

AWS

1. Write an AWS Lambda function that adds two numbers and returns the result.

The screenshot displays the AWS Lambda console interface. At the top, a green notification bar states "Successfully updated the function Addtwonumber." The main heading is "Addtwonumber". Below this, the "Function overview" section is active, showing the function name "Addtwonumber" and "Layers (0)". To the right, the "Description" is empty, "Last modified" is "19 seconds ago", and the "Function ARN" is "arn:aws:lambda:us-east-1:637423377214:function:Addtwonumber". The "Function URL" is also shown. Below the overview, there are tabs for "Code", "Test", "Monitor", "Configuration", "Aliases", and "Versions". The "Code" tab is selected, showing the "lambda_function.py" file. The code is as follows:

```
1 def lambda_handler(event, context):
2     try:
3         # Retrieve inputs
4         num1 = event.get('num1')
5         num2 = event.get('num2')
6
7         # Validate inputs
8         if num1 is None or num2 is None:
9             return {
10                 'statusCode': 400,
11                 'body': "Error: Both 'num1' and 'num2' are required in the input."
12             }
13
14         # Ensure inputs are numbers
15         if not isinstance(num1, (int, float)) or not isinstance(num2, (int, float)):
16             return {
17                 'statusCode': 400,
18                 'body': "Error: 'num1' and 'num2' must be numbers."
19             }
20
```

The left sidebar shows the "EXPLORER" view with the "ADDTWOONUMBER" function selected, containing "add_two_number.py" and "lambda_function.py". The "DEPLOY" section has buttons for "Deploy (Ctrl+Shift+U)" and "Test (Ctrl+Shift+I)". The "TEST EVENTS" section shows "SELECTED: TEST_ADD_TWO_NUM_1" with options to "Create new test event" and "Shareable saved events".

Deploy (Ctrl+Shift+U)

Test (Ctrl+Shift+I)

TEST EVENTS [SELECTED: TEST_ADD_TWO_NUM_]

Create new test event

Shareable saved events

test_add_two_num

test_add

test_add_two_num_

ENVIRONMENT VARIABLES

21

22

23

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Perform addition

result = num1 + num2

Return success response

return {

'statusCode': 200,

'body': f"The sum of {num1} and {num2} is {result}."

}

except Exception as e:

Catch unexpected errors

return {

'statusCode': 500,

'body': f"An unexpected error occurred: {str(e)}"

}

PROBLEMS

OUTPUT

CODE REFERENCE LOG

TERMINAL

Status: Succeeded

Test Event Name: test_add_two_num_

Execution Results

CloudShell

Feedback

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us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/Addtwonumber?newFunction=true&tab=testing

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New chat

Seller Dashboard

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Lambda

Functions

Addtwonumber

Successfully updated the function Addtwonumber.

Event name

test_add_two_num

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 "num1": 5,

3 "num2": 7

4 }

5

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/Addtwonumber?newFunction=true&tab=code

Search

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Lambda > Functions > Addtwonumber

Successfully updated the function Addtwonumber.

Code source

Info

Upload from

EXPLORER

ADDTWNUMBER

add_two_number.py

lambda_function.py

DEPLOY

Deploy (Ctrl+Shift+U)

Test (Ctrl+Shift+I)

TEST EVENTS [SELECTED: TEST_ADD_TWO_NUM_]

Create new test event

Shareable saved events

lambda_function.py

1 def lambda_handler(event, context):

PROBLEMS

OUTPUT

CODE REFERENCE LOG

TERMINAL

Status: Succeeded

Test Event Name: test_add_two_num_

Response:

{

"statusCode": 200,

"body": "The sum of 5 and 7 is 12."

}

Function Logs:

START RequestId: 5fc432ce-3707-4bad-86d9-ca273b2ad0da Version: \$LATEST

END RequestId: 5fc432ce-3707-4bad-86d9-ca273b2ad0da

REPORT RequestId: 5fc432ce-3707-4bad-86d9-ca273b2ad0da Duration: 2.77 ms Billed Duration: 3 ms Memory Size: 128 MB Max Memory Used: 31 MB Init Duration: 79.45 ms

Request ID: 5fc432ce-3707-4bad-86d9-ca273b2ad0da

Execution Results

CloudShell

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ENG IN

15:28

24-01-2025

2. Code an AWS Lambda function to store a document or PDF file in an S3 bucket

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/UploadToS3Function?tab=code

aws

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Lambda > Functions > UploadToS3Function

Successfully updated the function UploadToS3Function.

