

AWS LAMBDA FUNCTION ASSIGNMENT

RAJ KIRAN

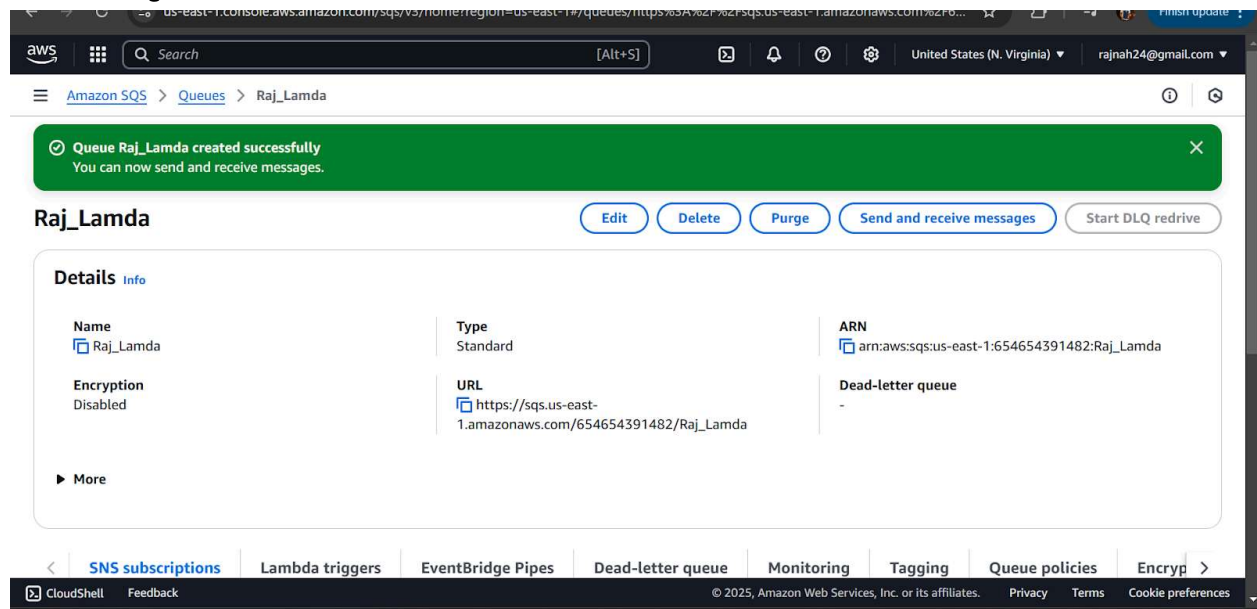
Problem Statement:

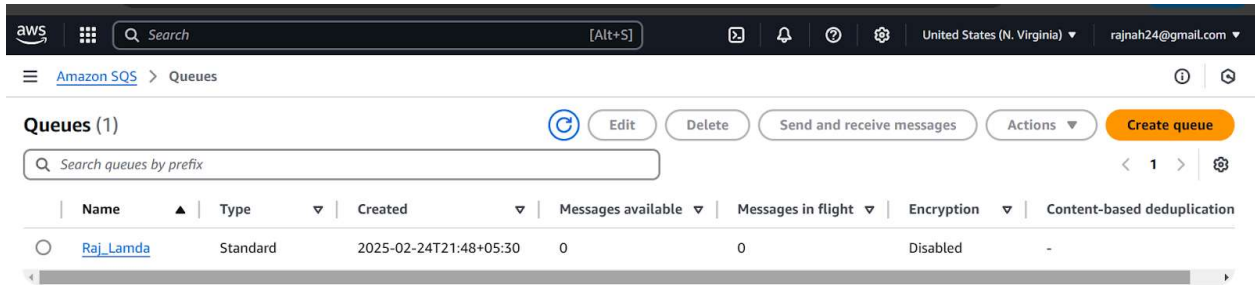
You work for XYZ Corporation. Your corporation wants to launch a new web-based application and they do not want their servers to be running all the time. It should also be managed by AWS. Implement suitable solutions.

