



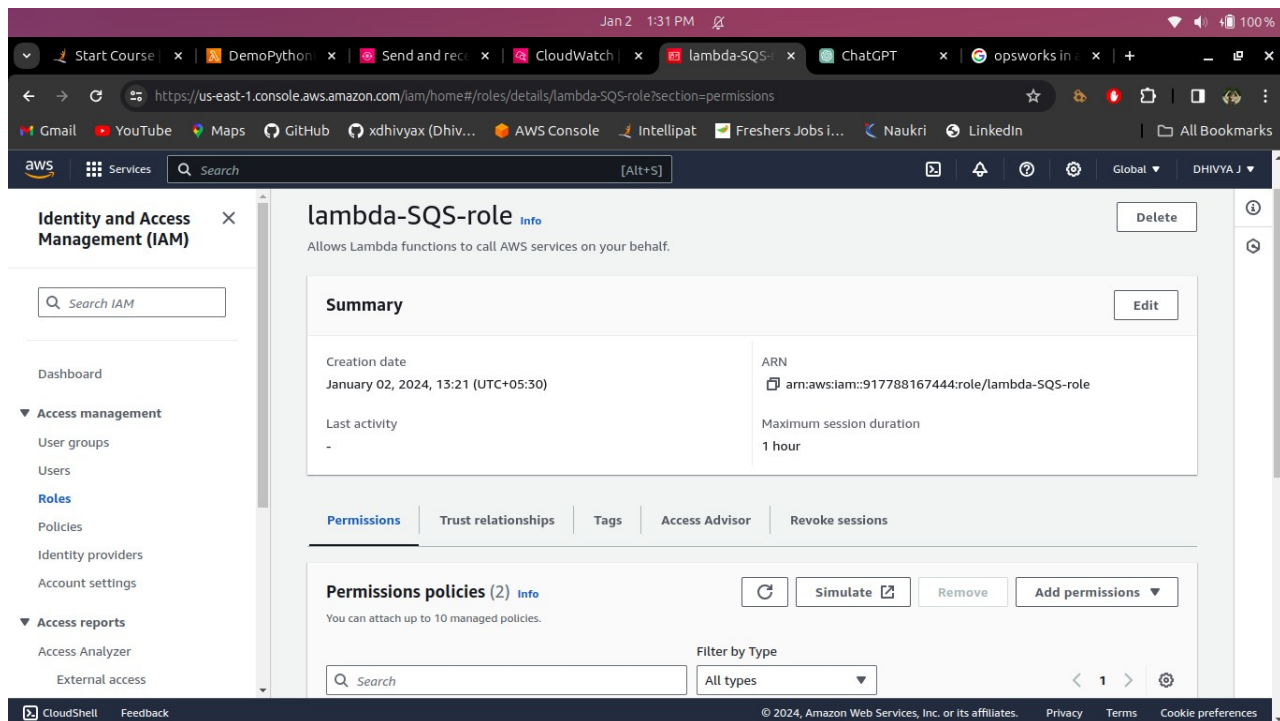
Module 9: Lambda Assignment

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.



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https://us-east-1.console.aws.amazon.com/iam/home#/roles/details/lambda-SQS-role?section=permissions

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Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles**
- Policies
- Identity providers
- Account settings

Access reports

- Access Analyzer
- External access

Permissions Trust relationships Tags Access Advisor Revoke sessions

Permissions policies (2) Info

You can attach up to 10 managed policies.

Filter by Type

Search All types < 1 > ⚙

<input type="checkbox"/>	Policy name	Type	Attached e...
<input type="checkbox"/>	AmazonSQSFullAccess	AWS managed	1
<input type="checkbox"/>	AWSLambdaBasicExecutionRole	AWS managed	1

Permissions boundary (not set)

Generate policy based on CloudTrail events

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https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function

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☒ Author from scratch
Start with a simple Hello World example.

☐ Use a blueprint
Build a Lambda application from sample code and configuration presets for common use cases.

☐ Container image
Select a container image to deploy for your function.

Basic information

Function name
Enter a name that describes the purpose of your function.

