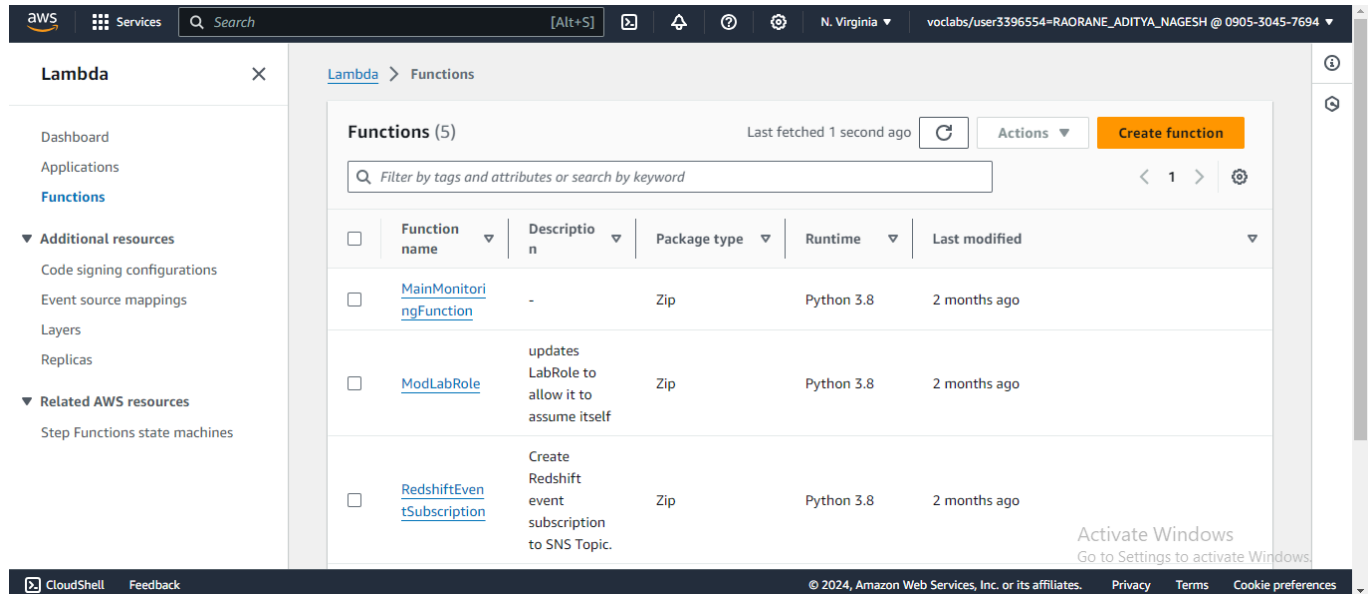
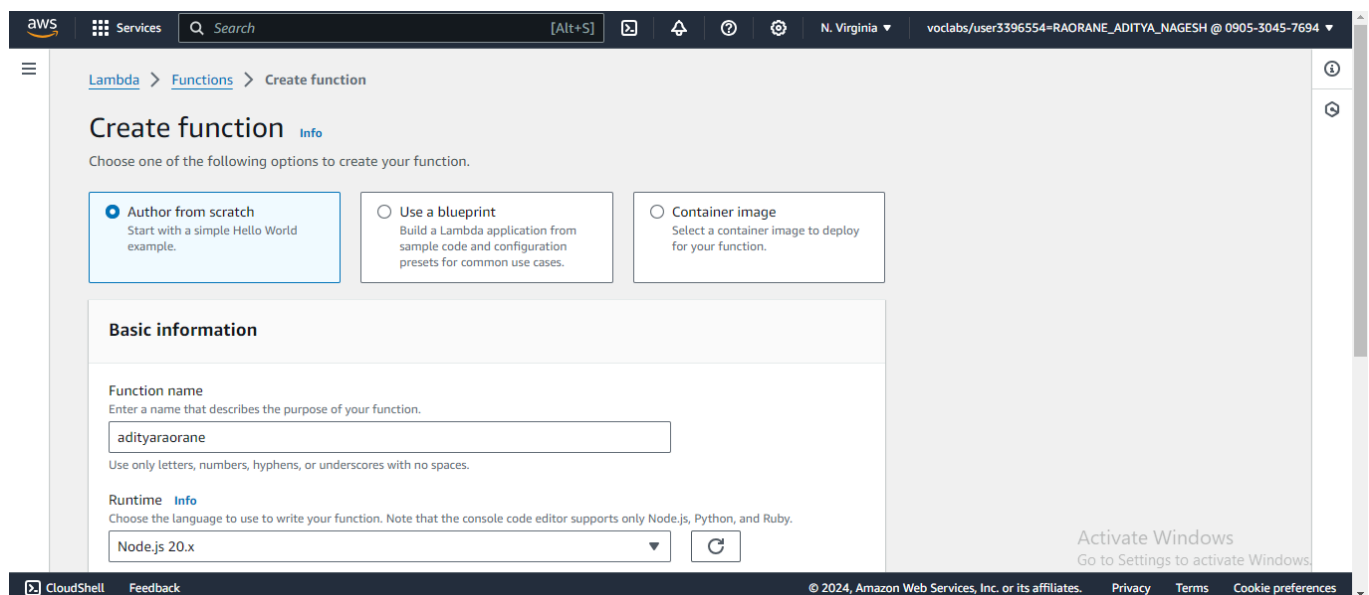


