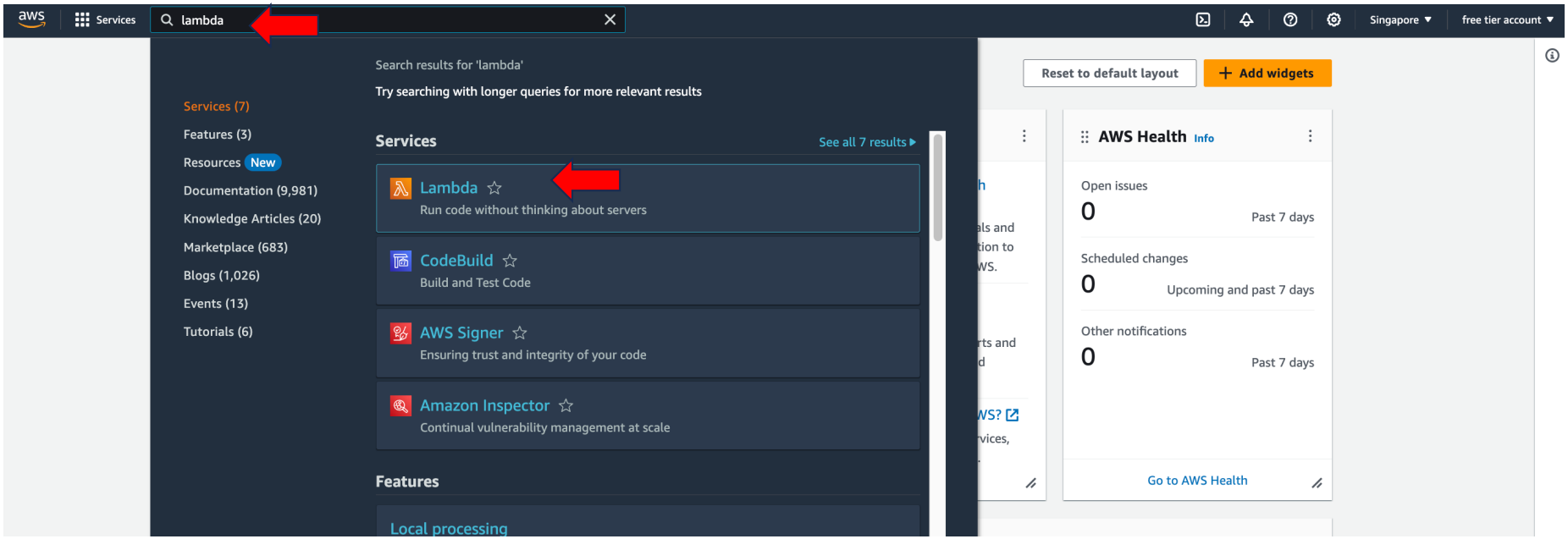

AWS Lambda "Hello, World!"

