

Steps to Create a Lambda Function for Removing Resources in a Specified Zone


NAME : T MANOJ

Step 1: Create an AWS Lambda Function

1. Go to the AWS Lambda Console.
2. Click Create Function and select Author from scratch.
3. Provide a function name .
4. Select Python as the runtime (latest version).
5. Choose an execution role with permissions for EC2, S3, and other resources.

Step 2: Add Python Code for Resource Cleanup

1. Open the Lambda code editor and add a Python script that removes resources in a specified zone.
2. Use the Boto3 library to interact with AWS services.



The screenshot displays the AWS Lambda console's code editor for a function named `lambda_function.py`. The code is written in Python and uses the Boto3 library to interact with AWS services. The script defines a `lambda_handler` function that takes `event` and `context` as arguments. It creates an `ec2` client and retrieves a list of regions. The script then iterates over these regions, presumably to perform cleanup actions. The bottom of the screenshot shows the 'Execution Results' tab, indicating that the function executed successfully with a status of 'Succeeded'.

```
1
2 import boto3
3
4 def lambda_handler(event, context):
5     ec2 = boto3.client('ec2')
6
7     # Get list of regions
8     regions = ec2.describe_regions().get('Regions', [])
9
10    # Iterate over regions
11    for region in regions:
```

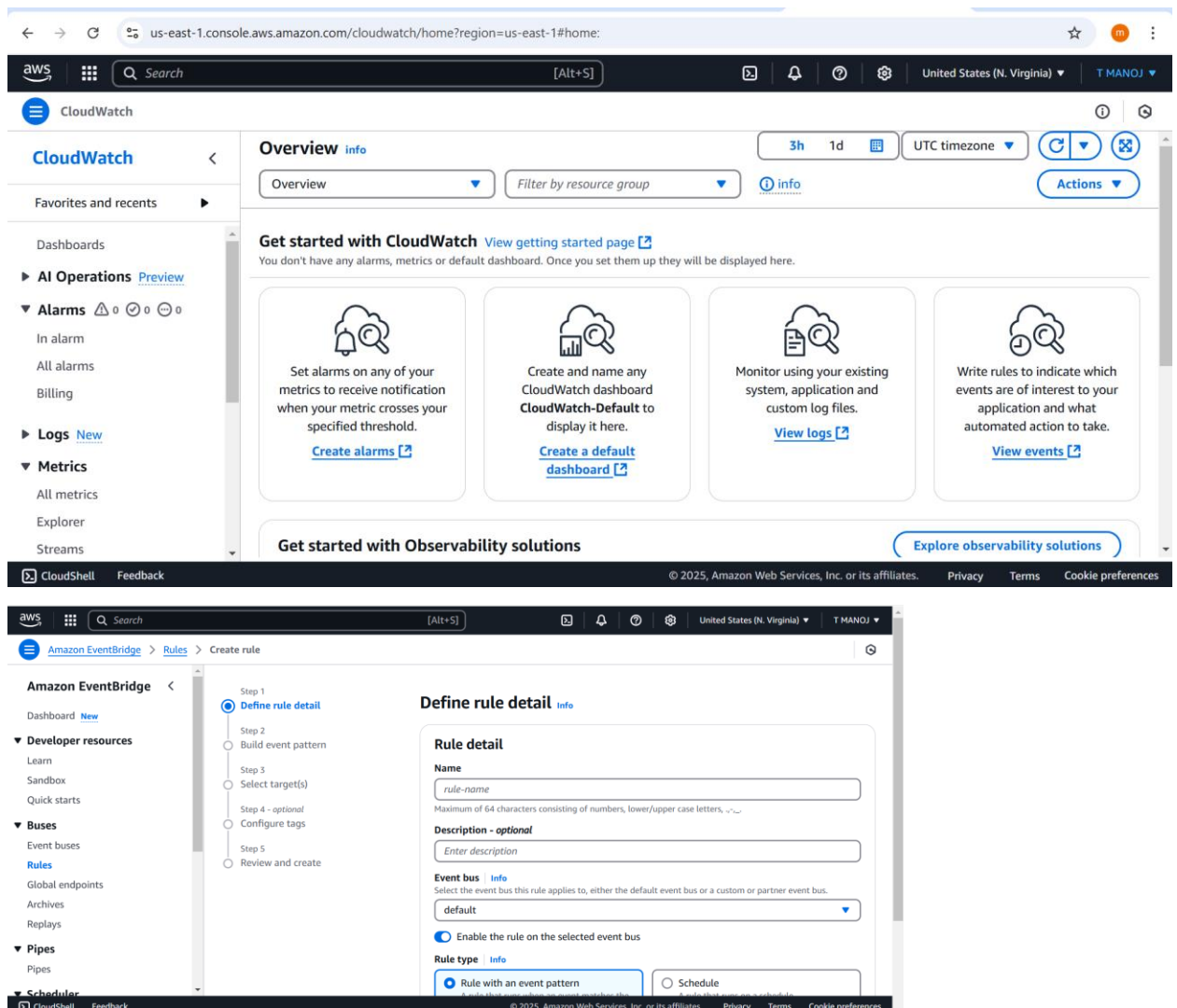
PROBLEMS OUTPUT CODE REFERENCE LOG TERMINAL Execution Results

