

# Amazon Workflow

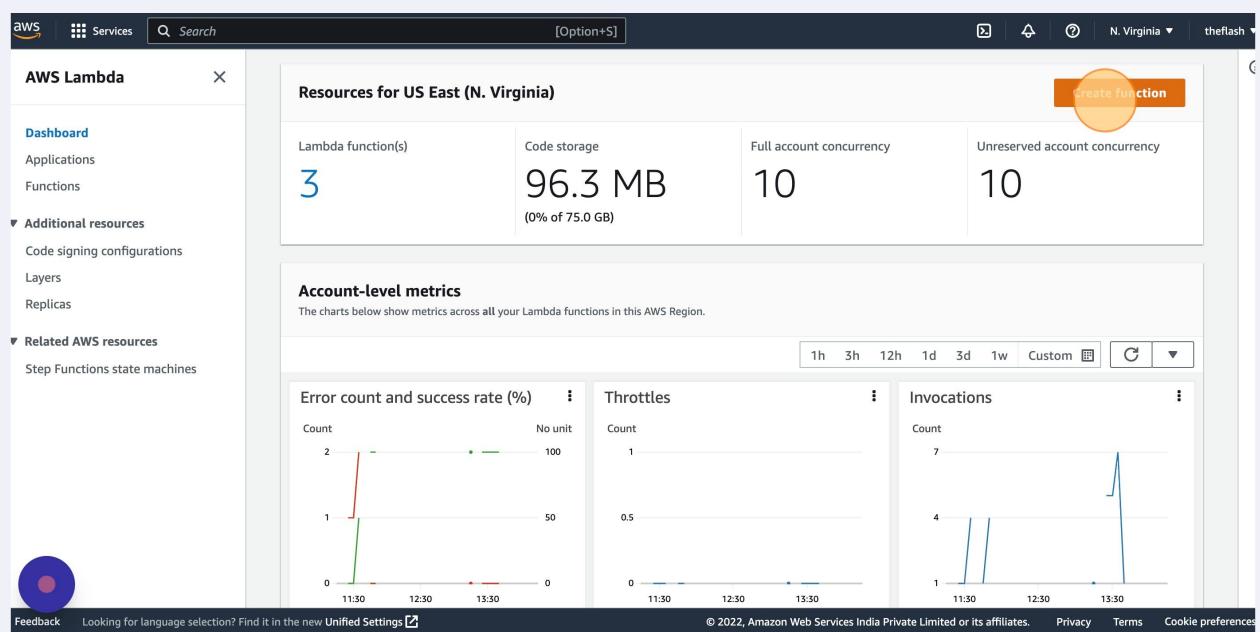
Scribe 

1

Navigate to [us-east-1.console.aws.amazon.com/lambda/home?region=N.%20Virginia](https://us-east-1.console.aws.amazon.com/lambda/home?region=N.%20Virginia)

