

AWS Services Search: Arama [Alt+S]

Console Home IAM EC2 RDS DynamoDB ElastiCache VPC CloudFormation S3 Elastic Kubernetes Service EFS Route 53 Elastic Beanstalk CloudWatch Lambda API Gateway Global Knklc @ knk

## Amazon S3

Buckets Access Points Object Lambda Access Points Multi-Region Access Points Batch Operations IAM Access Analyzer for S3 Block Public Access settings for this account Storage Lens Dashboards AWS Organizations settings Feature spotlight 7 AWS Marketplace for S3

### Amazon S3

**Account snapshot**

Last updated: Sep 6, 2023 by Storage Lens. Metrics are generated every 24 hours. [Learn more](#)

Total storage: 4.1 MB Object count: 27 Average object size: 157.2 KB You can enable advanced metrics in the "default-account-dashboard" configuration.

**Buckets (4) [Info](#)**

Buckets are containers for data stored in S3. [Learn more](#)

[C](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Name	AWS Region	Access	Creation date
cf-templates-jbefz9dboao-us-east-1	US East (N. Virginia) us-east-1	Bucket and objects not public	August 13, 2023, 23:46:06 (UTC+03:00)
kenantest2	US East (N. Virginia) us-east-1	Objects can be public	August 13, 2023, 10:18:54 (UTC+03:00)
practice.bucket.kenan	US East (N. Virginia) us-east-1	⚠️ Public	August 10, 2023, 17:11:43 (UTC+03:00)

**Buckets**

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

**▼ Storage Lens**

Dashboards

AWS Organizations settings

Feature spotlight 7

▶ AWS Marketplace for S3

and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

 **Block all public access**

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

 **Block public access to buckets and objects granted through *new* access control lists (ACLs)**

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

 **Block public access to buckets and objects granted through *any* access control lists (ACLs)**

S3 will ignore all ACLs that grant public access to buckets and objects.

 **Block public access to buckets and objects granted through *new* public bucket or access point policies**

S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

 **Block public and cross-account access to buckets and objects through *any* public bucket or access point policies**

S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

## Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

 **Bucket Versioning** **Disable** **Enable**

**Buckets**

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

**▼ Storage Lens**

- Dashboards
- AWS Organizations settings

Feature spotlight 7

▶ AWS Marketplace for S3

**Tags (0) - optional**

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

[Add tag](#)**Default encryption** [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

**Encryption type** [Info](#)

- Server-side encryption with Amazon S3 managed keys (SSE-S3)
- Server-side encryption with AWS Key Management Service keys (SSE-KMS)
- Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)  
Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the [Storage](#) tab of the [Amazon S3 pricing page](#).

**Bucket Key**

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

- Disable
- Enable

**► Advanced settings**

i After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

[Cancel](#)[Create bucket](#)

**▼ Account snapshot**Last updated: Sep 6, 2023 by Storage Lens. Metrics are generated every 24 hours. [Learn more](#)[View Storage Lens dashboard](#)**Total storage**  
4.1 MB**Object count**  
27**Average object size**  
157.2 KBYou can enable advanced metrics in the  
["default-account-dashboard"](#) configuration.**Buckets (6) [Info](#)**Buckets are containers for data stored in S3. [Learn more](#)  [Empty](#) [Delete](#) [Create bucket](#)

<input type="text"/> Find buckets by name				<a href="#"></a>	1	<a href="#"></a>	<a href="#"></a>
Name	AWS Region	Access	Creation date				
cf-templates-jbefz9bdboao-us-east-1	US East (N. Virginia) us-east-1	Bucket and objects not public	August 13, 2023, 23:46:06 (UTC+03:00)	<a href="#"></a>	<a href="#"></a>	<a href="#">Empty</a>	<a href="#">Delete</a>
kenan.destination.lambda.bucket	US East (N. Virginia) us-east-1	Bucket and objects not public	September 8, 2023, 10:15:28 (UTC+03:00)	<a href="#"></a>	<a href="#"></a>	<a href="#">Empty</a>	<a href="#">Delete</a>
kenan.source.lambda.bucket	US East (N. Virginia) us-east-1	Bucket and objects not public	September 8, 2023, 10:14:45 (UTC+03:00)	<a href="#"></a>	<a href="#"></a>	<a href="#">Empty</a>	<a href="#">Delete</a>
			August 13,				

