

Hands On AWS Lambda

1. Create a Lambda Function

The screenshot shows the AWS Lambda 'Create function' page. The 'Use a blueprint' option is selected. The 'Blueprint name' is 'Hello world function' and the 'Runtime' is 'python3.10'. The 'Function name' is 'myLambdaFunction'. The 'Architecture' is 'x86_64'. The 'Execution role' is 'Create a new role with basic Lambda permissions'. A sidebar on the right contains a 'Tutorials' section with a 'Create a simple web app' tutorial link.

Create function Info

Choose one of the following options to create your function.

- ☐ 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 Info

Blueprint name
Hello world function
A starter AWS Lambda function. python3.10

Function name
Enter a name that describes the purpose of your function.
myLambdaFunction
Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime
python3.10

Architecture
x86_64

Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

- ☒ Create a new role with basic Lambda permissions
- ☐ Use an existing role
- ☐ Create a new role from AWS policy templates

Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions policies in this role.

Create a simple web app

In this tutorial you will learn how to:

- Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
- Invoke your function through its function URL

[Learn more](#)

[Start tutorial](#)

2. Configure test events

The screenshot shows the 'Configure test event' dialog box. The 'Test event action' is 'Create new event'. The 'Event name' is 'DemoEvent'. The 'Event sharing settings' are 'Private'. The 'Template - optional' is 'hello-world'. The 'Event JSON' is shown in a text area with a 'Format JSON' button. The dialog has 'Cancel', 'Invoke', and 'Save' buttons at the bottom.

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
DemoEvent
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

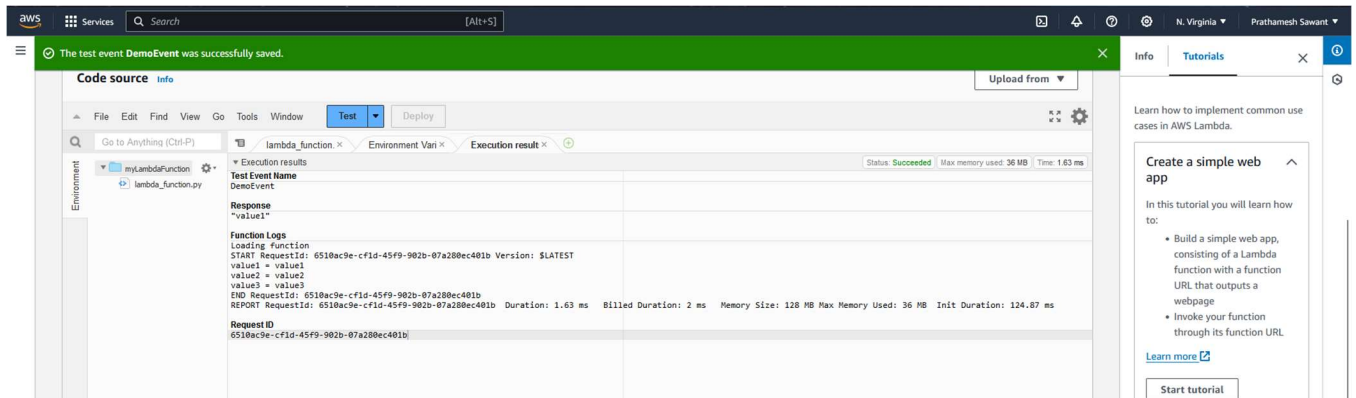
Event JSON [Format JSON](#)