Status: Succeeded
Test Event Name: Python

Response:

Step 3: Create a CloudWatch Events Rule

1. Go to the Amazon EventBridge (CloudWatch Events) Console.
2. Click Create Rule and provide a name .
3. Select Schedule Rule and set a cron expression to trigger every minute .
4. Choose Lambda function as the target and select the created function.
5. Save and enable the rule.



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Amazon EventBridge

Schedules

Create schedule

Schedule pattern

Occurrence

Info

You can define a one-off or recurrent schedule.

☒ One-off schedule

☐ Recurring schedule

Date and time

The date and time to invoke the target.

2025/02/18

16:20

(UTC+05:30) Asia/Calcutta

YYYY/MM/DD

Use 24-hour format timestamp (hh:mm)

Time zone

Flexible time window

If you choose a flexible time window, scheduler invokes your schedule within the time window you specify. For example, if you choose 15 minutes, your schedule runs within 15 minutes after the schedule start time.

Off

Cancel

Next

CloudShell

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Amazon EventBridge

Schedules

Create schedule

Cron expression

Info

Define the cron expression for the schedule

Copy

Clear

cron (

45

16

18

02

?

*

)

Minutes

Hours

Day of month

Month

Day of the week

Year

Next 10 trigger date

Date and time are displayed in your current time zone in UTC format, e.g. 'Wed, Nov 9, 2022 09:00 (UTC - 08:00)' for Pacific time

Tue, 18 Feb 2025 16:45:00 (UTC+05:30)

Wed, 18 Feb 2026 16:45:00 (UTC+05:30)

Thu, 18 Feb 2027 16:45:00 (UTC+05:30)

Fri, 18 Feb 2028 16:45:00 (UTC+05:30)

Sun, 18 Feb 2029 16:45:00 (UTC+05:30)

Mon, 18 Feb 2030 16:45:00 (UTC+05:30)

Tue, 18 Feb 2031 16:45:00 (UTC+05:30)

Wed, 18 Feb 2032 16:45:00 (UTC+05:30)

Fri, 18 Feb 2033 16:45:00 (UTC+05:30)

Sat, 18 Feb 2034 16:45:00 (UTC+05:30)

Flexible time window

If you choose a flexible time window, scheduler invokes your schedule within the time window you specify. For example, if you choose 15 minutes, your schedule runs within 15 minutes after the schedule start time.

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Amazon EventBridge

Schedules

Create schedule

Review and create schedule

CodeBuild
StartBuild

CodePipeline
StartPipelineEx...

Amazon ECS
RunTask

Amazon EventBridge
PutEvents

Amazon Inspector V1
StartAssesseme...

