



Create your first API

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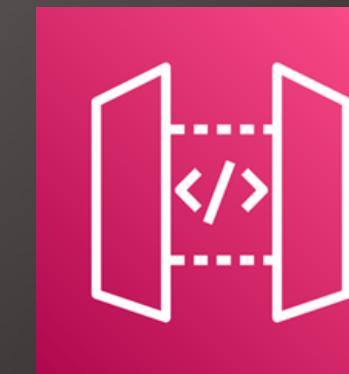
Slide 7

What is AWS?



Lambda functions

Elaborate on a personal detail you want to share.



API Gateway

Elaborate on a personal detail you want to share.

How to create an AWS account?



More information about free tiers
that AWS servers provides for
developers



Link for sign up page

Sign up for AWS

Root user email address

Used for account recovery and some administrative functions

AWS account name

Choose a name for your account. You can change this name in your account settings after you sign up.

Verify email address

OR

Sign in to an existing AWS account

1

Sign up for AWS

Confirm you are you

Making sure you are secure -- it's what we do.

We sent an email with a verification code to
m[REDACTED]ail.com. (not you?)

Enter it below to confirm your email.

Verification code

Verify

Resend code

Didn't get the code?

- Codes can take up to 5 minutes to arrive.
- Check your spam folder.

2

Sign up for AWS

Create your password

It's you! Your email address has X
been successfully verified.

Your password provides you with sign in access
to AWS, so it's important we get it right.

Root user password

 key icon

Conf

>Passwords must be at least 8
characters long and contain at least 3
of the following:

- Uppercase letters
- Lowercase letters
- Numbers
- Non-alphanumeric characters

Sign in to an existing AWS account

3

Sign up for AWS

Contact Information

How do you plan to use AWS?

- Business - for your work, school, or organization
- Personal - for your own projects

Who should we contact about this account?

Full Name

Phone Number

+1 ▼ 222-333-4444

Country or Region

United States ▼

Address

Apartment, suite, unit, building, floor, etc.

City

State, Province, or Region

Postal Code

I have read and agree to the terms of the
[AWS Customer Agreement](#).

Continue (step 2 of 5)

4

Sign up for AWS

Billing Information

Credit or Debit card number



AWS accepts all major credit and debit cards. To learn more about payment options, review our [FAQ](#)

Expiration date

Month Year

Cardholder's name

Billing address

 Use my contact address Use a new address**Verify and Continue (step 3 of 5)**

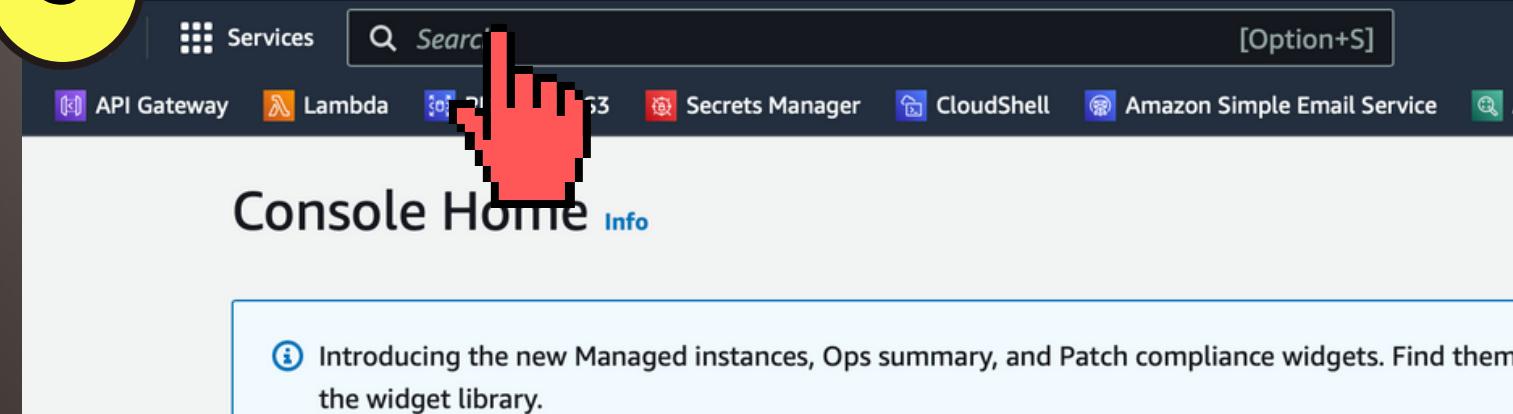
You might be redirected to your bank's website to authorize the verification charge.