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

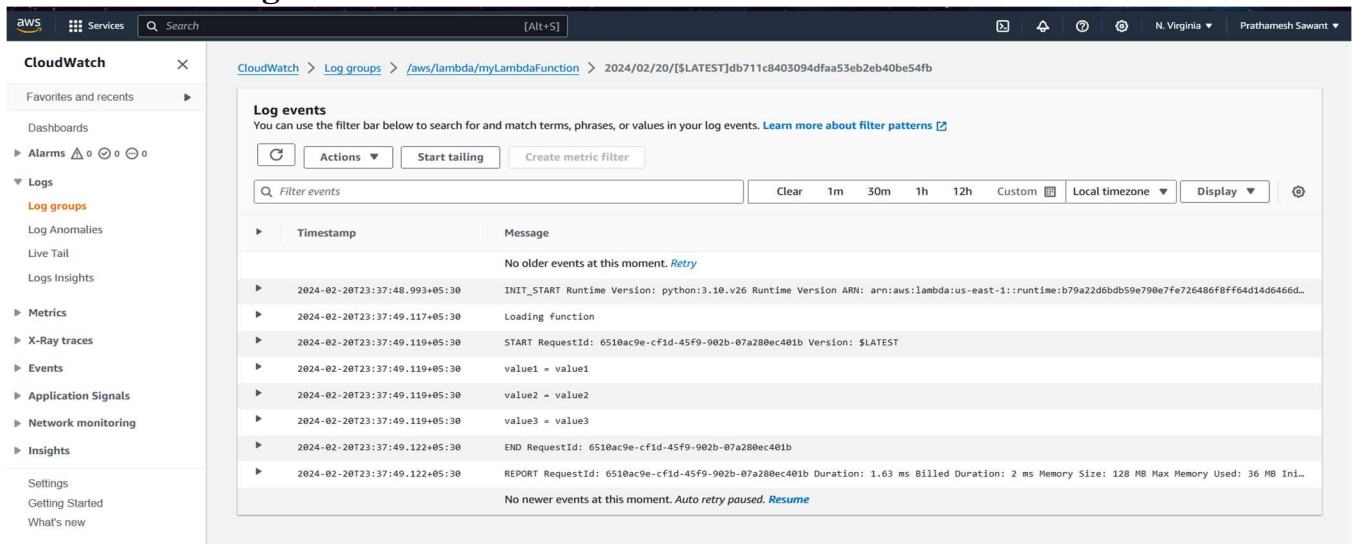
Cancel Invoke Save

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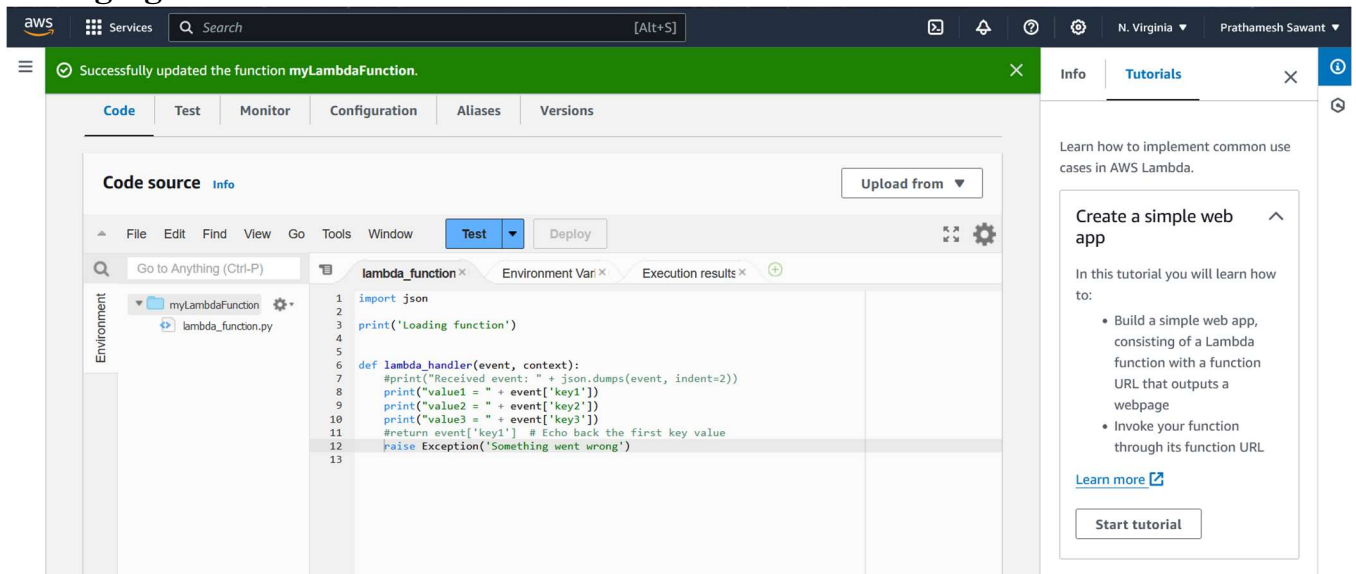
3. Test the code