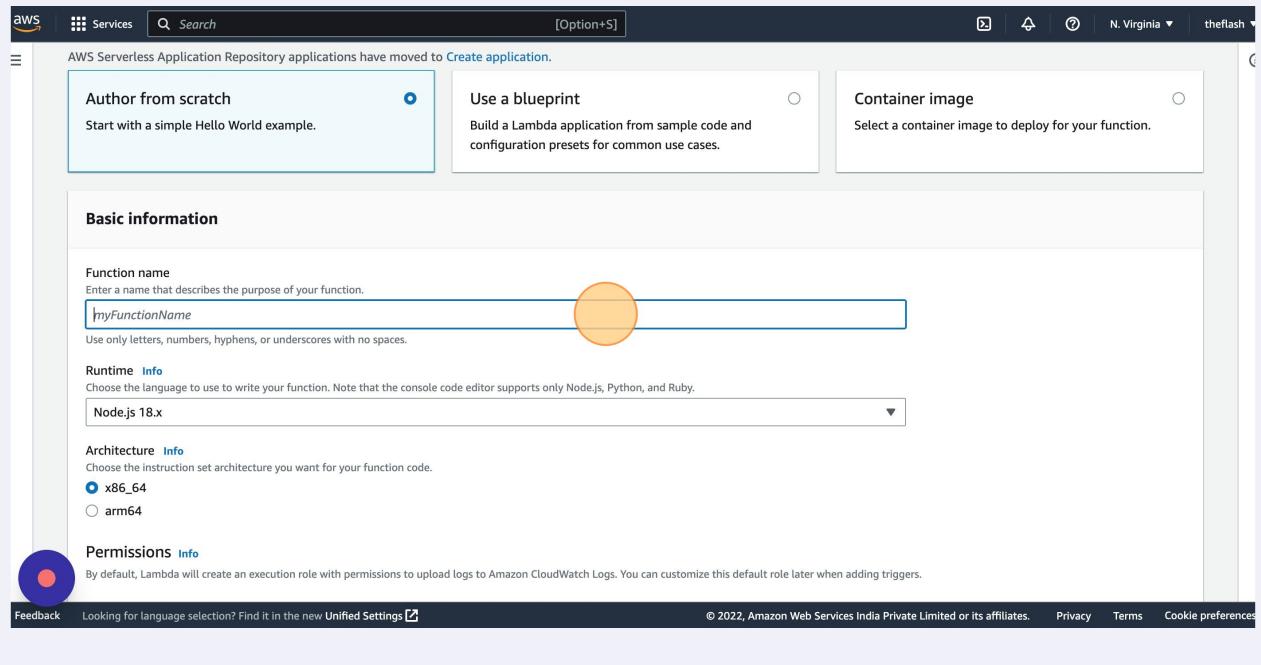
2

Click "Create function"



The screenshot shows the AWS Lambda console interface. On the left, there's a sidebar with options like 'Dashboard', 'Functions', and 'Additional resources'. The main area displays 'Resources for US East (N. Virginia)' with metrics: 3 Lambda functions, 96.3 MB of code storage (0% of 75.0 GB), and 10 units of concurrency. A prominent orange 'Create function' button is located in the top right of this section. Below this, there's a section titled 'Account-level metrics' featuring three line charts: 'Error count and success rate (%)', 'Throttles', and 'Invocations', all showing data over a one-hour period from 11:30 to 13:30.

**3** Click the "Function name" field.



**4** Type "stock\_proj"

## 5 Click "Node.js 18.x"

The screenshot shows the 'Basic information' section of the AWS Lambda function configuration. The 'Function name' field contains 'stock\_proj'. The 'Runtime' dropdown is set to 'Node.js 18.x', also highlighted with an orange circle. The 'Architecture' dropdown is set to 'x86\_64'. The 'Permissions' section indicates that Lambda will create an execution role with CloudWatch Logs permissions.

## 6 Click "Python 3.8"

The screenshot shows the 'Basic information' section of the AWS Lambda function configuration. The 'Function name' field contains 'stock\_proj'. The 'Runtime' dropdown is set to 'Python 3.8', highlighted with an orange circle. Other runtime options listed include Java 8 on Amazon Linux 1, Java 8 on Amazon Linux 2, Node.js 12.x, Node.js 14.x, Node.js 16.x, and Python 3.7. The 'Custom runtime' section includes options for 'Use default bootstrap on Amazon Linux 1' and 'Provide your own bootstrap on Amazon Linux 2'.

7

Click here.

**Basic information**

**Function name**  
Enter a name that describes the purpose of your function.  
 stock\_proj  
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.

**Architecture** [Info](#)  
Choose the instruction set architecture you want for your function code.  
 x86\_64  
 arm64

**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.

Feedback Looking for language selection? Find it in the new [Unified Settings](#). © 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

8

Click "Create function"

**Function name**  
Enter a name that describes the purpose of your function.  
 stock\_proj  
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.

