

## **AWS CLOUD AND DEVOPS**

by Mr. Mahendran Selvakumar

# **Automating EC2 Instance Management Using AWS Lambda with GitHub Copilot**

Name: Sooriya N

Class: III CSE C

Organized by KPR Institute of Engineering and  
Technology

Department of Computer Science and Engineering

## Overview

This documentation outlines the process of automating the start and stop operations for an EC2 instance using AWS Lambda. GitHub Copilot to assist in generating Python scripts for these Lambda functions, making development efficient and intuitive. Screenshots of these tasks are included for clarity.

## Prerequisites

Before starting, ensure the following prerequisites are met:

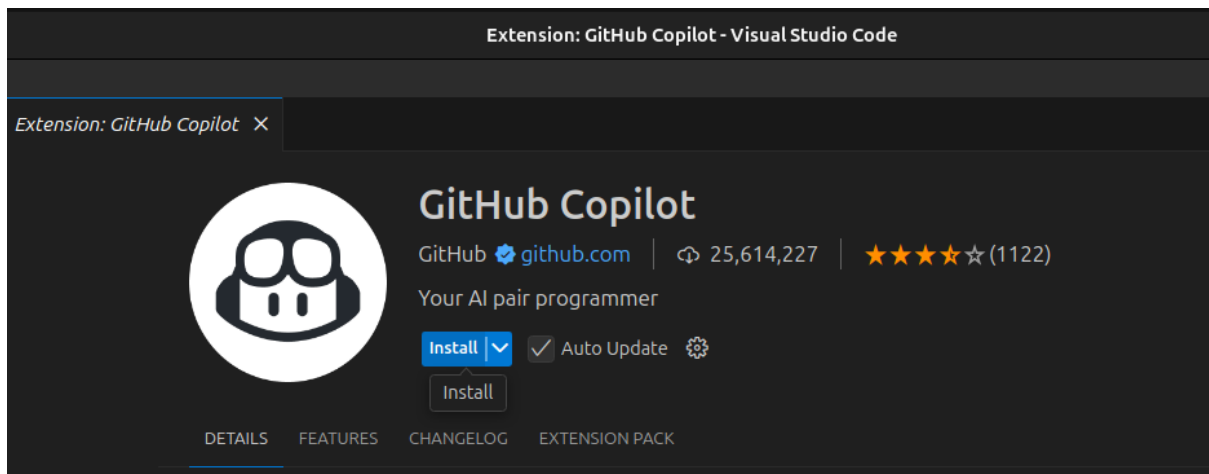
- An AWS account with access to EC2 and Lambda services.
- A configured IAM role with the necessary permissions (AmazonEC2FullAccess for simplicity).
- GitHub Copilot enabled in your development environment.

## Accessing GITHUB Copilot

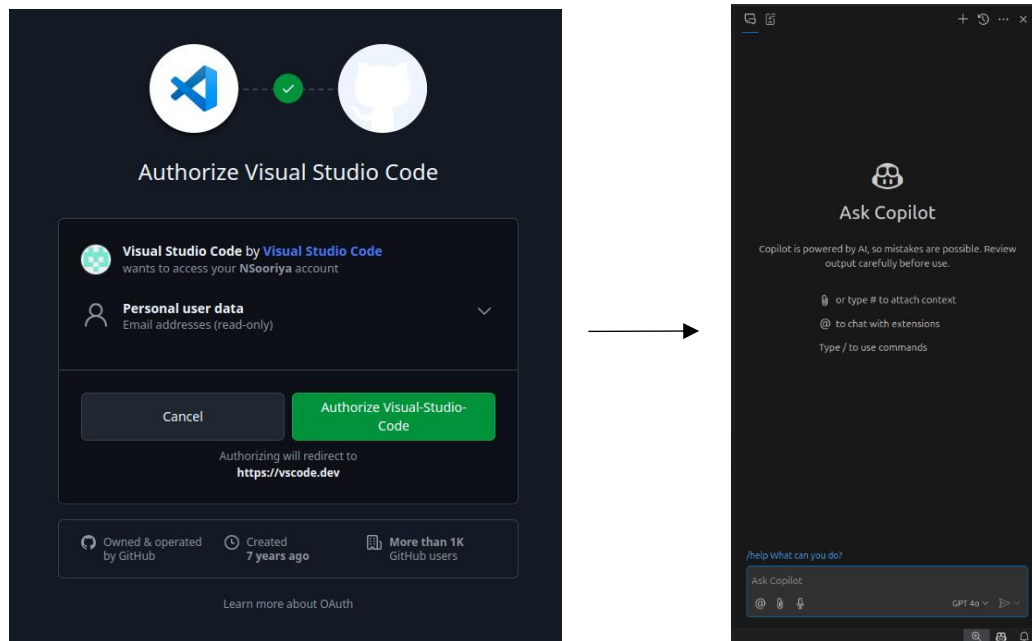
### GitHub in VS Code:

