

OBJECTIVE:

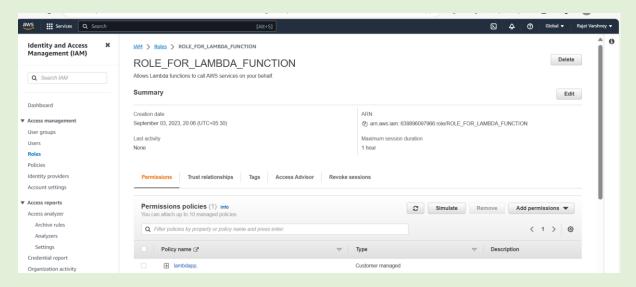
I USED LAMBDA TO STOP AND START EC2 INSTANCE AT REGULAR INTERVALS

REQUIREMENT:

- > IAM ROLE
- **EC2 INSTANCE**
- LAMBDA FUNCTION
- CLOUD TRAIL
- AMAZON EVENTBRIDGE

USE AWS LAMBDA AND AMAZON EVENTBRIGE TO AUTOMATICALLY STOP AND START AMAZON EC2 INSTANCE

STEP1: Create a custom AWS Identity and Access Management (IAM) policy and IAM role for your Lambda function.

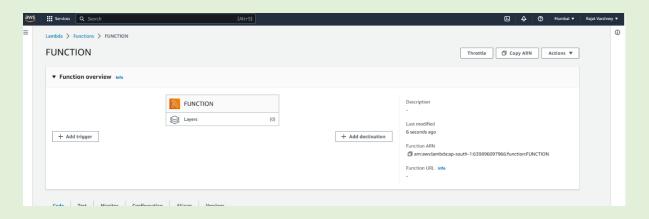


STEP2: Launch Start and Stop EC2 Instance for Ubuntu with t2.micro Instance type



STEP3: Create Lambda functions that stop and start your EC2 instances

- Choose Author from scratch.
- For Runtime, choose **Python 3.9.**
- Under Permissions, expand Change default execution role.
- Under Execution role, choose Use an existing role.
- Under Existing role, choose the **IAM role** that you created.



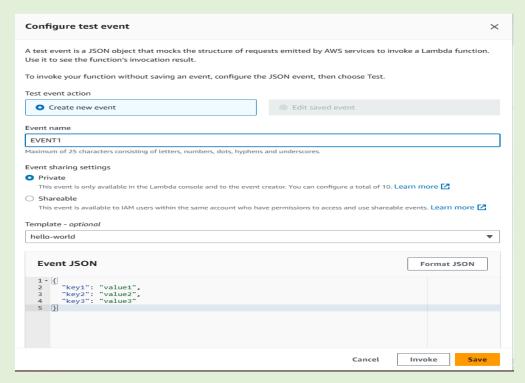
STEP4: On the Configuration tab, choose General configuration, and then choose Edit.

Set Timeout to 10 seconds, and then choose Save.



STEP5: Test your Lambda functions

- Open the Lambda console, and then choose Functions.
- Choose one of the functions that you created.
- Choose the Code tab.
- In the Code source section, choose Test.
- In the Configure test event dialog box, choose Create new test event.
- Enter an Event name. Then, choose Create.
- Choose Test to run the function.

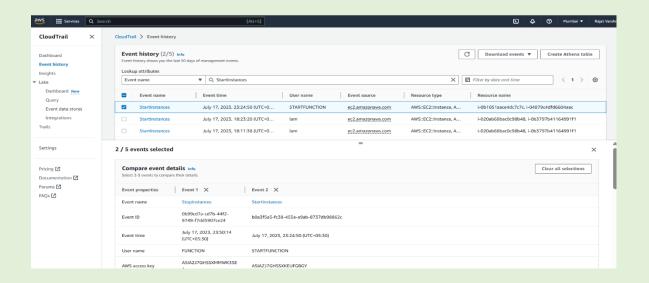


STEP6:

Check the status of your EC2 instances

 You can check the status of your EC2 instances before and after testing to confirm that your functions work as you expect

STEP7: You can use CloudTrail to check for events to confirm that the Lambda function stopped or started the EC2 instance.



STEP8: Create Amazon EventBridge rules that run your Lambda functions

- For Rule type, choose Schedule, and then choose Continue in EventBridge Scheduler.
- For Schedule pattern, choose Recurring schedule.
- Under Schedule pattern, for Occurrence, choose Recurring schedule.
- For Schedule type, choose the type that's right for your need and complete the following steps:
- When Schedule type is Rate-based schedule, for Rate expression, enter a rate value and choose an interval of time in minutes, hours, or days.