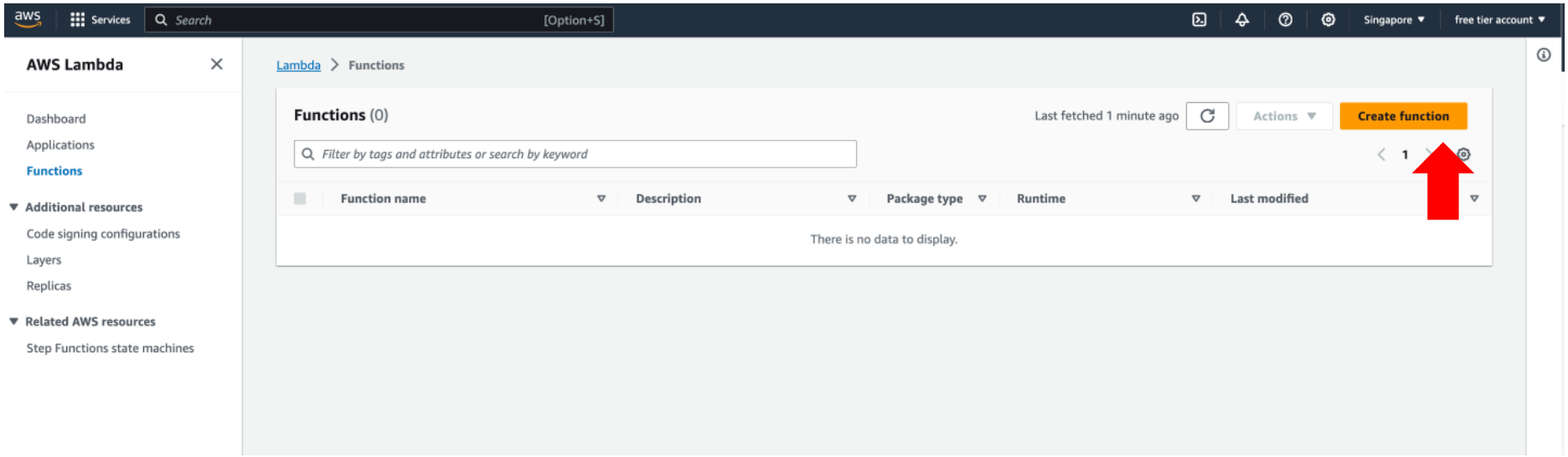
AWS Lambda Service

Go to https://aws.amazon.com/tutorials/run-serverless-code/

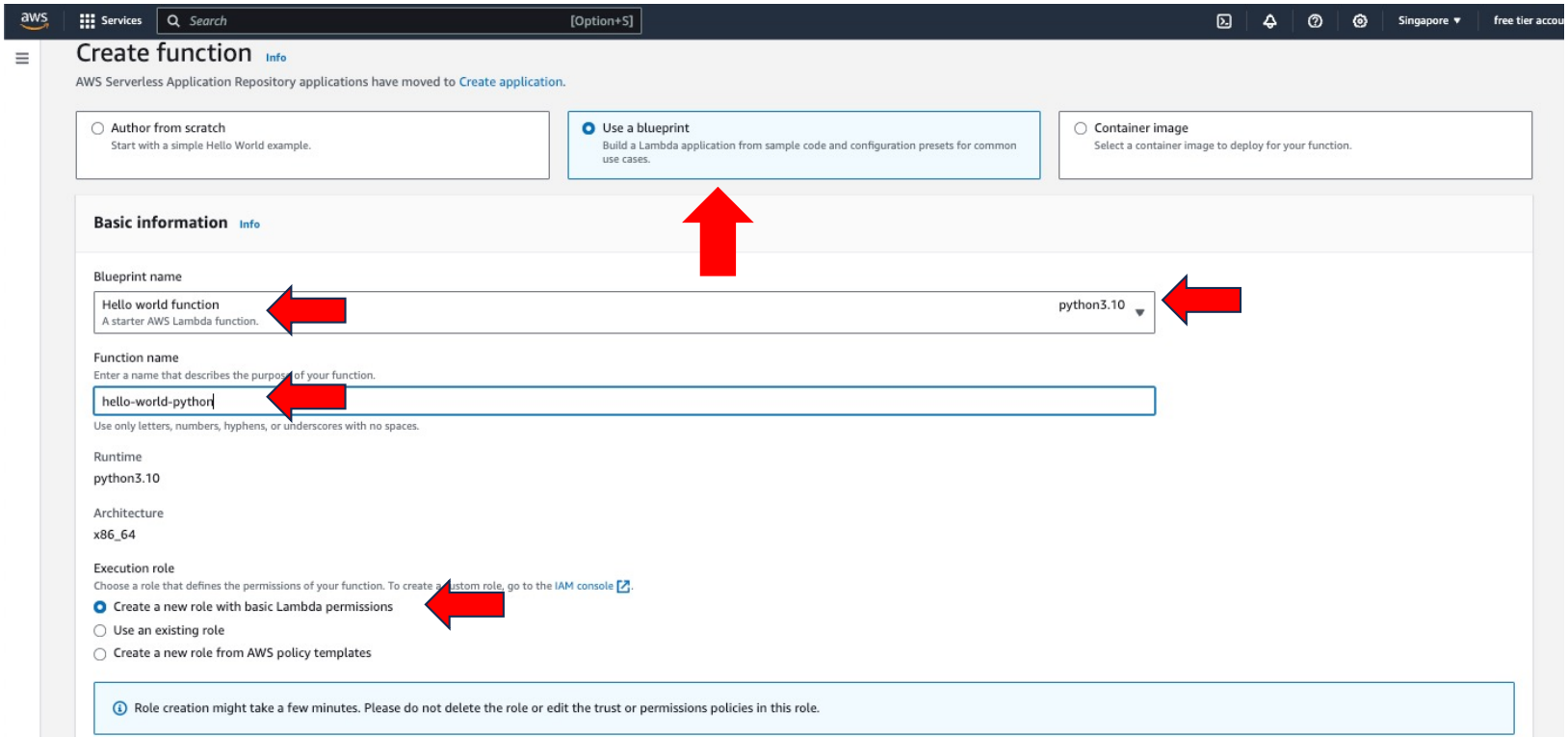
When you click here, the AWS Management Console will open in a new browser window, so you can keep this step-by-step guide open. In the top navigation bar, search for Lambda and open the AWS Lambda Console.