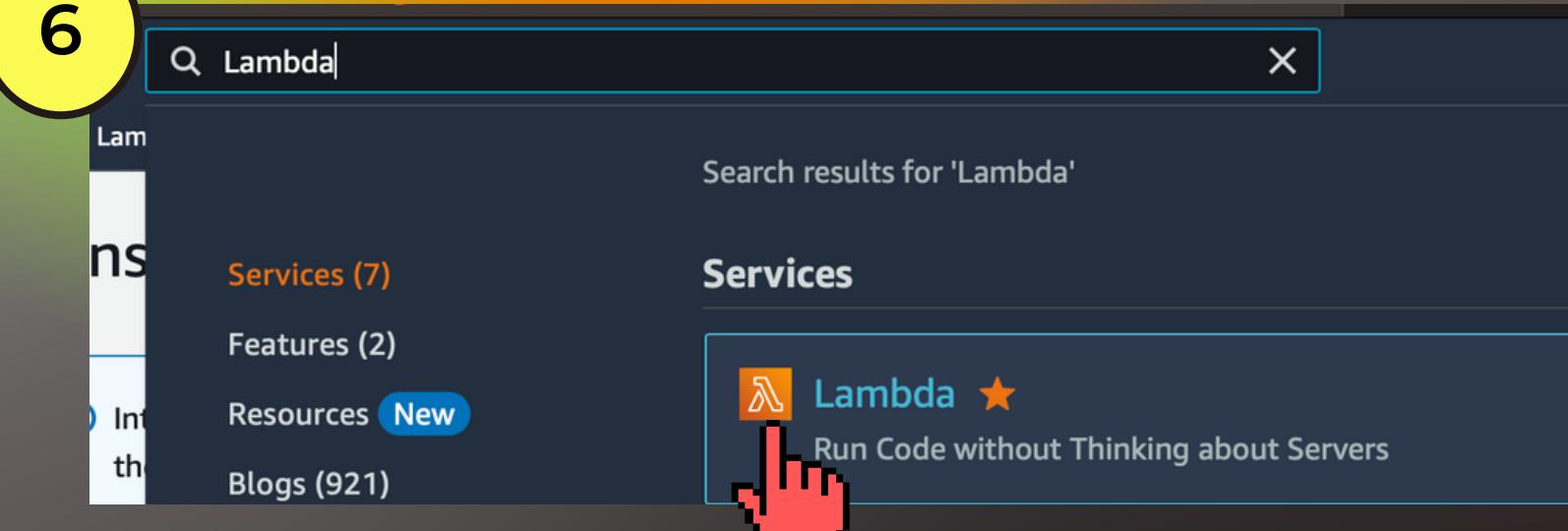
Troubleshooting

- ✖ There was a problem with your payment information. To continue, [sign in to your account](#) and update your payment information. Then you can continue signing up. If this problem persists, contact [AWS Customer Support](#).