DemoPythonFunction

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 3.12

Architecture Info
Choose the instruction set architecture you want for your function code.

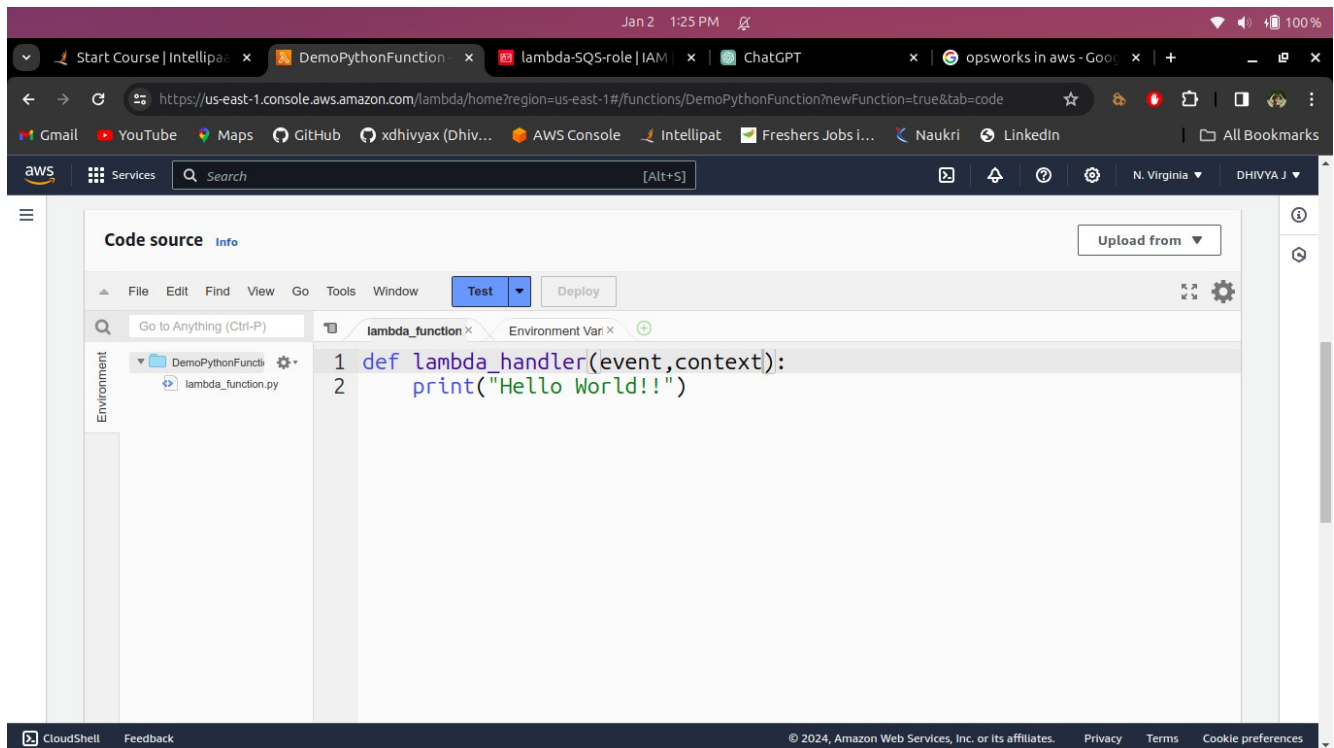
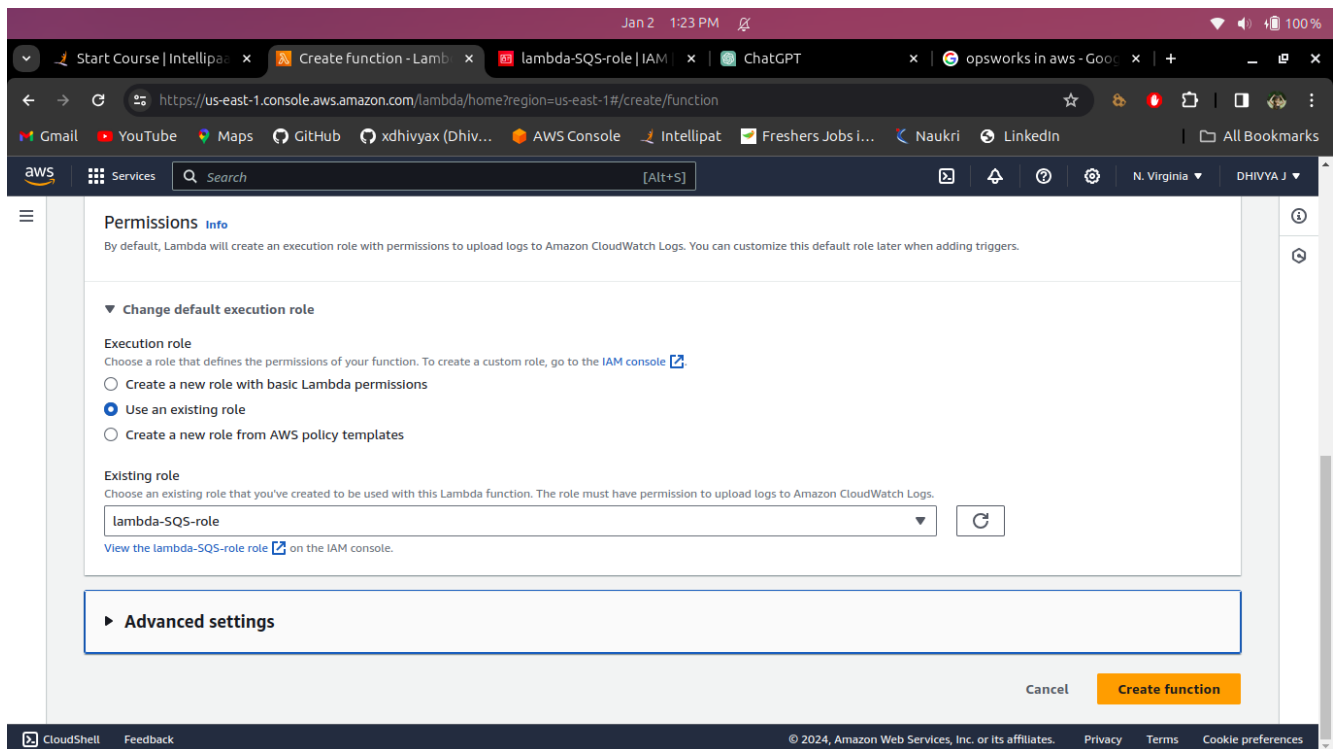
☒ x86_64