Open VS Code and go to the Extensions view by clicking the Extensions icon in the Activity Bar.

Search for "GitHub Pull Requests and Issues" and install it.

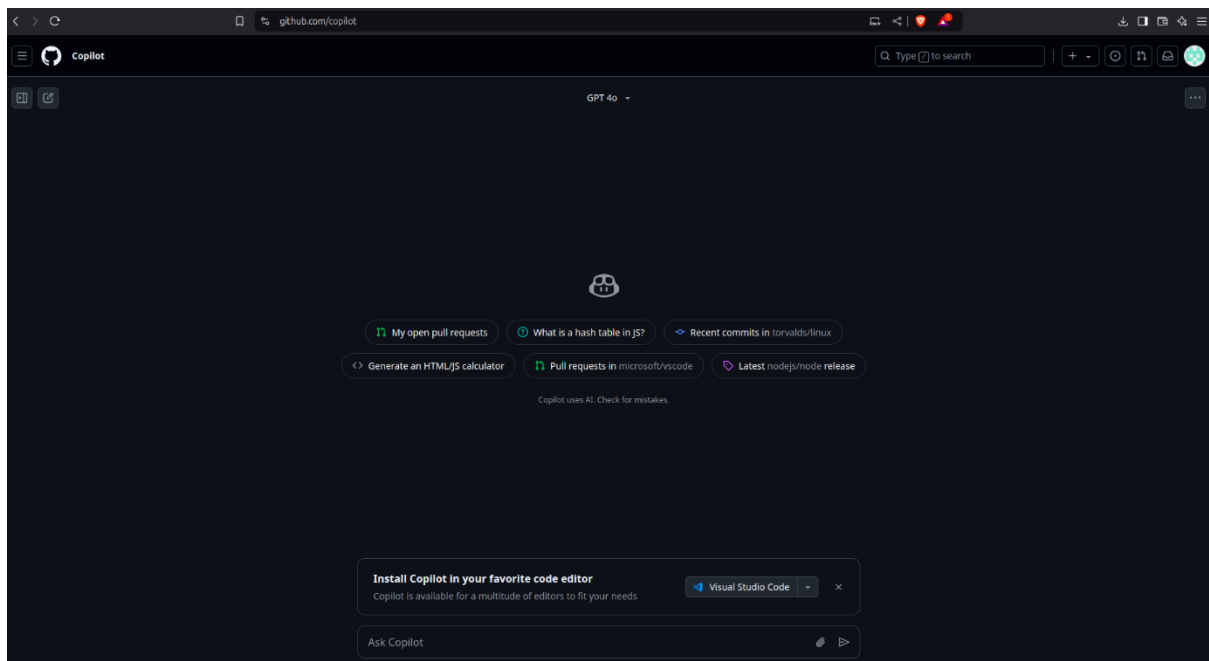


Before using the Copilot, GitHub must be logged in and Visual Studio Code must be authorized. This is necessary to establish a secure and authenticated connection between your GitHub account and the Copilot service.



## GitHub via the Official Website:

To access GitHub Copilot through the official website, sign in to your GitHub account, navigate to the [GitHub Copilot page](https://github.com/copilot).



**Free for Students:** GitHub Copilot is available for free to verified students through the GitHub Student Developer Pack, providing access to the full range of features.

**Free for Open-Source Contributors:** GitHub Copilot is also free for maintainers of public, open-source repositories. If you are actively contributing to open-source projects, you can apply for free access.

# Creating the Lambda Function

- Go to the AWS Management Console.
- In the search bar, type **Lambda** and open the **AWS Lambda** service.
- Click **Create function**.
- Select **Author from scratch**.
  - **Function name:** Provide a name for your function.
  - **Runtime:** Choose Python 3.x or any supported runtime.
  - **Role:** Create a new role with basic Lambda permissions.
- Click **Create function**.