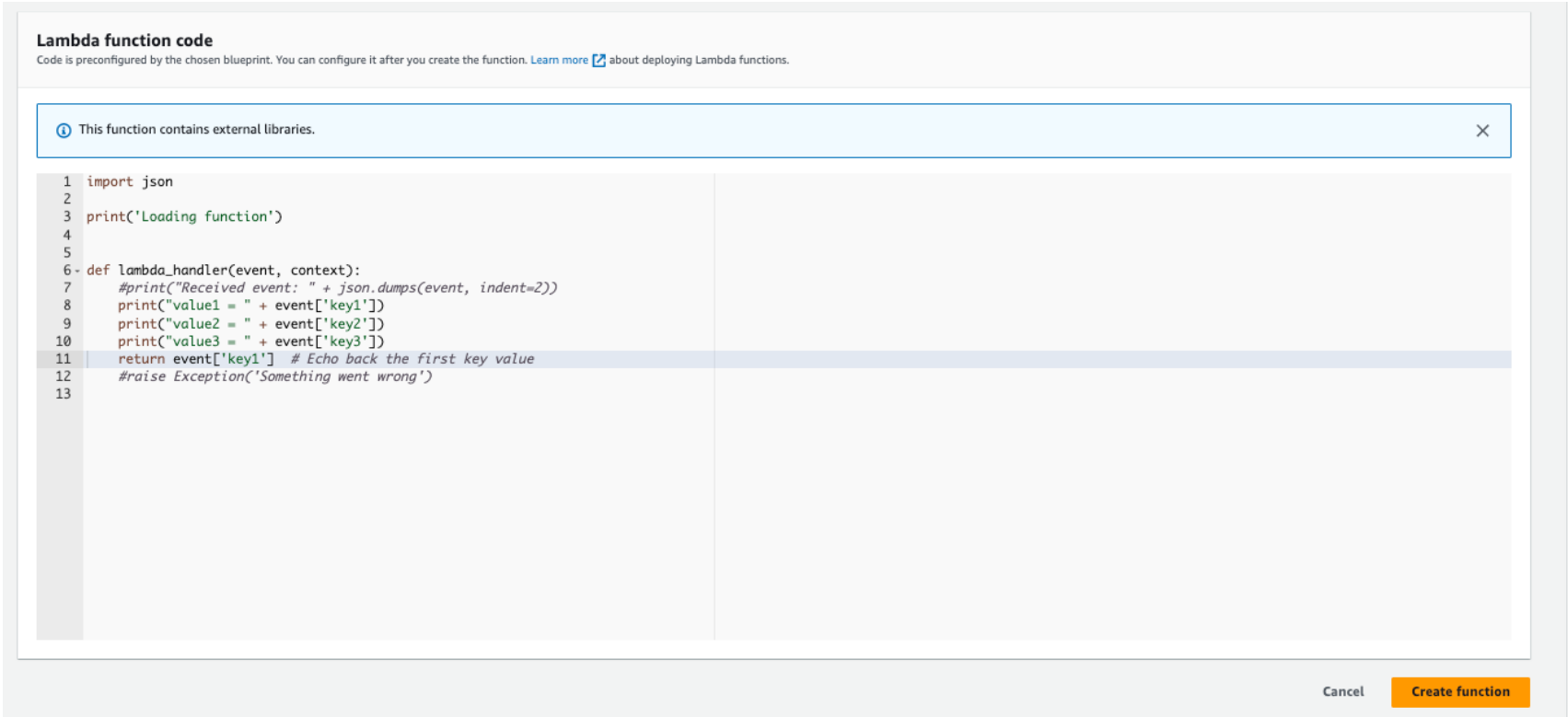


In the AWS Lambda console, choose **Create function.**



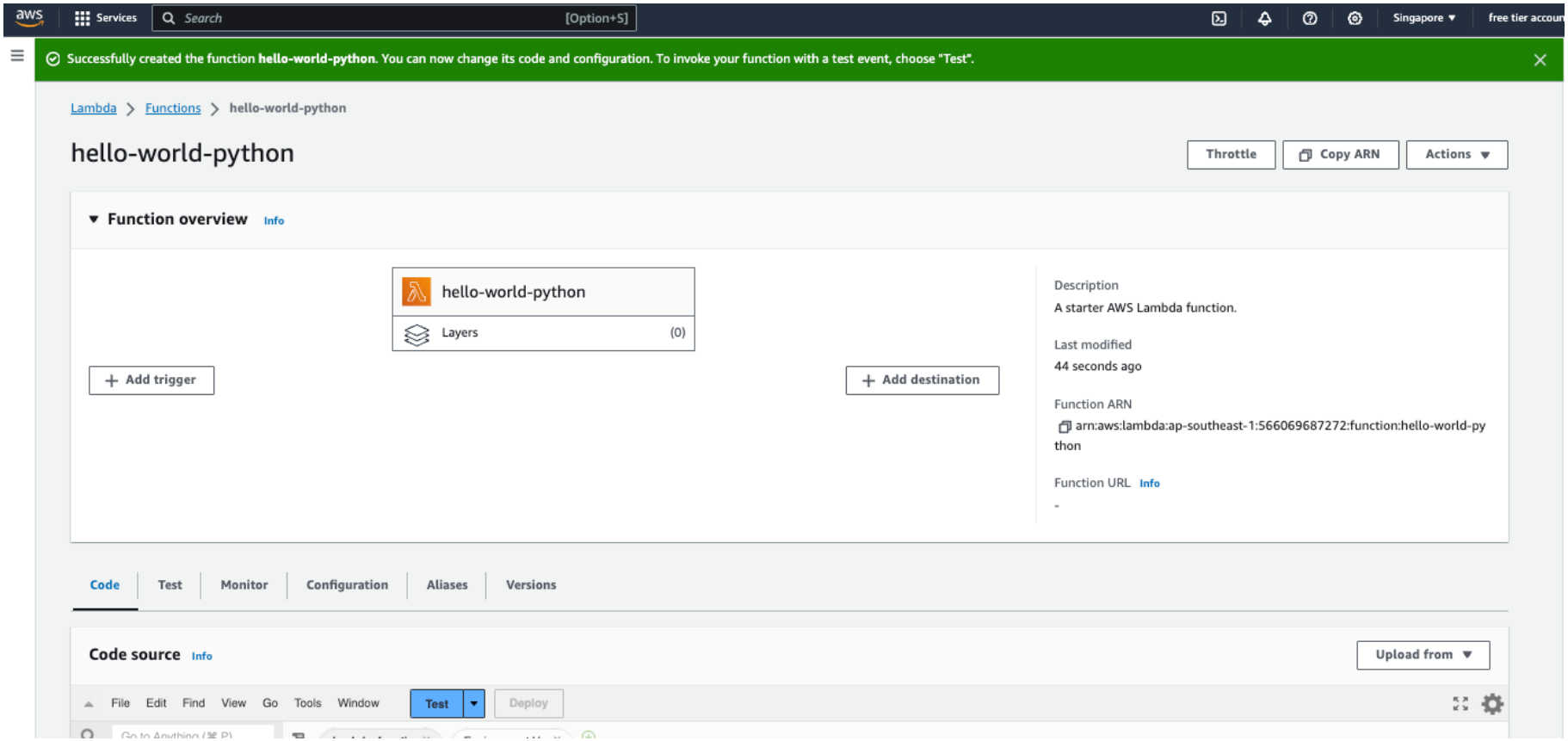
1. Select ”use a blueprint”
2. In the Blueprint name box, ensure ”*Hello world function”* with “python 3.10” blueprint is selected.
3. In the Function name box, enter ”*hello-world-python”*.
4. For Execution role, select *”Create a new role with basic Lambda permissions.*