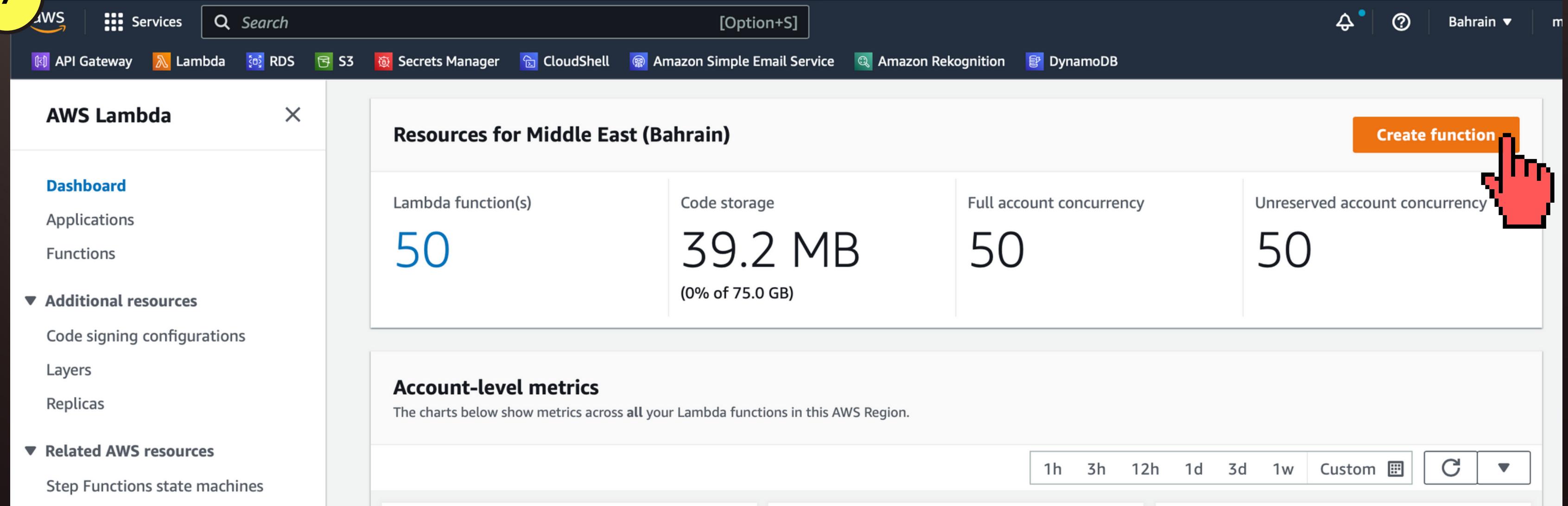
5



6



7



8

	Bahrain ▾
US East (N. Virginia)	us-east-1
US East (Ohio)	us-east-2
US West (N. California)	us-west-1
US West (Oregon)	us-west-2
Asia Pacific (Mumbai)	ap-south-1
Asia Pacific (Osaka)	ap-northeast-3
Asia Pacific (Seoul)	ap-northeast-2
Asia Pacific (Singapore)	ap-southeast-1
Asia Pacific (Sydney)	ap-southeast-2
Asia Pacific (Tokyo)	ap-northeast-1
Canada (Central)	ca-central-1
Europe (Frankfurt)	eu-central-1
Europe (Ireland)	eu-west-1
Europe (London)	eu-west-2
Europe (Paris)	eu-west-3

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europe (Paris)	eu-west-3
Europe (Stockholm)	eu-north-1
Middle East (Bahrain)	me-south-1
South America (São Paulo)	sa-east-1

10

Lambda > Functions > Create function

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.

Browse serverless app repository Deploy a sample Lambda application from the AWS Serverless Application Repository.

Basic information

Function name
Enter a name that describes the purpose of your function.

Runtime Info
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

11

Basic information**Function name**

Enter a name that describes the purpose of your function.

 myFunctionName

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.

 Node.js 18.x**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.

▶ Change default execution role

Runtime Info

Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

 Node.js 18.x**Latest supported** .NET 6 (C#/PowerShell) .NET Core 3.1 (C#/PowerShell) Go 1.x Java 11 (Corretto) Node.js 18.x Python 3.9 Ruby 2.7**Other supported** Java 8 on Amazon Linux 1

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13

Function name

Enter a name that describes the purpose of your function.