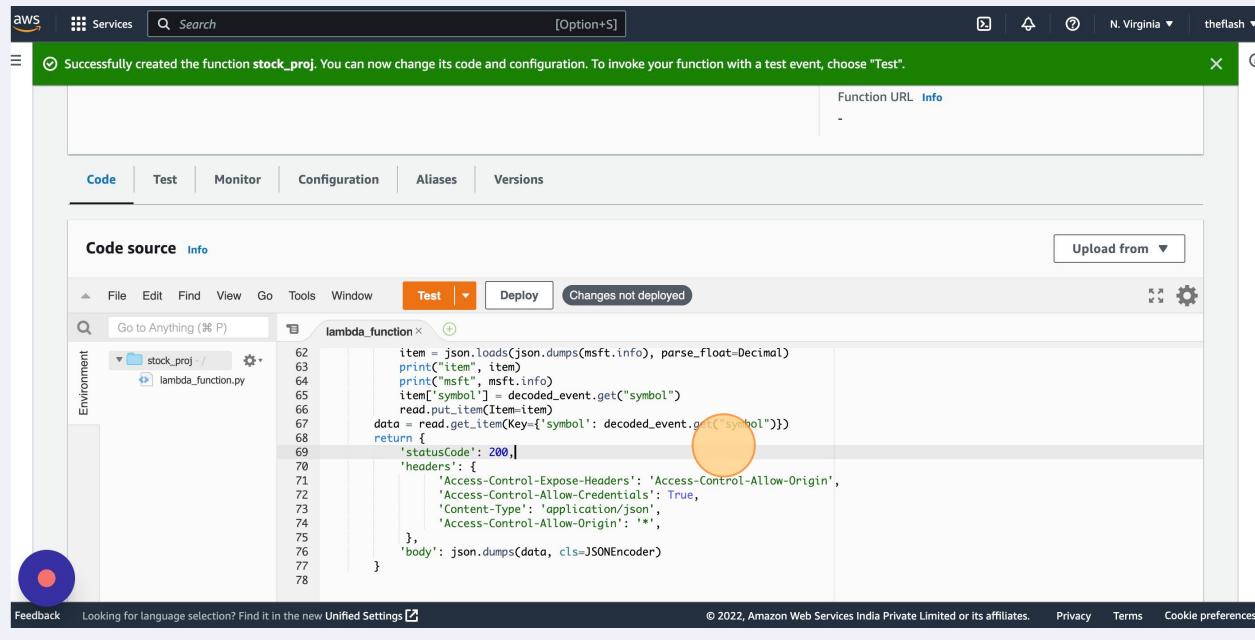
**Architecture** [Info](#)  
Choose the instruction set architecture you want for your function code.  
 x86\_64  
 arm64