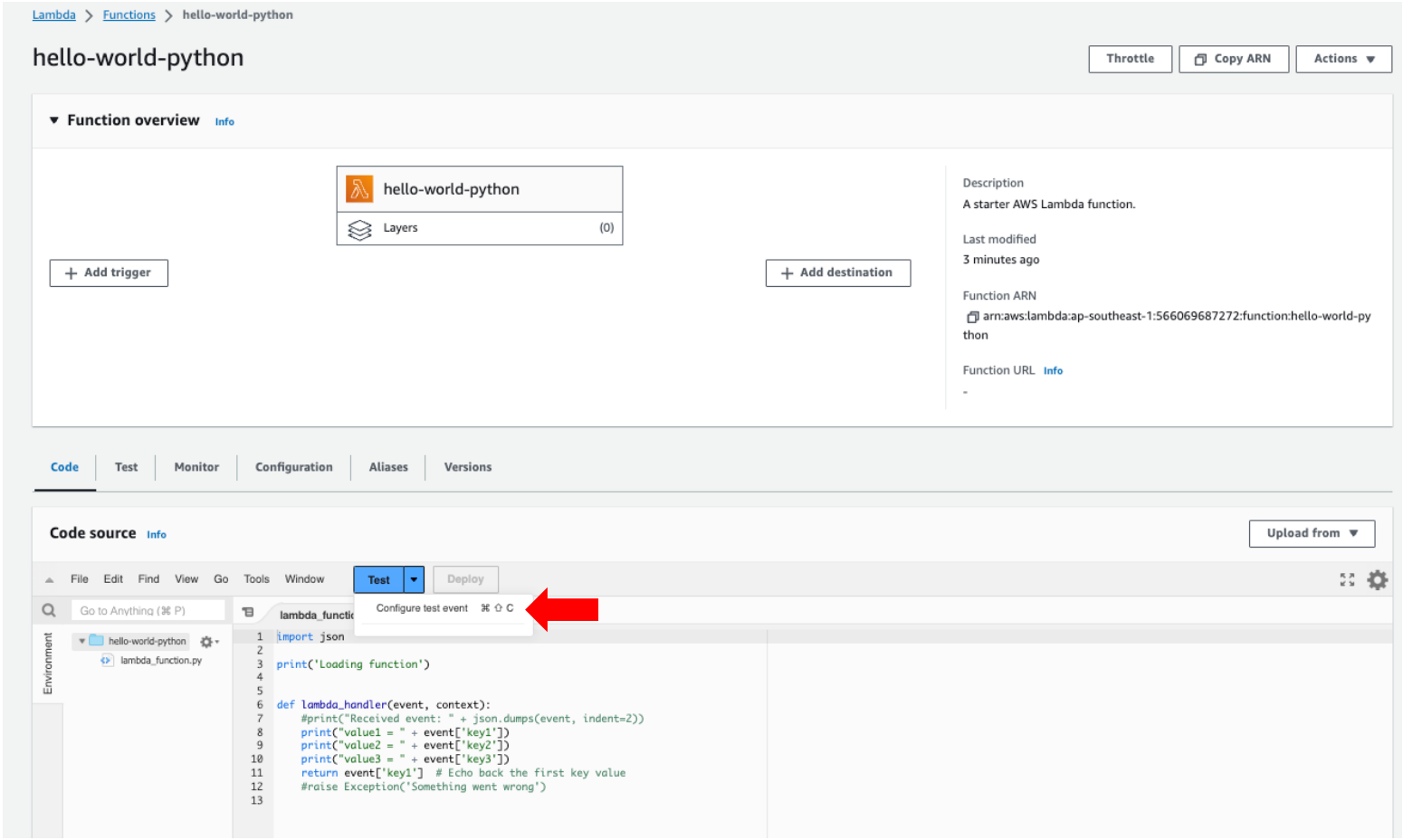


Press the Create Function button

The lambda function *hello-world-python* has been created successfully