 FirstFunction

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

Runtime Info

Choose the language to use to write your function. Note that the console code editor

 Python 3.9**Architecture Info**

Choose the instruction set architecture you want for your function code.

 x86_64 arm64

14

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

Lambda > Functions > FirstFunction

FirstFunction

Function overview Info



15

Code source Info

File Edit Find View Go Tools Window

Test | Deploy

Go to Anything (⌘ P)

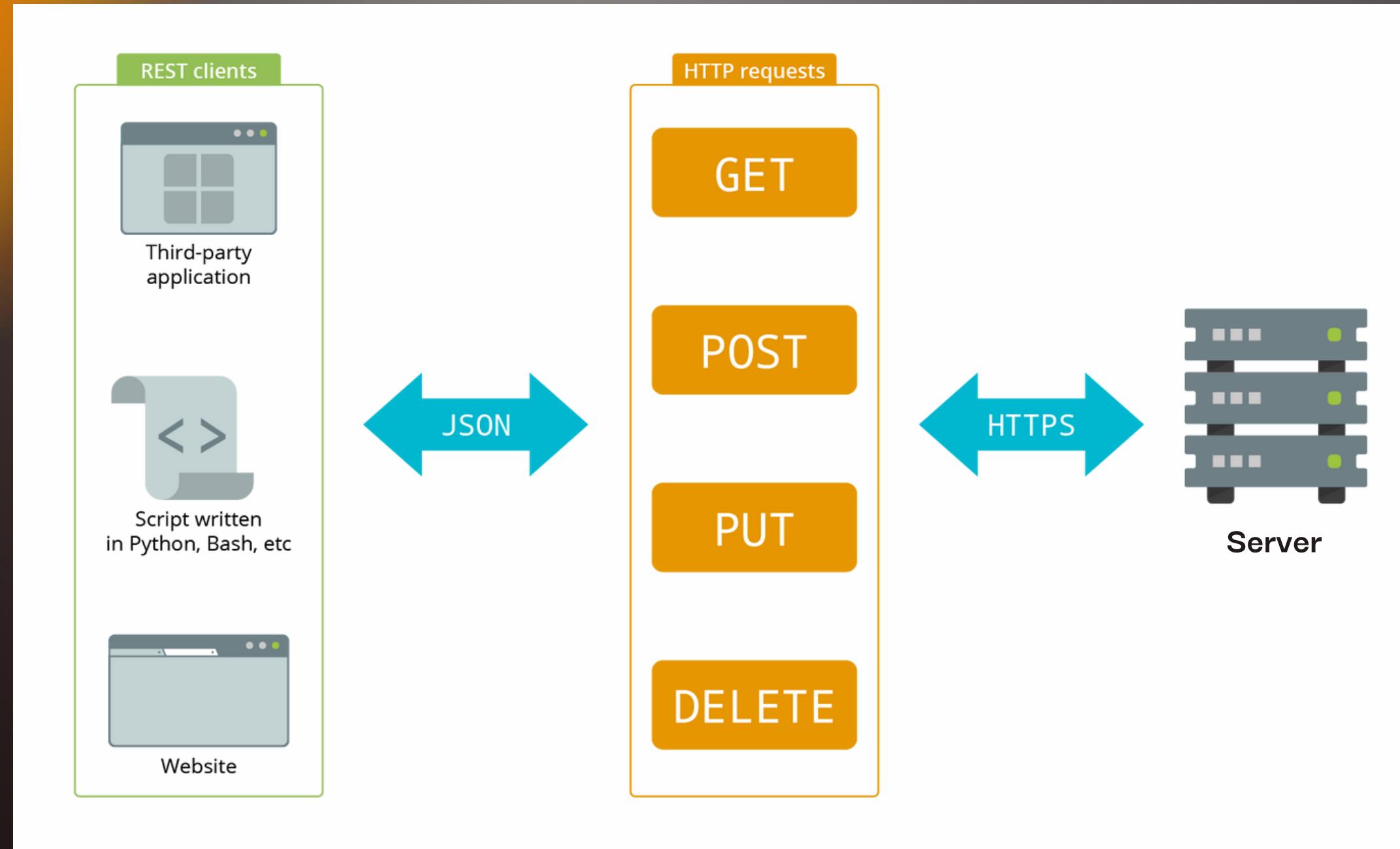
Environment
FirstFunction - /
lambda_function.py

```
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
```

