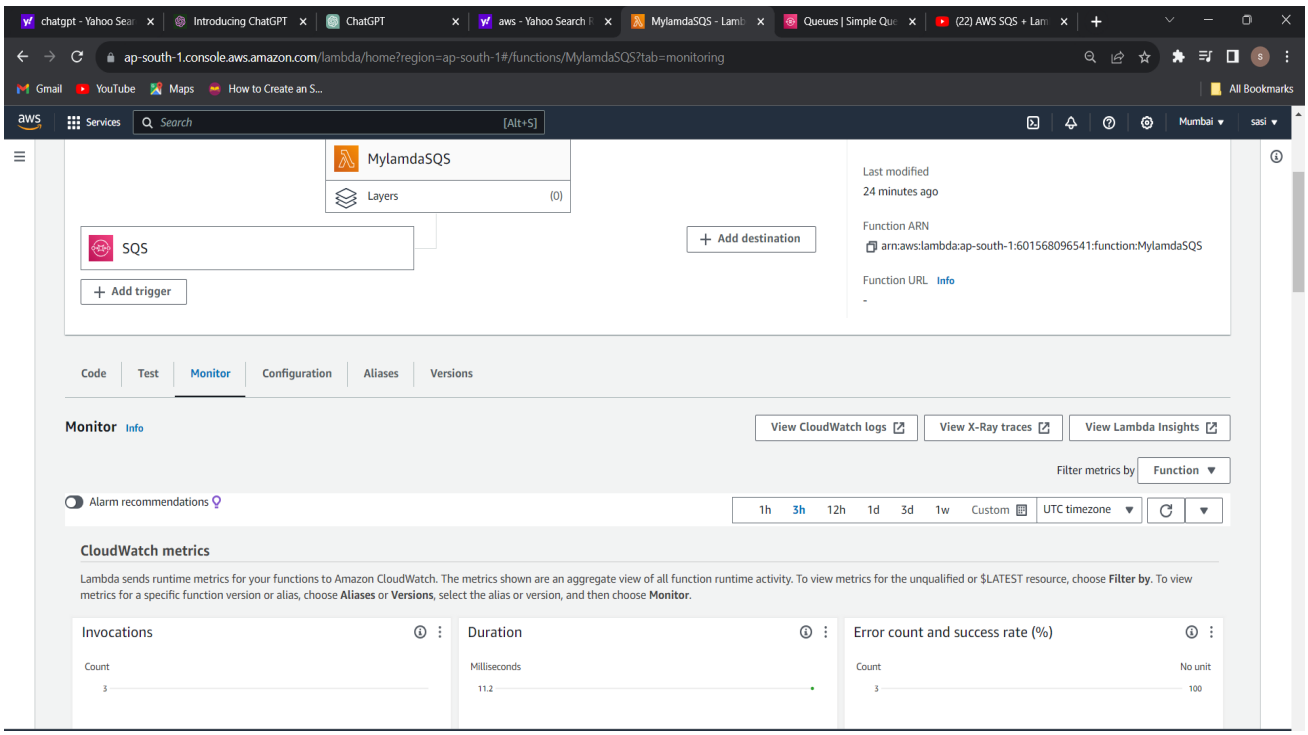
Create only standard



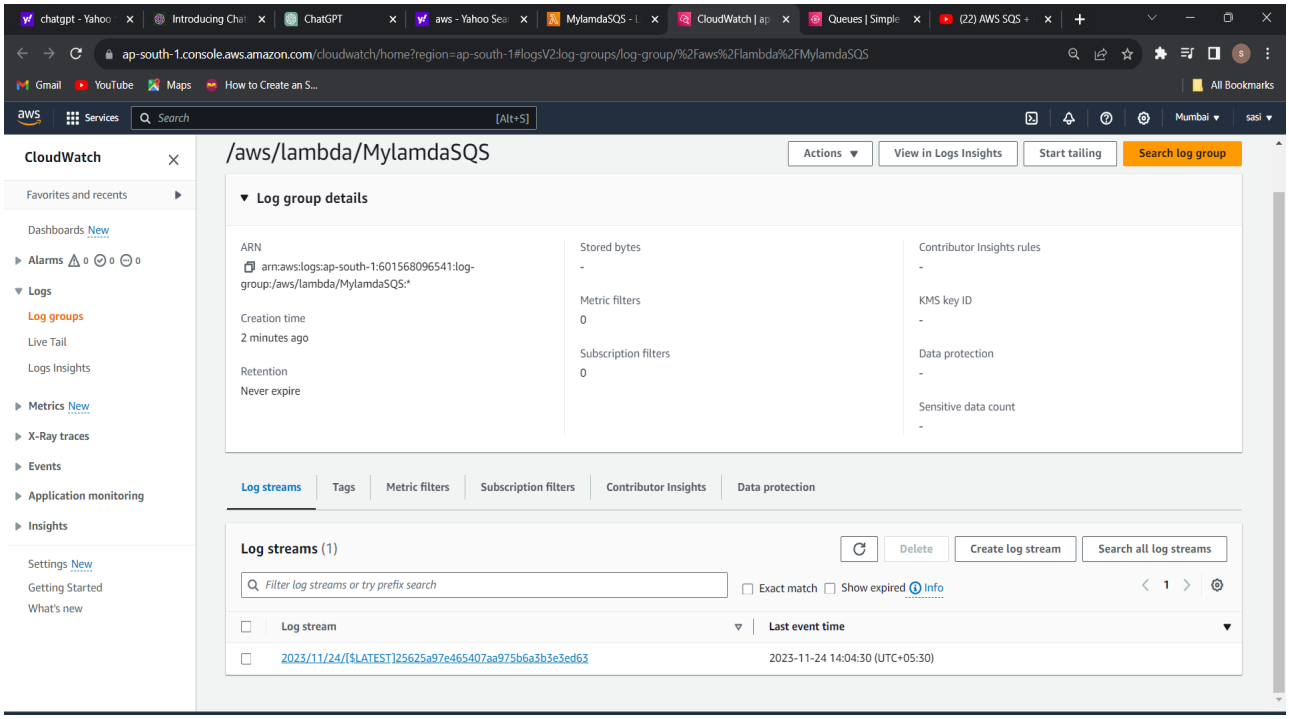


Click on send and receive messages.
Give message whatever you want





Monitor section click on view cloud watch logs.



Click on the file

You will get messagesdisplayed what you have given