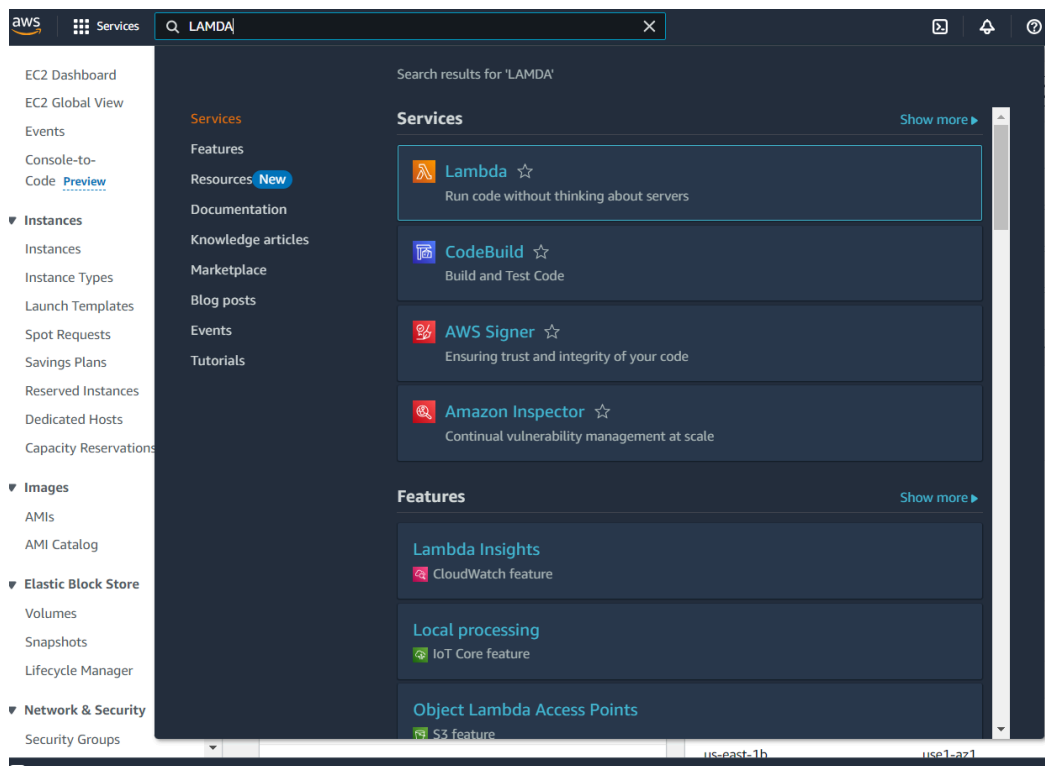


Aim: To understand AWS Lambda, its workflow, various functions and create your first Lambda functions using Python / Java / Nodejs.