**Aim:** To understand AWS Lambda, its workflow, various functions and create your first Lambda functions using Python / Java / Nodejs.

1. Open up the Lambda Console and click on the Create button.



2. Choose to create a function from scratch or use a blueprint, i.e templates defined by AWS for you with all configuration presets required for the most common use cases. After that, choose to create a new role with basic Lambda permissions if you don't have an existing one.



Click on the *Create* button.

3. This process will take a while to finish and after that, you'll get a message that your function was successfully created.

The image displays two screenshots of the AWS Lambda console interface, showing the successful creation and configuration of a function named 'adityaraorane'.

**Top Screenshot: Function Overview**

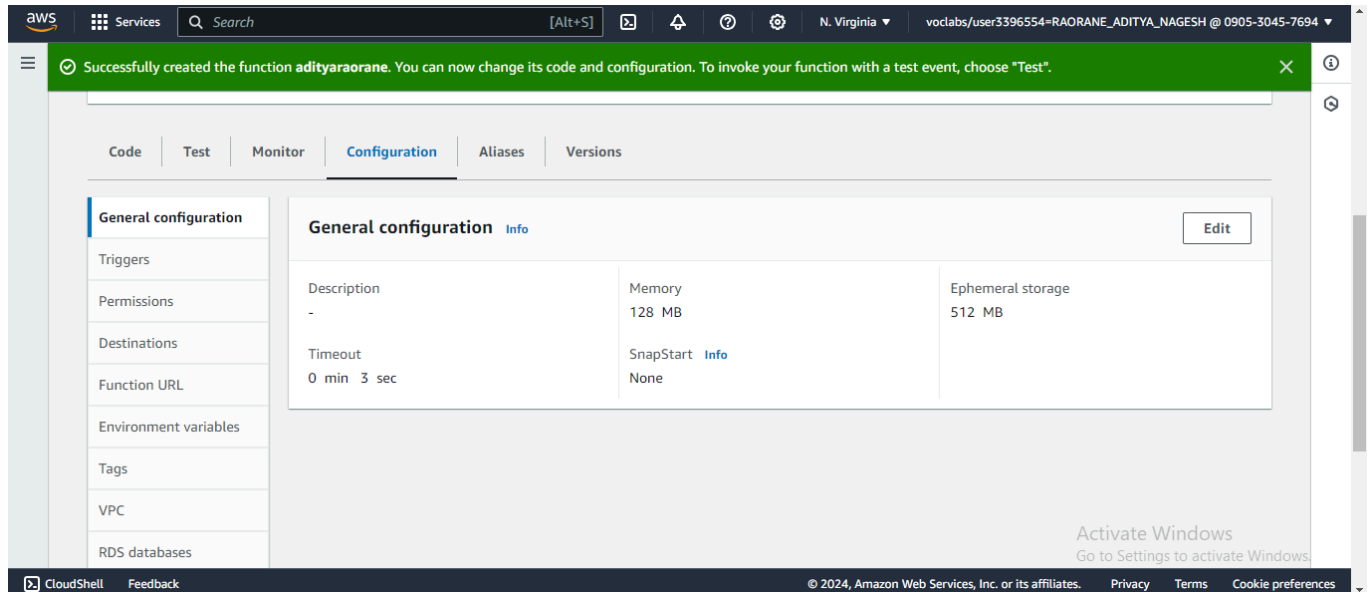
- Header:** 'Successfully created the function **adityaraorane**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".'
- Breadcrumbs:** Lambda > Functions > adityaraorane
- Function Name:** adityaraorane
- Buttons:** Throttle, Copy ARN, Actions, Export to Application Composer, Download.
- Function overview:**
  - Diagram:** Shows the function 'adityaraorane' with 0 layers.
  - Buttons:** + Add trigger, + Add destination.
  - Description:** -
  - Last modified:** 14 seconds ago
  - Function ARN:** arn:aws:lambda:us-east-1:090530457694:function:adityaraorane
  - Function URL:** Info