AWS Services Arama [Alt+S] Global ▾ Knklc @ knklc76

Console Home IAM EC2 RDS DynamoDB ElastiCache VPC CloudFormation S3 Elastic Kubernetes Service EFS Route 53 Elastic Beanstalk CloudWatch Lambda API Gateway

Identity and Access Management (IAM) X

Search IAM

Dashboard

Access management

User groups

**Users** Roles Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

IAM > Roles

**Roles (20) Info**

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Search

<input type="checkbox"/>	Role name	Trusted entities	Last activity
<input type="checkbox"/>	<a href="#">AWSDataLifecycleManagerDefaultRole</a>	AWS Service: dlm	-
<input type="checkbox"/>	<a href="#">AWSServiceRoleForAmazonElasticFileSystem</a>	AWS Service: elasticfilesystem (Service-Linked)	14 days ago
<input type="checkbox"/>	<a href="#">AWSServiceRoleForAPIGateway</a>	AWS Service: ops.apigateway (Service-Linked)	-
<input type="checkbox"/>	<a href="#">AWSServiceRoleForApplicationAutoScaling_DynamoDBTable</a>	AWS Service: dynamodb.application	17 days ago
<input type="checkbox"/>	<a href="#">AWSServiceRoleForAutoScaling</a>	AWS Service: autoscaling (Service-Linked)	2 days ago
<input type="checkbox"/>	<a href="#">AWSServiceRoleForBackup</a>	AWS Service: backup (Service-Linked)	1 hour ago
<input type="checkbox"/>	<a href="#">AWSServiceRoleForElastiCache</a>	AWS Service: elasticache (Service-Linked)	17 days ago
<input type="checkbox"/>	<a href="#">AWSServiceRoleForElasticLoadBalancing</a>	AWS Service: elasticloadbalancing (Service-Linked)	2 days ago
<input type="checkbox"/>	<a href="#">AWSServiceRoleForGlobalAccelerator</a>	AWS Service: globalaccelerator (Service-Linked)	-

Create role Delete Edit Copy Share Details Logs Metrics Actions

Step 1

Select trusted entity

Step 2

Add permissions

Step 3

Name, review, and create

## Select trusted entity Info

### Trusted entity type

AWS service

Allow AWS services like EC2, Lambda, or others to perform actions in this account.

AWS account

Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

Web identity

Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

SAML 2.0 federation

Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

Custom trust policy

Create a custom trust policy to enable others to perform actions in this account.

### Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case

Lambda

Choose a use case for the specified service.

Use case

Lambda

Allows Lambda functions to call AWS services on your behalf.

Cancel

Next

## Add permissions Info

Permissions policies (1/881) Info

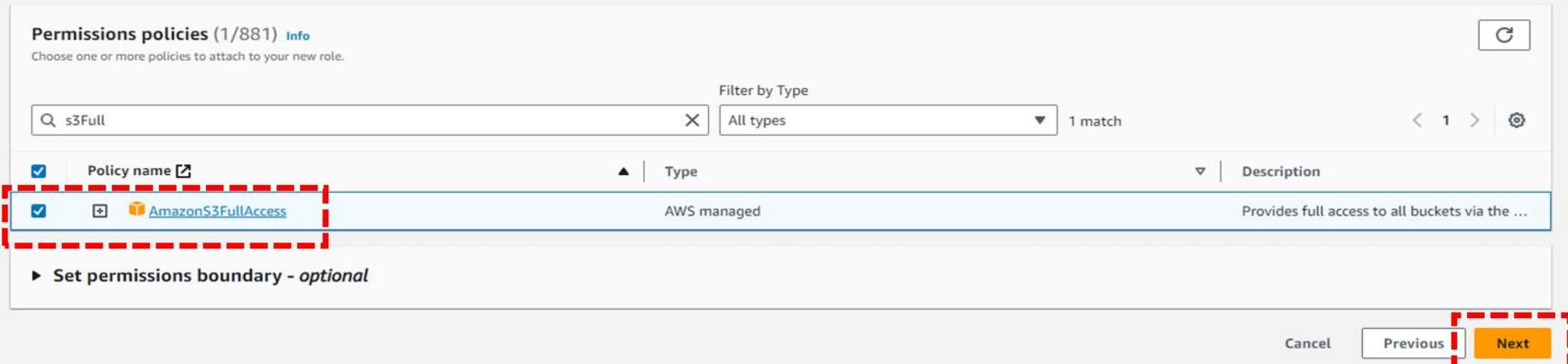
Choose one or more policies to attach to your new role.