## 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****Function name**  
Enter a name that describes the purpose of your function.  
Function name must be 1 to 64 characters, must be unique to the Region, and can't include spaces. Valid characters are a-z, A-Z, 0-9, hyphens (-), and underscores (\_).**Runtime** Info  
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.  
**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****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 templatesLambda will create an execution role named startEC2-role-c4ulgmblk, with permission to upload logs to Amazon CloudWatch Logs.**► Additional Configurations**  
Use additional configurations to set up code signing, function URL, tags, and Amazon VPC access for your function.[Cancel](#) [Create function](#)

## ADDING PERMISSION FOR THE ROLE:

Roles can be created with proper permissions and used for a Lambda function, if “Create a new role with basic Lambda permissions” was selected then adding permission to the newly created role for accessing EC2 Instances must be done before testing the Lambda function.

Select the Role which has been created for the Lambda function.

The screenshot shows the AWS IAM console 'Roles' page. On the left, the 'Access management' sidebar is visible with 'Roles' selected. The main content area shows a list of roles. The role 'startEC2-role-c4ulgbmk' is selected, highlighted in blue. The table columns are 'Role name', 'Trusted entities', and 'Last activity'. Other roles listed include 'AWSServiceRoleForAwsUserNotifications', 'AWSServiceRoleForSupport', and 'AWSServiceRoleForTrustedAdvisor'.

Click on “Add permissions” and search for “AmazonEC2FullAccess” and add it.

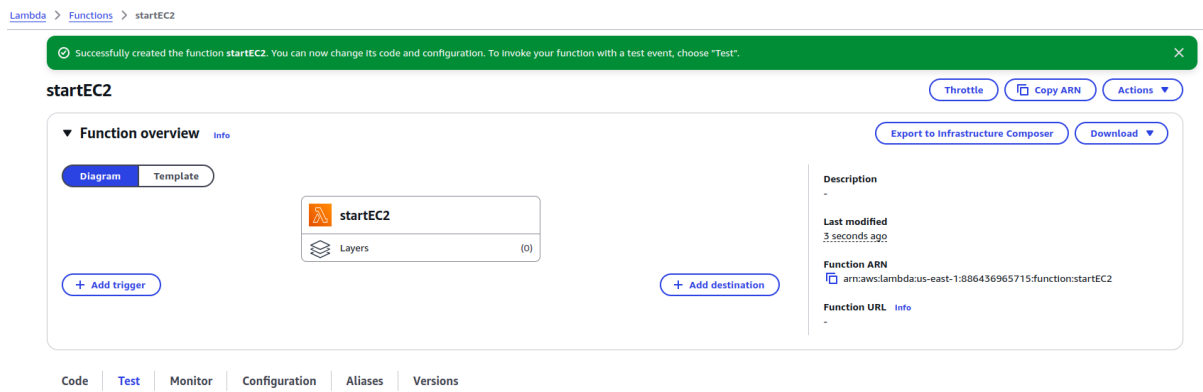
The screenshot shows the details of the 'startEC2-role-c4ulgbmk' role. The 'Permissions' tab is active. It shows a summary of the role, including its ARN and maximum session duration. Below the summary, there are tabs for 'Permissions', 'Trust relationships', 'Tags', 'Last Accessed', and 'Revoke sessions'. The 'Permissions' tab shows a list of permissions policies. The 'Add permissions' button is visible in the top right corner.

The screenshot shows the 'Add permissions' dialog in the AWS IAM console. It displays a search bar and a list of permissions policies. The 'AmazonEC2FullAccess' policy is selected. The dialog also shows a 'Filter by Type' dropdown and a 'Simulate' button.

The screenshot shows the 'Attach policy to startEC2-role-c4ulgbmk' dialog. It displays a search bar and a list of permissions policies. The 'AmazonEC2FullAccess' policy is selected. The dialog also shows a 'Filter by Type' dropdown and a 'Simulate' button.

The screenshot shows the details of the '4ulgbmk' role. The 'Permissions' tab is active. It shows a summary of the role, including its ARN and maximum session duration. Below the summary, there are tabs for 'Permissions', 'Trust relationships', 'Tags', 'Last Accessed', and 'Revoke sessions'. The 'Permissions' tab shows a list of permissions policies. The 'AmazonEC2FullAccess' policy is selected.