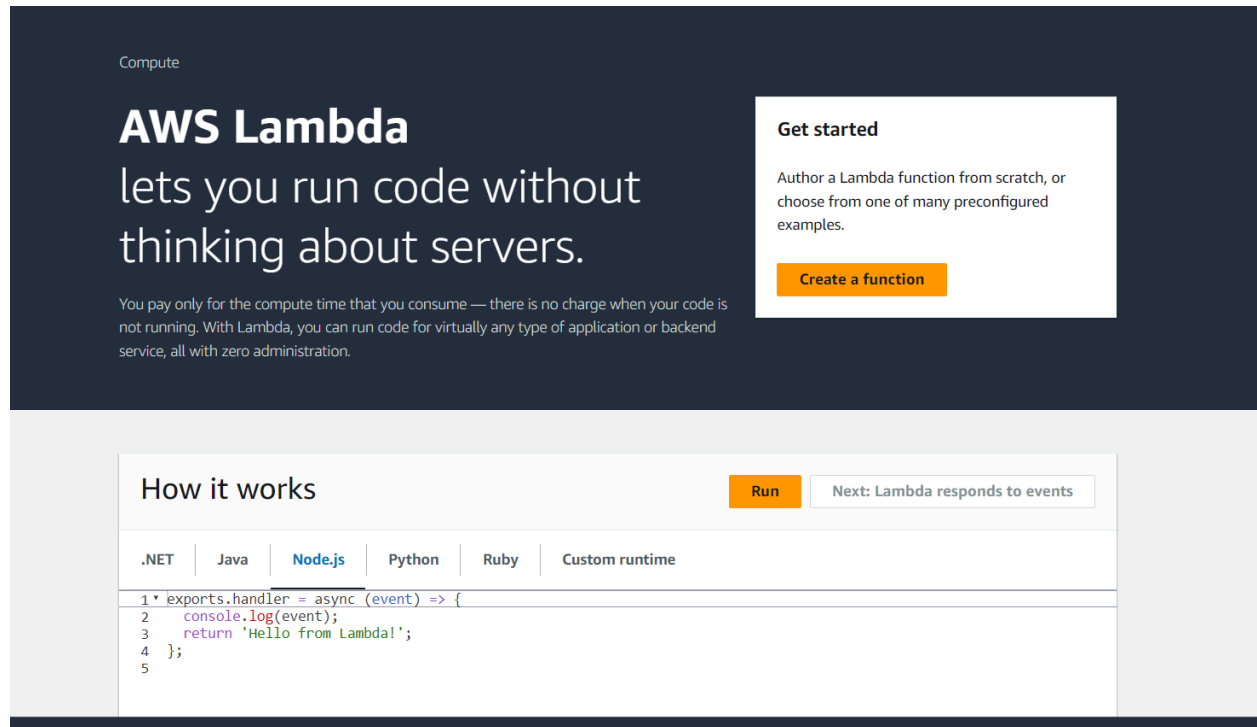
Step 1: Accessing AWS

Log in to your AWS Personal/Academy account. Navigate to the Lambda service by searching for "Lambda" in the AWS Management Console.



Step 2: Creating a New Lambda Function

Click on the "Create function" button. Provide a name for your Lambda function and select the language you wish to use, such as Python 3.12. For architecture, choose x86, and for execution role, opt to create a new role with basic Lambda g permissions.



Step 3: Configuring Basic Settings

To modify the basic settings, navigate to the "Configuration" tab and click on "Edit" under General Settings. Here, you can add a description and adjust the memory and timeout settings. For this experiment, I set the timeout to 1 second, which is sufficient for testing.

The image shows the "Basic information" configuration page for an AWS Lambda function. It has a light gray background with a white content area. The "Function name" section has a text input field with "lamda_demo" (note the typo) and a note: "Enter a name that describes the purpose of your function. Use only letters, numbers, hyphens, or underscores with no spaces." The "Runtime" section has a dropdown menu with "Python 3.12" selected and a refresh button. The "Architecture" section has two radio buttons: "x86_64" (selected) and "arm64". The "Permissions" section has a note: "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." At the bottom, there's a link: "► Change default execution role".

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

❗

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

Lambda will create an execution role named `ATHARV_LAMDA-role-0u7c9ooi`, 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

aws

Services

Search

[Alt+S]

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

Info

Tutorials

Lambda > Functions > lamda_demo

lamda_demo

Throttle

Copy ARN

Actions

▼ Function overview [Info](#)

Diagram

Template

lamda_demo

Layers (0)

+ Add trigger

+ Add destination

Description

-

Last modified

26 seconds ago

Function ARN

`arn:aws:lambda:eu-north-1:010928207735:function:lamda_demo`

Function URL [Info](#)