Filter by Type

Policy name	Type	Description
<input checked="" type="checkbox"/> <a href="#">AmazonS3FullAccess</a>	AWS managed	Provides full access to all buckets via the ...

Set permissions boundary - optional

Cancel Previous Next



[Roles](#) > Create role

Selected entity

Policies

View, and create

## Name, review, and create

### Role details

#### Role name

Enter a meaningful name to identify this role.

Maximum 64 characters. Use alphanumeric and '+-=\_,@-\_.' characters.

#### Description

Add a short explanation for this role.

Maximum 1000 characters. Use alphanumeric and '+-=\_,@-\_.' characters.

## Trust policy

```
1 {  
2     "Version": "2012-10-17",  
3     "Statement": [  
4         {  
5             "Effect": "Allow",  
6             "Action": [  
7                 "sts:AssumeRole"  
8             ],  
9             "Principal": {  
10                 "Service": [  
11                     "lambda.amazonaws.com"  
12                 ]  
13             }  
14         }  
15     ]  
16 }
```

## Step 2: Add permissions

Edit

### Permissions policy summary

Policy name	Type	Attached as
<a href="#">AmazonS3FullAccess</a>	AWS managed	Permissions policy

## Step 3: Add tags

### Add tags - optional Info

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

[Add new tag](#)

You can add up to 50 more tags.

Cancel

Previous

Create role

## Create function Info

AWS Serverless Application Repository applications have moved to [Create application](#).

### 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.

Use lowercase numbers, hyphens, underscores, and 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.

### ▼ 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

### 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.



## Advanced settings

[Cancel](#)[Create function](#)

# lambda\_func\_1

ThrottleCopy ARNActions ▾

▼ Function overview [Info](#)

 lambda\_func\_1  
 Layers (0)

[+ Add trigger](#)

[+ Add destination](#)

Description  
-

Last modified  
14 seconds ago

Function ARN  
 arn:aws:lambda:us-east-1:835642848432:function:lambda\_func\_1

Function URL [Info](#)  
-

[Code](#) [Test](#) [Monitor](#) | [Configuration](#) [Aliases](#) [Versions](#)

### Code source [Info](#)

Upload from ▾

File Edit Find View Go Tools Window [Test](#) Deploy

Go to Anything (Ctrl-P)

lambda\_function Environment Var

Environment

```
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
```

Code

Test

Monitor

Configuration

Aliases

Versions

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

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

[Format JSON](#)

## AWS Lambda

X

Lambda &gt; Add trigger

## Add trigger

Trigger configuration Info

## Bucket

Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.

 s3/kenan.source.lambda.bucket X C

Bucket region: us-east-1

## Event types

Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

 All object create events X

## Prefix - optional

Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.

e.g. images/

## Suffix - optional

Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.

e.g. jpg

## Recursive invocation

If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. [Learn more](#)

I acknowledge that using the same S3 bucket for both input and output is not recommended and that this configuration can cause recursive invocations, increased Lambda usage, and increased costs.

Lambda will add the necessary permissions for AWS S3 to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

Cancel

Add

# lambda\_func\_1

[Throttle](#)[Copy ARN](#)[Actions ▾](#)

✓ The trigger kenan.source.lambda.bucket was successfully added to function lambda\_func\_1. The function is now receiving events from the trigger.

