

LAB ASSIGNMENTS 5: AWS Lambda

What is AWS Lambda?

lets you run code without thinking about servers.

You pay only for the compute time that you consume —

there is no charge when your code is not running.

With Lambda, you can run code for virtually any type of application or backend service, all with zero administration.

Serverless dont mean it dont have any server..Programmer is not responsible for managing and scaling. We want to deploy function that do some specific jobs

Function as a service

Limitation: function should not take more than 15min

Lambda can act as trigger for example let say when we upload a doc on aws s3 a function must run to process that file

AWS Lambda is a cloud computing service that lets developers run code without managing compute resources. It's an example of serverless architecture and function as a service (FaaS).

Example : create hello world lambda function

Step 1: create myfirstlambda

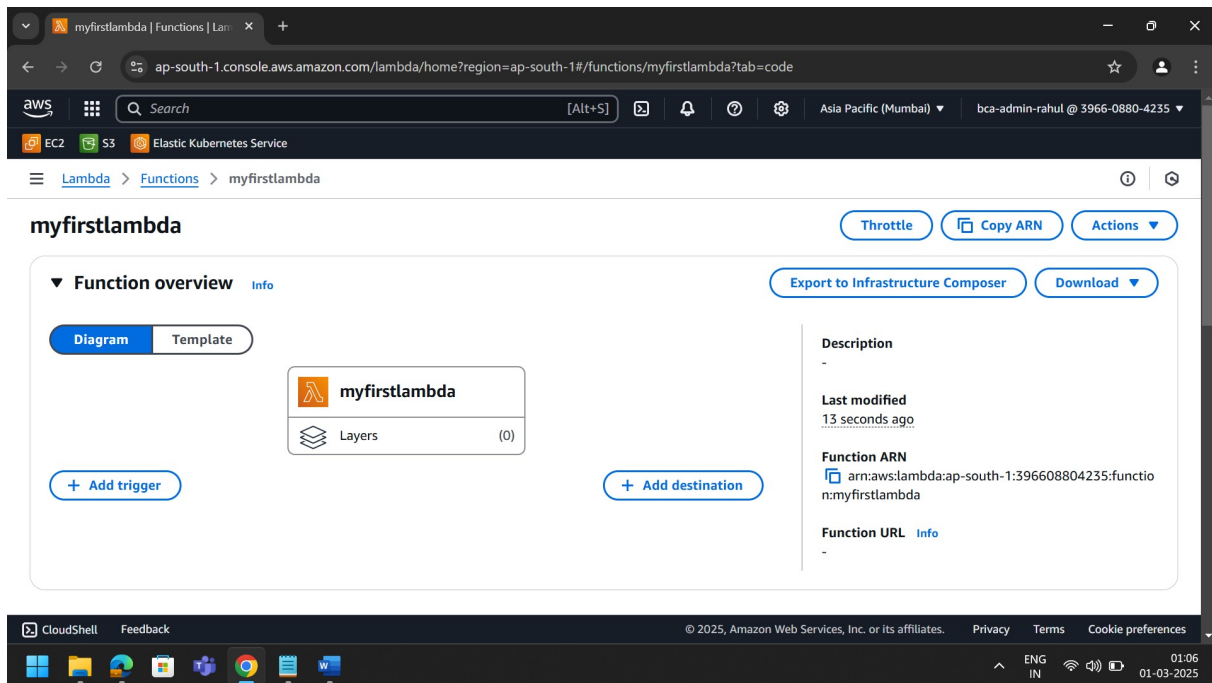
Step 2: check log group on cloud watch : no logs