**Bottom Screenshot: Code Source**

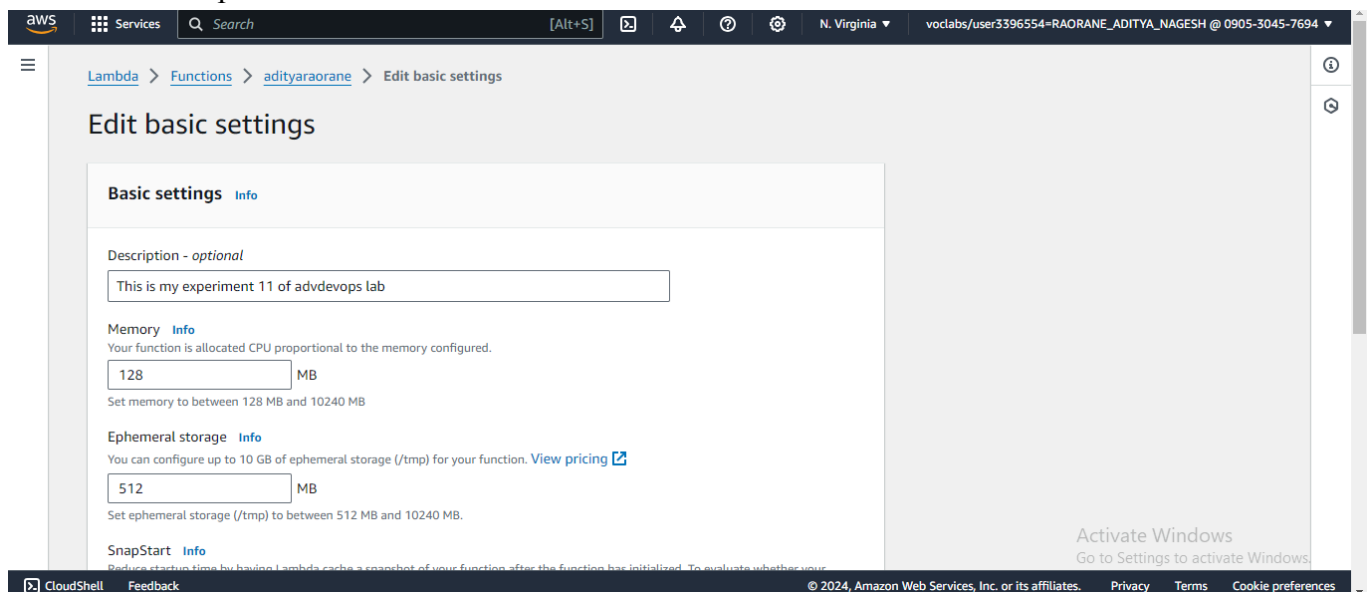
- Header:** 'Successfully created the function **adityaraorane**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".'
- Breadcrumbs:** Lambda > Functions > adityaraorane
- Code source:** Info
- Buttons:** Upload from
- Code Editor:**
  - File:** index.mjs
  - Code:**