[X](#)

## Function overview [Info](#)

[+ Add destination](#)

### Description

### Last modified

2 minutes ago

### Function ARN

[arn:aws:lambda:us-east-1:835642848432:function:lambda\\_func\\_1](#)

### Function URL [Info](#)

[Code](#)[Test](#)[Monitor](#)[Configuration](#)[Aliases](#)[Versions](#)

## Code source [Info](#)

[Upload from ▾](#)[File](#) [Edit](#) [Find](#) [View](#) [Go](#) [Tools](#) [Window](#)[Test](#)[Deploy](#)[Go to Anything \(Ctrl-P\)](#)

lambda\_function ×

Environment Var ×



Environment

[lambda\\_func\\_1 /](#)  
[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!')
```

Code Test Monitor Configuration Aliases Versions

Code source Info

File Edit Find View Go Tools Window Test Deploy Changes not deployed

Go to Anything (Ctrl-P)

Environment

lambda\_function Environment Var

```
1 import json
2 import boto3
3
4 # boto3 S3 initialization
5 s3_client = boto3.client("s3")
6
7
8 def lambda_handler(event, context):
9     destination_bucket_name = 'kenan.destination.lambda.bucket'
10
11     # event contains all information about uploaded object
12     print("Event :", event)
13
14     # Bucket Name where file was uploaded
15     source_bucket_name = event['Records'][0]['s3']['bucket']['name']
16
17     # Filename of object (with path)
18     file_key_name = event['Records'][0]['s3']['object']['key']
19
20     # Copy Source Object
21     copy_source_object = {'Bucket': source_bucket_name, 'Key': file_key_name}
22
23     # S3 copy object operation
24     s3_client.copy_object(CopySource=copy_source_object, Bucket=destination_bucket_name, Key=file_key_name)
25
26     return {
27         'statusCode': 200,
28         'body': json.dumps('Hello from S3 events Lambda!')
29     }
```

Feedback Language

kenan.source.lambda.bucket [Info](#)

Objects Properties Permissions Metrics Management Access Points

**Objects (1)**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

[Copy S3 URI](#)  [Copy URL](#)  [Download](#)  [Open](#) [Delete](#) [Actions ▾](#) [Create folder](#) [Upload](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">sorry.jpg</a>	jpg	September 8, 2023, 10:31:42 (UTC+03:00)	87.9 KB	Standard

Amazon S3 > Buckets > kenan.destination.lambda.bucket [Info](#)

kenan.destination.lambda.bucket [Info](#)

Objects Properties Permissions Metrics Management Access Points

**Lambda function use it S3 trigger**



<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">sorry.jpg</a>	jpg	September 8, 2023, 10:31:43 (UTC+03:00)	87.9 KB	Standard

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

[Copy S3 URI](#)  [Copy URL](#)  [Download](#)  [Open](#) [Delete](#) [Actions ▾](#) [Create folder](#) [Upload](#)

Find objects by prefix

< 1 >

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">sorry.jpg</a>	jpg	September 8, 2023, 10:31:43 (UTC+03:00)	87.9 KB	Standard

## Create function Info

AWS Serverless Application Repository applications have moved to [Create application](#).

- 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.

lambda\_func\_2

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 3.7



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

▶ Advanced settings

Cancel

Create function

The screenshot shows the AWS Lambda console interface. At the top, there are several tabs: Code (highlighted with a red dashed box), Test, Monitor, Configuration, Aliases, and Versions. Below these, the 'Code source' tab is selected, showing the code editor. The 'Deploy' button in the toolbar is also highlighted with a red dashed box. A status message 'Changes not deployed' is displayed next to it. The code editor contains a Python script named 'lambda\_function.py' which generates Roman numerals from a random number. The environment sidebar shows a single file 'lambda\_func\_2.py' with a dependency 'lambda\_function.py'. The bottom navigation bar has tabs for Code, Test (highlighted with a red dashed box), Monitor, Configuration, Aliases, and Versions. On the right side, there are 'Save' and 'Test' buttons, both highlighted with red dashed boxes.

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**

test-1

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**