**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.

Cancel

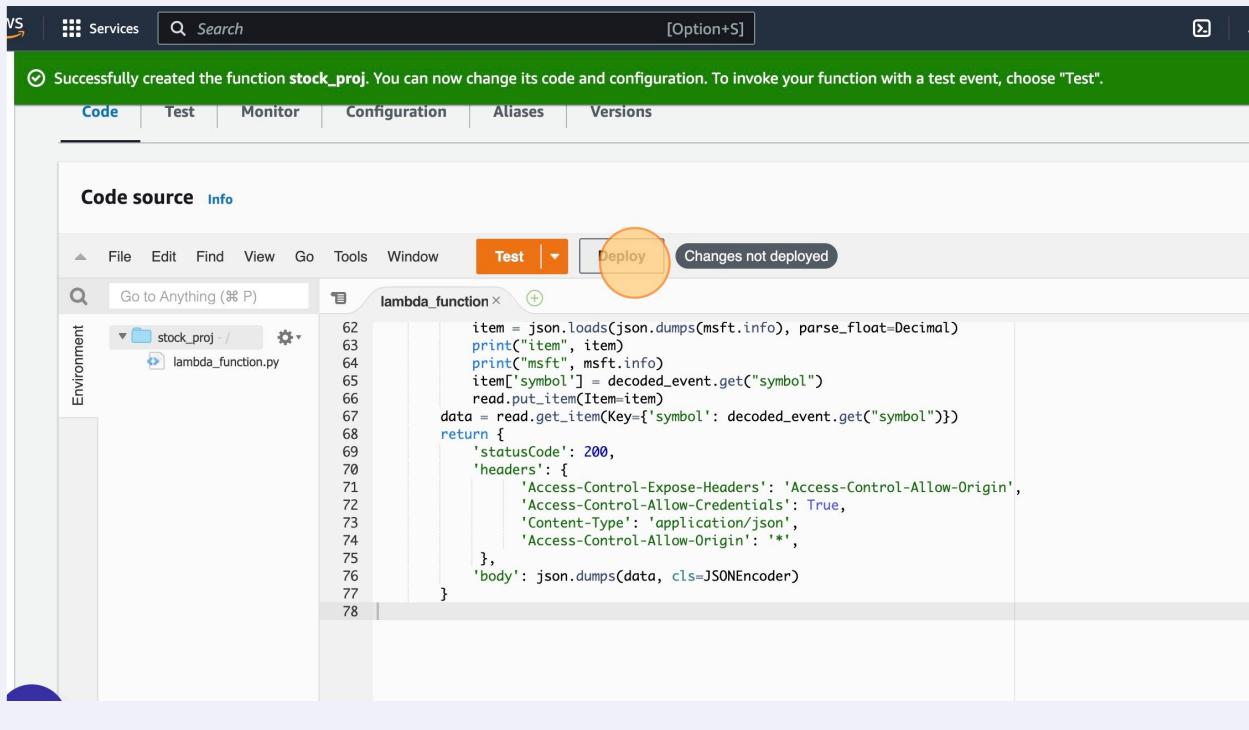
Feedback Looking for language selection? Find it in the new [Unified Settings](#). © 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