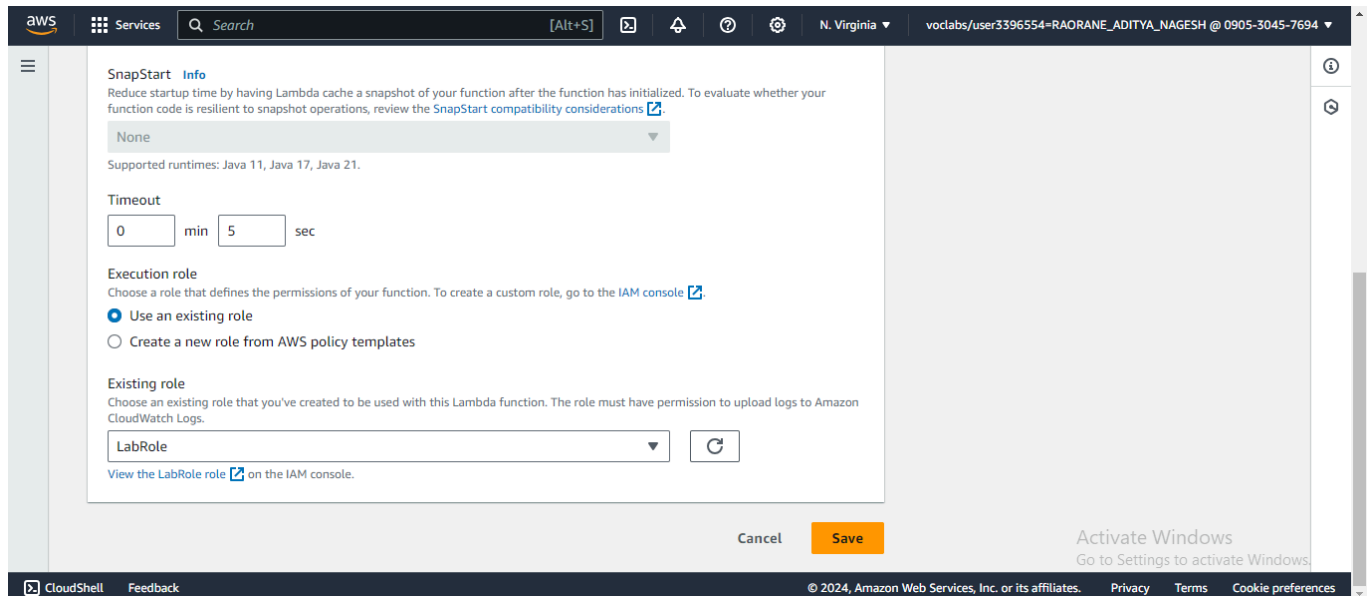
```
1 export const handler = async (event) => {
2   // TODO implement
3   const response = {
4     statusCode: 200,
5     body: JSON.stringify('Hello from Lambda!'),
6   };
7   return response;
8 };
9
```

- To change the configuration, open up the Configuration tab and under General Configuration, choose Edit.