## WRITE LAMBDA FUNCTION CODE:



Once your function is created, you will see the function editor.

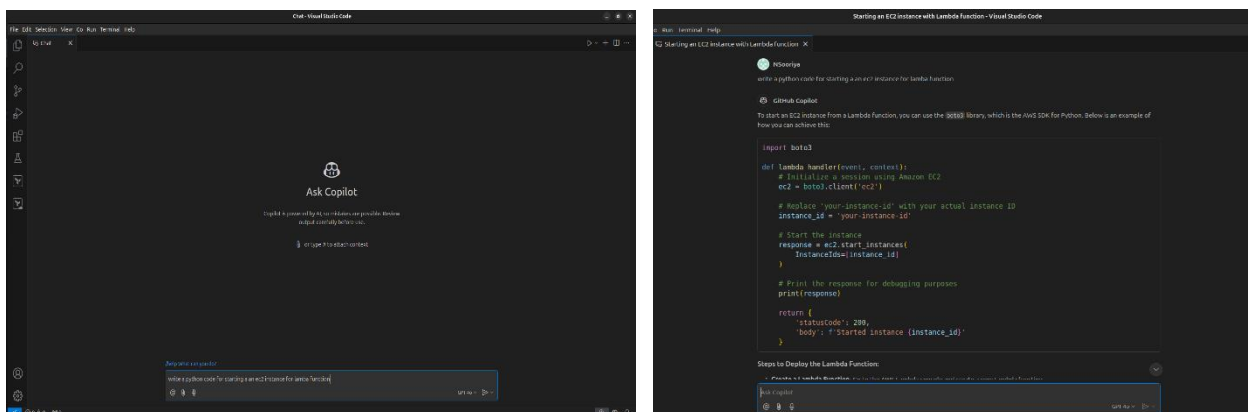
Write or paste the code in the Code Source section for Starting an EC2 instance obtained from interacting with the GitHub Copilot.

## CODE FROM GITHUB COPILOT:

### PROMPTING GITHUB COPILOT

- Opened Visual Studio Code with the GitHub Copilot extension installed and activated.
- GITHUB Copilot can be found in the bottom right in Visual Studio Code.
- Started the interaction with a comment describing the objective:

# Write a python code for starting an EC2 instance for lambda function

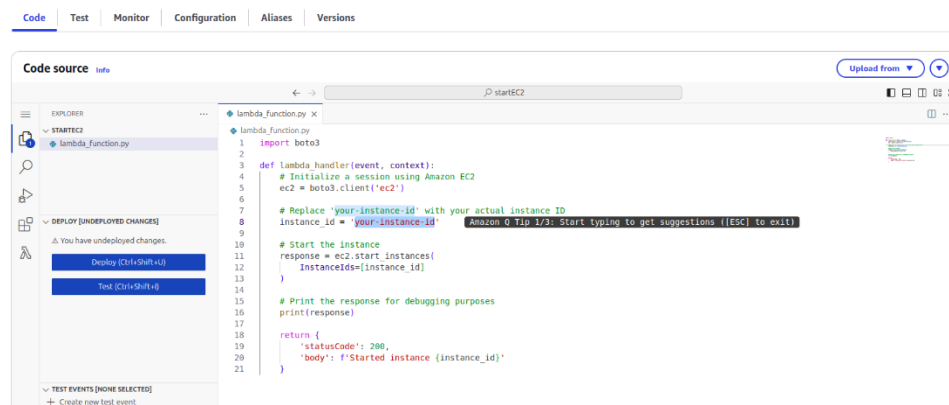


## CODE GENERATED BY COPILOT

1. Importing the boto3 library to interact with AWS services.
2. Defining the lambda\_handler function, which serves as the entry point for the Lambda function.
3. Initializing an EC2 client with boto3.client('ec2').

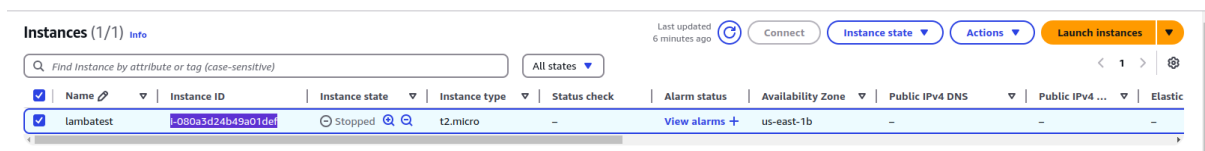
4. Starting the EC2 instance by calling the `start_instances` method and providing the instance ID.
5. Printing the response for debugging purposes.
6. Returning an HTTP response with a 200 status code and a success message.