**9** Click here.

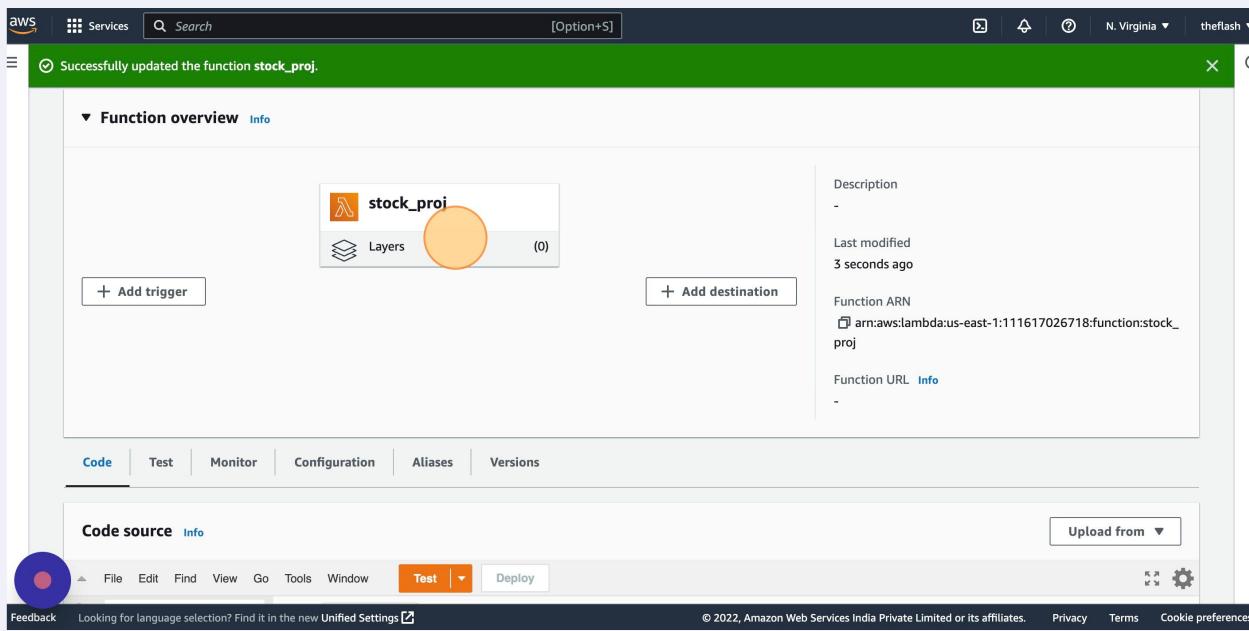


**10** replace the code of lambda.py

## 11 Click "Deploy"



## 12 Click here.



## 13 Click "Add a layer"

The screenshot shows the AWS Lambda function configuration page for 'stock\_proj'. At the top, there's a green success message: 'Successfully updated the function stock\_proj.' Below it, the 'Code properties' section shows package size (1.0 kB), SHA256 hash (58vG8/0G4hEzEvTed3U9D3XpRAbRVWbRW8TxyEb21HQ=), and last modified date (December 21, 2022 at 07:47 PM GMT+5:30). The 'Runtime settings' section shows runtime (Python 3.8) and handler (lambda\_function.lambda\_handler). In the 'Layers' section, there's a button labeled 'Add a layer' which is highlighted with an orange circle. The table below shows no data displayed.

## 14 Click "Choose a layer from a list of layers created by your AWS account or organization."

The screenshot shows the 'Add layer' dialog box. It starts with 'Function runtime settings' (Runtime: Python 3.8, Architecture: x86\_64). Then it moves to the 'Choose a layer' section. Under 'Layer source', it says 'AWS layers' (selected) and 'Custom layers' (highlighted with an orange circle). There's also an option to 'Specify an ARN'. Below 'AWS layers', there's a dropdown menu with 'Choose' and a dropdown arrow. At the bottom right are 'Cancel' and 'Add' buttons.

## 15 Click "Choose"

### Function runtime settings

Runtime  
Python 3.8

Architecture  
x86\_64

### Choose a layer

#### Layer source [Info](#)

Choose from layers with a compatible runtime and instruction set architecture or specify the Amazon Resource Name (ARN) of a layer version. You can also [create a new layer](#).

##### AWS Wrangler

###### AWS Pandas

Choose a layer from a list of layers provided by AWS.  
Kafka

awswrangler

AWS wrangler

yahooFinance

Layers created by your AWS account or organization that are compatible with your function's runtime.

[Choose](#)

##### Custom layers

Choose a layer from a list of layers created by your AWS account or organization.

##### Specify an ARN

Specify a layer by providing the ARN.

[Cancel](#)

[Add](#)

[Feedback](#)

Looking for language selection? Find it in the new [Unified Settings](#)

© 2022, Amazon Web Services India Private Limited or its affiliates.

## 16 Click "awswrangler"

aws Services Search [Option+S] N. Virginia theflash

### Add layer

### Function runtime settings

Runtime  
Python 3.8

Architecture  
x86\_64

### Choose a layer

#### Your layers

AWS\_Wrangler  
AWS Pands  
Kafka  
awswrangler  
AWS wrangler  
yahooFinance  
[Choose](#)

source Name (ARN) of a layer  
specify an ARN  
specify a layer by providing the ARN.

[Cancel](#) [Add](#)

[Feedback](#) Looking for language selection? Find it in the new [Unified Settings](#)

© 2022, Amazon Web Services India Private Limited or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)

17 Click this button.

Function runtime settings

Runtime Python 3.8      Architecture x86\_64

Choose a layer

Layer source [Info](#)  
Choose from layers with a compatible runtime and instruction set architecture or specify the Amazon Resource Name (ARN) of a layer version. You can also [create a new layer](#).

AWS layers  
Choose a layer from a list of layers provided by AWS.

Custom layers  
Choose a layer from a list of layers created by your AWS account or organization.

Specify an ARN  
Specify a layer by providing the ARN.