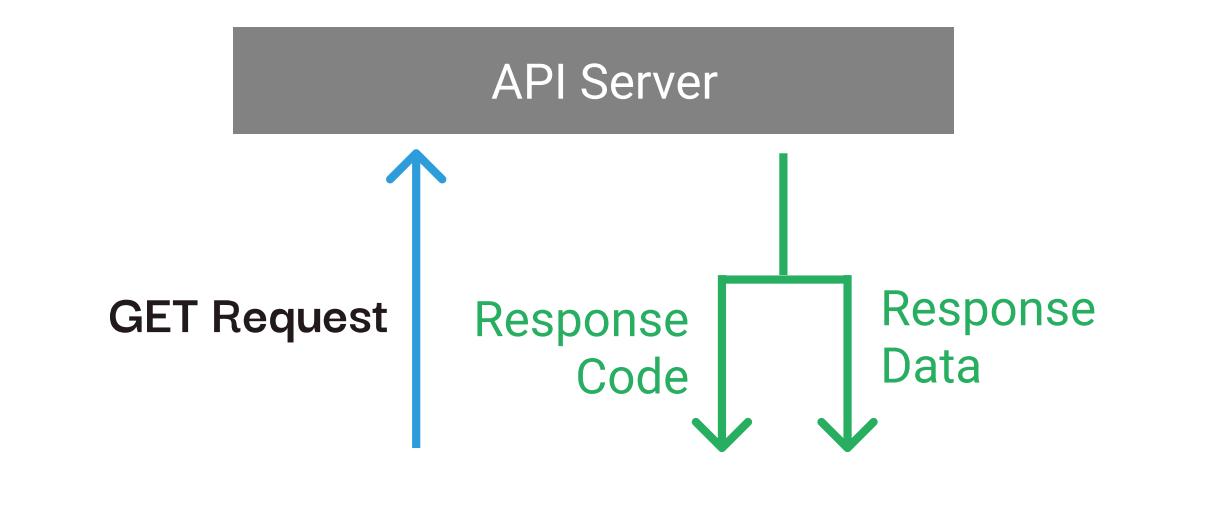
CLICK HERE TO VISIT THE PAGE



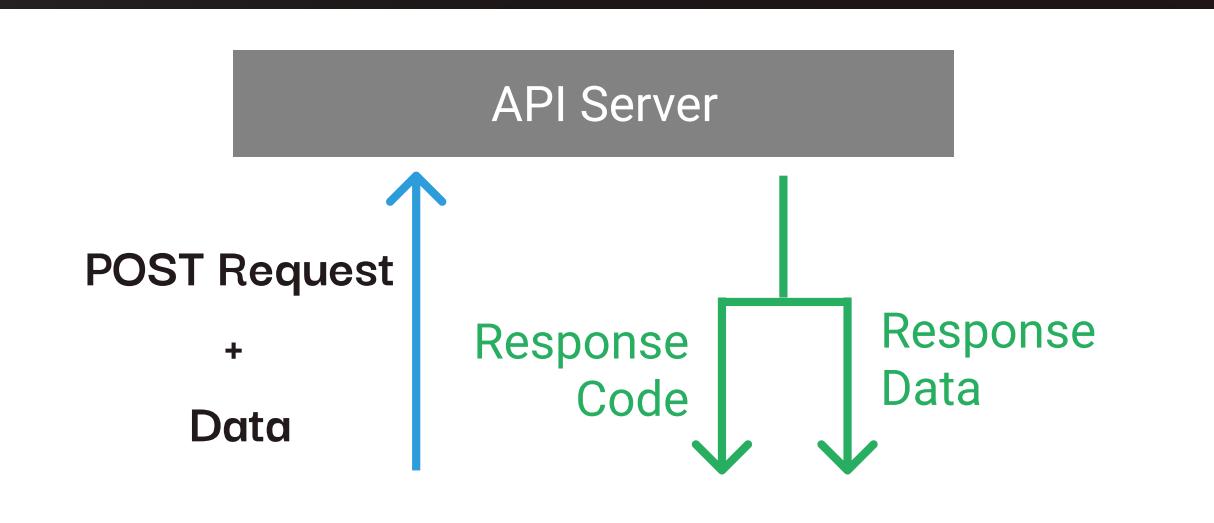
API Types



1 GET API



2 POST API



1

Lambda > Functions > FirstFunction

FirstFunction

Function overview [Info](#)