Tasks To Be Performed:

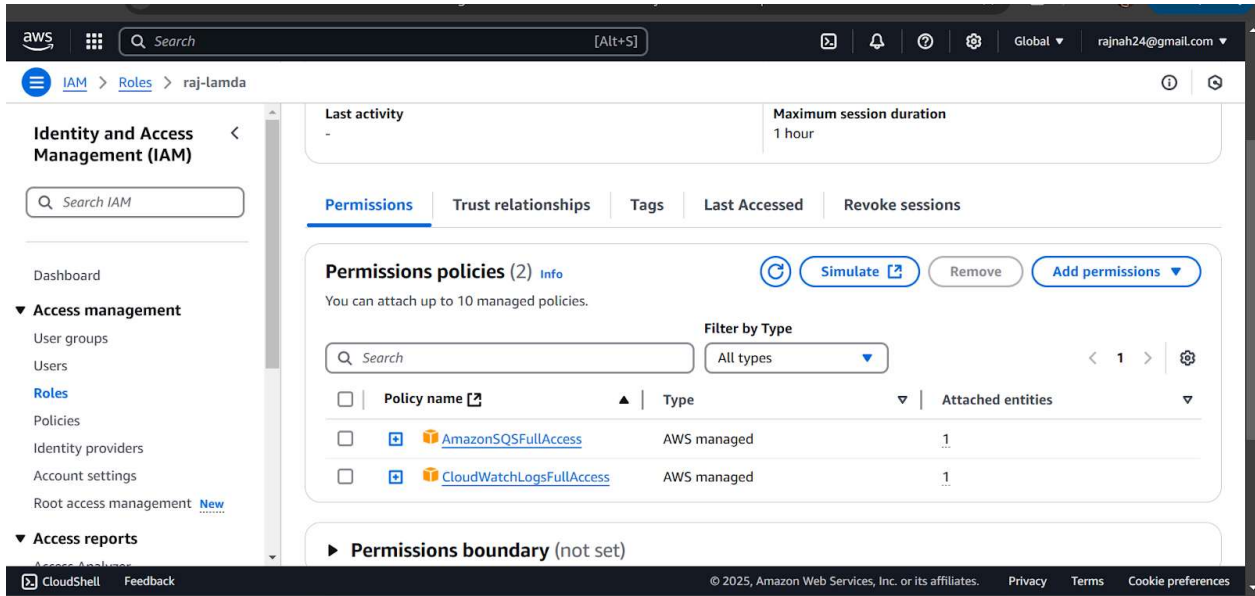
1. Create a sample Python Lambda function.
2. Set the Lambda Trigger as SQS and send a message to test the invocation.

A1. creating a SQS service :





AWS: IAM - Role configuration - adding the services Access : SQS / CloudwatchLog



LAMBDA

The screenshot shows the AWS Lambda console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and user information. Below the navigation bar, the breadcrumb trail shows 'Lambda > Functions > Raj-Lambda'. A green success message at the top states: 'Successfully created the function Raj-Lambda. You can now change its code and configuration. To invoke your function with a test event, choose "Test".' Below this, the 'Raj-Lambda' function overview is displayed. It includes tabs for 'Diagram' and 'Template', a 'Layers' section with '(0)' layers, and buttons for '+ Add trigger' and '+ Add destination'. On the right, there's a 'Description' section with fields for 'Last modified' (1 second ago), 'Function ARN' (arn:aws:lambda:us-east-1:654654391482:function:Raj-Lambda), and 'Function URL'. At the bottom, there's a footer with 'CloudShell', 'Feedback', and copyright information.

aws [Search] [Alt+S] United States (N. Virginia) rajnah24@gmail.com

Lambda > Functions > Raj-Lambda

Successfully created the function **Raj-Lambda**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

Raj-Lambda

Throttle Copy ARN Actions

Function overview Info

Export to Infrastructure Composer Download

Diagram Template

Raj-Lambda

Layers (0)