Kinesis Data Firehose
PutRecord

Kinesis Data Streams
PutRecord

**AWS Lambda
Invoke**

Amazon SNS
Publish

Amazon SQS
SendMessage

SageMaker
StartPipelineEx...

AWS Step Functions
StartExecution

Invoke

AWS Lambda

Universal target definition

CloudShell

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Amazon EventBridge

Schedules

Create schedule

AWS Lambda

Lambda function

lambdatest

Create new Lambda function

Configure version/alias

Payload

The JSON that you want to provide to your Lambda function as input. For example, --payload '{ key: value }'. [Learn more](#)

1

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The top screenshot shows the 'Settings - optional' step of the 'Create schedule' wizard. It includes a sidebar with steps: Step 1 (Specify schedule detail), Step 2 - optional (Select target), Step 3 - optional (Settings), and Step 4 (Review and create schedule). The main content area has three sections: 'Schedule state' with an 'Enable schedule' toggle set to 'Enable'; 'Action after schedule completion' with a dropdown menu; and 'Retry policy and dead-letter queue (DLQ)'.

The bottom screenshot shows the 'Review and create schedule' step. It includes a sidebar with steps: Step 1 (Specify schedule detail), Step 2 - optional (Select target), Step 3 - optional (Settings), and Step 4 (Review and create schedule). The main content area is titled 'Step 1: Schedule detail' and contains a table of schedule details:

Schedule detail		
Schedule name CLDWATCH	Description Event created for Lambda	Schedule group default
Time zone (UTC+05:30) Asia/Calcutta	Occurrence Recurring	Start date and time -
End date and time -	Flexible time window Off	
Cron expression 50 16 18 02 ? * *		

Below the cron expression, there is a 'Next 10 trigger date' section with a note: 'Date and time are displayed in the selected time zone for which this schedule is set in UTC format, e.g. 'Wed, Nov 9, 2022 09:00 (UTC - 08:00)'.

Step 4: Test and Verify Logs in CloudWatch

1. Wait for the scheduled event to trigger the Lambda function.
2. Go to AWS CloudWatch → Logs → Log Groups.
3. Select the Lambda function's log stream to verify output.
4. Check CloudWatch Metrics for execution status.

CloudWatch

Favorites and recents

Dashboards

AI Operations

Alarms

Logs

Stored bytes

Log streams

Tags

Anomaly detection

Metric filters

Subscription filters

Contributor Insights

Log streams (11)

Filter log streams or try prefix search

Log stream

Last event time

2025/02/18/[\$LATEST]4b157232e4394f37a9562766decb95b0

2025-02-18 11:20:21 (UTC)

2025/02/18/[\$LATEST]baa427434a33409b9093cfd17b5d17

2025-02-18 10:29:59 (UTC)

2025/02/18/[\$LATEST]ea42bad88bcf460da62ea03bbfe36b9c

2025-02-18 10:28:28 (UTC)

2025/02/18/[\$LATEST]28b92740d6dd4376b8b22e6a673d6a86

2025-02-18 10:20:14 (UTC)

CloudWatch

Favorites and recents

Dashboards

AI Operations

Alarms

Logs

Log events

Filter events - press enter to search

1m

1h

UTC timezone

Display

Timestamp

Message

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

2025-02-18T11:20:21.291Z

INIT_START Runtime Version: python:3.12.v38 Runtime Version ARN: arn:aws:lambda:us-east-1::...

2025-02-18T11:20:21.632Z

START RequestId: f067b46c-e051-45a7-8ffb-7be352e5712a Version: \$LATEST

2025-02-18T11:20:25.545Z

***** Checking region -- ap-south-1

2025-02-18T11:20:25.545Z

***** Starting Auto Scaling Group now *****

2025-02-18T11:20:26.958Z

***** Starting LoadBalancers now [NLB & ALB] *****

2025-02-18T11:20:28.310Z

***** Starting LoadBalancers now [Classic LB] *****

2025-02-18T11:20:29.615Z

***** Starting Target Groups now *****

2025-02-18T11:20:30.860Z

***** Starting NAT Gateways now *****