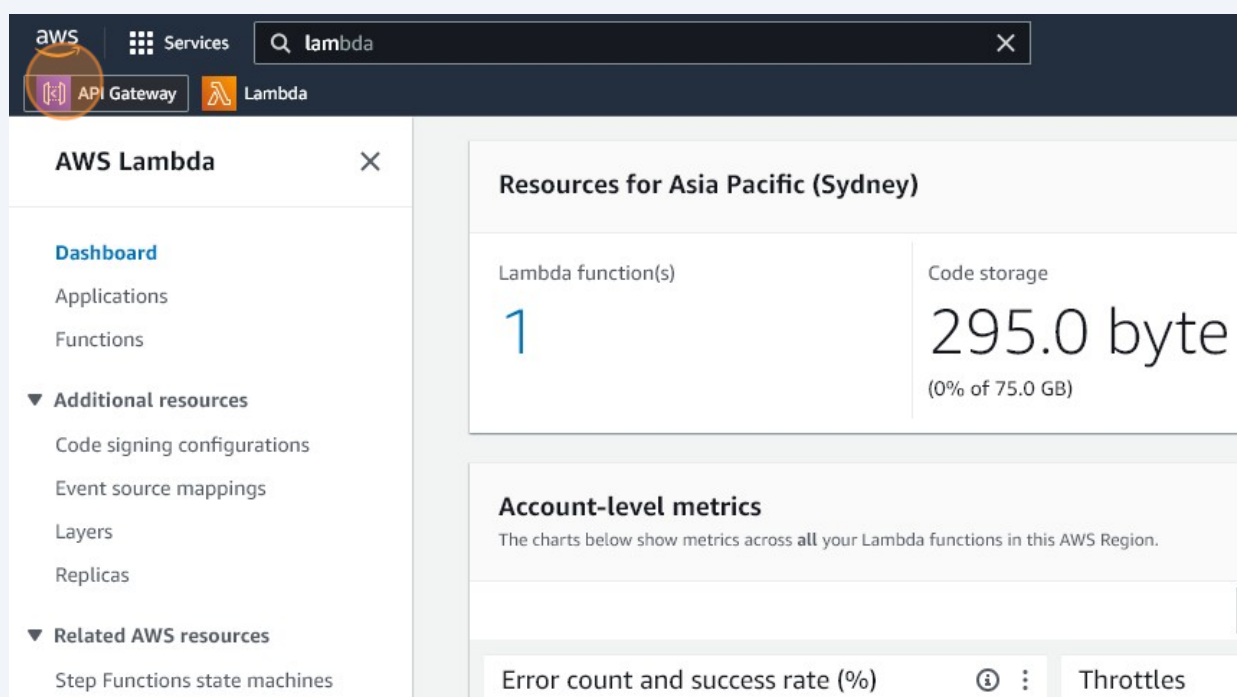# Configure AWS Lambda Function for REST API Integration