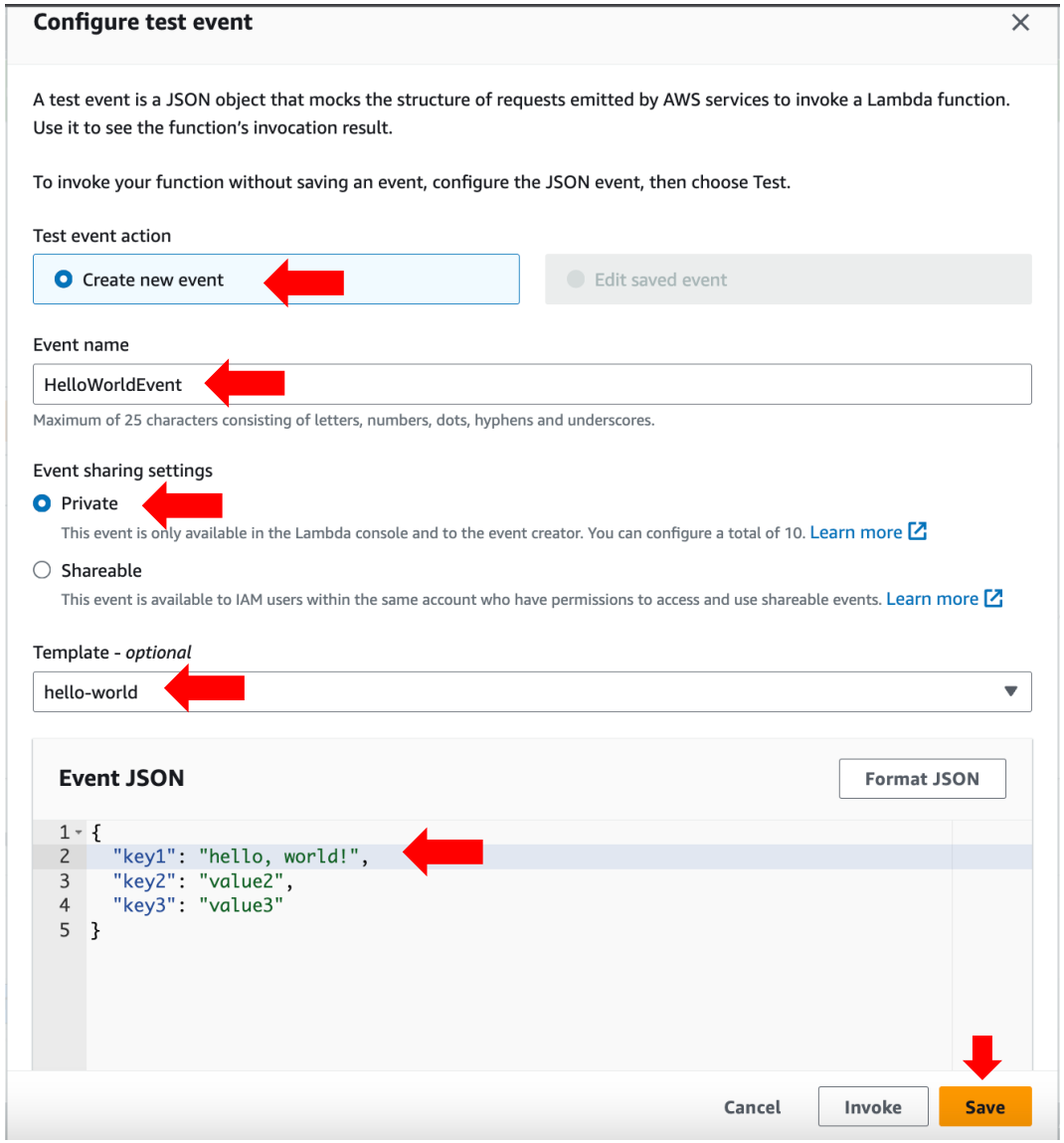


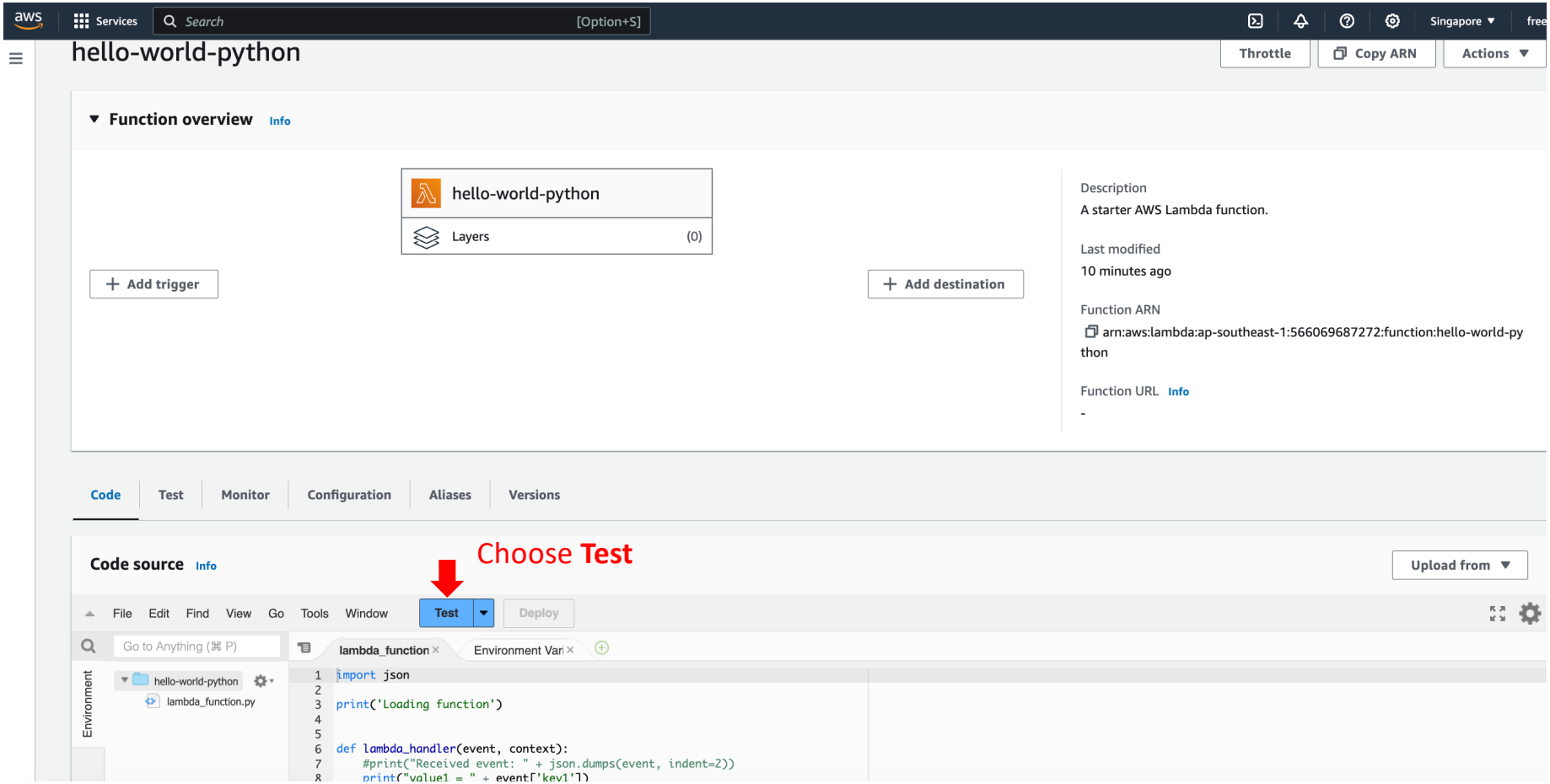
- Select **Configure Test Event** from the drop-down menu called **Test**.