Custom layers  
Layers created by your AWS account or organization that are compatible with your function's runtime.

awsrangler

Version

Cancel Add

18 Click "1"

Function runtime settings

Runtime Python 3.8      Architecture x86\_64

Choose a layer

Layer source [Info](#)  
Choose from layers with a compatible runtime and instruction set architecture or specify the Amazon Resource Name (ARN) of a layer version. You can also [create a new layer](#).

AWS layers  
Choose a layer from a list of layers provided by AWS.

Custom layers  
Choose a layer from a list of layers created by your AWS account or organization.

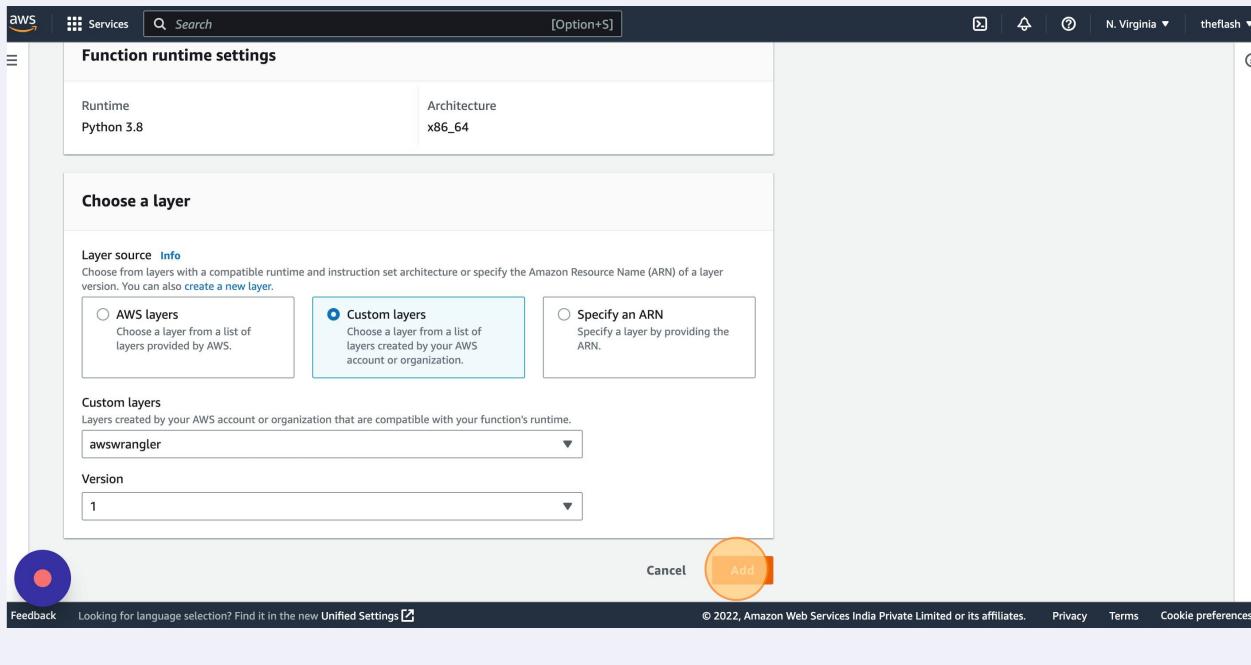
Specify an ARN  
Specify a layer by providing the ARN.