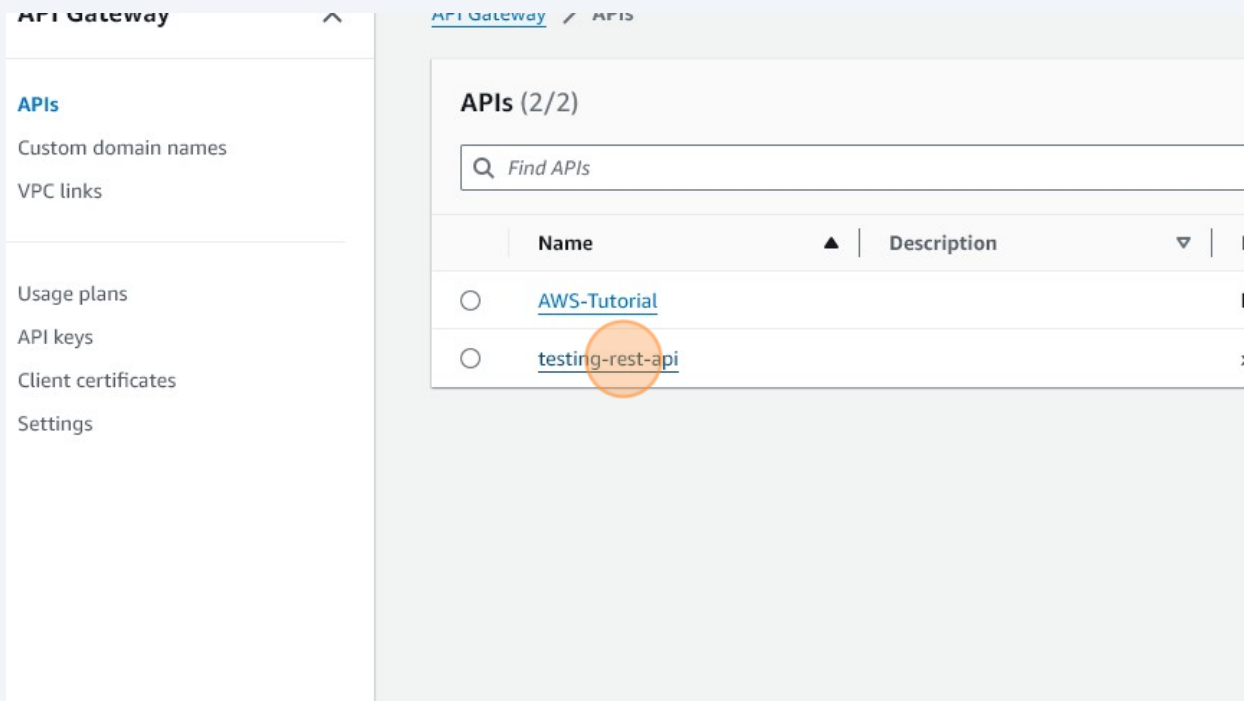**1** Navigate to **https://ap-southeast-2.console.aws.amazon.com/lambda/home?region=ap-southeast-2#/discover**
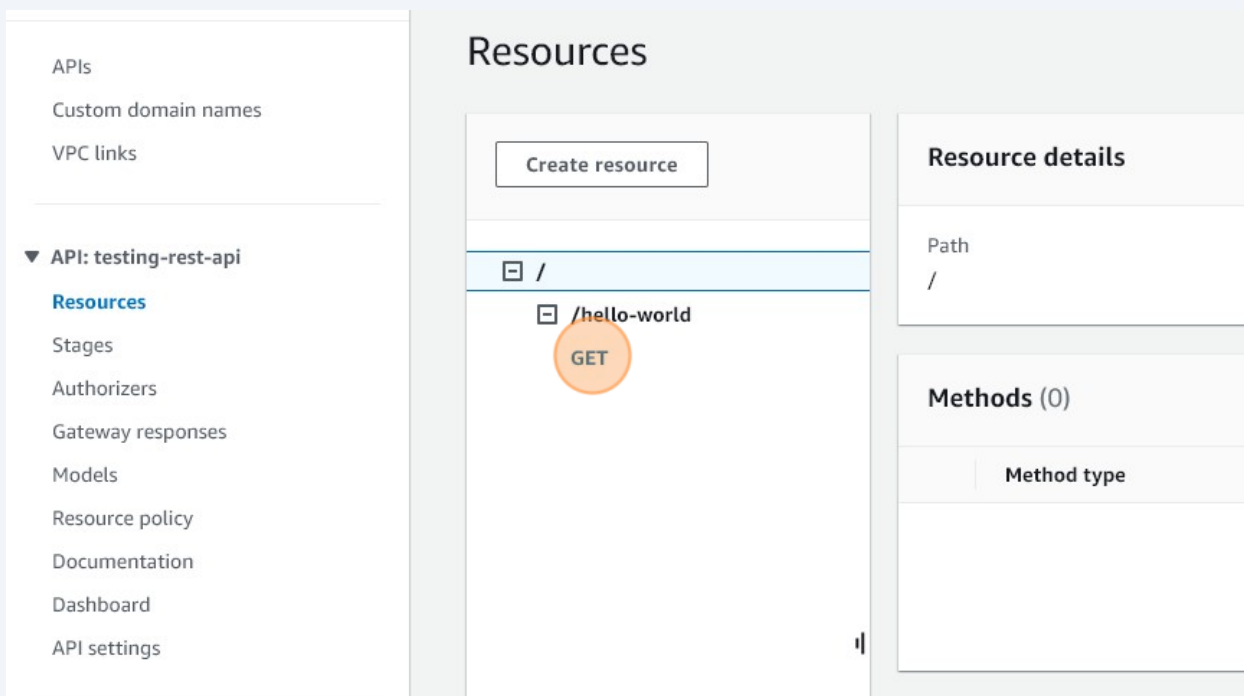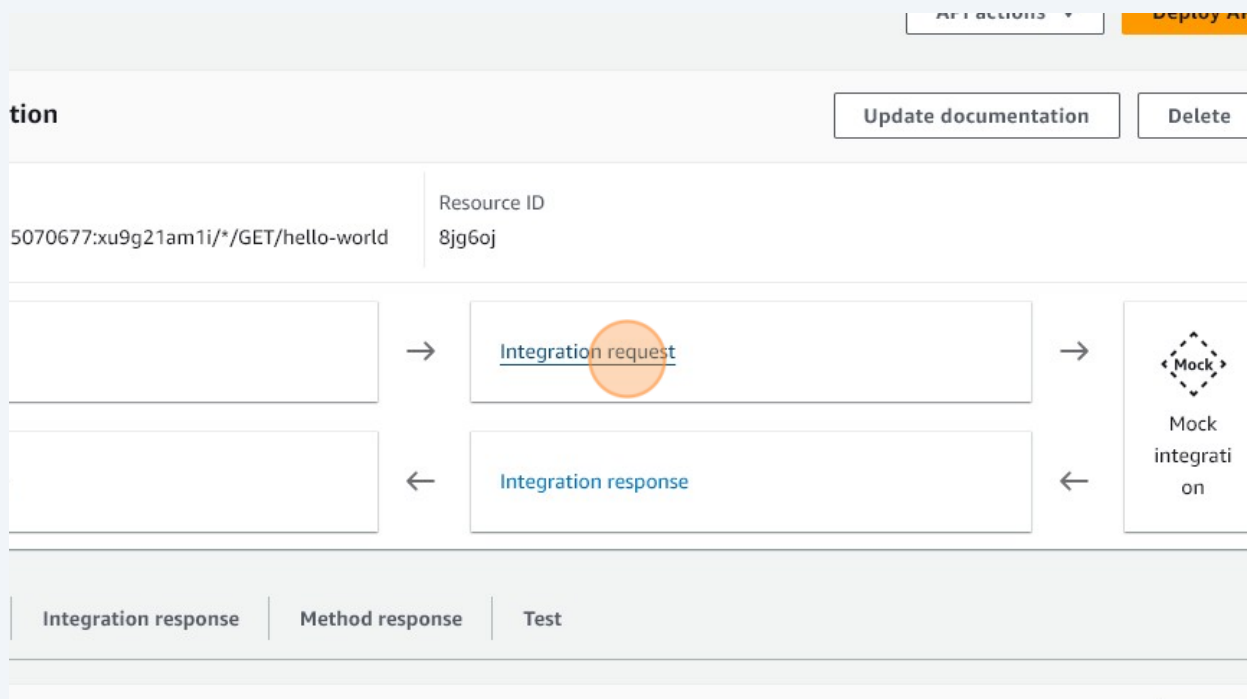
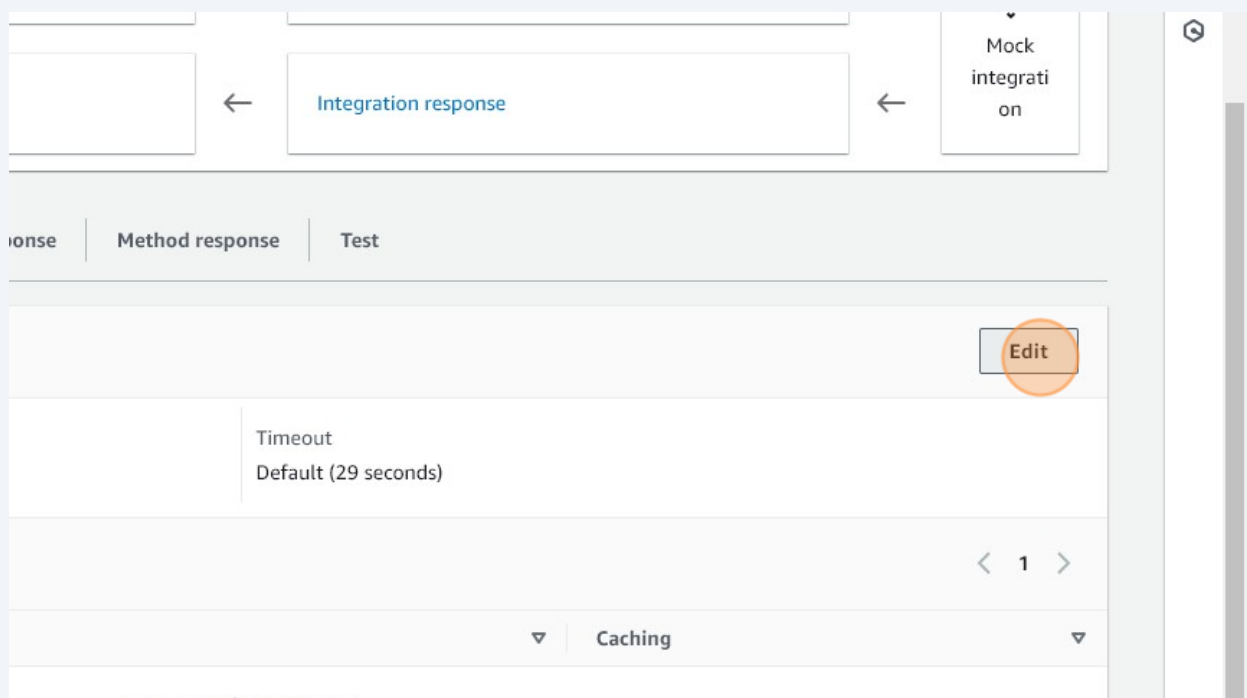**2** Click this image.