Step 3: Create jar of hello world project and upload it

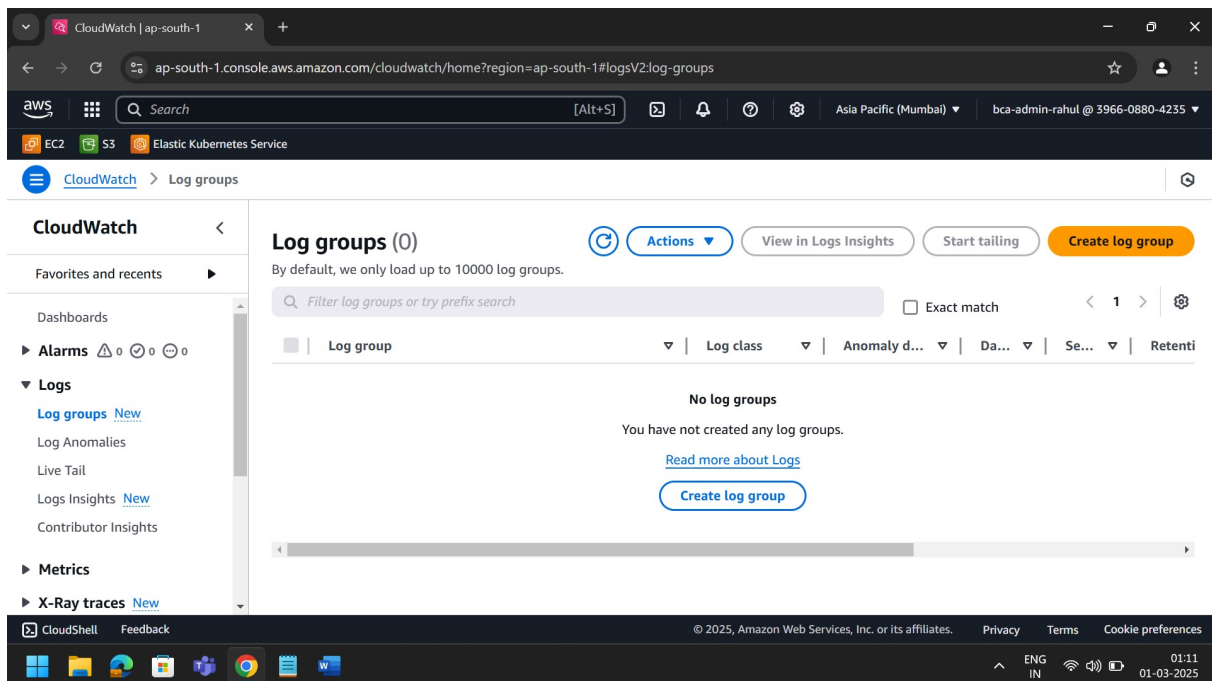
Step 4: edit runtime setting and change name of package and class and handler