```
1 + {  
2 |  
3 }
```

Format JSON

Code source Info

Upload from ▾

File Edit Find View Go Tools Window

Test ▾ Deploy



Go to Anything (Ctrl-P)

lambda\_function.X

Environment Var X

Execution result X

Status: Succeeded Max memory used: 37 MB Time: 14.27 ms

λ lambda\_func\_2 /

λ lambda\_function.py

Execution result

Test Event Name

test-1

Response

"Roman Representation of the 2364 is MMCCCLXIV"

Function Logs

START RequestId: 6aca939c-942f-4085-912b-523f3e33980b Version: \$LATEST

END RequestId: 6aca939c-942f-4085-912b-523f3e33980b

REPORT RequestId: 6aca939c-942f-4085-912b-523f3e33980b Duration: 14.27 ms Billed Duration: 15 ms Memory Size: 128 MB Max Memory Used: 37 MB

Request ID

6aca939c-942f-4085-912b-523f3e33980b

lambda\_func\_3

[Throttle](#) [Copy AR](#)

▼ Function overview [Info](#)

**lambda\_func\_3**

**Layers** (0)

[+ Add trigger](#)

[+ Add destination](#)

Description  
-

Last modified  
17 seconds ago

Function ARN  
 arn:aws:lambda:us-east-1:835642848432:function:lan

Function URL [Info](#)  
-

[Code](#) [Test](#) [Monitor](#) [Configuration](#) [Aliases](#) [Versions](#)

**Code source** [Info](#)

File Edit Find View Go Tools Window [Test](#) Deploy Changes not deployed

Go to Anything (Ctrl-P)

Environment Var

Environment

lambda\_function /

lambda\_function.py

```
1 def lambda_handler(event, context):
2     roman = ['M', 'CM', 'D', 'CD', 'C', 'XC', 'L', 'XL', 'X', 'IX', 'V', 'IV', 'I']
3     sayi = [1000, 900, 500, 400, 100, 90, 50, 40, 10, 9, 5, 4, 1]
4     romanvalue = ""
5     for i, d in enumerate(sayi):
6         while (event['num'] >= d):
7             event['num'] -= d
8             romanvalue += roman[i]
9     return romanvalue
```

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

test-3

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   "num": 416173  
3 }
```

[Code](#)[Test](#)[Monitor](#)[Configuration](#)[Aliases](#)[Versions](#)**Code source**[Info](#)[Upload from](#)[File](#) [Edit](#) [Find](#) [View](#) [Go](#) [Tools](#) [Window](#)[Test](#) ▾ [Deploy](#)

Go to Anything (Ctrl-P)

lambda\_function.x

Environment Var x

Execution result x



Status: Succeeded

Max memory used: 37 MB



Environment

λ lambda\_func\_3 - /  
λ lambda\_function.py

Execution results

Test Event Name  
test-3Response  
"CDXVI"

Function Logs

```
START RequestId: 89332e69-2564-4e57-a821-c7a024e55248 Version: $LATEST
END RequestId: 89332e69-2564-4e57-a821-c7a024e55248
REPORT RequestId: 89332e69-2564-4e57-a821-c7a024e55248 Duration: 1.40 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memory Used: 37 MB
```

Request ID

89332e69-2564-4e57-a821-c7a024e55248

## Create function Info

AWS Serverless Application Repository applications have moved to [Create application](#).

### 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.

lambda\_APIGateway\_func

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 3.7



#### 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

▶ Advanced settings

Cancel

Create function

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

▼ Function overview [Info](#)



+ Add trigger

+ Add destination

Description

-

Last modified

25 seconds ago

Function ARN

arn:aws:lambda:us-east-1:835642848432:function:lambda\_APIGateway\_func

Function URL [Info](#)

-

[Code](#) [Test](#) [Monitor](#) [Configuration](#) [Aliases](#) [Versions](#)

Code source [Info](#)

The screenshot shows the AWS Lambda code editor interface. At the top, there's a toolbar with File, Edit, Find, View, Go, Tools, Window, Test (which is currently selected), Deploy, and Changes not deployed. Below the toolbar is a search bar labeled "Go to Anything (Ctrl-P)". The main area shows an environment named "lambda\_function" with an "Environment Var X" entry. On the left, there's a sidebar for "Environment" with a "lambda\_APIGateway\_func" folder containing a "lambda\_function.py" file. The code editor itself contains the following Python code:

```
1 from __future__ import print_function
2 from random import randint
3
4 print('Loading function')
5
6 def lambda_handler(event, context):
7     myNumber = randint(0,8)
8     myList = ['Berlin', 'London', 'Athens', 'New York', 'Istanbul', 'Ankara', 'Brussels','Paris','CapeTown']
9     return myList[myNumber]
```