[+ Add trigger](#)[+ Add destination](#)

Lambda > Add trigger

Add trigger

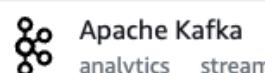
Trigger configuration [Info](#)

Select a source

Cancel

Add

Select a source



4

Trigger configuration [Info](#)



API Gateway

api application-services aws serverless

Add an API to your Lambda function to create an HTTP endpoint that invokes your function. API Gateway supports two types of RESTful APIs: HTTP APIs and REST APIs. [Learn more](#)

Intent

Use an existing api or have us create one for you.

- Create a new API
 Use existing API

API type

HTTP API

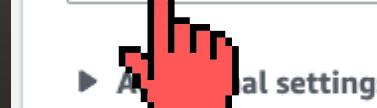
Build low-latency and cost-effective REST APIs with built-in features such as OIDC and OAuth2, and native CORS support.

REST API

Develop a REST API where you gain complete control over the request and response along with API management capabilities.

Security

Configure the security mechanism for your API endpoint.

[Open](#)

Lambda will add the necessary permissions for Amazon API Gateway to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

Cancel

Add



5

The trigger FirstFunction-API was successfully added to function FirstFunction. The function is now receiving events from the trigger.

Function overview

- FirstFunction (Lambda icon)
- Layers (0)
- Description: -
- Last modified: 1 hour ago
- Function ARN: [REDACTED]
- Function URL: [REDACTED]