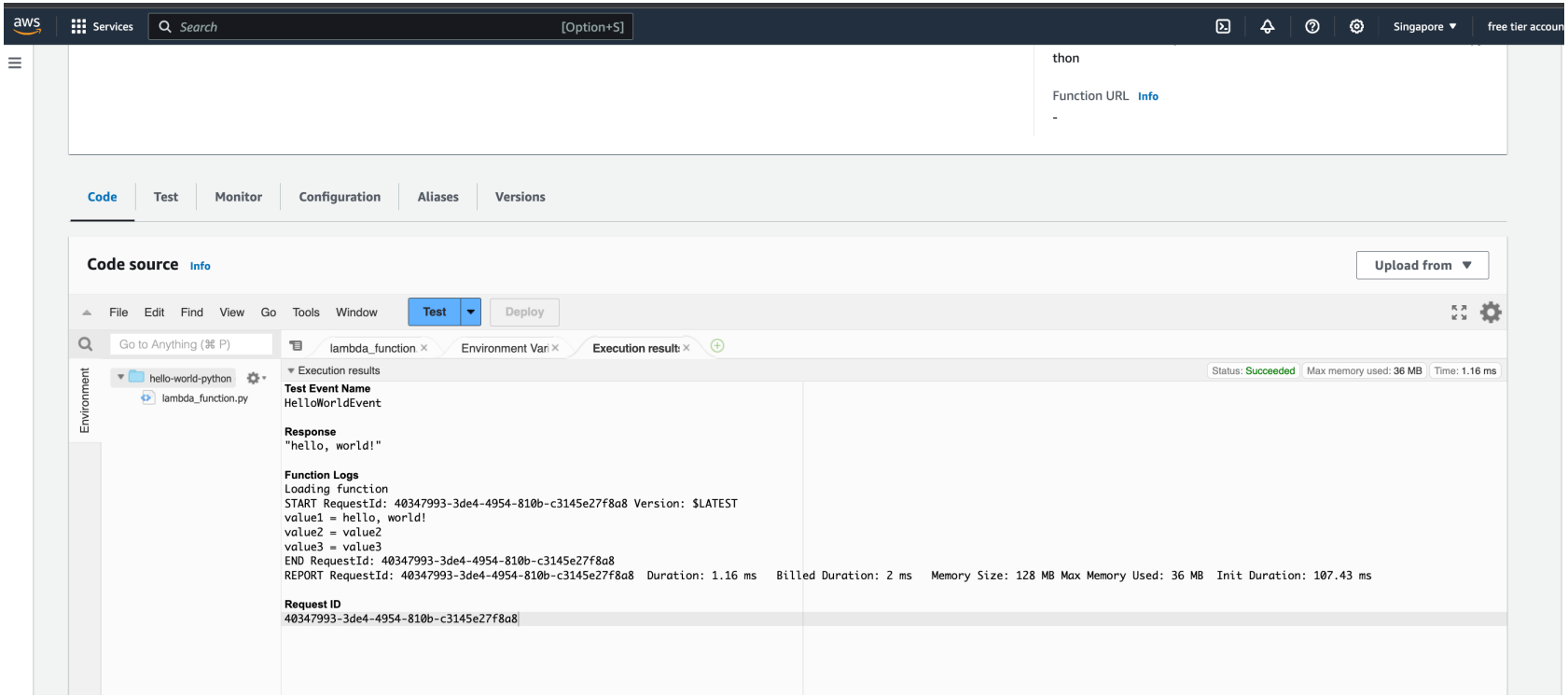
The editor pops up so you can enter an event to test your function.

- Select **Create new event**.
- Type in an event name like ***HelloWorldEvent***.
- Retain default setting of ***Private*** for Event sharing settings.
- Choose ***hello-world*** from the template list.
- You can change the values in the sample JSON, but don't change the event structure. For this tutorial, replace *value1* with ***hello, world!.***
- Click ***Save*** button




aws
Services
Search
[Option+S]
Singapore
hello-world-python
Throttle
Copy ARN
Actions
Function overview
Info
hello-world-python
Layers
(0)
Add trigger
Add destination
Description
A starter AWS Lambda function.
Last modified
10 minutes ago
Function ARN
arn:aws:lambda:ap-southeast-1:566069687272:function:hello-world-python
Function URL
Info
-
Code
Test
Monitor
Configuration
Aliases
Versions
Code source
Info
Choose Test
Upload from
File
Edit
Find
View
Go
Tools
Window
Test
Deploy
Go to Anything (⌘ P)
lambda_function
Environment Var
Environment
hello-world-python
lambda_function.py
import json
print('Loading function')
def lambda_handler(event, context):
#print("Received event: " + json.dumps(event, indent=2))
print("value1 = " + event['key1'])

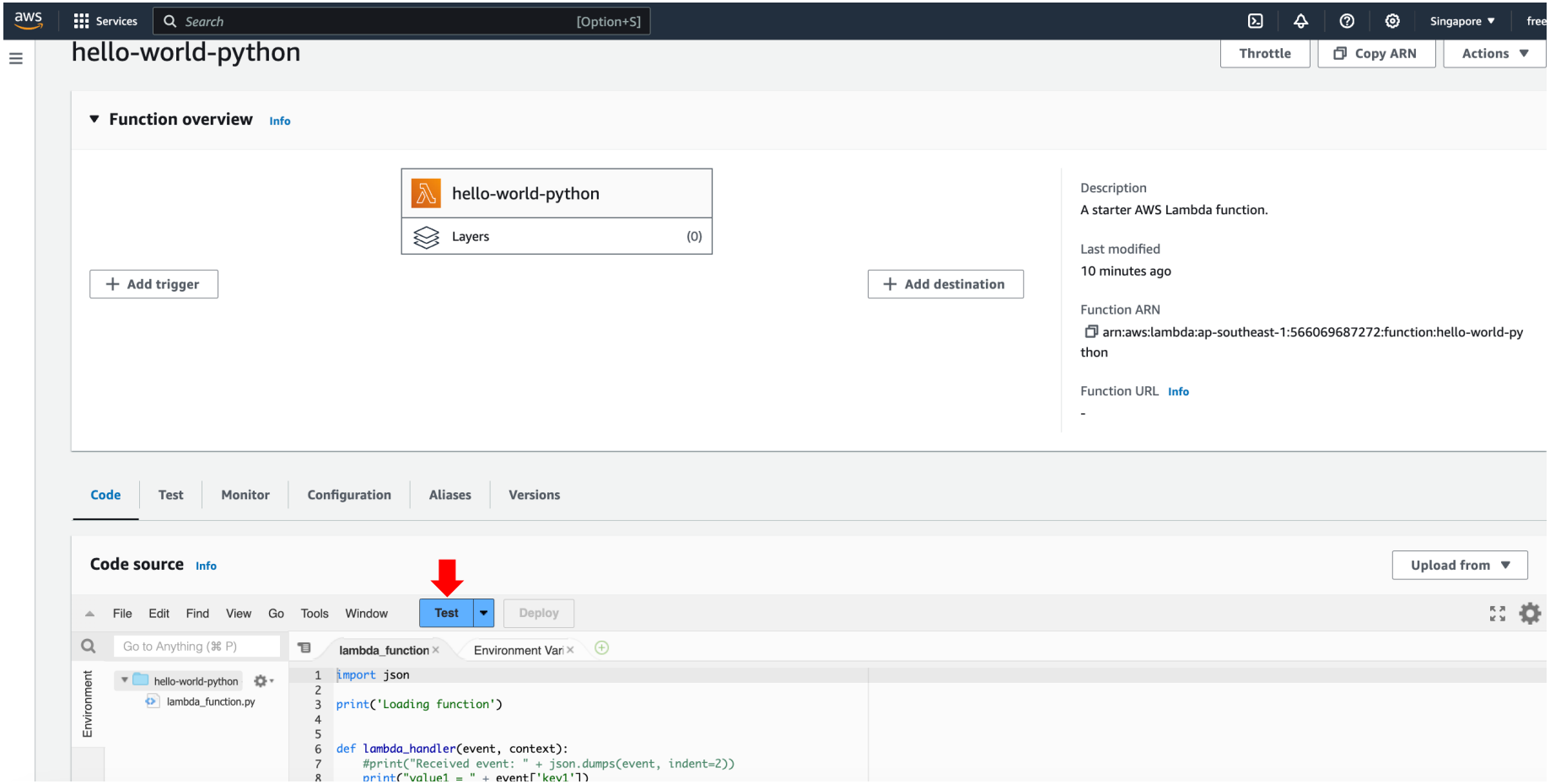
Upon successful execution, view the results in the console:
The Execution results tab verifies that the execution succeeded