3 Click "testing-rest-api"

API Gateway ∧

APIs
Custom domain names
VPC links

Usage plans
API keys
Client certificates
Settings

API Gateway / APIs

APIs (2/2)

🔍 *Find APIs*

Name	▲	Description	▽	
○	AWS-Tutorial			
○	testing-rest-api			

---

4 Click "GET"

APIs
Custom domain names
VPC links

▼ **API: testing-rest-api**
Resources
Stages
Authorizers
Gateway responses
Models
Resource policy
Documentation
Dashboard
API settings

Resources

Create resource

⊟ /
  ⊟ /hello-world
    GET

Resource details

Path
/

Methods (0)

Method type

5 Click "Integration request"

Update documentation | Delete

tion

Resource ID
5070677:xu9g21am1i/*/GET/hello-world | 8jg6oj

→ Integration request

← Integration response

Mock
integrati
on

Integration response | Method response | Test

6 Click "Edit"

← Integration response

Mock
integrati
on

onse | Method response | Test

Edit

Timeout
Default (29 seconds)

< 1 >

▽ Caching ▽

7   Click this radio button.

API Gateway > APIs > Resources - testing-rest-api (xu9g21am1i) > Edit integration request

Edit integration request

Method details

Integration type

○ Lambda function
Integrate your API with a Lambda function.

○ HTTP
Integrate with an existing HTTP endpoint.

● Mock
Generate a response based on API Gateway mappings and transformations.

○ AWS service
Integrate with an AWS Service.

○ VPC link
Integrate with a resource that isn't accessible over the public internet.

---

8   Click "Lambda function"

API Gateway > APIs > Resources - testing-rest-api (xu9g21am1i) > Edit integration request

Edit integration request

Method details

Integration type

● Lambda function
Integrate your API with a Lambda function.

○ HTTP
Integrate with an existing HTTP endpoint.

○ Mock
Generate a response based on API Gateway mappings and transformations.

○ AWS service
Integrate with an AWS Service.

○ VPC link
Integrate with a resource that isn't accessible over the public internet.

9 Click the "Choose a Lambda function or enter its ARN" field.

⚠ **Different integration type**
If you switch the integration type, you will overwrite the existing configuration. This action cannot be undone.

⬤ Lambda proxy integration
Send the request to your Lambda function as a structured event.

Lambda function
Provide the Lambda function name or alias. You can also provide an ARN from another account.

| ap-southe... ▼ | 🔍 Choose a Lambda function or enter its ARN |

⬤ Default timeout
The default timeout is 29 seconds.

Request body passthrough
⦿ When there are no templates defined (recommended)
○ When no template matches the request content-type header
○ Never

▣ CloudShell   Feedback

---

10 Click "arn:aws:lambda:ap-southeast-2:960455070677:function:TestingAWSLamdaFunction"

⚠ **Different integration type**
If you switch the integration type, you will overwrite the existing configuration. This action cannot be undone.

⬤ Lambda proxy integration
Send the request to your Lambda function as a structured event.

Lambda function
Provide the Lambda function name or alias. You can also provide an ARN from another account.

| ap-southe... ▼ | 🔍 Choose a Lambda function or enter its ARN |

arn:aws:lambda:ap-southeast-2:960455070677:function:TestingAWSLamdaFunction

⬤ Default timeout
The default timeout is 29 seconds.

Request body passthrough
⦿ When there are no templates defined (recommended)
○ When no template matches the request content-type header
○ Never

▣ CloudShell   Feedback

11 Click the "Execution role" field.

Lambda function
Provide the Lambda function name or alias. You can also provide an ARN from another account.

| ap-southe... ▼ | Q arn:aws:lambda:ap-southeast-2:960455070677:functioɪ ✕ |

ⓘ Grant API Gateway permission to invoke your Lambda function. To turn off, update the function's resource policy yourself, or provide an invoke role that API Gateway uses to invoke your function.

Execution role

arn:aws:iam::myAccount:role/myRole

Credential cache

Do not add caller credentials to cache key ▼

🔵 Default timeout
The default timeout is 29 seconds.

Request body passthrough
🔵 When there are no templates defined (recommended)
◯ When no template matches the request content-type header

12 Type " **Backspace**"

13 Click "Do not add caller credentials to cache key"

14 Click "Do not add caller credentials to cache key"

15 Click "Save"

/pe header

Cancel   **Save**

16 Click "Integration response"

Resource ID
55070677:xu9g21am1i/*/GET/hello-world   8jg6oj

→   Integration request   → λ
Lambda
integrati
on

←   Integration response   ←

Integration response   Method response   Test

Edit

Region

17 Click "application/json"

200

Header mappings (0)