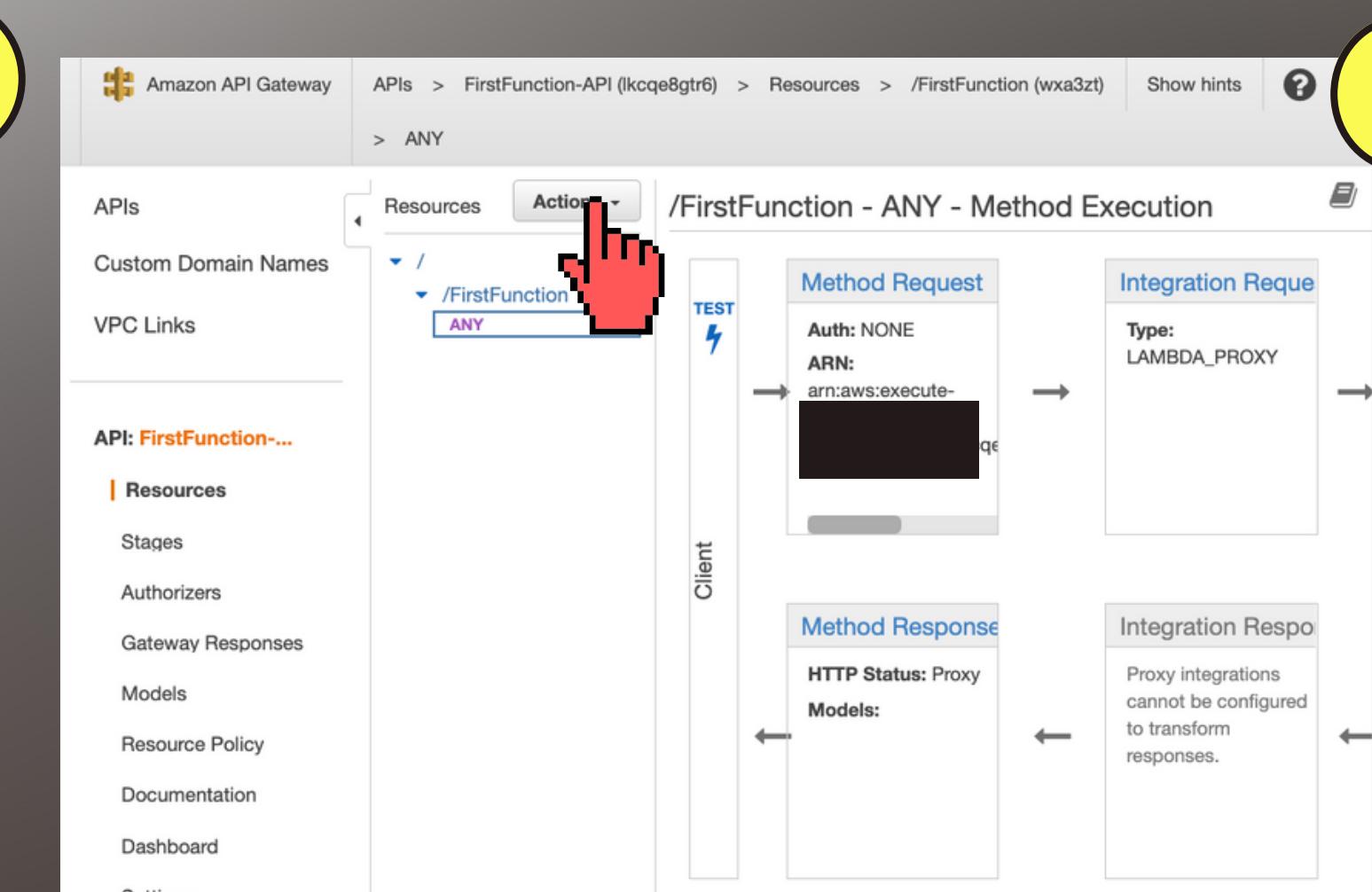
Actions

- + Add destination
- + Add trigger

Configuration

Triggers (1) Info

Trigger	Action	ARN
API Gateway: FirstFunction API	arn:aws:execute-api:me-south-1:61141926:lkcq8qtr6/*/*/FirstFunction	[REDACTED]



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Actions

METHOD ACTIONS

- Edit Method Documentation
- Delete Method**

RESOURCE ACTIONS

- Create Method
- Create Resource
- Enable CORS
- Edit Resource Documentation
- Delete Resource**

API ACTIONS

- Deploy API
- Import API
- Edit API Documentation
- Delete API**



Click on /FirstFunction

10

/FirstFunction

11

/FirstFunction

GET

Choose "GET"

9

Actions

METHOD ACTIONS

- Edit Method Documentation
- Delete Method**

RESOURCE ACTIONS

- Create Method
- Create Resource
- Enable CORS
- Edit Resource Documentation
- Delete Resource**

API ACTIONS

- Deploy API
- Import API
- Edit API Documentation
- Delete API**

12

FirstFunction - GET - Setup

Choose the integration point for your new method.

Integration type Lambda Function i



Mock i

AWS Service i

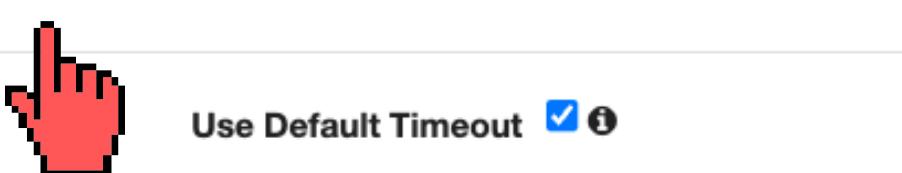
VPC Link i

Use Lambda Proxy integration i

Lambda Region i



Lambda Function



Use Default Timeout i

Type "FirstFunction"

Save



13

Add Permission to Lambda Function

You are about to give API Gateway permission to invoke your Lambda function:
arn:aws:lambda:me-south-1:123456789012:function:FirstFunction

Cancel

OK

12

Deploy API

Deploy API

Choose a stage where your API will be deployed. For example, a test version of your API could be deployed to a stage named beta.

