

Assignment 1

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

The screenshot shows the AWS Lambda console. The top navigation bar includes 'Lambda', 'Functions', and 'mypylambda'. The main area displays the 'Function overview' for 'mypylambda'. A diagram shows the function's architecture: 'mypylambda' (represented by a Lambda icon) triggers an 'SQS' (represented by a queue icon). Below the diagram, there are buttons for '+ Add destination' and '+ Add trigger'. On the right side, there are sections for 'Description', 'Last modified' (13 minutes ago), 'Function ARN' (arn:aws:lambda:us-east-1:416946765337:function:mypylambda), and 'Function URL' (Info). Below the overview, tabs for 'Code', 'Test', 'Monitor', 'Configuration' (which is selected), 'Aliases', and 'Versions' are visible. The 'Configuration' section shows the 'Execution role' set to 'mypylambda-role-7tuav2zc'.

The screenshot shows the AWS Amazon SQS console. The top navigation bar includes 'Amazon SQS' and 'Queues'. The main area displays the 'Queues (1)' list. A single queue, 'MyAppQueue', is listed. The table columns include 'Name', 'Type', 'Created', 'Messages available', 'Messages in flight', 'Encryption', and 'Content-based deduplication'. The 'MyAppQueue' row shows it is a Standard queue created on 2026-02-14T15:14:05Z, with 0 messages available and 0 messages in flight. The encryption column shows 'Amazon SQS key (SSE-SQS)'. At the bottom right of the table, there is a 'Create queue' button.

Send and receive messages

Use this page to send, retrieve and view messages, helping you experiment with various queue features.

Send message Info

Your message has been sent and is ready to be received.

Message body
Enter the message to send to the queue.
`Welcome Home`

Message group ID - optional, new Info
A group identifier for the message to allow fair processing across message groups in a standard queue.

Delivery delay Info
The duration (in seconds) that SQS will postpone the initial delivery of the message. During this delay period, the message is not visible to consumers, allowing you to create a wait time before the message becomes available for processing.

0 Seconds

Should be between 0 seconds and 15 minutes.

Message attributes - optional Info

Clear content **Send message**

Severity	Details (APM)	Monitoring
Now		<ul style="list-style-type: none">2026-02-14T15:29:57.938+05:30 [ERROR] KeyError: 'Records' Traceback (most recent call last): File "/var/task/lambda_function.py", line 5, in lambda_handler for record in event['Records']: END RequestId: 9f8013a9-81d9-4369-9d89-91df14af1c822026-02-14T15:29:57.941+05:30 REPORT RequestId: 9f8013a9-81d9-4369-9d89-91df14af1c82 Duration: 1.85 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memory Used: 40 MB2026-02-14T15:30:13.168+05:30 START RequestId: 570f736d-b355-51fe-4ff4-1167fab7256b Version: \$LATEST2026-02-14T15:30:13.168+05:30 Received SQS message: Welcome Home2026-02-14T15:30:13.168+05:30 [ERROR] JSONDecodeError: Expecting value: line 1 column 1 (char 0) Traceback (most recent call last): File "/var/task/lambda_function.py", line 18, in lambda_handler me_

Assignment 2

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 once created.

Elastic Beanstalk is updating your environment. To cancel this operation select Abort Current Operation from the Actions dropdown.

Time	Type	Details
February 15, 2026 16:21:57 (UTC+5:30)	INFO	Deploying new version to instance(s).
February 15, 2026 16:21:39 (UTC+5:30)	INFO	Updating environment XYZWebApp-env's configuration settings.
February 15, 2026 16:21:31 (UTC+5:30)	INFO	Environment update is starting.
February 15, 2026 16:13:12 (UTC+5:30)	INFO	Environment health has transitioned from Info to Ok. Application update completed 47 seconds ago and took 49 seconds.
February 15, 2026 16:12:24 (UTC+5:30)	INFO	Pulled logs for environment instances.
February 15, 2026 16:12:19 (UTC+5:30)	INFO	Instance deployment completed successfully.

xyzwebapp-env.eba-pbym5xf2.us-east-1.elasticbeanstalk.com

Hello, Elastic Beanstalk is working!