+ Add trigger + Add destination

Description

Last modified
1 second ago

Function ARN
arn:aws:lambda:us-east-1:654654391482:function:Raj-Lambda

Function URL Info

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CREATING A TRIGGER:

The screenshot shows the 'Add trigger' configuration page in the AWS Lambda console. The breadcrumb trail is 'Lambda > Add triggers'. The 'Trigger configuration' section shows 'SQS' as the trigger type. Below this, the 'SQS queue' section has a text input field containing the ARN 'arn:aws:sqs:us-east-1:654654391482:Raj_Lambda'. The 'Event source mapping configuration' section has two checkboxes: 'Activate trigger' (checked) and 'Enable metrics' (unchecked). The footer is the same as the previous screenshot.

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Lambda > Add triggers

Add trigger

Trigger configuration Info

SQS
aws event-source-mapping polling queue

SQS queue
Choose or enter the ARN of an SQS queue.

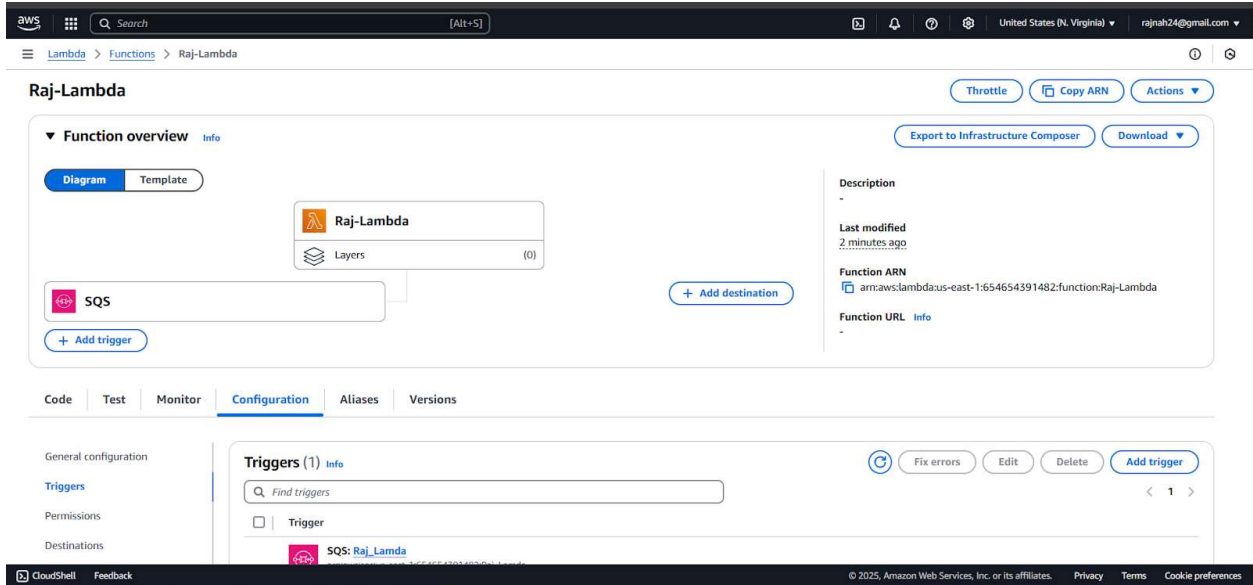
arn:aws:sqs:us-east-1:654654391482:Raj_Lambda