Step 5: test it

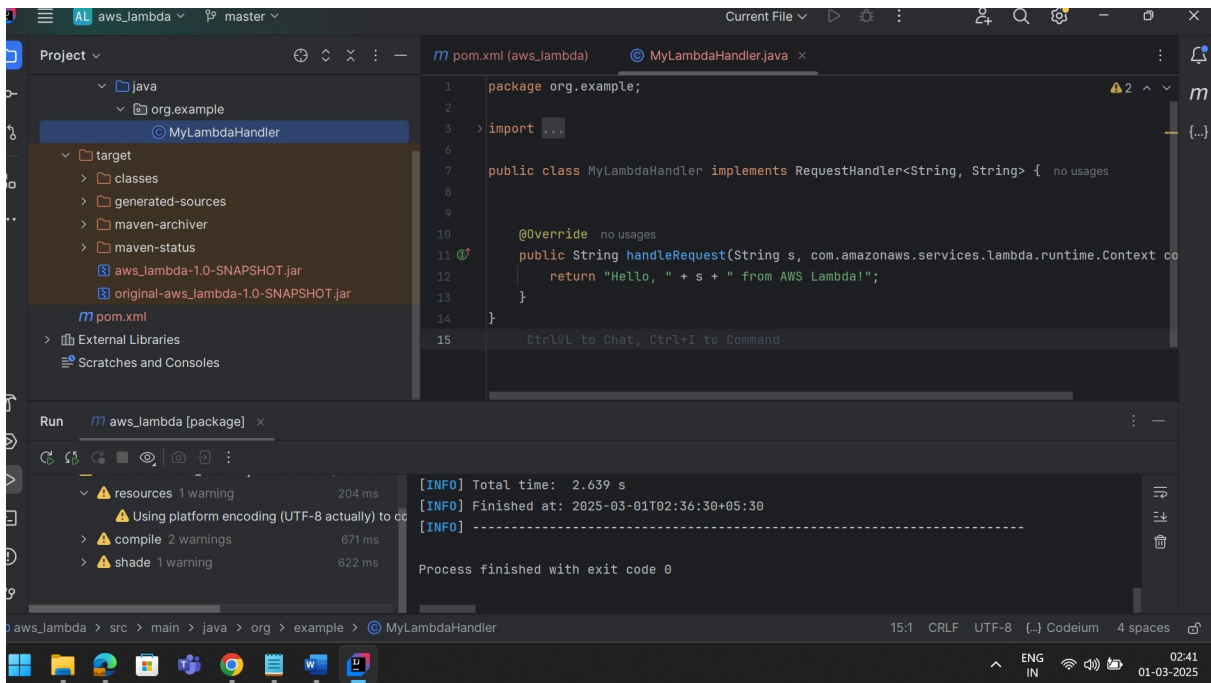
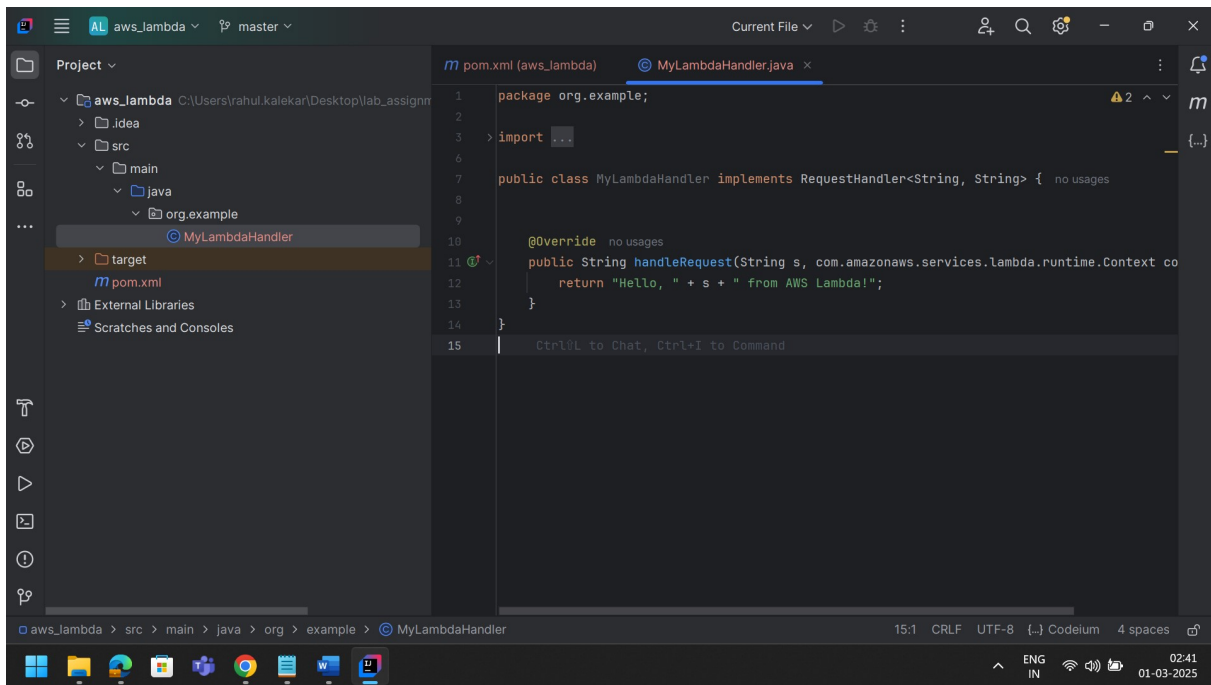
Step 1: create myfirstlambda