**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**

test-5

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**

```
1+ {  
2|  
3 }  
|
```

[Format JSON](#)

Code | Test | Monitor | Configuration | Aliases | Versions

Code source Info

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P) lambda\_function.x Environment Var X Execution result X

Status: Succeeded

Environment

lambda\_APIGateway lambda\_function.py

Execution results

Test Event Name test-5

Response "Brussels"

Function Logs

```
START RequestId: 69e7835a-b928-4c09-a0c0-04c7c92bae35 Version: $LATEST
END RequestId: 69e7835a-b928-4c09-a0c0-04c7c92bae35
REPORT RequestId: 69e7835a-b928-4c09-a0c0-04c7c92bae35 Duration: 8.01 ms Billed Duration: 9 ms Memory Size: 128 MB Max Memory Used: 37 MB
```

Request ID

69e7835a-b928-4c09-a0c0-04c7c92bae35

**i The new API Gateway console experience is now available**

We've redesigned the API Gateway console to make it easier to use. [Try out the new console](#). From 30th October 2023 the old console will no longer be available..

[Import](#)[Build](#)

## WebSocket API

Build a WebSocket API using persistent connections for real-time use cases such as chat applications or dashboards.

Works with the following:

Lambda, HTTP, AWS Services

[Build](#)

## REST API

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

Works with the following:

Lambda, HTTP, AWS Services

[Import](#)[Build](#)

## REST API Private

Create a REST API that is only accessible from within a VPC.

Works with the following:

Lambda, HTTP, AWS Services

[Import](#)[Build](#)



## Choose the protocol

Select whether you would like to create a REST API or a WebSocket API.

REST  WebSocket

## Create new API

In Amazon API Gateway, a REST API refers to a collection of resources and methods that can be invoked through HTTPS endpoints.

New API  Import from Swagger or Open API 3  Example API

## Settings

Choose a friendly name and description for your API.

API name*	<input type="text" value="MyFirstAPI"/>
Description	<input type="text" value="dev"/>
Endpoint Type	<input type="text" value="Regional"/> ⓘ

\* Required

Create API



Services

Search [Alt+S]

[Console Home](#) [IAM](#) [EC2](#) [RDS](#) [DynamoDB](#) [ElastiCache](#) [VPC](#) [CloudFormation](#) [S3](#) [Elastic Kubernetes Service](#) [EFS](#) [Route 53](#) [Elastic Beanstalk](#)[Amazon API Gateway](#)

APIs &gt; MyFirstAPI (1zd7sxs9ej) &gt; Resources &gt; / (ely34elfs7)

APIs

Custom Domain Names

VPC Links

API: MyFirstAPI

Resources

Stages

Authorizers

Gateway Responses

Models

Resource Policy

Documentation

Dashboard

Settings

Resources

Actions ▾

/ Methods

## RESOURCE ACTIONS

- [Create Method](#)
- [Create Resource](#)
- [Enable CORS](#)

[Edit Resource Documentation](#)

## API ACTIONS

- [Deploy API](#)
- [Import API](#)
- [Edit API Documentation](#)
- [Delete API](#)

No methods defined for the reso

resources

Actions

**New Child Resource**

Use this page to create a new child resource for your resource.

Configure as  proxy resource

Resource Name\*



city

Resource Path\*



You can add path parameters using brackets. For example, the resource path `{username}` represents a path parameter called 'username'. Configuring `/proxy+{proxy+}` as a proxy resource catches all requests to its sub-resources. For example, it works for a GET request to `/foo`. To handle requests to `/`, add a new ANY method on the `/` resource.