Paste the code in Code Source section in the Lambda function.

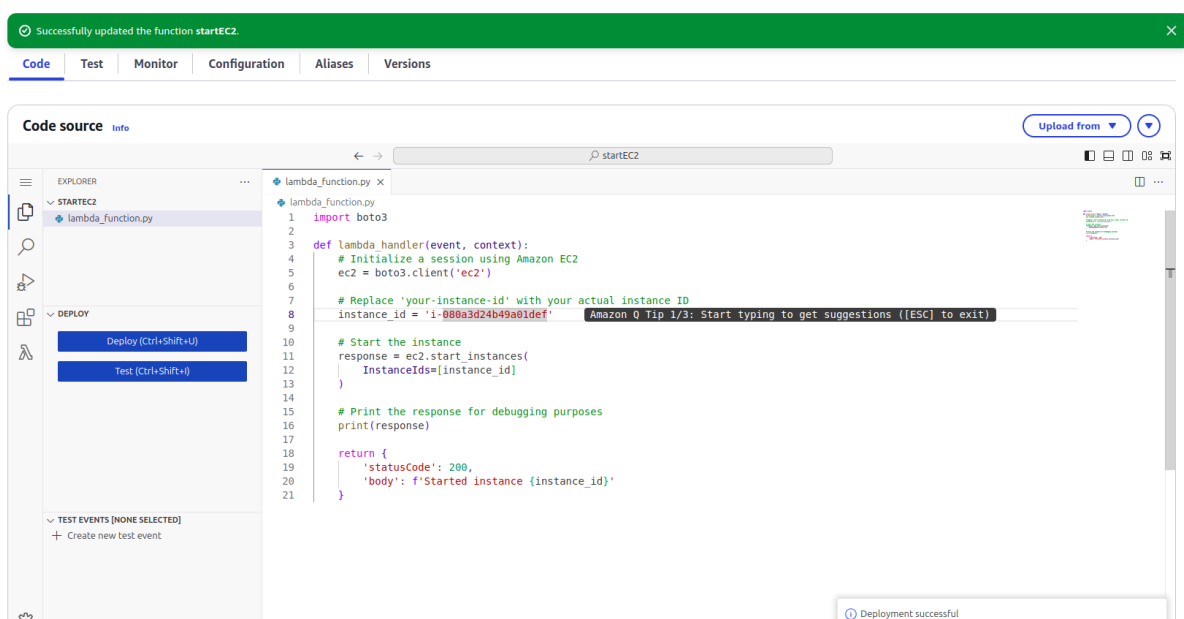


```
1 import boto3
2
3 def lambda_handler(event, context):
4     # Initialize a session using Amazon EC2
5     ec2 = boto3.client('ec2')
6
7     # Replace 'your-instance-id' with your actual instance ID
8     instance_id = 'your-instance-id'
9
10    # Start the instance
11    response = ec2.start_instances(
12        InstanceIds=[instance_id]
13    )
14
15    # Print the response for debugging purposes
16    print(response)
17
18    return {
19        'statusCode': 200,
20        'body': f'Started instance {instance_id}'
21    }
```

Change the “your\_instance\_id” to the target Instance ID from the Instances page in the AWS Console.



Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic
lambatest	i-080a3d24b49a01def	Stopped	t2.micro	-	View alarms +	us-east-1b	-	-	-



```
1 import boto3
2
3 def lambda_handler(event, context):
4     # Initialize a session using Amazon EC2
5     ec2 = boto3.client('ec2')
6
7     # Replace 'your-instance-id' with your actual instance ID
8     instance_id = 'i-080a3d24b49a01def'
9
10    # Start the instance
11    response = ec2.start_instances(
12        InstanceIds=[instance_id]
13    )
14
15    # Print the response for debugging purposes
16    print(response)
17
18    return {
19        'statusCode': 200,
20        'body': f'Started instance {instance_id}'
21    }
```

Click the Deploy button to update the Lambda function. When you make updates to your Lambda function (such as adding or modifying the code, configuration, or environment variables), you need to deploy those changes for them to take effect.