Name	▲	Mapping value
		No hea
		No header
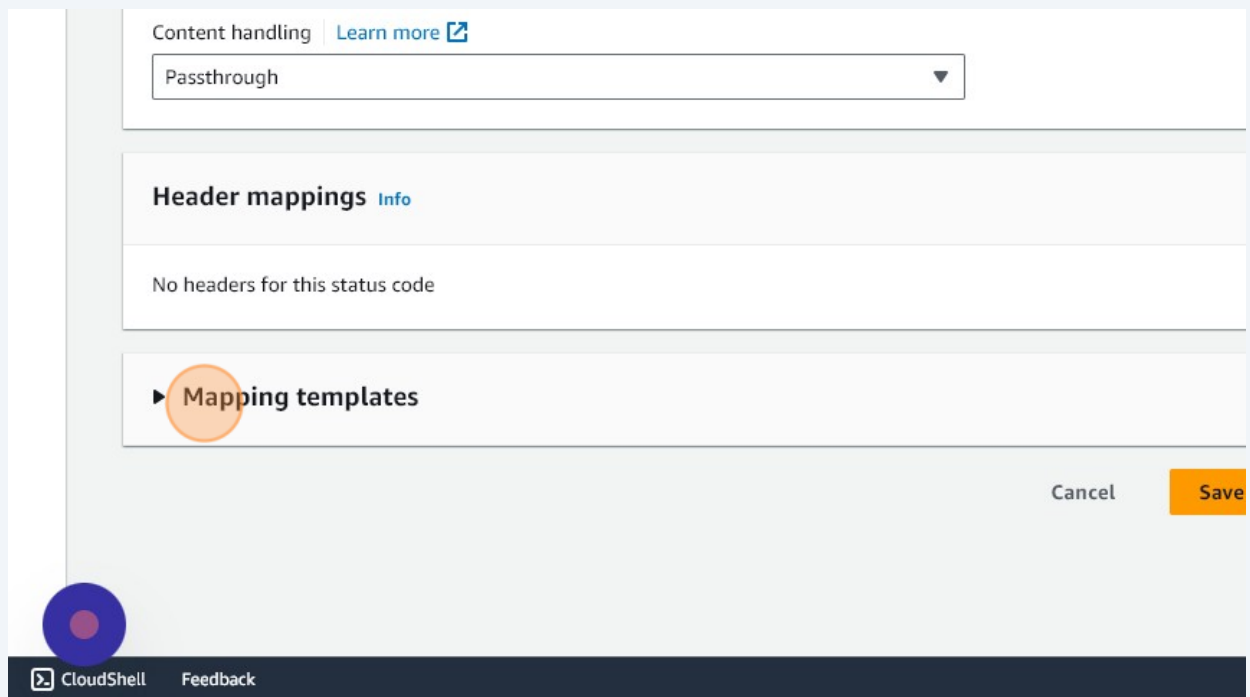
Mapping templates (1)