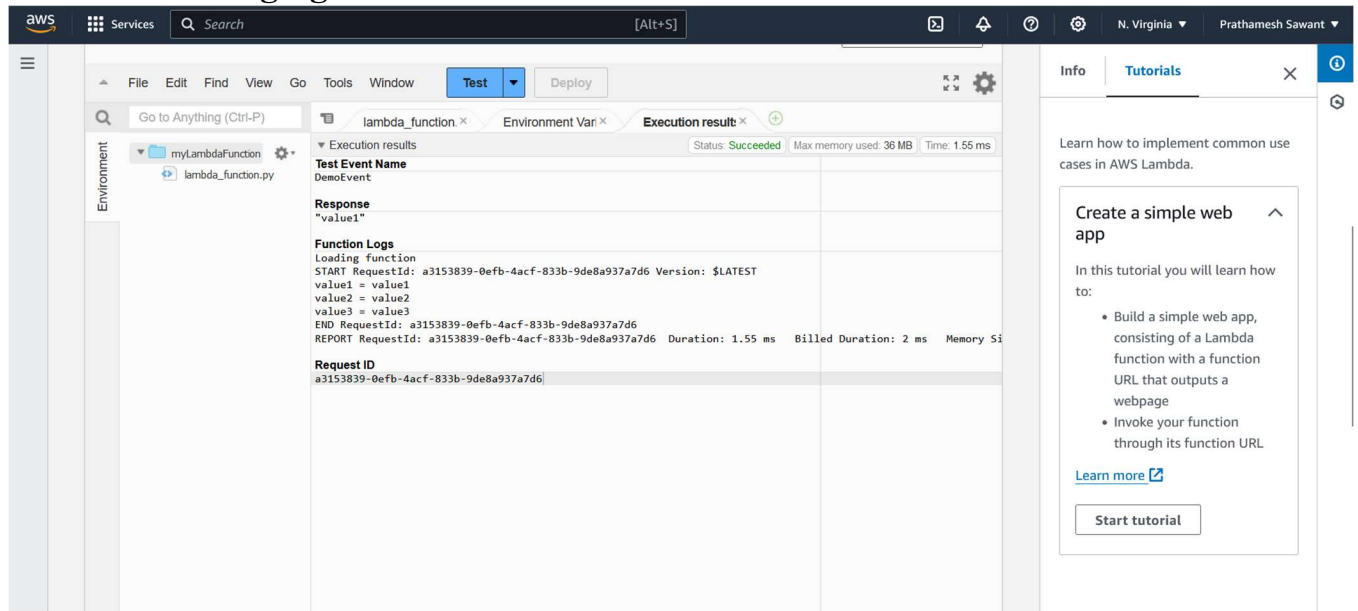
4. CloudWatch Log events



5. Changing the code



6. Tests after changing the code



The screenshot shows the AWS Lambda console interface. The top navigation bar includes the AWS logo, 'Services', a search bar, and user information. The main content area displays the 'Execution results' for a test event named 'DemoEvent'. The status is 'Succeeded', with a max memory used of 36 MB and a time of 1.55 ms. The response is 'value1'. The function logs show the loading of the function and the execution of the lambda_handler, which outputs 'value1'. The request ID is 'a3153839-0efb-4acf-833b-9de8a937a7d6'.

Test Event Name: DemoEvent

Response: "value1"