## Testing the Lambda Function

Click **Test** in the Lambda console to trigger the function manually.

Provide test event data if necessary, or leave it blank if not required for API call.

Code

Test

Monitor

Configuration

Aliases

Versions

CloudWatch Logs Live Tail

Save

Test

Test event

info

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

ec2

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

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After testing, you'll see the output in the **Execution result** section.

Code

Test

Monitor

Configuration

Aliases

Versions

Executing function: succeeded (logs)

Details

The area below shows the last 4 KB of the execution log.

```
{
  "statusCode": 200,
  "body": "Started instance 1-088a3d24b49a01def"
}
```

Summary

Code SHA-256

qYKNuA5HavZTaloE05TuC364KpXj0t33lgarnhwqTn8=

Request ID

cb97aae8-4355-457e-8934-310708881b9d

Init duration

312.67 ms

Billed duration

3959 ms

Max memory used

86 MB

Execution time

15 seconds ago

Function version

LATEST

Duration

3958.01 ms

Resources configured

128 MB

Log output

The section below shows the logging calls in your code. [Click here](#) to view the corresponding CloudWatch log group.

```
START RequestId: cb97aae8-4355-457e-8934-310708881b9d Version: LATEST
[{"StartingInstances": [{"CurrentState": {"Code": 0, "Name": "pending"}, "InstanceID": "1-088a3d24b49a01def", "PreviousState": {"Code": 80, "Name": "stopped"}}, {"ResponseMetadata": {"RequestId": "f115d06c-3446-4569-9106-90f6b3893397", "HTTPStatusCode": 200, "Headers": {"x-amzn-requestid": "f115d06c-3446-4569-9106-90f6b3893397", "cache-control": "no-cache, no-store", "strict-transport-security": "max-age=31536000; includeSubDomains", "content-type": "text/xml; charset=UTF-8", "content-length": "411", "date": "Fri, 10 Jan 2025 06:35:17 GMT", "server": "AmazonEC2"}, "RetryAttempts": 0}}]
END RequestId: cb97aae8-4355-457e-8934-310708881b9d
REPORT RequestId: cb97aae8-4355-457e-8934-310708881b9d Duration: 3958.01 ms Billed Duration: 3959 ms Memory Size: 128 MB Max Memory Used: 86 MB Init Duration: 312.67 ms
```



## NOTE:

If the Function's execution failed because of Timeout, go to the Configuration section and increase the Timeout value in general configuration.

Executing function: failed (logs [2](#))

Details

The area below shows the last 4 KB of the execution log.

```
{
  "errorType": "Sandbox.Timeout",
  "errorMessage": "RequestId: dc851390-3880-46f8-a95a-d2ea140320f3 Error: Task timed out after 3.00 seconds"
}
```

Code

Test

Monitor

Configuration

Aliases

Versions

General configuration

Triggers

Permissions

Destinations

Function URL

General configuration [info](#)

Description

-

Memory

128 MB

Ephemeral storage

512 MB

Timeout

0 min 15 sec

SnapStart

None [info](#)

Edit

Edit basic settings

Basic settings [info](#)

Description - optional

Memory [info](#)

Your function is allocated CPU proportional to the memory configured.

128

MB

Set memory to between 128 MB and 10240 MB

Ephemeral storage [info](#)

You can configure up to 10 GB of ephemeral storage (Utmp) for your function. [View pricing](#)

512

MB

Set ephemeral storage (Utmp) to between 512 MB and 10240 MB.

SnapStart [info](#)

Stable startup time by loading Lambda cache a snapshot of your function after the function has initialized. To evaluate whether your function code is resilient to snapshot operations, review the [SnapStart compatibility consideration](#). For Python and .NET runtimes, [view pricing](#)

None

Supported runtimes: .NET 8 (C#),PowerShell, Java 11, Java 17, Java 21, Python 3.12, Python 3.13.

Timeout

0

min 

15

sec

Execution role

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

Use an existing role

Create a new role from AWS policy templates

Existing role

Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

service-role/lambda-execution-role-us-govbmk

[View the service-role-us-govbmk role](#) on the IAM console.

General

Save

Click on "Save" and test the function again.

## CHECK THE EXECUTION RESULT:

If the execution of the Lambda function is successful, go to the Instances dashboard in the console and check if the target instance have started.