Custom layers

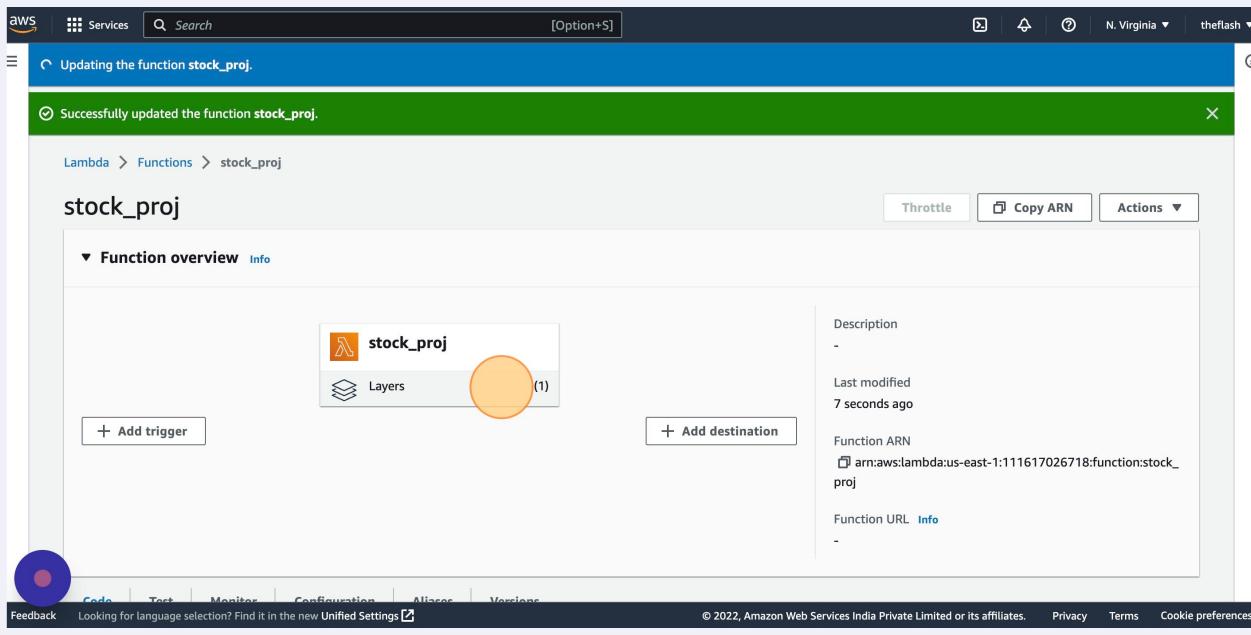
1  
AWS wrangler  
Runtimes: python3.8   Architectures: -

Cancel Add

## 19 Click "Add"



## 20 Click here.



## 21 Click "Add a layer"

The screenshot shows the AWS Lambda function configuration page for 'stock\_pro'. At the top, there is a code editor window with Python code. Below it, the 'Code properties' section shows package size (1.0 kB), SHA256 hash (58VG8/0G4hEzEvTed3U9D3XpRAbRVWbRW8TxEb21HQ=), and last modified date (December 21, 2022). The 'Runtime settings' section shows runtime (Python 3.8), handler (lambda\_function.lambda\_handler), and architecture (x86\_64). The 'Layers' section has one entry: 'awswrangler' (Layer version 1, Compatible runtimes python3.8, Version ARN arn:aws:lambda:us-east-1:111617026718:layer:awswrangler:1). An orange circle highlights the 'Add a layer' button.

## 22 Click "Choose a layer from a list of layers created by your AWS account or organization."

The screenshot shows the 'Choose a layer' dialog box. It includes 'Function runtime settings' (Runtime: Python 3.8, Architecture: x86\_64) and a 'Choose a layer' section. The 'Layer source' dropdown is set to 'AWS layers'. The 'Custom layers' option is highlighted with an orange circle. The 'Specify an ARN' option is also present. At the bottom, there is a 'Choose' dropdown menu, a 'Cancel' button, and an 'Add' button.

## 23 Click "Choose"

**Function runtime settings**

Runtime Python 3.8	Architecture x86_64
-----------------------	------------------------

**Choose a layer**

**Layer source** [Info](#)  
Choose from layers with a compatible runtime and instruction set architecture or specify the Amazon Resource Name (ARN) of a layer version. You can also [create a new layer](#).

AWS layers  
Choose a layer from a list of layers provided by AWS.

Custom layers  
Choose a layer from a list of layers created by your AWS account or organization.

Specify an ARN  
Specify a layer by providing the ARN.

