









## Console Home [Info](#)

[Reset to default layout](#)[+ Add widgets](#)

### Recently visited [Info](#)

-  [Lambda](#)
-  [S3](#)
-  [Amazon Bedrock](#)
-  [API Gateway](#)
-  [CloudWatch](#)
-  [IAM](#)
-  [Support](#)
-  [Billing and Cost Management](#)

[View all services](#)

### Applications (0) [Info](#)

[Create application](#)

Region: US East (N. Virginia)

us-east-1 (Current Region) ▾

&lt; 1 &gt;

Name ▾	Description ▾	Region ▾	Originati. ★ ▲
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No applications  
Get started by creating an application.

[Create application](#)[Go to myApplications](#)

### Welcome to AWS



[Getting started with AWS](#)

Learn the fundamentals and find valuable information to get the most out of AWS.

### AWS Health [Info](#)

Open issues  
0 Past 7 days

Scheduled changes  
1 Upcoming and past 7 days

### Cost and usage [Info](#)

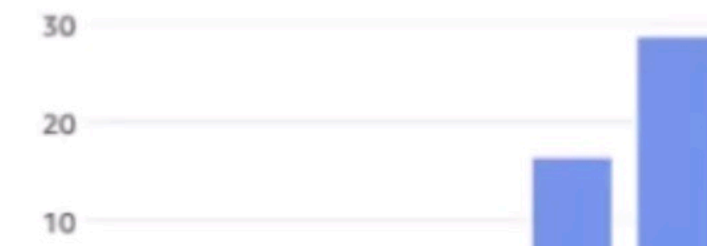
Current month costs

**\$29.01**

↑ 96,600% compared to last month for same period

Forecasted month end costs

Cost (\$)





## 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.

### Basic information

#### Function name

Enter a name that describes the purpose of your function.

Function name must be 1 to 64 characters, must be unique to the Region, and can't include spaces. Valid characters are a-z, A-Z, 0-9, hyphens (-), and underscores (\_).

#### 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**

► **Additional Configurations**

Use additional configurations to set up code signing, function URL, tags, and Amazon VPC access for your function.

Cancel

Create function



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

RECIPEGENERATORFUNCTION

lambda\_function.py

DEPLOY [UNDEPLOYED CHANGES]

You have undeployed changes.

Deploy (⇧⌘U)

Test (⇧⌘I)

TEST EVENTS [NONE SELECTED]

+ Create new test event

ENVIRONMENT VARIABLES

lambda\_function.py

```
4 from botocore.awsrequest import awsrequestimport requests
5 def lambda_handler(event, context):
6     try:
7         if 'body' in event:
8             body = json.loads(event['body'])
9         else:
10             body = eventingredients = body.get('ingredients', [])
11         if not ingredients:
12             return {
13                 'statusCode': 400,
14                 'body': json.dumps({'error': 'No ingredients provided'})
15             }
16         region = "us-east-1" # Replace with your region
17         bedrock_endpoint = f"https://bedrock.{region}.amazonaws.com"
18         model_id = "amazon.titan-text-premier-v1:0"
19         url = "{bedrock_endpoint}/model/{model_id}/invoke"
20         session = boto3.Session()
21         credentials = session.get_credentials().get_frozen_credentials()
22         request = AWSRequest(method="POST", url=url, data=json.dumps({"ingredients": ingredients}))
23         SigV4Auth(credentials, "bedrock", region).add_auth(request)
24         headers = dict(request.headers)
25         headers["Content-Type"] = "application/json"
26         response = requests.post(url, headers=headers, json={"ingredients": ingredients})
27         if response.status_code != 200:
28             return {
29                 'statusCode': response.status_code,
30                 'body': json.dumps({'error': response.text})
31             }
32         model_output = response.json()
33         recipe = model_output.get('recipe', 'No recipe found')
34         return {
35             'statusCode': 200,
36             'body': json.dumps({'recipe': recipe})
```

Ln 28, Col 33 Spaces: 4 UTF-8 LF Python Lambda Layout: U.S.

## Code properties [Info](#)

Package size

SHA256 hash

Last modified



## Console Home Info

Reset to default layout

+ Add widgets

### Recently visited Info

-  [API Gateway](#)
-  [Lambda](#)
-  [S3](#)
-  [Amazon Bedrock](#)
-  [CloudWatch](#)
-  [IAM](#)
-  [Support](#)
-  [Billing and Cost Management](#)

[View all services](#)

### Applications (0) Info

Create application

Region: US East (N. Virginia)

us-east-1 (Current Region) ▼

&lt; 1 &gt;


Name	Description	Region	Originati.	★ ▲
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No applications  
Get started by creating an application.


Create application

[Go to myApplications](#)

### Welcome to AWS

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Learn the fundamentals and find valuable information to get the most out of AWS.