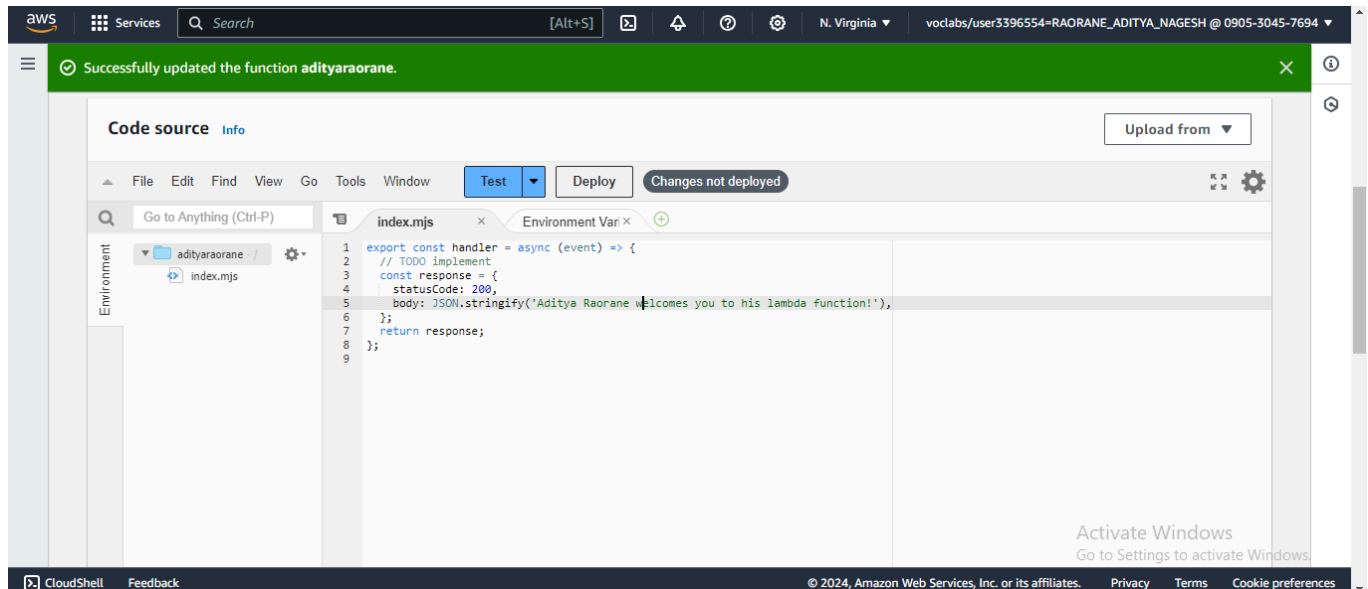


Here, you can enter a description and change Memory and Timeout. I've changed the Timeout period to 5 sec since that is sufficient for now.