-

Export to Application Composer

Download

Code

Test

Monitor

Configuration

Aliases

Versions

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

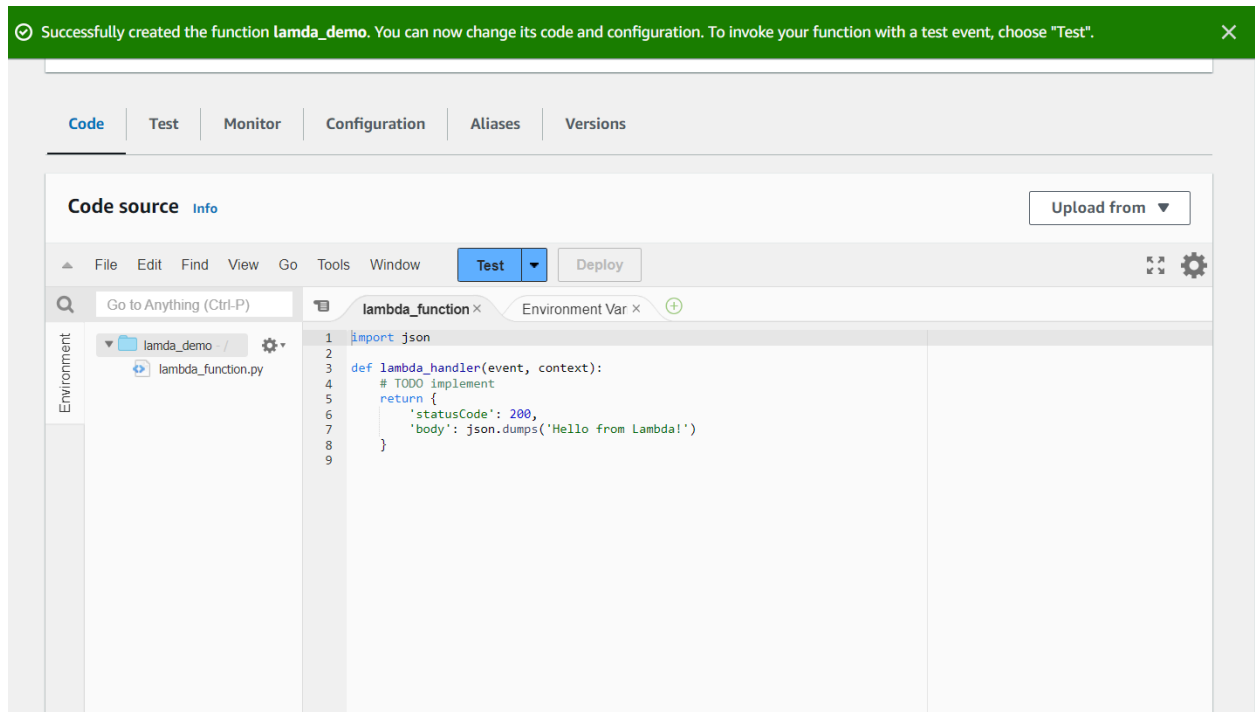
[Learn more](#)

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CloudShell

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Step 4: Testing the Function

Click on the "Test" tab and select "Create a new event." Name your event, set the event sharing to private, and choose the "hello-world" template.

Test event Info 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

MyEventName

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](#)