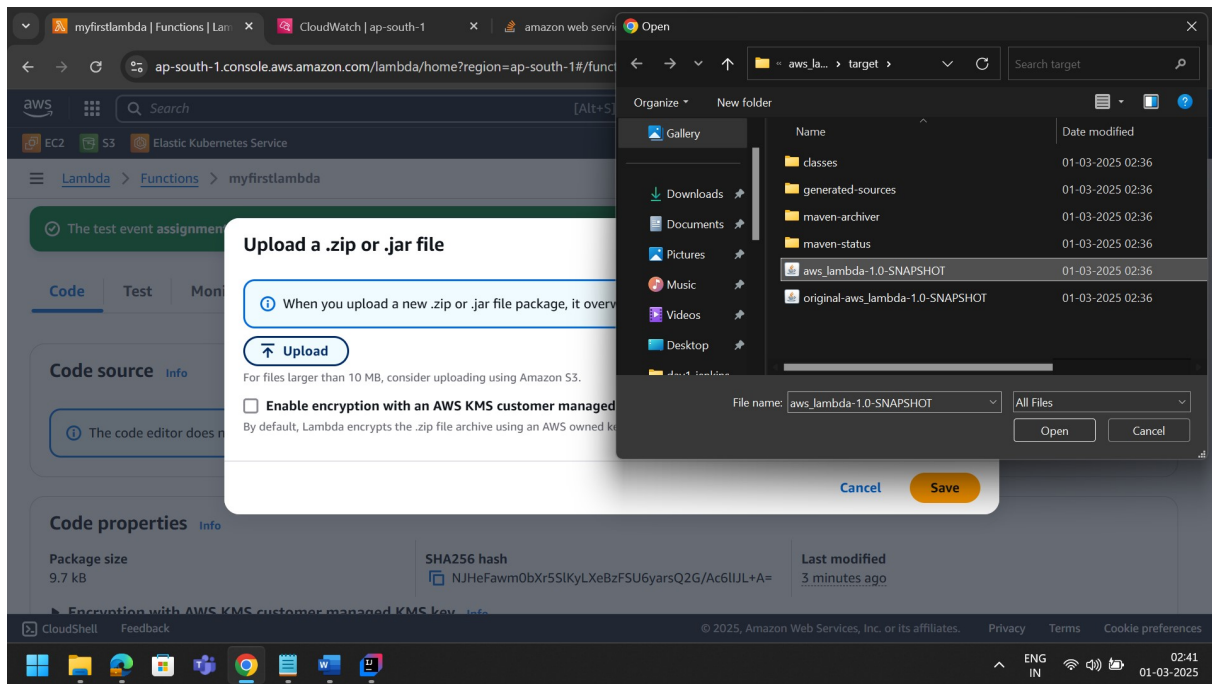
Step 2: check log group on cloud watch : no logs



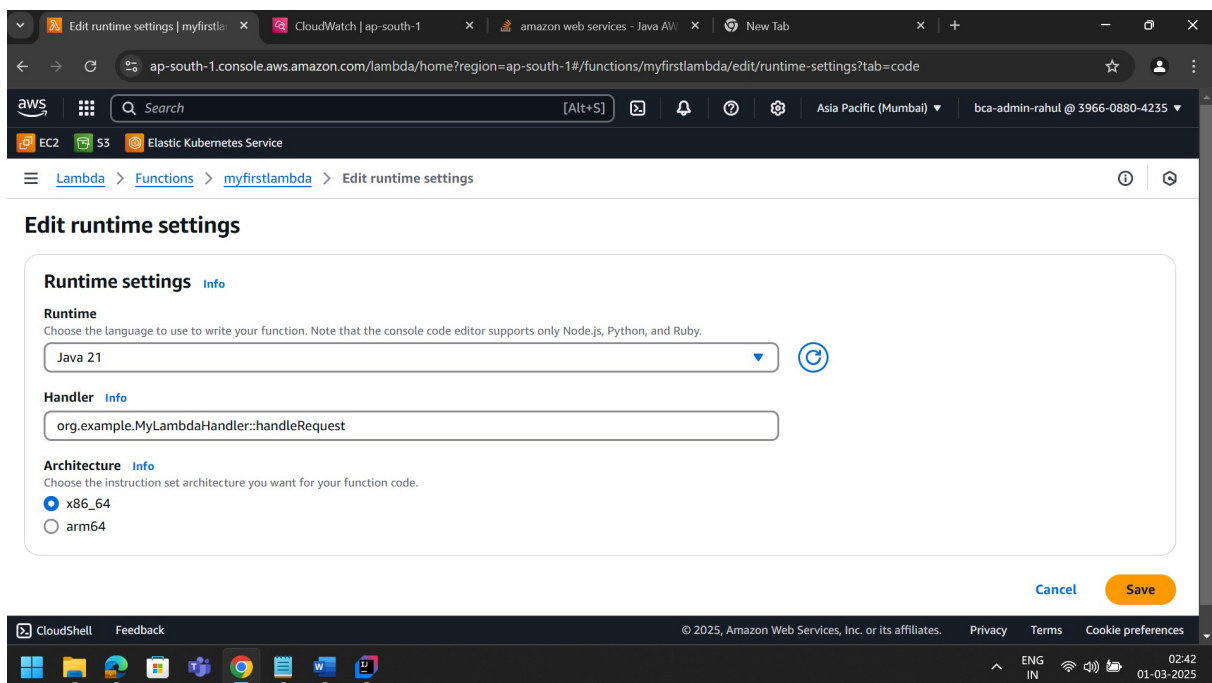
Step 3: Create jar of hello world project and upload it