Instances (1/1) [Info](#)

Last updated less than a minute ago [Refresh](#) [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

[All states](#)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic
<input checked="" type="checkbox"/>	lambatest	i-080a3d24b49a01def	Running	t2.micro	Initializing	<a href="#">View alarms +</a>	us-east-1b	ec2-3-86-243-227.com...	3.86.243.227	-

The same process can be followed for a creating a Lambda function to Stop an EC2 instance.

# Creating a Lambda Function to Stop an EC2 Instance

- Go to the **Lambda console**.
- Click **Create function**.
- Choose **Author from scratch**.
  1. Give your function a name (e.g., StopEC2).
  2. Select a runtime (e.g., Python 3.9 or later).
  3. Under Permissions, choose **Use an existing role** and select the IAM role created during the previous steps.
- Click **Create function**.

Lambda > Functions > Create function

### 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

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

stopec2

Function name must be 1 to 64 characters, must be unique to the Region, and can't include spaces. Valid characters are a-z, A-Z, 0-9, hyphens (-), and underscores (\_).

**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 3.13

**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**

**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

**Existing role**  
Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

service-role/startEC2-role-c4ulgmkb

[View the startEC2-role-c4ulgmkb role](#) on the IAM console.

► **Additional Configurations**  
Use additional configurations to set up code signing, function URL, tags, and Amazon VPC access for your function.

[Cancel](#) [Create function](#)

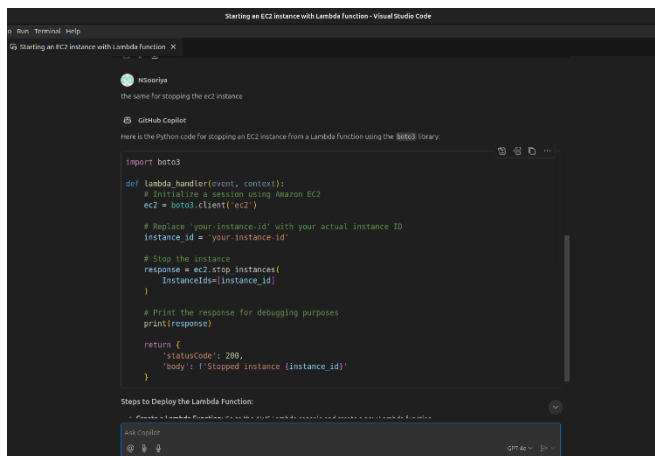
## LAMBDA FUNCTION CODE:

Once the Lambda function is created, the function editor will appear. In the code editor section, the code designed to stop an EC2 instance, obtained through interaction with GitHub Copilot, should be inserted.

## CODE GENERATED BY COPILOT (Stopping an EC2 Instance)

1. Importing the boto3 library to interact with AWS services. Defining the lambda\_handler function, which serves as the entry point for the Lambda function.

2. Initializing an EC2 client with `boto3.client('ec2')`.
3. Stopping the EC2 instance by calling the `stop_instances` method and providing the instance ID.
4. Printing the response for debugging purposes.
5. Returning an HTTP response with a 200 status code and a success message.



```

import boto3

def lambda_handler(event, context):
    # Initialize a session using Amazon EC2
    ec2 = boto3.client('ec2')

    # Replace 'your-instance-id' with your actual instance ID
    instance_id = 'your-instance-id'

    # Stop the instance
    response = ec2.stop_instances(
        InstanceIds=[instance_id]
    )

    # Print the response for debugging purposes
    print(response)

    return {
        'statusCode': 200,
        'body': f'Stopped instance {instance_id}'
    }
  
```



```

1 import boto3
2
3 def lambda_handler(event, context):
4     # Initialize a session using Amazon EC2
5     ec2 = boto3.client('ec2')
6
7     # Replace 'your-instance-id' with your actual instance ID
8     instance_id = 'your-instance-id'
9
10    # Stop the instance
11    response = ec2.stop_instances(
12        InstanceIds=[instance_id]
13    )
14
15    # Print the response for debugging purposes
16    print(response)
17
18    return {
19        'statusCode': 200,
20        'body': f'Stopped instance {instance_id}'
21    }
  
