

ADVANCE DEVOPS EXPERIMENT - 11

Prajwal Pandey D15A / 33

Steps:

1. Open up the Lambda Console and click on the Create button.
2. Choose to create a function from scratch or use a blueprint, i.e templates defined by AWS for you with all configuration presets required for the most common use cases.

Then, choose a runtime env for your function, under the dropdown, you can see all the options AWS supports, Python, Nodejs, .NET and Java being the most popular ones.

After that, choose to create a new role with basic Lambda permissions if you don't have an existing one.

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.

lambdaPrajwal

Use only letters, numbers, hyphens, or underscores with no spaces.

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 3.12

Architecture [Info](#)
Choose the instruction set architecture you want for your function code.

☒ x86_64

✔ Successfully created the function **lambdaPrajjwal**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

[Lambda](#) > [Functions](#) > lambdaPrajjwal

lambdaPrajjwal

Throttle

Copy ARN

Actions ▼

▼ Function overview [Info](#)

Export to Application Composer

Download ▼

Diagram

Template



lambdaPr
ajjwal



Layers (0)

+ Add trigger

+ Add destination

Description

-

Last modified

42 seconds ago

Function ARN

arn:aws:lambda:ap-south-1:183631330334:function:lambdaPrajjwal

Function URL [Info](#)

-

✔ Successfully created the function **lambdaPrajjwal**. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

File Edit Find View Go Tools Window

Test ▼

Deploy

Go to Anything (Ctrl-P)

lambda_function ×

Environment Vari ×

Environment

lambdaPrajjwal /
lambda_function.py

```
1 import json
2
3 def lambda_handler(event, context):
4     # TODO implement
5     return {
6         'statusCode': 200,
7         'body': json.dumps('Hello from Lambda!')
8     }
9
```

- To change the configuration, open up the Configuration tab and under General Configuration, choose Edit. Here, you can enter a description and change Memory and Timeout. I've changed the Timeout period to 1 sec since that is sufficient for now.

CodeTestMonitorConfigurationAliasesVersions

General configuration

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

General configuration InfoEdit

Description

-

Ephemeral storage

512 MB

SnapStart Info

None

Memory

128 MB

Timeout

0 min 3 sec

Set memory to between 128 MB and 10240 MB

Ephemeral storage Info

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

512

MB

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

SnapStart Info

Reduce startup time by having 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 considerations](#).

None

Supported runtimes: Java 11, Java 17, Java 21.

Timeout

0

min

1

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/lambdaPrajjwal-role-upwhq7h6

- Click on Test and you can change the configuration, like so. If you do not have anything in the request body, it is important to specify two curly braces as valid JSON, so make sure they are there.

Successfully updated the function **lambdaPrajjwal**.

Code

Test

Monitor

Configuration

Aliases

Versions

Test event [Info](#)

SaveTest

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

PrajjwalEvent

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

3

4

5

```
{
  "key1": "value1",
  "key2": "value2",
  "key3": "value3"
}
```

1:1 JSON Spaces: 2

5. Now click on Test and you should be able to see the results.

The screenshot displays the AWS Lambda console interface. At the top, there is a menu bar with options: File, Edit, Find, View, Go, Tools, Window, and a blue 'Test' button. Below the menu bar is a search bar labeled 'Go to Anything (Ctrl-P)'. The main content area is divided into three tabs: 'lambda_function.x', 'Environment Vari', and 'Execution results'. The 'Execution results' tab is active, showing the following information:

- Execution results**: Status: Succeeded, Max memory used: 32 MB, Time: 2.21 ms
- Test Event Name**: (unsaved) test event
- Response**:

```
{  "statusCode": 200,  "body": "\"Hello from Lambda!\""}
```
- Function Logs**:

```
START RequestId: 69b9301c-54f3-4dd0-a4c5-c31265da8b9c Version: $LATEST
END RequestId: 69b9301c-54f3-4dd0-a4c5-c31265da8b9c
REPORT RequestId: 69b9301c-54f3-4dd0-a4c5-c31265da8b9c  Duration: 2.21 ms  Billed Dura
```
- Request ID**: 69b9301c-54f3-4dd0-a4c5-c31265da8b9c