Enable API Gateway CORS



\* Required

Cancel

**Create Resource**



### The new API Gateway console experience is now available

We've redesigned the API Gateway console to make it easier to use. [Try out the new console.](#) From 30th October 2023 the old console w

Resources

Actions ▾

/city Methods

OPTION

/

/city

OPTION

#### RESOURCE ACTIONS

Create Method

Create Resource

Enable CORS

Edit Resource Documentation

Delete Resource

#### API ACTIONS

Deploy API

Import API

Edit API Documentation

Delete API

None

Not required

Resources

Actions

/city - GET - Setup



/  
/city  
GET  
OPTIONS

Choose the integration point for your new method.

Integration type

- Lambda Function
- HTTP
- Mock
- AWS Service
- VPC Link

Use Lambda Proxy integration

Lambda Region

us-east-1

Lambda Function

lambda\_APIGateway\_func

Use Default Timeout

Save

The new API Gateway console experience is now available

We've redesigned the API Gateway console to make it easier to use. Try out the new console. From 30th October 2023 the old console will no longer be available.

Resources

Actions ▾

## /city - GET - Method Execution



## Method Request

Auth: NONE  
ARN: arn:aws:execute-api:us-east-1:835642848432:1zd7sxs9ej/\*:GET/city

## Integration Request

Type: LAMBDA  
Region: us-east-1



Client

## Method Response

HTTP Status: 200  
Models: application/json => Empty



## Integration Response

HTTP status pattern: -  
Output passthrough: No



Lambda lambda\_APIGateway\_func

sources

Actions ▾

[◀ Method Execution](#) /city - GET - Method Test

/

▼ /city

GET

OPTIONS

Make a test call to your method. When you make a test call, API Gateway skips authorization and directly invokes your method

## Path

No path parameters exist for this resource. You can define path parameters by using the syntax `{myPathParam}` in a resource path.

## Query Strings

{city}

## Headers

{city}

## Stage Variables

No stage variables exist for this method.

## Request Body

Request Body is not supported for GET methods.

Test

Request: /city

Status: 200

Latency: 20 ms

## Response Body

"London"

## Response Headers

```
{"Content-Type":["application/json"],"X-Amzn-Trace-Id":["Root=1-64fad26b-ad9f1ef00ec0dd0956f2b576;Sampled=0;lineage=c1bac341:0"]}
```

## Logs

```
Execution log for request f556f448-d35c-42a0-a8b6-f313969515f4
Fri Sep 08 07:51:07 UTC 2023 : Starting execution for request: f556f448-d35c-42a0-a8b6-f313969515f4
Fri Sep 08 07:51:07 UTC 2023 : HTTP Method: GET, Resource Path: /city
Fri Sep 08 07:51:07 UTC 2023 : Method request path: {}
Fri Sep 08 07:51:07 UTC 2023 : Method request query string: {}
Fri Sep 08 07:51:07 UTC 2023 : Method request headers: {}
Fri Sep 08 07:51:07 UTC 2023 : Method request body before transformations:
Fri Sep 08 07:51:07 UTC 2023 : Endpoint request URI: https://lambda.us-east-1.amazonaws.com/2015-03-31/functions/arn:aws:lambda:us-east-1:835642848432:function:lambda_APIGateway_func/invocations
Fri Sep 08 07:51:07 UTC 2023 : Endpoint request headers: {x-amzn-lambda-integration-tag=f556f448-d35c-42a0-a8b6-f313969515f4, Authorization=*****}
*****
```

The new API Gateway console experience is now available  
We've redesigned the API Gateway console to make it easier to use. Try out the new console. From 30th October 2023 the old console will no longer be available.