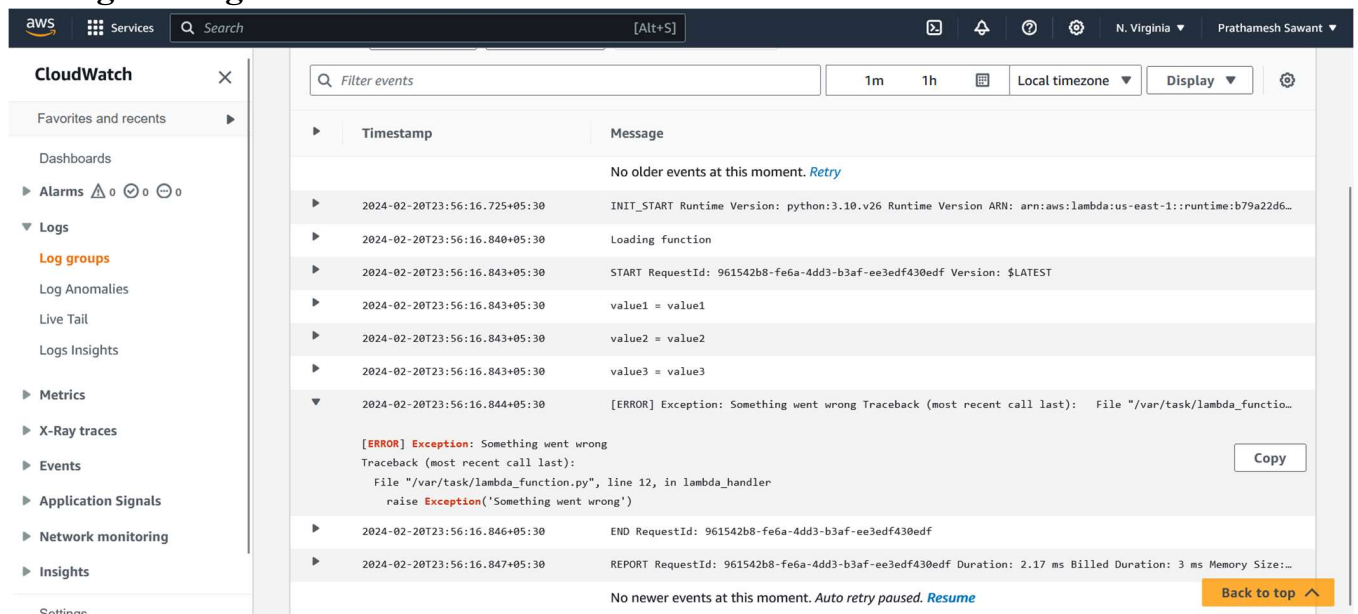
Function Logs:

```
Loading function
START RequestId: a3153839-0efb-4acf-833b-9de8a937a7d6 Version: $LATEST
value1 = value1
value2 = value2
value3 = value3
END RequestId: a3153839-0efb-4acf-833b-9de8a937a7d6
REPORT RequestId: a3153839-0efb-4acf-833b-9de8a937a7d6 Duration: 1.55 ms Billed Duration: 2 ms Memory S...
```

Request ID: a3153839-0efb-4acf-833b-9de8a937a7d6

On the right side, there is a 'Tutorials' panel with a link to 'Create a simple web app' and a 'Start tutorial' button.

7. Change in Log Event



The screenshot shows the AWS CloudWatch console interface. The left sidebar contains navigation options like 'Dashboards', 'Alarms', 'Logs', 'Metrics', 'X-Ray traces', 'Events', 'Application Signals', 'Network monitoring', and 'Insights'. The main content area displays a list of log events. The selected event shows a traceback error: '[ERROR] Exception: Something went wrong Traceback (most recent call last): File "/var/task/lambda_function.py", line 12, in lambda_handler raise Exception('Something went wrong')'. The event timestamp is '2024-02-20T23:56:16.844+05:30'.

CloudWatch

Filter events

1m 1h Local timezone Display

Timestamp	Message
2024-02-20T23:56:16.725+05:30	INIT_START Runtime Version: python:3.10.v26 Runtime Version ARN: arn:aws:lambda:us-east-1::runtime:b79a22d6...
2024-02-20T23:56:16.840+05:30	Loading function
2024-02-20T23:56:16.843+05:30	START RequestId: 961542b8-fe6a-4dd3-b3af-ee3edf430edf Version: \$LATEST
2024-02-20T23:56:16.843+05:30	value1 = value1
2024-02-20T23:56:16.843+05:30	value2 = value2
2024-02-20T23:56:16.843+05:30	value3 = value3
2024-02-20T23:56:16.844+05:30	[ERROR] Exception: Something went wrong Traceback (most recent call last): File "/var/task/lambda_funcio...
2024-02-20T23:56:16.846+05:30	END RequestId: 961542b8-fe6a-4dd3-b3af-ee3edf430edf
2024-02-20T23:56:16.847+05:30	REPORT RequestId: 961542b8-fe6a-4dd3-b3af-ee3edf430edf Duration: 2.17 ms Billed Duration: 3 ms Memory Size:...

No older events at this moment. [Retry](#)

[ERROR] Exception: Something went wrong
Traceback (most recent call last):
File "/var/task/lambda_function.py", line 12, in lambda_handler
raise Exception('Something went wrong')

[Copy](#)

No newer events at this moment. Auto retry paused. [Resume](#)

[Back to top](#)