 [Training and certification](#)

Learn from AWS experts and advance your skills and

### AWS Health Info

Open issues  
0 Past 7 days

Scheduled changes  
1 Upcoming and past 7 days

Other notifications  
0 Past 7 days

### Cost and usage Info

Current month costs  
**\$29.01**  
↑ 96,600% compared to last month for same period

Forecasted month end costs  
**\$29.01**  
↑ 73% compared to last month's total costs





- API Gateway
- APIs
- Custom domain names
- Domain name access associations
- VPC links
- Usage plans
- API keys
- Client certificates
- Settings

APIs (1/1)

Find APIs

Delete

Create API

< 1 >

Name	Description	ID	Protocol	API endpoint type	Created
<div><div></div><div>recipe-api</div></div>		ap50bzrlmk	HTTP	Regional	2025-01-12

## Choose an 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.

**Works with the following:**

Lambda, HTTP backends

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

### WebSocket API

- Step 1  
● **Create an API**
- Step 2 - optional  
● Configure routes
- Step 3 - optional  
● Define stages
- Step 4  
● Review and create

## Create an API

### Create and configure integrations

Specify the backend services that your API will communicate with. These are called integrations. For a Lambda integration, API Gateway invokes the Lambda function and responds with the response from the function. For an HTTP integration, API Gateway sends the request to the URL that you specify and returns the response from the URL.

#### Integrations (1) [Info](#)

Lambda ▼

[Remove](#)

AWS Region

us-east-1 ▼

Lambda function

🔍 arn:aws:lambda:us-east-1:188314100450:function:action\_group\_quick\_! ✕

Version

2.0 ▼

[Learn more](#)[Add integration](#)

#### API name

An HTTP API must have a name. This name is cosmetic and does not have to be unique; you will use the API's ID (generated later) to programmatically refer to this API.

RecipeApi

[Cancel](#)[Review and create](#)[Next](#)



Step 1

● Create an API

Step 2 - optional

● Configure routes

Step 3 - optional

⦿ **Define stages**

Step 4

○ Review and create

## Define stages - optional

### Configure stages [Info](#)

Stages are independently configurable environments that your API can be deployed to. You must deploy to a stage for API configuration changes to take effect, unless that stage is configured to autodeploy. By default, all HTTP APIs created through the console have a default stage named \$default. All changes that you make to your API are autodeployed to that stage. You can add stages that represent environments such as development or production.

Stage name

\$default

[Add stage](#)

Auto-deploy

[Remove](#)[Cancel](#)[Previous](#)[Next](#)

Step 1

● Create an API

Step 2 - optional

● Configure routes

Step 3 - optional

● **Define stages**

Step 4

○ Review and create

## Define stages - optional

### Configure stages [Info](#)

Stages are independently configurable environments that your API can be deployed to. You must deploy to a stage for API configuration changes to take effect, unless that stage is configured to autodeploy. By default, all HTTP APIs created through the console have a default stage named \$default. All changes that you make to your API are autodeployed to that stage. You can add stages that represent environments such as development or production.

Stage name

Production

[Add stage](#)

Auto-deploy

[Remove](#)[Cancel](#)[Previous](#)[Next](#)

- Step 1  
Create an API
- Step 2 - optional  
Configure routes
- Step 3 - optional  
Define stages
- Step 4  
**Review and create**

## Review and create

### API name and integrations

[Edit](#)

#### API name

- RecipeApi

#### Integrations

- action\_group\_quick\_start\_ywu28-ybrib (Lambda)

### Routes

[Edit](#)

#### Routes

- POST /generate\_recipe → action\_group\_quick\_start\_ywu28-ybrib (Lambda)

### Stages

[Edit](#)

#### Stages

- Production (Auto-deploy: enabled)



aws

Search

[Option+S]

United States (N. Virginia)

API Gateway > APIs > Routes - recipe-api (ap50bzrlmk)

API Gateway

APIs

Custom domain names

Domain name access associations

VPC links

API: recipe-api...(ap50bzrlmk)

Develop

Routes

Authorization

Integrations

CORS

Reimport

Export

Deploy

Stages

Monitor

Routes

Routes for recipe-api

Search

/action\_group\_quick\_start\_ywu28-ybrib

POST

Route details

POST /action\_group\_quick\_start\_ywu28-ybrib (ID: voq0mft)

ARN

arn:aws:apigateway:us-east-1::/apis/ap50bzrlmk/routes/voq0mft

Authorization

Authorizers protect your API against unauthorized requests. Routes with no authorization attached are open.

No authorizer attached to this route.

Attach authorization

Integration

The integration is the backend resource that this route calls when it receives a request.

to7bvd9

Configure

Stage: -

Deploy

Delete

Edit

## &lt;

VPC links

API: recipe-api...(ap50bzrlmk)

## Export

### Throttling

## Create

 Search

☐ \$default

 RecipeAPI

## Delete

[Edit](#)

RecipeAPI

January 11, 2025 8:39 PM

January 11, 2025 8:40 PM

Invoke URL

<https://ap50bzrlmk.execute-api.us-east-1.amazonaws.com/RecipeAPI>

### Description

None

### Automatic Deployment

⊖ Disabled

Deployment ID

8spoh6

Deployment created

January 11, 2025 8:39 PM

### Deployment description

None

### Stage variables

 Find resources

### Key

Value

```
/Users/chrishe Witt  curl -X POST "https://v9vd9bmdh9.execute-api.us-east-1.amazonaws.com/Production/generate_recipe" \
-H "Content-Type: application/json" \
-d '{
  "ingredients": ["chicken", "garlic", "lemon"]
}'

{"recipe": {"title": "Garlic Lemon Chicken Recipe", "ingredients": ["chicken", "garlic", "lemon"], "instructions": ["Preheat the oven to 375\u00b0F (190\u00b0C).", "Place the chicken in a baking dish.", "Mix garlic, lemon juice, and olive oil.", "Pour the mixture over the chicken.", "Bake for 35-40 minutes or until fully cooked."]]}

/Users/chrishe Witt
```