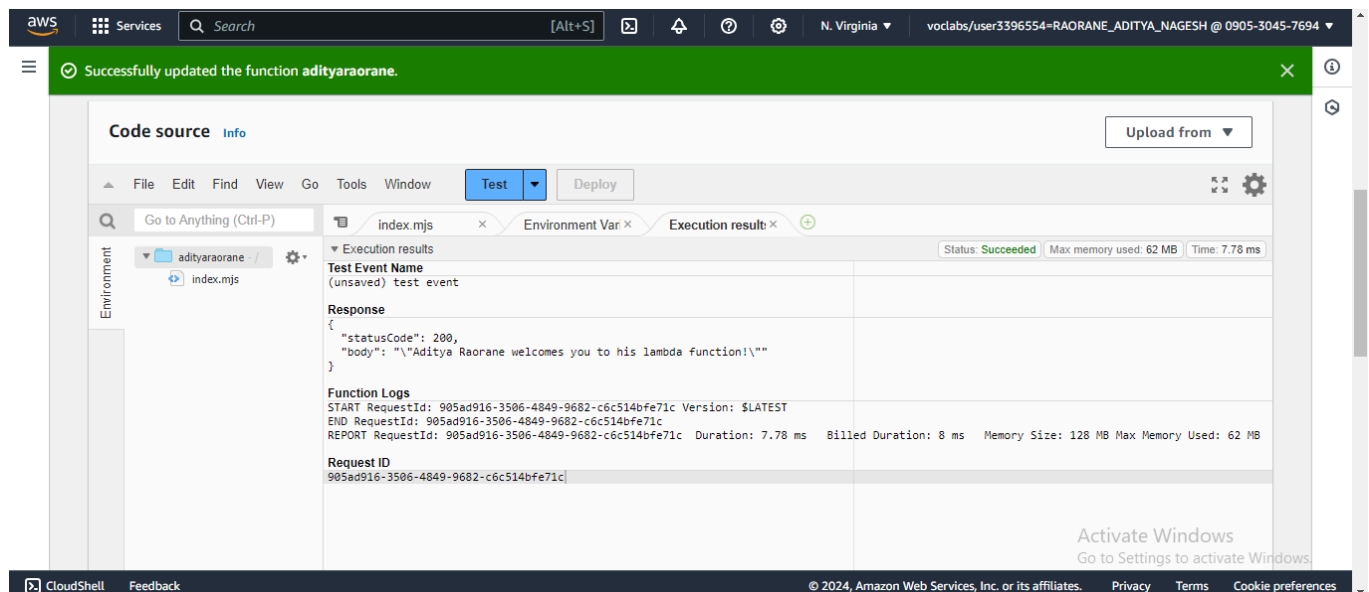




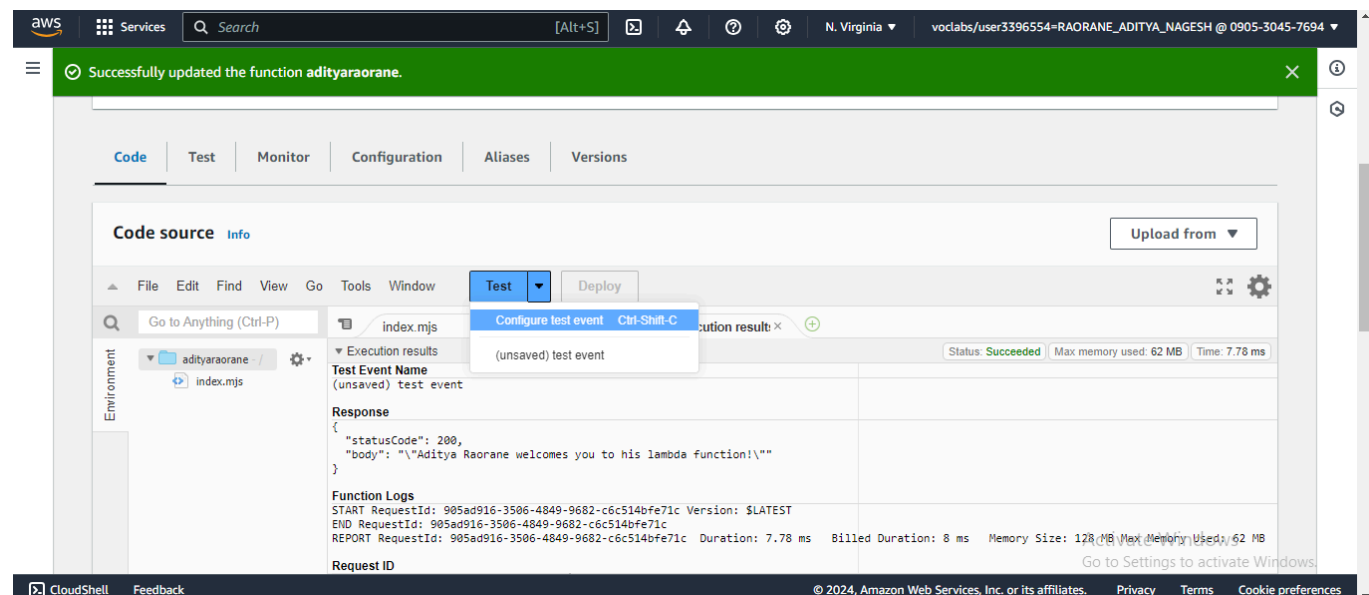
5. You can make changes to your function inside the code editor. You can also upload a zip file of your function or upload one from an S3 bucket if needed. Press Ctrl + S to save the file and click Deploy to deploy the changes.



6. Click on Test and you can change the configuration, like so. If you do not have anything in the request body, it is important to specify two curly braces as valid JSON, so make sure they are there.



7. Now click on Test and you should be able to see the results.



### Configure test event

A test event is a JSON object that mocks the structure of requests emitted by AWS services to invoke a Lambda function. Use it to see the function's invocation result.

To invoke your function without saving an event, configure the JSON event, then choose Test.

Test event action

Create new event

Edit saved event

Event name

adityaraorane

Maximum of 25 characters consisting of letters, numbers, dots, hyphens and underscores.

Event sharing settings

☒ Private  
This event is only available in the Lambda console and to the event creator. You can configure a total of 10. [Learn more](#)

☐ Shareable  
This event is available to IAM users within the same account who have permissions to access and use shareable events. [Learn more](#)

Template - optional

hello-world

Event JSON Format JSON

```
1 {  
2   "key1": "value1",  
3   "key2": "value2",  
4   "key3": "value3"  
5 }
```

Cancel Invoke Save

aws Services Search [Alt+S] N. Virginia voclabs/user3396554=RAORANE\_ADITYA\_NAGESH @ 0905-3045-7694

The test event adityaraorane was successfully saved.

Code source Info Upload from

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P)

Environment

- adityaraorane
  - index.mjs

index.mjs Environment Var Execution result

Execution results Status: Succeeded Max memory used: 62 MB Time: 1.38 ms

Test Event Name  
adityaraorane

Response

```
{  
  "statusCode": 200,  
  "body": "\\Aditya Raorane welcomes you to his lambda function!\\\""}  
}
```

Function Logs

```
START RequestId: 9d7a6056-0c55-422d-a6ea-6079cee691ec Version: $LATEST  
END RequestId: 9d7a6056-0c55-422d-a6ea-6079cee691ec  
REPORT RequestId: 9d7a6056-0c55-422d-a6ea-6079cee691ec Duration: 1.38 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memory Used: 62 MB
```

Request ID  
9d7a6056-0c55-422d-a6ea-6079cee691ec

Activate Windows  
Go to Settings to activate Windows.

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

**Conclusion:** We successfully executed the AWS Lambda function using Python. We learned how AWS Lambda allows you to run code without provisioning or managing servers, making it a cost-effective and scalable solution for serverless computing. The workflow involves uploading code, setting triggers, and letting Lambda manage the execution based on the provided conditions. AWS Lambda's event-driven architecture makes it highly efficient for handling real-time data processing and automation tasks.