▶ **application/json**

18 Click "Edit"

| | | ⊠ | ⬦ | ⑦ | ⚙ | Sydney ▼ | Sanjeet Dutt ▼ |

onse   Method response   Test

ⓘ

ⓔ

Create response

Edit   Delete

Content handling Learn more ↗
Passthrough

Default mapping
True

‹ 1 ›

Mapping value   ▽
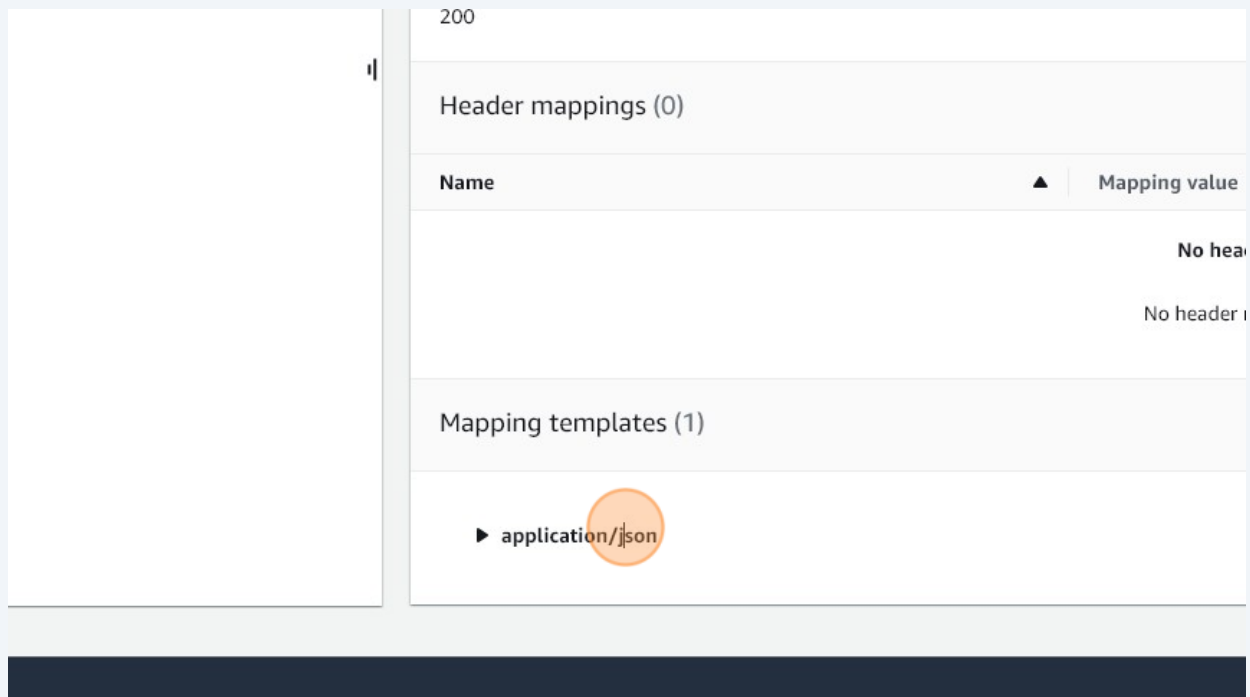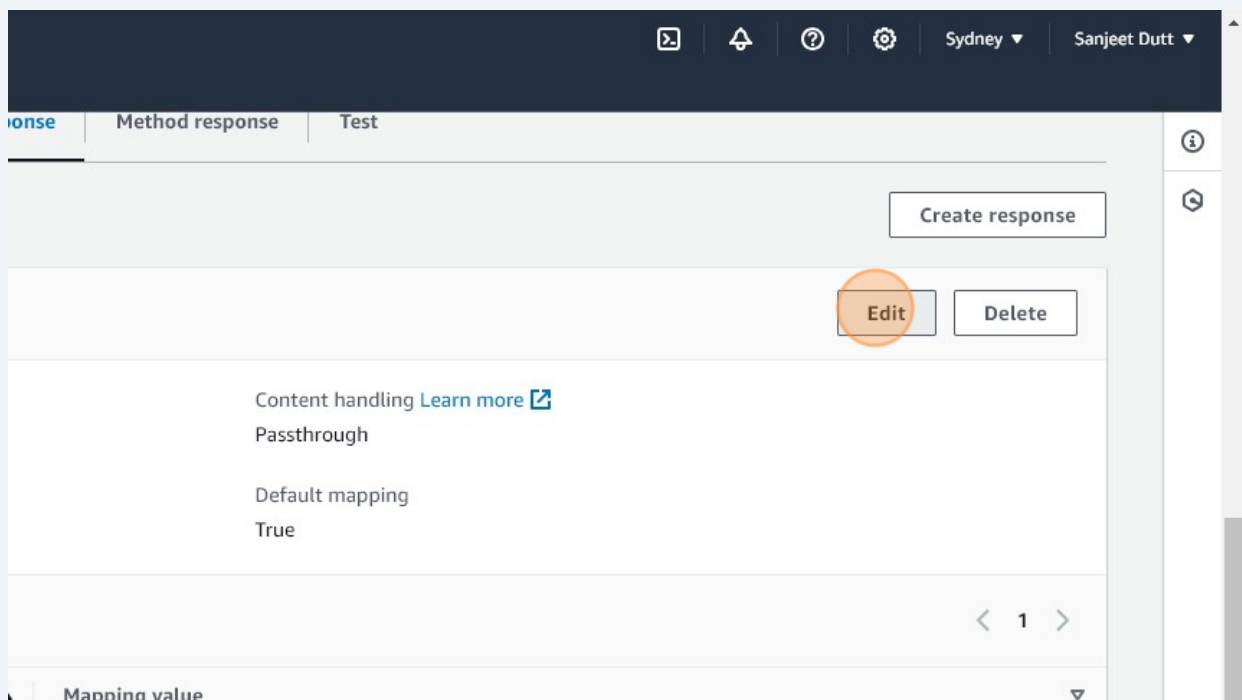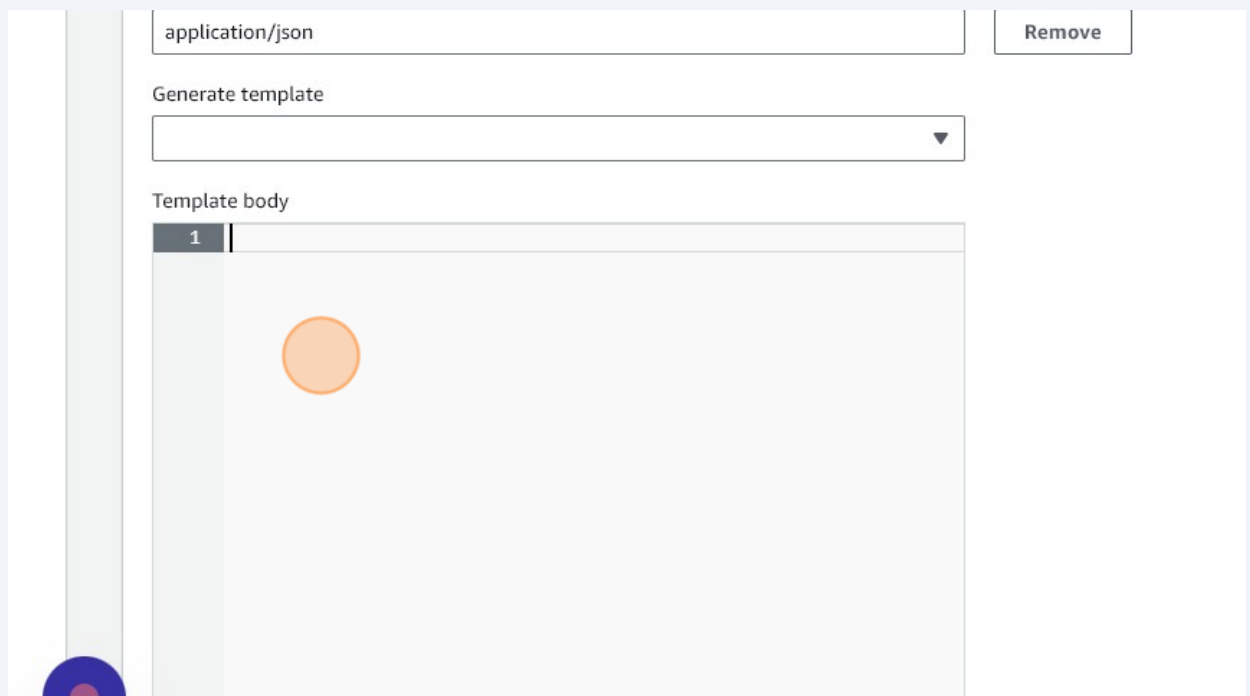
19 Click "Mapping templates"

Content handling Learn more ⤢

Passthrough ▼

Header mappings Info

No headers for this status code

▶ **Mapping templates**

Cancel Save

>_ CloudShell Feedback

20 Click here.

application/json Remove

Generate template

▼

Template body

1 |

21 Type "$input.body"

22 Click "Save"

more ↗

Cancel   Save

23 Click "application/json"

200

Header mappings (0)

Name	▲	Mapping v
		N
		No he

Mapping templates (1)
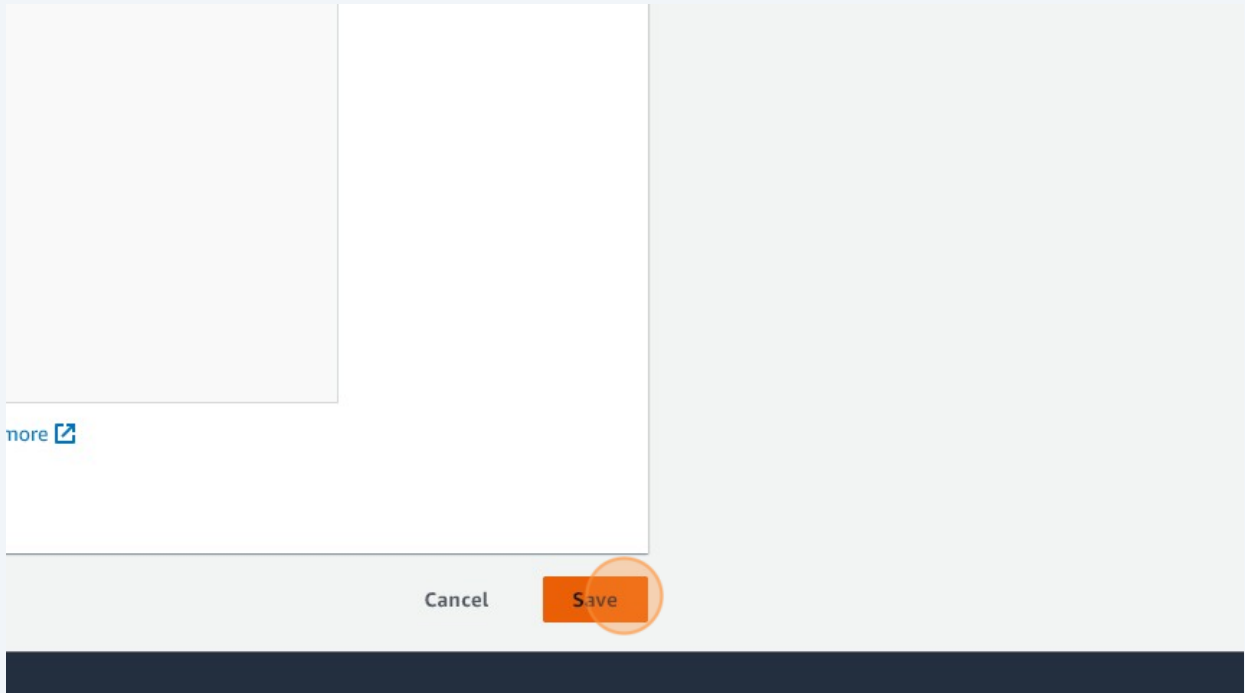
▶ application/json