Uploading the jar file



Step 4: edit runtime setting and change name of package and class and handler



Step 5: test it

The screenshot shows the AWS Lambda console for a function named 'myfirstlambda'. The 'Test event' tab is active, displaying instructions on how to invoke the function. The 'Test event action' is set to 'Edit saved event'. The 'Event name' is 'assignment'. The 'Event JSON' field contains the text `1 { "rahu1"`. Buttons for 'Delete', 'CloudWatch Logs Live Tail', 'Save', and 'Test' are visible at the top right. The bottom of the browser window shows the Windows taskbar with various application icons and a system clock indicating 02:42 on 01-03-2025.

The screenshot shows the same AWS Lambda console page, but now displaying the results of a successful function execution. A green banner at the top states 'Executing function: succeeded (logs)'. Below this, the 'Details' section shows the last 4 KB of the execution log: `"Hello, rahu1 from AWS Lambda!"`. A 'Summary' section provides key metrics: Code SHA-256 (NJHeFawm0bXr55IKyLXeBzFSU6yarsQ2G/Ac6IIJL+A=), Request ID (0707df70-d0c8-4f7b-a7fa-0356c321125d), Duration (1.46 ms), Resources configured (512 MB), Execution time (0 seconds ago), Function version (\$LATEST), Billed duration (2 ms), and Max memory used (99 MB). The bottom of the browser window shows the Windows taskbar with a system clock indicating 02:43 on 01-03-2025.

myfirstlambda | Function: xCloudWatch | ap-south-1 xCloudWatch | ap-south-1 xamazon web services - Ju xNew Tab

ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#logsV2:log-groups/log-group/\$252Faws\$252Flambda\$252Fmyfirstlambda/log-ev...

Search[Alt+S]

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EC2S3Elastic Kubernetes Service

CloudWatch > Log groups > /aws/lambda/myfirstlambda > 2025/02/28/[\$LATEST]7ff6a1e85de448968c03e18ede258c53

CloudWatch

Favorites and recents

Dashboards

Alarms 0 0 0

Logs

Log groups New

Log Anomalies

Live Tail

Logs Insights New

Contributor Insights

Metrics

X-Ray traces New

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 search1m1hUTC timezoneDisplay

Timestamp	Message
No older events at this moment. Retry	
2025-02-28T21:09:49.719Z	INIT_START Runtime Version: java:21.v29 Runtime Version ARN: arn:aws:lambda:ap-south-1::runt...
2025-02-28T21:09:50.117Z	START RequestId: cd005845-18e1-4223-803f-33b70a7cfc46 Version: \$LATEST
2025-02-28T21:09:50.147Z	END RequestId: cd005845-18e1-4223-803f-33b70a7cfc46
2025-02-28T21:09:50.147Z	REPORT RequestId: cd005845-18e1-4223-803f-33b70a7cfc46 Duration: 29.29 ms Billed Duration: 3...
2025-02-28T21:13:01.074Z	START RequestId: 0707df70-d0c8-4f7b-a7fa-0356c321125d Version: \$LATEST
2025-02-28T21:13:01.076Z	END RequestId: 0707df70-d0c8-4f7b-a7fa-0356c321125d
2025-02-28T21:13:01.076Z	REPORT RequestId: 0707df70-d0c8-4f7b-a7fa-0356c321125d Duration: 1.46 ms Billed Duration: 2 ...
No newer events at this moment. Auto retry paused. Resume	

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CloudShellFeedback

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