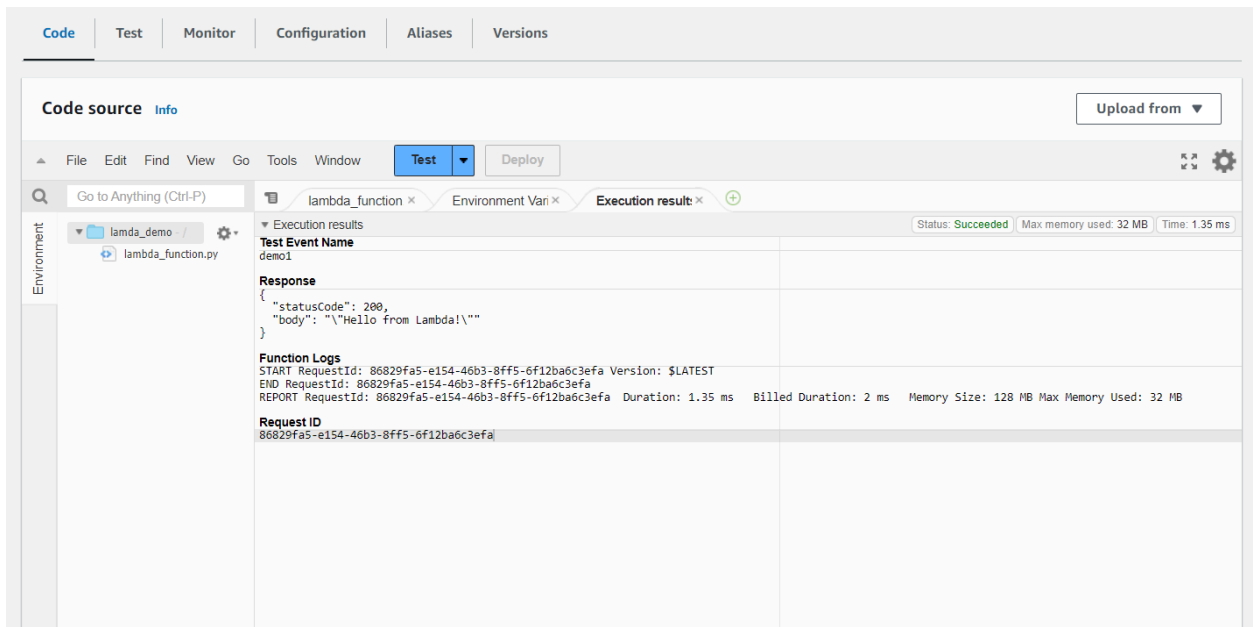
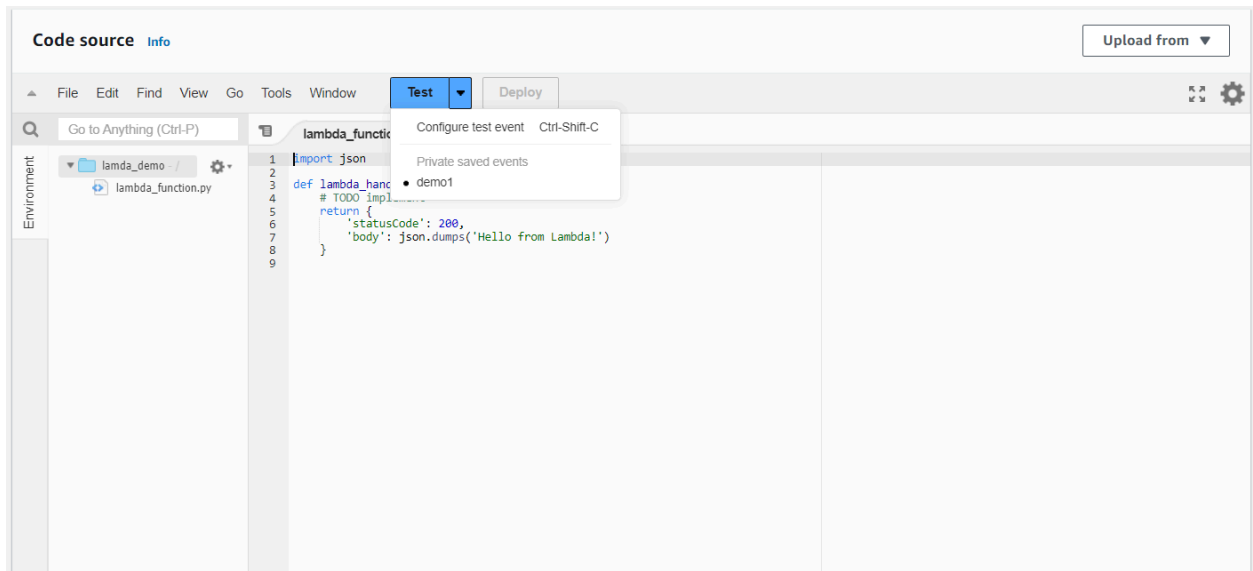
Template - optional