```

## DEPLOYING AND TESTING THE FUNCTION:

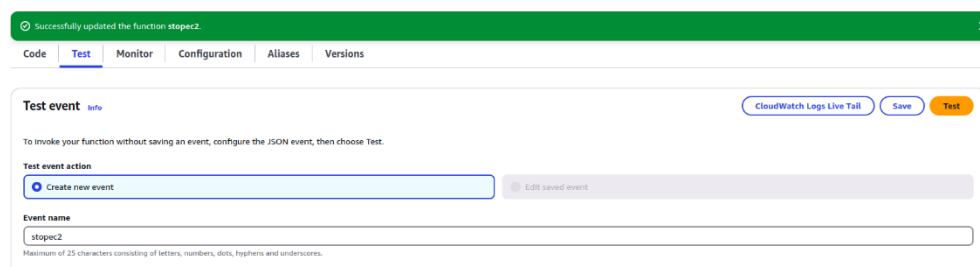
### Deploying the Function:

After pasting the code (provided by GitHub Copilot or written manually) into the Lambda function's code editor:

**Save the Code:** Click the "Deploy" button. This action saves the code and creates a new version of your Lambda function. It's crucial to deploy after every code change.

### Testing the Function :

Click **Test** in the Lambda console to trigger the function manually.



Successfully updated the function `stoppec2`.

Code | **Test** | Monitor | Configuration | Aliases | Versions

**Test event** Info CloudWatch Logs Live Tail Save Test

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

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

After testing, you'll see the output in the **Execution result** section.

Code | **Test** | Monitor | Configuration | Aliases | Versions

✓ Executing function: succeeded ([logs](#))

▼ Details

The area below shows the last 4 KB of the execution log.

```
{
  "statusCode": 200,
  "body": "Stopped instance i-080a3d24b49a01def"
}
```

**Summary**

<b>Code SHA-256</b> nkFMKvKpKrAw+bESNp1u5GhGKre/eObK/+cDbJmb0U=	<b>Execution time</b> 5 seconds ago
<b>Request ID</b> ae4ce6ce-84a4-4794-9980-0aa0b70fee03	<b>Function version</b> \$LATEST
<b>Init duration</b> 321.77 ms	<b>Duration</b> 3884.74 ms
<b>Billed duration</b> 3885 ms	<b>Resources configured</b> 128 MB
<b>Max memory used</b> 89 MB	

**Log output**

The section below shows the logging calls in your code. [Click here](#) to view the corresponding CloudWatch log group.

```
START RequestId: ae4ce6ce-84a4-4794-9980-0aa0b70fee03 Version: $LATEST
{"StoppingInstances": [{"CurrentState": {"Code": 64, "Name": "stopping"}, "InstanceId": "i-080a3d24b49a01def", "PreviousState": {"Code": 16, "Name": "running"}}, {"ResponseMetadata": {"RequestId": "f6f4b6f2-abf3-4147-a03b-6c7c3cf05493", "HTTPStatus": 200, "HTTPHeaders": [{"x-amzn-requestid": "f6f4b6f2-abf3-4147-a03b-6c7c3cf05493", "cache-control": "no-cache, no-store", "strict-transport-security": "max-age=31536000; includeSubDomains", "content-type": "text/xml; charset=UTF-8", "content-length": "411", "date": "Fri, 10 Jan 2025 06:40:03 GMT", "server": "AmazonEC2"}, {"RetryAttempts": 0}]}
END RequestId: ae4ce6ce-84a4-4794-9980-0aa0b70fee03
REPORT RequestId: ae4ce6ce-84a4-4794-9980-0aa0b70fee03 Duration: 3884.74 ms Billed Duration: 3885 ms Memory Size: 128 MB Max Memory Used: 89 MB Init Duration: 321.77 ms
```

The console will display the execution results, including logs, execution time, and any returned values.

Check the EC2 console to confirm that the instance has stopped.

Instances (1/1) [Info](#)

Find Instance by attribute or tag (case-sensitive)  All states ▼

Last updated less than a minute ago [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

<input checked="" type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic
<input checked="" type="checkbox"/>	lambatest	i-080a3d24b49a01def	Stopping	t2.micro	-	<a href="#">View alarms</a>	us-east-1b	ec2-3-86-243-227.com...	3.86.243.227	-

**NOTE:** If you are using an AWS Free Tier account, remember to delete all resources created as part of this tutorial. Leaving resources running will result in charges once Free Tier limits are surpassed.