Extra mile: monitors Lambda metrics

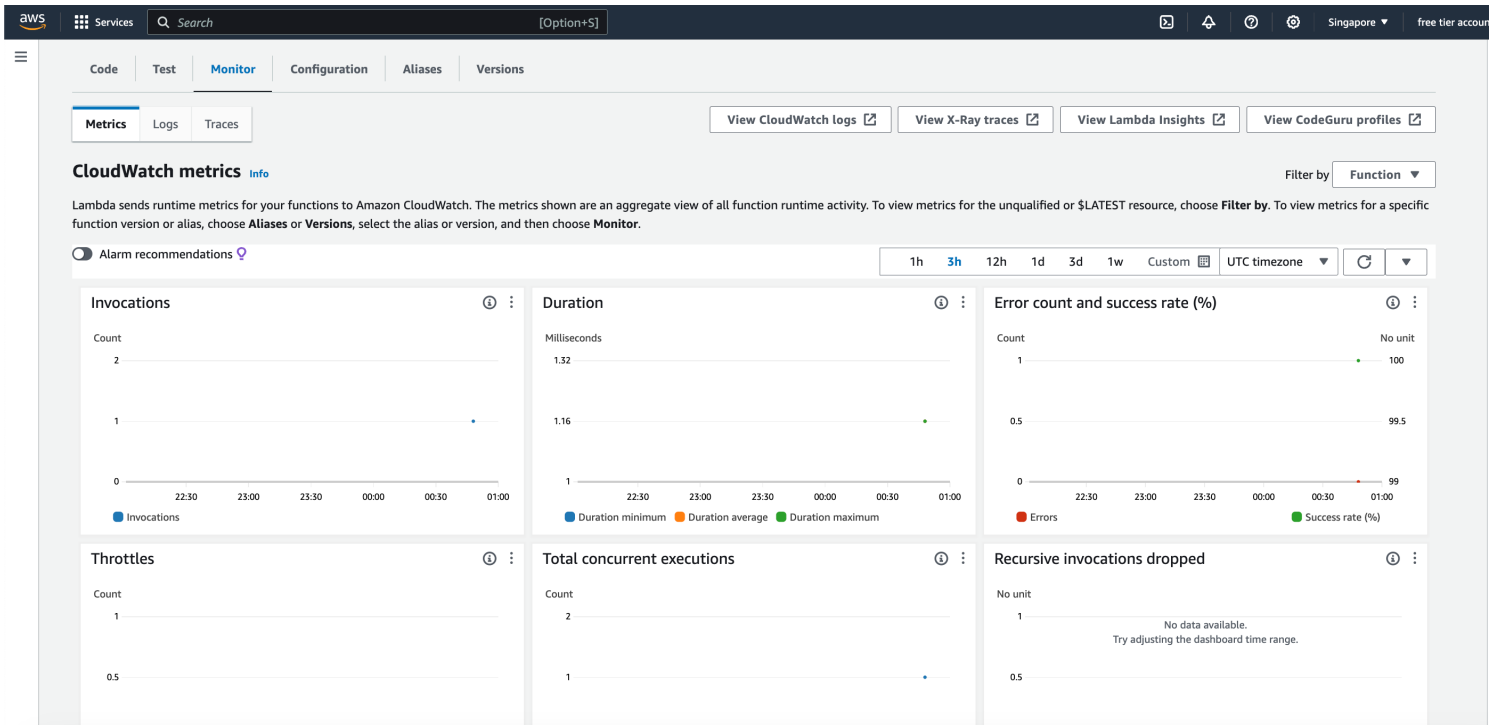
- AWS Lambda automatically monitors Lambda functions and reports metrics through Amazon CloudWatch.
  - This page is optional and is intended for participants who wish to delve deeper into the topic, as we didn't cover CloudWatch in this workshop.
  - For more information about CloudWatch, see the Amazon CloudWatch Developer Guide.

Invoke the Lambda function a few more times by repeatedly choosing the **Test** button. This will generate the metrics that can be viewed in the next step.