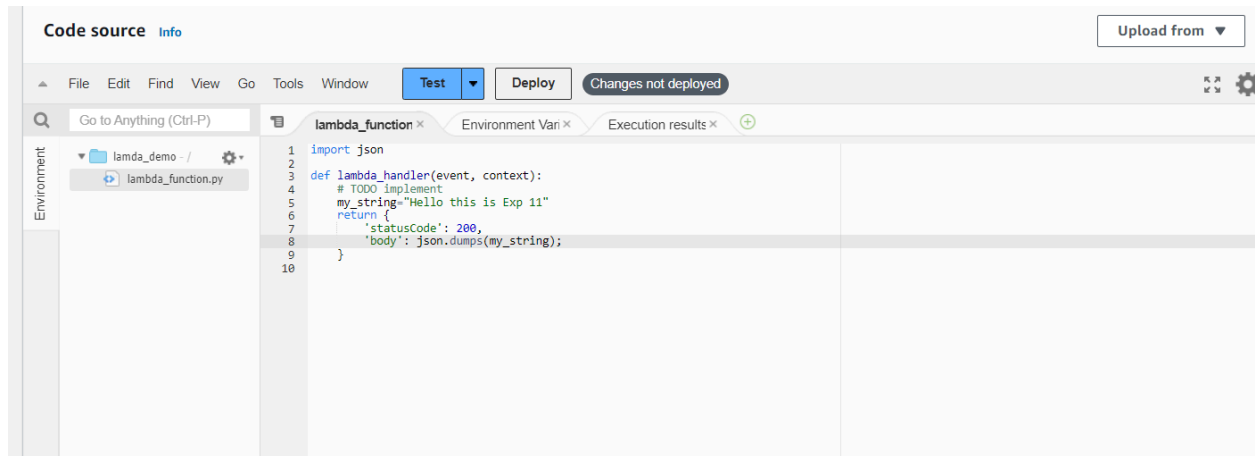
hello-world

Event JSON

Format JSON

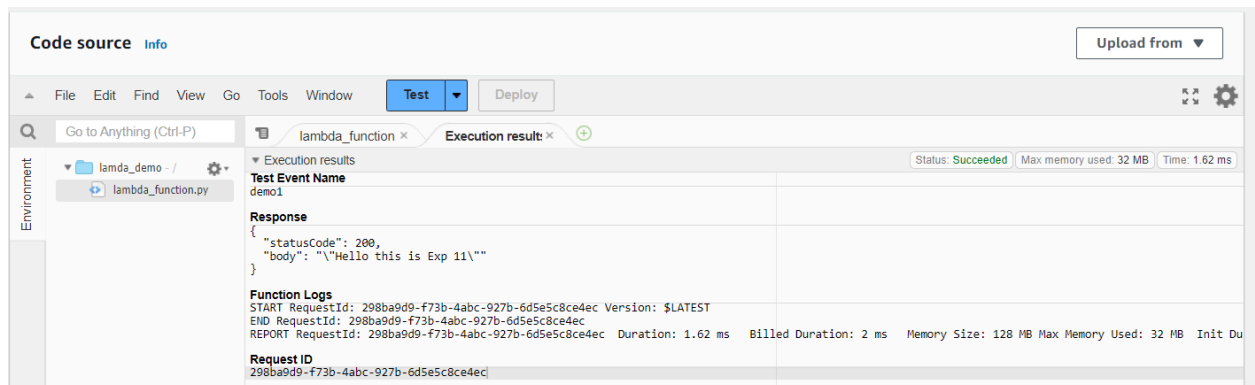
```
1 {
2   "key1": "value1",
3   "key2": "value2",
4   "key3": "value3"
5 }
```





Step 5: Running the Test

In the Code section, select the newly created event from the dropdown menu and click on "Test." You should see the output displayed below.



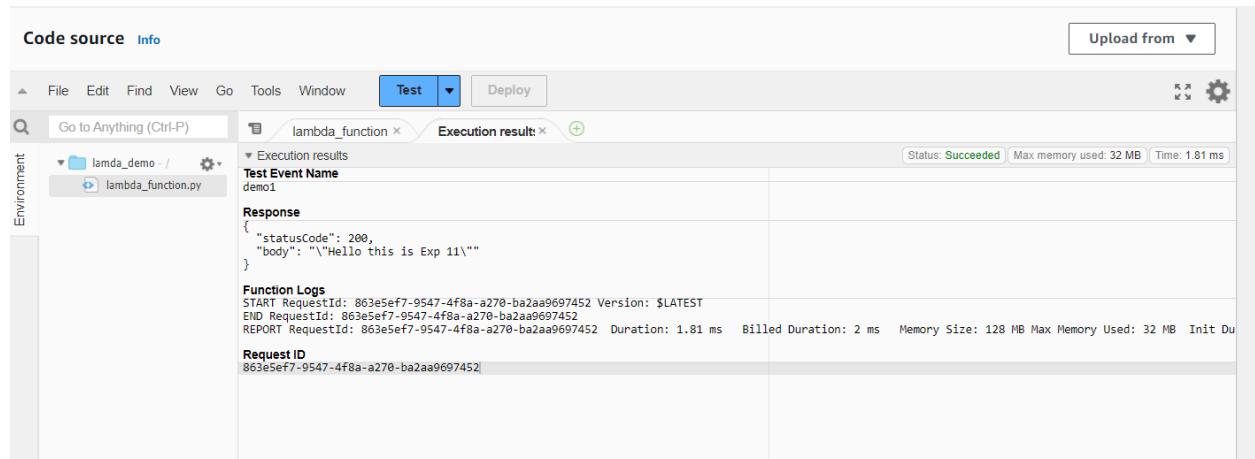
Step 6: Editing and Deploying the Code

You can modify your Lambda function's code as needed. I updated the code to display a new string. After making changes, press `Ctrl + S` to save and then click on "Deploy" to apply the updates.



Step 7: Final Testing

Return to the "Test" tab and execute the test again to observe the output. You should see a status code of 200 along with your string output and function logs confirming a successful deployment.



Conclusion