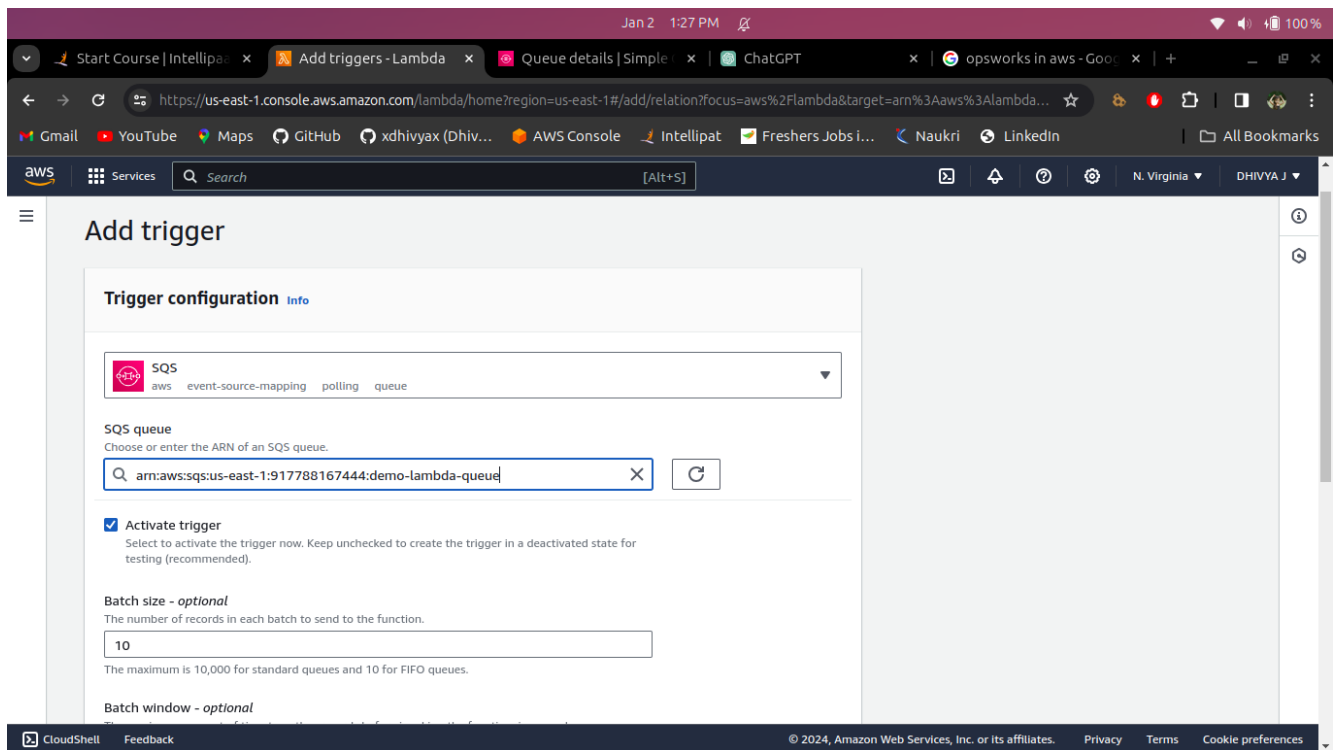
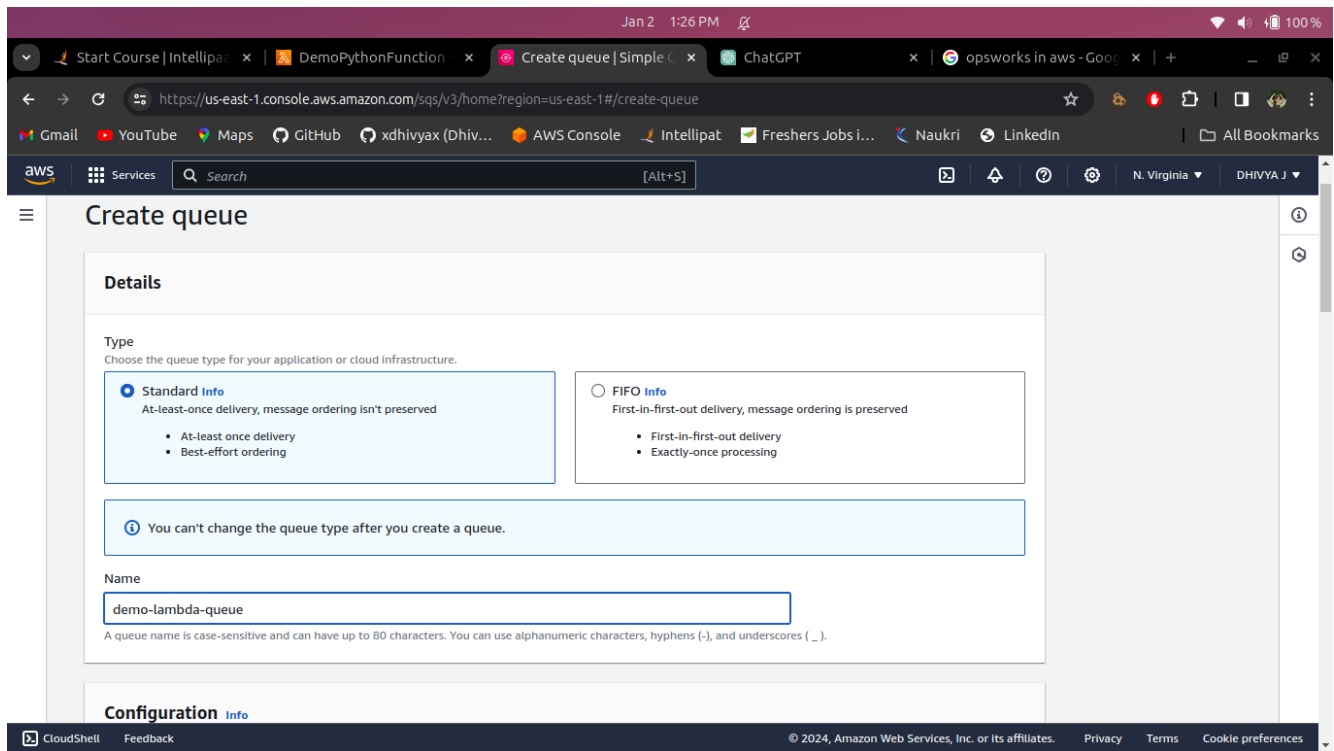
☐ arm64