24 Click "Test"

quest → Integration request →

sponse ← Integration response ←

quest | **Integration response** | Method response | Test

Create

Edit

Content handling Learn more
Passthrough
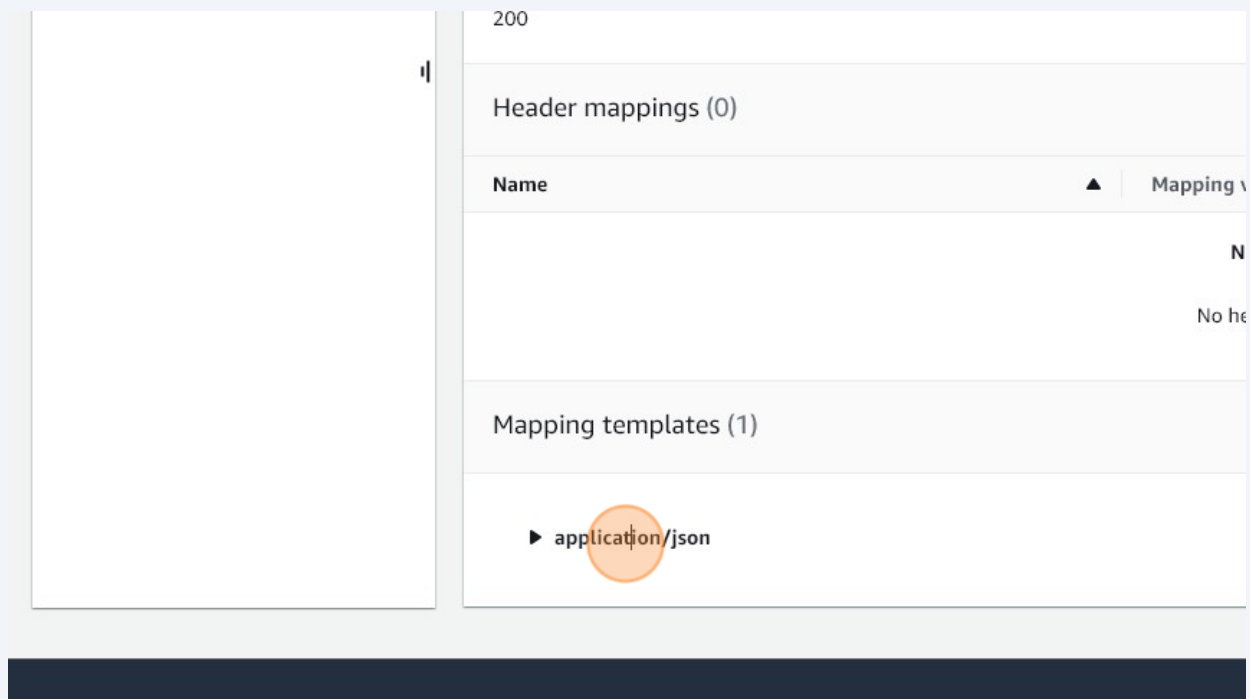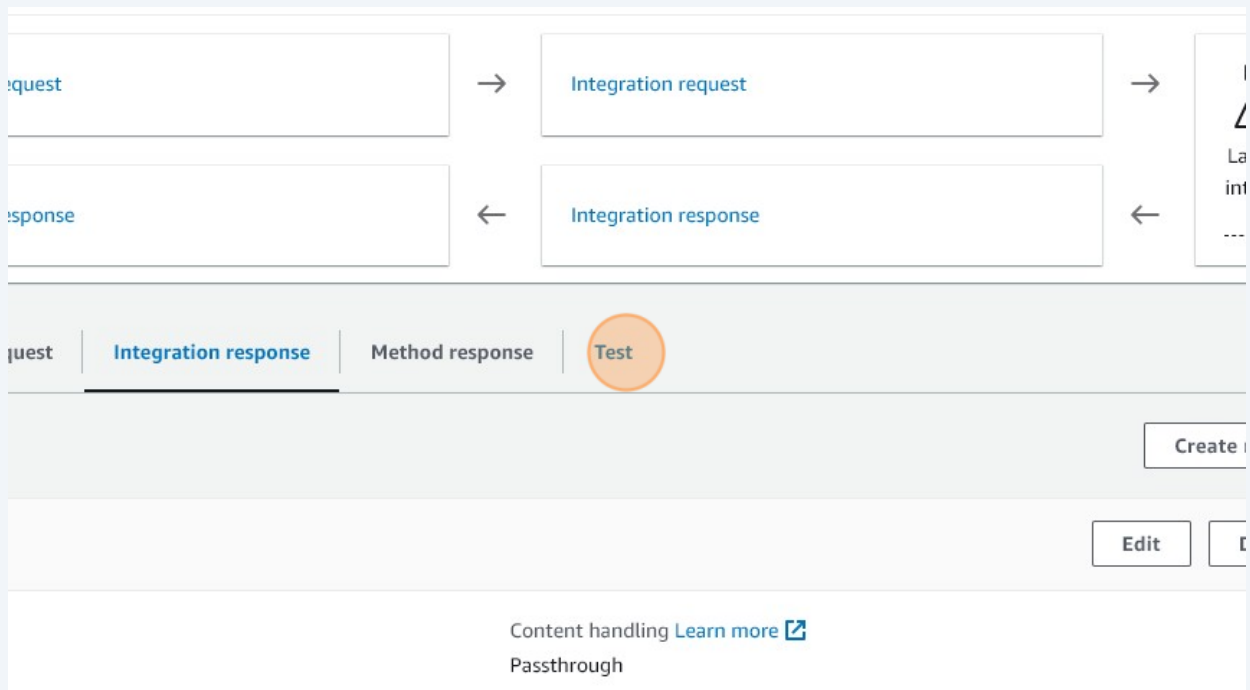
25 Click "Test"

Test method
Make a test call to your method. When you make a test call, API Gateway skips authoriza

Query strings

param1=value1&param2=value2

Headers
Enter a header name and value separated by a colon (:). Use a new line for each header.

header1:value1
header2:value2

Client certificate

No client certificates have been generated.