Deployment stage i



Deployment description

Choose "default"

Cancel

Deploy

Stages Create

default



default Stage Editor

Delete Stage Configure

Invoke URL: https://[REDACTED].execute-api.me-south-1.amazonaws.com/default

Settings Logs/Tracing Stage Variables SDK Generation Export

Stages Create

default

/

/FirstFunction

GET

default - GET - /FirstFunction

Invoke URL: https://[REDACTED].execute-api.me-south-1.amazonaws.com/default

Use this page to override the default stage settings for the GET to /FirstFunction method.

Get Minified Version i

16

This is our API link, copy it

14

15

Testing API

2

REQBIN

EXAMPLES SAVED

- POST Request Example
- Bearer Token Auth Example
- HTML Form POST Example
- GET Request Example
- REST API POST Example
- PUT Request Example
- Auth Bearer Header Example
- POST API Example
- POST JSON Example
- JSON Payload Example
- Content-Length Example
- REST API GET Example

Online REST & SOAP API Testing Tool

ReqBin is an online API testing tool for REST and SOAP APIs. Test API endpoints by making API requests directly from your browser. Test API responses with built-in JSON and XML validators. Load test your API with hundreds of simulated concurrent connections. Generate code snippets for API automation testing frameworks. Share and discuss your API requests online.

File Generate Code Tools

https://google.com GET US Send

Authorization Content Headers Raw

Past API Link here

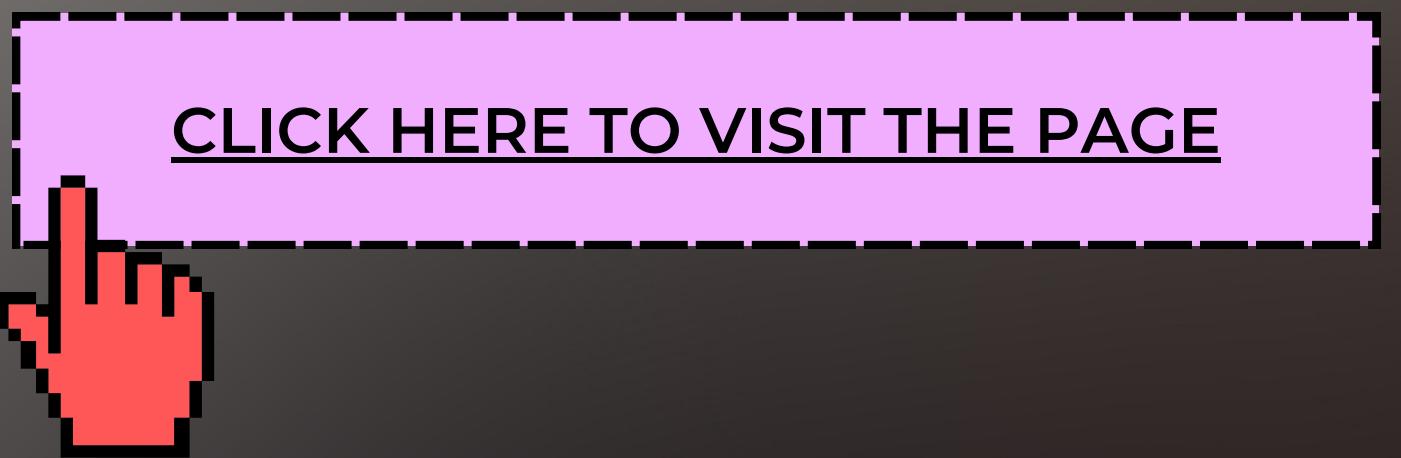
3

Share Generate Code App Mode

Status: 200 (OK) Time: 672 ms Size: 0.07 kb

Content (4) Headers (8) Raw (10) JSON Timings

```
{  
  "statusCode": 200,  
  "body": "\"Username existed and password is correct\""  
}
```



Mohammed Almalki

I hope you've enjoyed it :)



Please, fill out the form



mokh08



Mohammed
Almalki