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

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Amazon SQS > Queues > demo-lambda-queue > Send and receive messages

Send and receive messages

Send messages to and receive messages from a queue.

Send message Info

Clear content Send message

Message body

Enter the message to send to the queue.

Hello

Delivery delay Info

0 Seconds

Should be between 0 seconds and 15 minutes.

► Message attributes - Optional Info

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Amazon SQS > Queues > demo-lambda-queue > Send and receive messages

Send and receive messages

Send messages to and receive messages from a queue.

Send message Info

Clear content Send message

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

View details X

Message body

Enter the message to send to the queue.

Hello

Delivery delay Info

0 Seconds

Should be between 0 seconds and 15 minutes.

► Message attributes - Optional Info

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https://us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#logsV2:log-groups/log-group/%2Faws%2Flambda%2FDemo...

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CloudWatch

Favorites and recents

- Dashboards
- Alarms
- Logs
 - Log groups
 - Log Anomalies
 - Live Tail
 - Logs Insights
- Metrics
 - All metrics
 - Explorer
 - Streams
- X-Ray traces
- Events
- Application Signals
- Network monitoring
- Infrastructure Monitoring
- Settings

Log group details

Log class - new Info

Standard

ARN
arn:aws:logs:us-east-1:917788167444:log-group:/aws/lambda/DemoPythonFunction:

Creation time
Now

Retention
Never expire

Stored bytes
-

Metric filters
0

Subscription filters
0

Contributor Insights rules
-

KMS key ID
-

Anomaly detection
Configure

Data protection
-

Sensitive data count
-

Log streams (1)

Filter log streams or try prefix search

Exact match Show expired Info

Log stream	Last event time
2024/01/02/[\$LATEST]953b600ad0e84572aa8266e99c871339	2024-01-02 13:43:11 (UTC+05:30)

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https://us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#logsV2:log-groups/log-group/%2Faws%2Flambda%2FDemo...

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- Events

CloudWatch > Log groups > /aws/lambda/DemoPythonFunction > 2024/01/02/[\$LATEST]953b600ad0e84572aa8266e99c871339

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](#)

Filter events

Clear 1m 30m 1h 12h Local timezone Display

Timestamp	Message
No more records within selected time range Retry	
2024-01-02T13:43:11.459+05:30	INIT_START Runtime Version: python:3.12.v16 Runtime Version ARN: arn:aws:lambda:us-east-1:ru...
2024-01-02T13:43:11.537+05:30	START RequestId: e6276960-0319-5799-a3c7-376dc4d60fa9 Version: \$LATEST
2024-01-02T13:43:11.537+05:30	Hello World!!
2024-01-02T13:43:11.539+05:30	END RequestId: e6276960-0319-5799-a3c7-376dc4d60fa9
2024-01-02T13:43:11.539+05:30	REPORT RequestId: e6276960-0319-5799-a3c7-376dc4d60fa9 Duration: 2.27 ms Billed Duration: 3 m...
No more records within selected time range Auto retry paused. Resume	

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