UploadToS3Function

Throttle Copy ARN Actions

Export to Infrastructure Composer Download

Function overview Info

Diagram Template

UploadToS3Function

Layers (0)

+ Add trigger

+ Add destination

Description

-

Last modified

12 seconds ago

Function ARN

arn:aws:lambda:us-east-1:637423377214:function:UploadToS3Function

Function URL Info

-

Code Test Monitor Configuration Aliases Versions

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us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/UploadToS3Function?tab=code

Successfully updated the function UploadToS3Function.

EXPLORER

- UPLOADTOS3FUNCTION
 - lambda_function.py

DEPLOY

Deploy (Ctrl+Shift+U)

Test (Ctrl+Shift+I)

TEST EVENTS [SELECTED: TESTPDF]

- Create new test event
- Shareable saved events
 - testpdf

lambda_function.py

```
1 import json
2 import base64
3 import boto3
4
5 def lambda_handler(event, context):
6     try:
7         # Get the file name and content from the event body
8         file_name = event['file_name']
9         file_content = event['file_content']
10
11         # Decode the base64 file content
12         file_data = base64.b64decode(file_content)
13
14         # Create an S3 client
15         s3 = boto3.client('s3')
16
17         # Upload the file to S3
18         s3.put_object(Bucket='storedocumentins3', Key=file_name, Body=file_data)
```

PROBLEMS OUTPUT CODE REFERENCE LOG TERMINAL

Status: Succeeded

Test Event Name: testpdf

Execution Results

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/UploadToS3Function?tab=code

Successfully updated the function UploadToS3Function.

EXPLORER

- UPLOADTOS3FUNCTION
 - lambda_function.py

DEPLOY

Deploy (Ctrl+Shift+U)

Test (Ctrl+Shift+I)

TEST EVENTS [SELECTED: TESTPDF]

- Create new test event
- Shareable saved events
 - testpdf

lambda_function.py

```
5 def lambda_handler(event, context):
6     try:
7         # Upload the file to S3
18         s3.put_object(Bucket='storedocumentins3', Key=file_name, Body=file_data)
19
20         # Return success response
21         return {
22             'statusCode': 200,
23             'body': json.dumps('File uploaded successfully')
24         }
25
26     except Exception as e:
27         return {
28             'statusCode': 500,
29             'body': json.dumps(f'Error: {str(e)}')
30         }
31
```

PROBLEMS OUTPUT CODE REFERENCE LOG TERMINAL

Status: Succeeded

Test Event Name: testpdf

Execution Results

S3 buckets

UploadToS3F

API Gateway

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Create role

Assignment

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(76) AWS S3

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/UploadToS3Function?tab=code

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Search

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Lambda>Functions>UploadToS3Function

Successfully updated the function UploadToS3Function.

EXPLORER

UPLOADTOS3FUNCTION

lambda_function.py

DEPLOY

Deploy (Ctrl+Shift+U)

Test (Ctrl+Shift+I)

TEST EVENTS [SELECTED: TESTPDF]

Create new test event

Shareable saved events

testpdf

ENVIRONMENT VARIABLES

lambda_function.py

lambda_function.py

5def lambda_handler(event, context):

6try:

PROBLEMS

OUTPUT

CODE REFERENCE LOG

TERMINAL

Status: Succeeded

Test Event Name: testpdf

Response:

{

"statusCode": 200,

"body": "\\File uploaded successfully\\"

}

Function Logs:

START RequestId: 2983e303-2760-49d5-9e72-c9f3c7c3f9d5 Version: \$LATEST

END RequestId: 2983e303-2760-49d5-9e72-c9f3c7c3f9d5

REPORT RequestId: 2983e303-2760-49d5-9e72-c9f3c7c3f9d5 Duration: 2863.88 ms Billed Duration: 2864 ms Memory Size: 128 MB Max Memory

Used: 81 MB Init Duration: 289.47 ms

Request ID: 2983e303-2760-49d5-9e72-c9f3c7c3f9d5

Execution Results

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