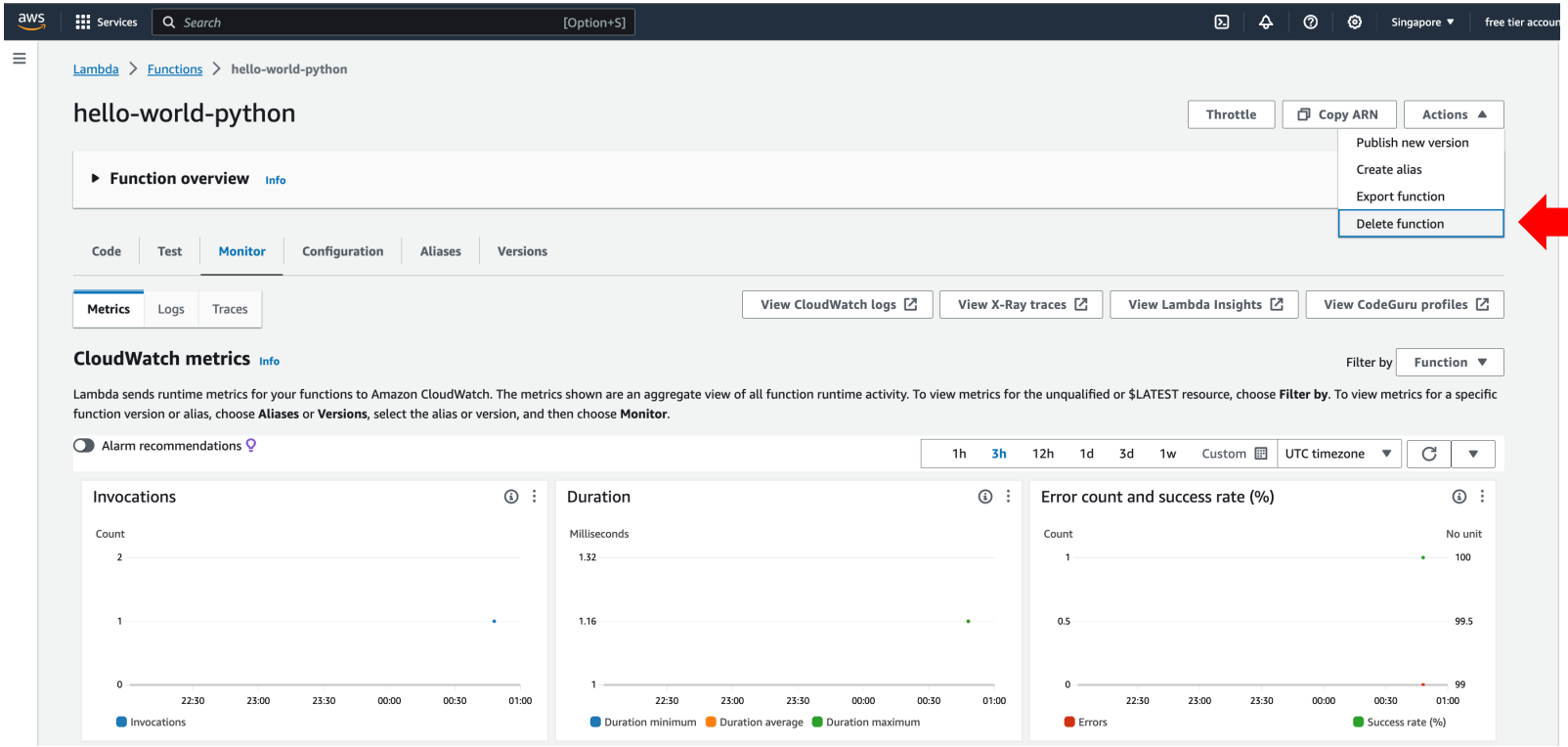


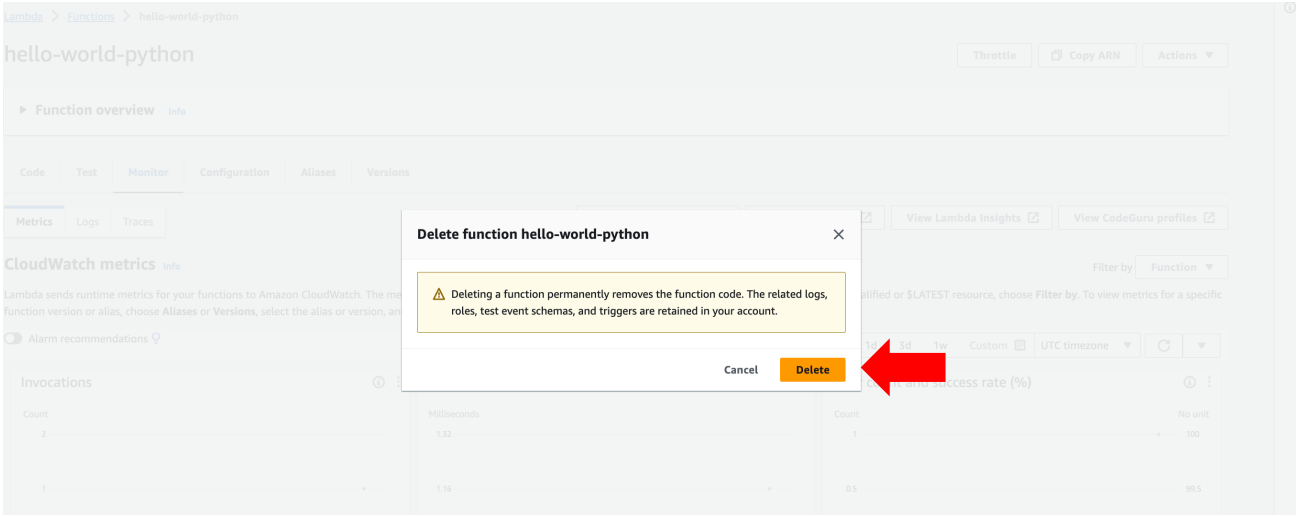
Select the **Monitor** tab to view the results.

- The Monitoring tab will show seven CloudWatch metrics: *Invocations, Duration, Error count and success rate (%), Throttles, Async delivery failures, IteratorAge, and Concurrent executions.*



Clean Up - Select the **Actions** button and select Select the Actions button and select Delete function




Lambda
Functions
hello-world-python
hello-world-python
Throttle
Copy ARN
Actions
Function overview
Info
Code
Test
Monitor
Configuration
Aliases
Versions
Metrics
Logs
Traces
View Lambda Insights
View CodeGuru profiles
CloudWatch metrics
Info
Filter by
Function
Alarm recommendations
Custom
UTC timezone
Invocations
Count
Milliseconds
Count
No unit
Delete function hello-world-python
Deleting a function permanently removes the function code. The related logs, roles, test event schemas, and triggers are retained in your account.
Cancel
Delete