Event source mapping configuration

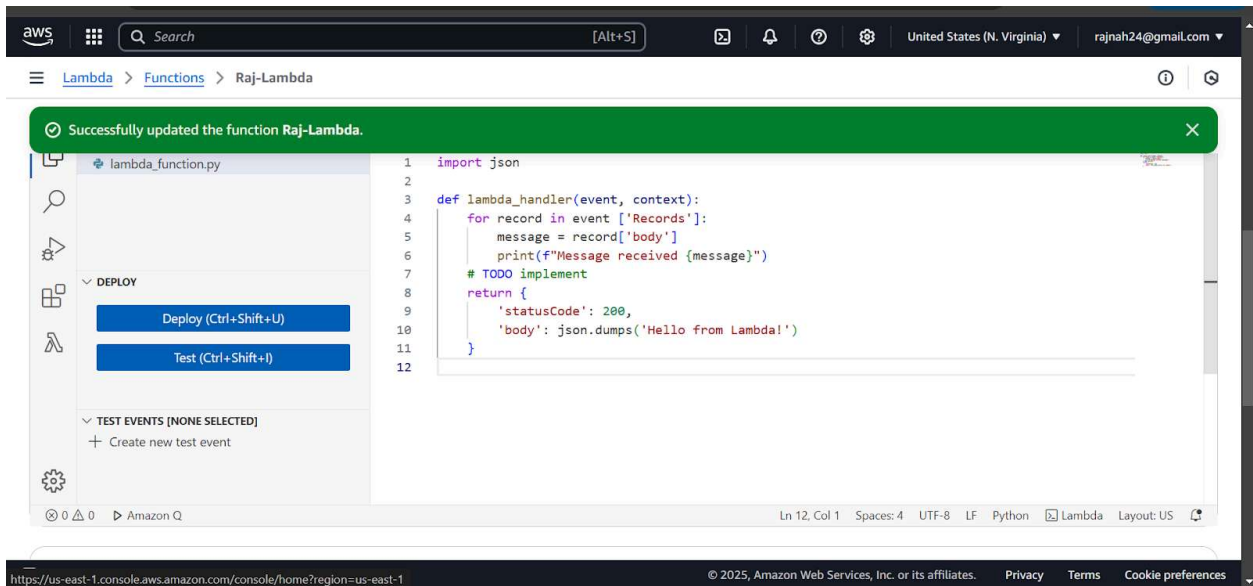
☒ **Activate trigger**
Select to activate the trigger now. Keep unchecked to create the trigger in a deactivated state for testing (recommended).

☐ **Enable metrics**
Monitor your event source with metrics. You can view those metrics in CloudWatch console. Enabling this feature incurs additional costs.
[Learn more](#)

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CODE DEPLOYMENT:



CLOUDWATCH: SQS RESPONSE : MONITORING

The screenshot shows the AWS CloudWatch console. The left sidebar contains navigation links for CloudWatch, Log groups, and various AWS services. The main content area displays the 'Log events' for a specific Lambda function. The log events are listed in a table with columns for 'Timestamp' and 'Message'. The messages show the function's initialization, receiving a message, processing it, and reporting the duration. The interface includes search filters, a 'Start tailing' button, and a 'Display' button.

CloudWatch > **Log groups** > **/aws/lambda/Raj-Lambda** > **2025/02/24/[\$LATEST]019a1c96bb524498b3d031f2c55e81e4**

Log events

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](#)

1m **1h** **UTC timezone** **Display**

Timestamp	Message
No older events at this moment. Retry	
2025-02-24T16:49:06.012Z	INIT_START Runtime Version: python:3.13.v13 Runtime Version ARN: arn:aws:lambda:us-east-1:runt...
2025-02-24T16:49:06.100Z	START RequestId: 1f899971-8513-5761-b92f-f9472022d2a8 Version: \$LATEST
2025-02-24T16:49:06.101Z	Message received HI THIS IS THE LAMBDA FUNCTION
2025-02-24T16:49:06.101Z	Processing message HI THIS IS THE LAMBDA FUNCTION
2025-02-24T16:49:06.102Z	END RequestId: 1f899971-8513-5761-b92f-f9472022d2a8
2025-02-24T16:49:06.103Z	REPORT RequestId: 1f899971-8513-5761-b92f-f9472022d2a8 Duration: 1.92 ms Billed Duration: 2 ms ...
No newer events at this moment. Auto retry paused . Resume	

SQS : SEND RECEIVE MSG

The screenshot shows the AWS SQS console. The left sidebar contains navigation links for Amazon SQS, Queues, and various AWS services. The main content area displays the 'Send and receive messages' section for a specific queue. The 'Send message' section includes a text input for the message body, a 'Delivery delay' dropdown, and a 'Send message' button. The 'Receive messages' section includes a 'Poll for messages' button and a table for received messages.