Resources Actions - /city - GET - Method Execution

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

Method Request

Auth: NONE

ARN: arn:aws:execute-api:us-east-1:835642848432:1zd7sxs9ej/\*/GET/city

Integration Request

Type: LAMBDA

Region: us-east-1

Method Response

HTTP Status: 200

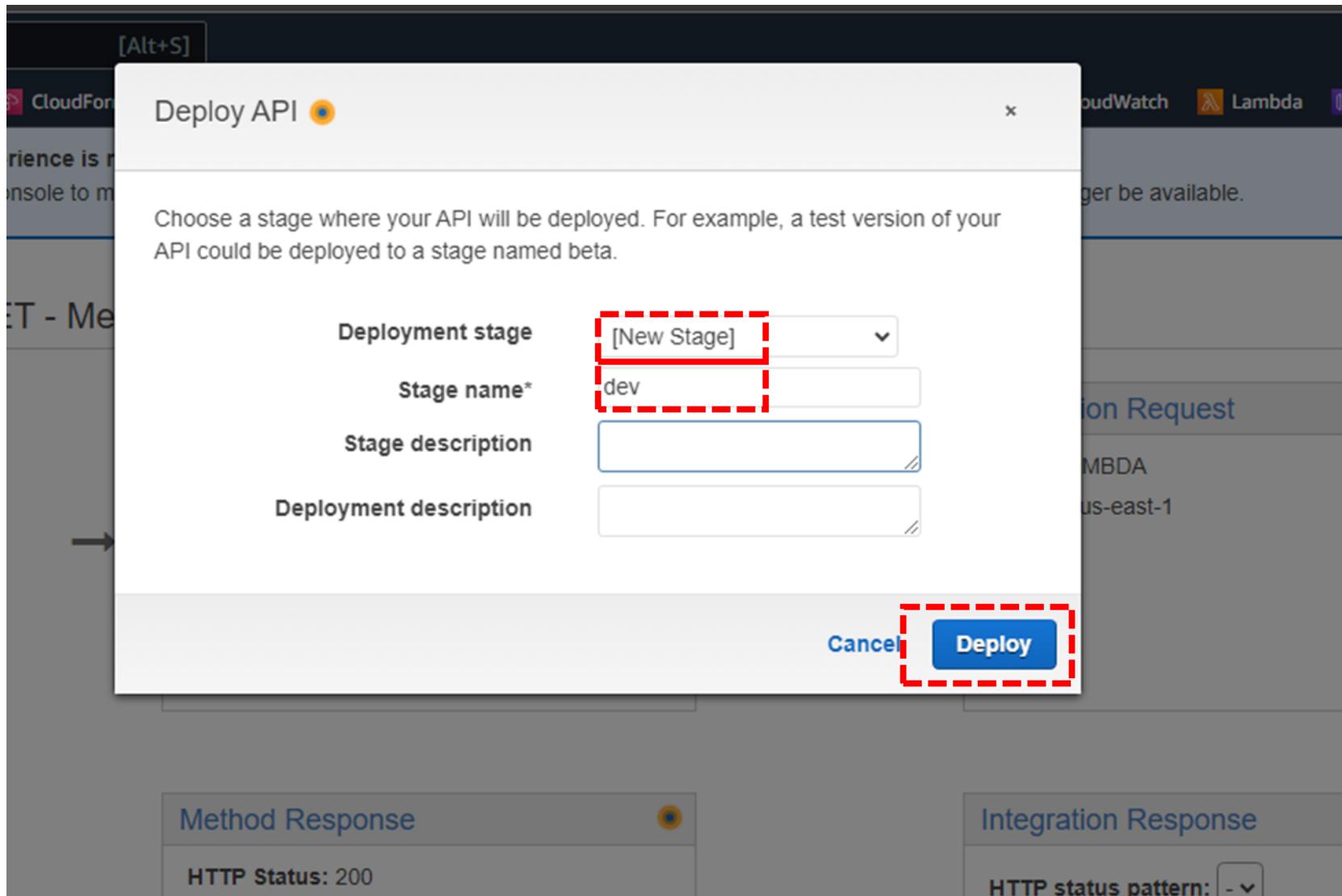
Models: application/json => Empty

Integration Response

HTTP status pattern: -

Output passthrough: No

```
graph TD; ME[Method Execution] --> MR[Method Request]; ME --> IR[Integration Request]; ME --> MR2[Method Response]; ME --> IR2[Integration Response]; sidebar[Actions] --> Deploy[Deploy API]
```



Stages Create

- dev
  - /
  - /city
    - GET
    - OPTIONS

## dev - GET - /city

Invoke URL: <https://1zd7sxs9ej.execute-api.us-east-1.amazonaws.com/dev/city>

Use this page to override the dev stage settings for the GET to /city method.

Settings  Inherit from stage  
 Override for this method

Go invoke URL address and Refresh URL

Save Changes