Test

---

26 Click "Info"

[Alt+S]

Create resource

☐ /
  ☐ /hello-world
    GET

ⓘ /hello-world - GET method test results
Request   Latenc
/hello-world   274

Response body

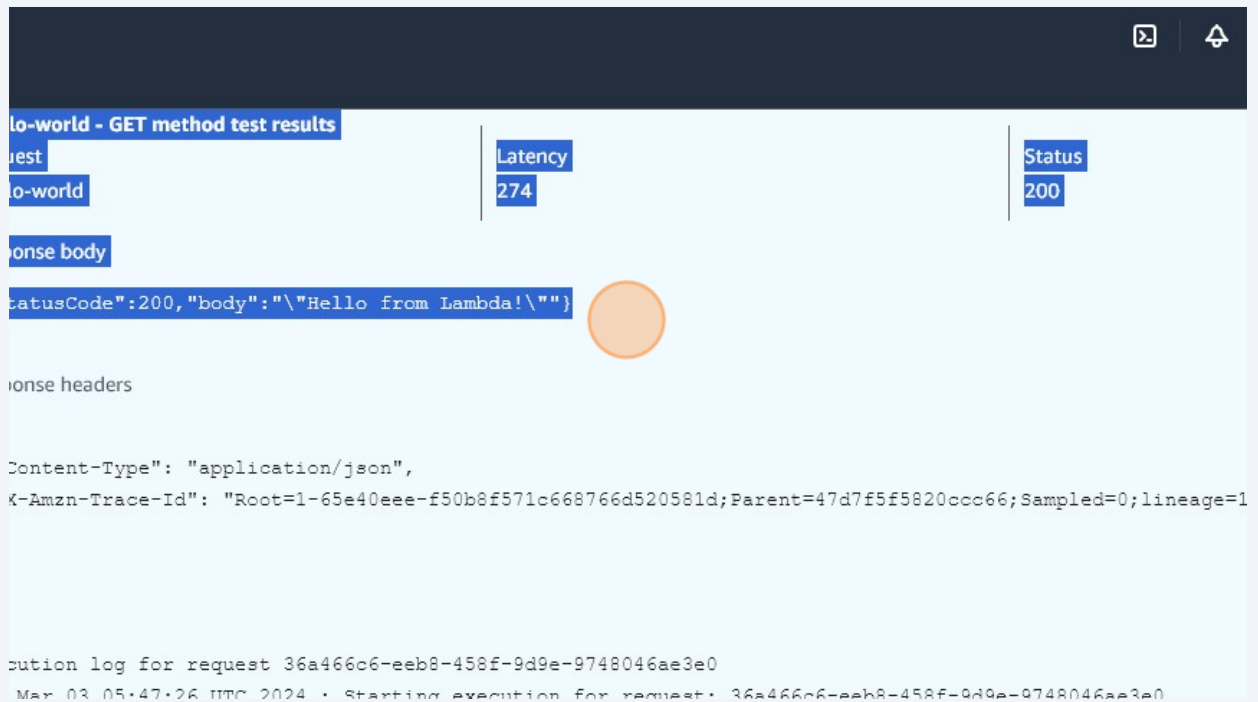{"statusCode":200,"body":"\"Hello from Lambda!\""

Response headers

{
  "Content-Type": "application/json",
  "X-Amzn-Trace-Id": "Root=1-65e40eee-f50b8f571c6
}

Log

Execution log for request 36a466c6-eeb8-458f-9d9e
Sun Mar 03 05·47·26 UTC 2024 · Starting execution

27 Click here.

lo-world - GET method test results

uest	Latency	Status
lo-world	274	200

onse body

tatusCode":200,"body":"\"Hello from Lambda!\""}

onse headers
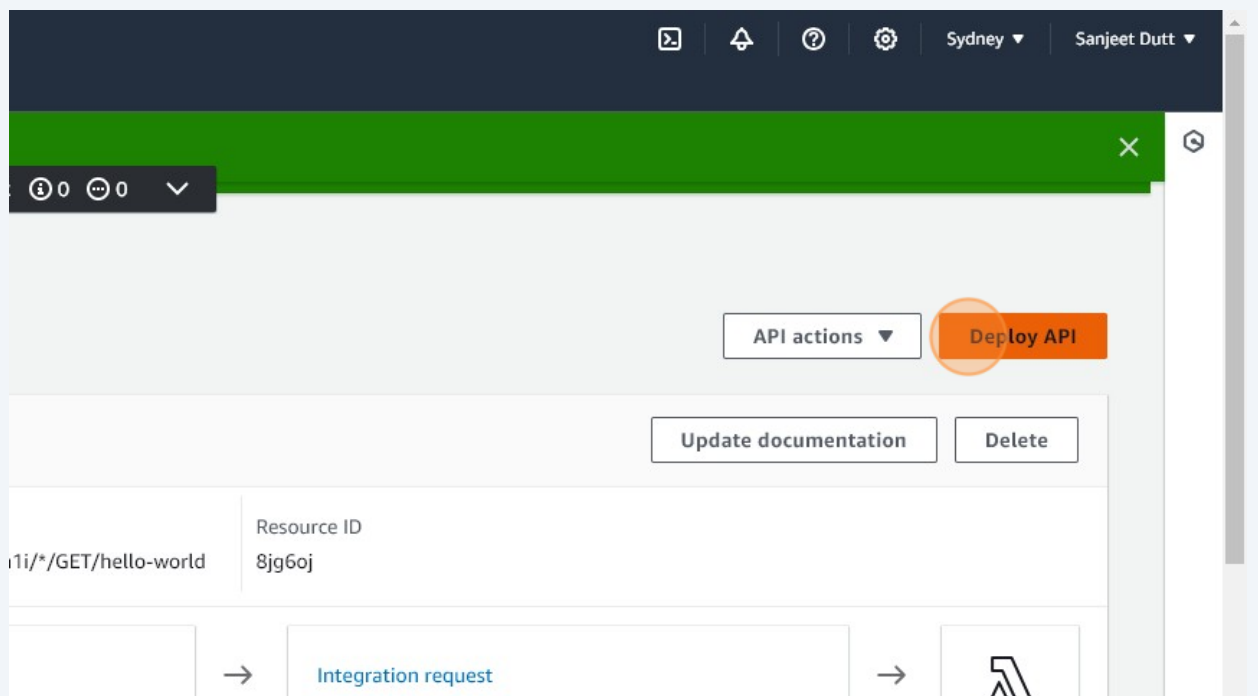
Content-Type": "application/json",
K-Amzn-Trace-Id": "Root=1-65e40eee-f50b8f571c668766d520581d;Parent=47d7f5f5820ccc66;Sampled=0;lineage=1