Amazon SQS > **Queues** > **Raj_Lambda** > **Send and receive messages**

Send message [Info](#) **Clear content** **Send message**

☒ Your message has been sent and is ready to be received. [View details](#)

Message body
Enter the message to send to the queue.

Delivery delay [Info](#)
 Seconds

Should be between 0 seconds and 15 minutes.

Message attributes - *Optional* [Info](#)

Receive messages [Info](#) [Edit poll settings](#) [Stop polling](#) [Poll for messages](#)

Messages available	Polling duration	Maximum message count	Polling progress
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ELASTIC BEANSTALK

at AWS Solutions Architect Training 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:

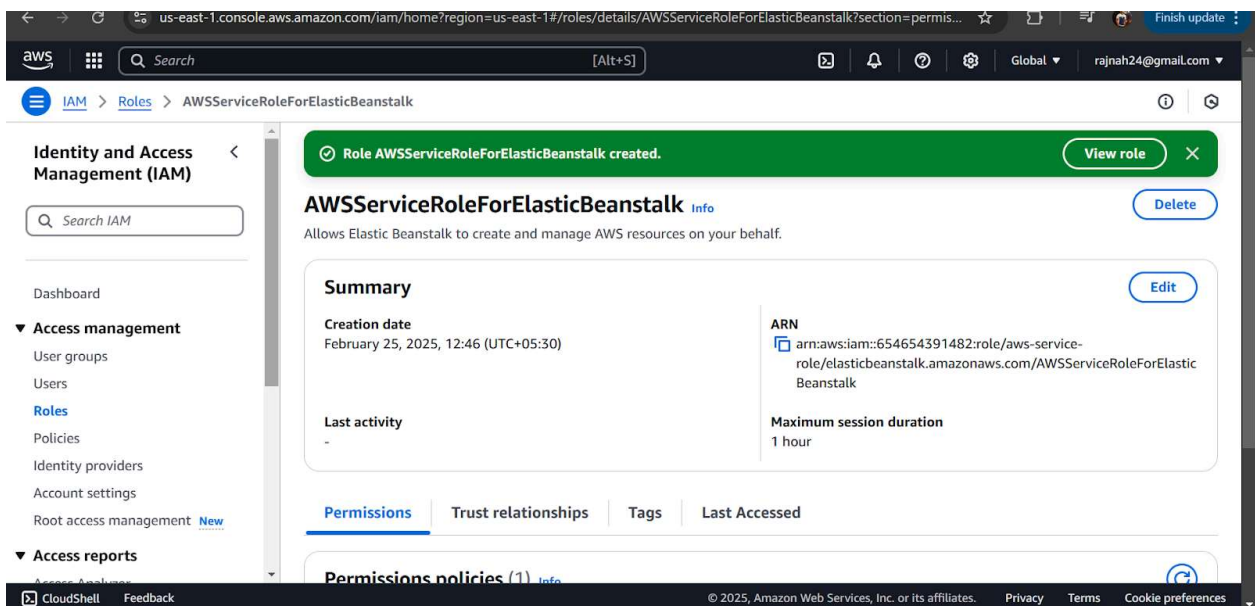
1. Create an Elastic Beanstalk environment with the runtime as PHP.
2. Upload a simple PHP file to the environment.

PHP FILE:

```
ph.php
File Edit View

<!DOCTYPE html>
<html>
<body>
<h1>hello world</h1>
<?php
echo "hello RAJ";
?>
</body>
</html>
```

CREATING A ROLE FOR ELASTIC BEANSTACK / EC2



AWSServiceRoleForElasticBeanstalk