**Custom layers**  
Layers created by your AWS account or organization that are compatible with your function's runtime.

[Choose](#)

Feedback Looking for language selection? Find it in the new [Unified Settings](#) © 2022, Amazon Web Services India Private Limited or its affiliates

## 24 Click "Kafka"

**Function runtime settings**

Runtime Python 3.8	Architecture x86_64
-----------------------	------------------------

**Choose a layer**

**Your layers**

AWS_Wrangler AWS Pands	source Name (ARN) of a layer
Kafka	<input checked="" type="radio"/> Specify an ARN Specify a layer by providing the ARN.
awswrangler AWS wrangler	
yahooFinance	

[Choose](#)

Feedback Looking for language selection? Find it in the new [Unified Settings](#) © 2022, Amazon Web Services India Private Limited or its affiliates

## 25 Select appropriate version

Runtime  
Python 3.8

Architecture  
x86\_64

**Choose a layer**

Layer source [Info](#)  
Choose from layers with a compatible runtime and instruction set architecture or specify the Amazon Resource Name (ARN) of a layer version. You can also [create a new layer](#).

AWS layers     Custom layers     Specify an ARN

3 Runtimes: python3.8 Architectures: -

2 Runtimes: python3.8 Architectures: -

1 kafka Runtimes: python3.8 Architectures: -

Cancel Add

## 26 Click "Add"

aws Services Search [Option+S]

Function runtime settings

Runtime  
Python 3.8

Architecture  
x86\_64

**Choose a layer**

Layer source [Info](#)  
Choose from layers with a compatible runtime and instruction set architecture or specify the Amazon Resource Name (ARN) of a layer version. You can also [create a new layer](#).

AWS layers Choose a layer from a list of layers provided by AWS.

Custom layers Choose a layer from a list of layers created by your AWS account or organization.

Specify an ARN Specify a layer by providing the ARN.

**Custom layers**  
Layers created by your AWS account or organization that are compatible with your function's runtime.

Kafka

Version  
3

Cancel Add

Feedback Looking for language selection? Find it in the new [Unified Settings](#) © 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

27

Click "yahooFinance"

Choose a layer

Your layers

- AWS\_Wrangler
- AWS Pands
- Kafka
- awswrangler
- AWS wrangler
- yahooFinance**

source Name (ARN) of a layer

Specify an ARN

Specify a layer by providing the ARN.

Choose

Cancel Add

28

Click here.

Add layer

Function runtime settings

Runtime Python 3.8	Architecture x86_64
-----------------------	------------------------

Choose a layer

Layer source [Info](#)

Choose from layers with a compatible runtime and instruction set architecture or specify the Amazon Resource Name (ARN) of a layer version. You can also [create a new layer](#).

AWS layers  
Choose a layer from a list of layers provided by AWS.

Custom layers  
Choose a layer from a list of layers created by your AWS account or organization.

Specify an ARN  
Specify a layer by providing the ARN.

Custom layers

Layers created by your AWS account or organization that are compatible with your function's runtime.

yahooFinance

Version

Feedback Looking for language selection? Find it in the new Unified Settings [?](#)

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

## 29 Select appropriate version

The screenshot shows the 'Function runtime settings' page for a Lambda function. The 'Runtime' is set to 'Python 3.8' and the 'Architecture' is 'x86\_64'. Below this, the 'Choose a layer' section is displayed. The 'Custom layers' tab is selected, showing a list of three custom layers: '3', '2', and '1'. Layer '3' is highlighted with an orange circle. A search bar is present above the list. The bottom of the page includes a feedback link, a language selection note, and a copyright notice.

## 30 Click "Add"

The screenshot shows the same 'Function runtime settings' page as the previous one, but with the 'Custom layers' tab selected. The 'Custom layers' section displays a dropdown menu with 'yahooFinance' selected. Below it, a 'Version' dropdown is set to '3'. At the bottom right of the 'Choose a layer' section, there is a large orange button labeled 'Add' which is highlighted with a red circle. The bottom of the page includes a feedback link, a language selection note, and a copyright notice.

31 Click here.