cution log for request 36a466c6-eeb8-458f-9d9e-9748046ae3e0

Mar 03 05·47·26 UTC 2024 · Starting execution for request· 36a466c6-eeb8-458f-9d9e-9748046ae3e0

---

28 Click "Deploy API"

Sydney ▼   Sanjeet Dutt ▼

⊙0 ◌0 ⌄

API actions ▼   Deploy API

Update documentation   Delete

Resource ID

1i/*/GET/hello-world   8jg6oj
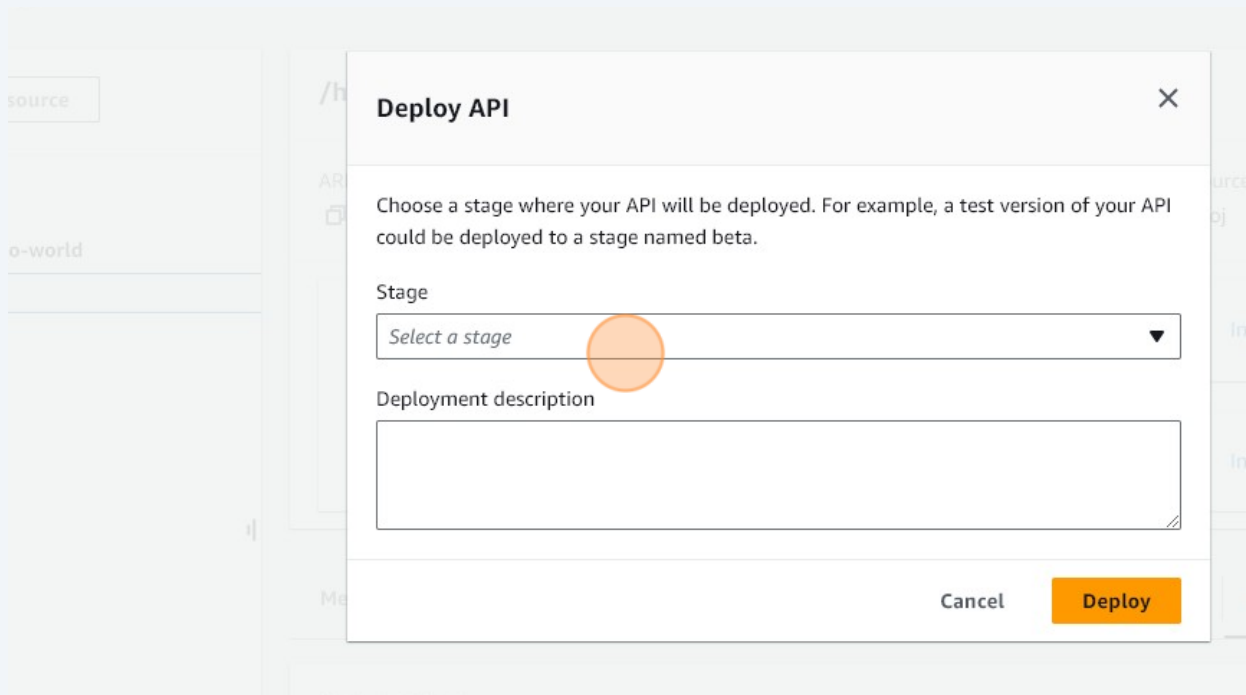
→   Integration request   →

29 Click "Select a stage"

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.

Stage

Select a stage   ▼

Deployment description

Cancel   **Deploy**

---

30 Click "test"

Deploy API

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

Stage

Select a stage

Stages

test

New stage

No stage

Cancel   Depl

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

31 Click "Deploy"

: description

Cancel   Deploy   Test

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

param2=value2

---

32 Click here.

API Gateway   ✕

APIs
Custom domain names
VPC links

▼ API: testing-rest-api
  Resources
  Stages
  Authorizers
  Gateway responses
  Models
  Resource policy
  Documentation
  Dashboard

⊘ **Successfully created** deployment for testing-rest-api. This deployment is active for te

API Gateway > APIs > testing-rest-api (xu9g21am1i) > Stages

Stages

⊞ test

Stage details Info

Stage name
test

Cache cluster **Info**
⊖ Inactive

Default method-level caching
⊖ Inactive

33 Click here.

API Gateway ✕

APIs
Custom domain names
VPC links

▼ API: testing-rest-api
   Resources
   Stages
   Authorizers
   Gateway responses
   Models
   Resource policy
   Documentation
   Dashboard
   API settings

⊘ **Successfully created** deployment for testing-rest-api. This deployment is active for te

API Gateway > APIs > testing-rest-api (xu9g21am1i) > Stages

Stages

⊟ test
   ⊞ /

Stage details Info

Stage name
test

Cache cluster **Info**
⊖ Inactive

Default method-level caching
⊖ Inactive

---

34 Click here.

APIs
Custom domain names
VPC links

▼ API: testing-rest-api
   Resources
   Stages
   Authorizers
   Gateway responses
   Models
   Resource policy
   Documentation
   Dashboard
   API settings

API Gateway > APIs > testing-rest-api (xu9g21am1i) > Stages

Stages

⊟ test
   ⊟ /
      ⊞ /hello-world

Stage details Info

Stage name
test

Cache cluster **Info**
⊖ Inactive

Default method-level caching
⊖ Inactive

Invoke URL

35 Click "GET"

APIs
Custom domain names
VPC links

▼ API: testing-rest-api
Resources
Stages
Authorizers
Gateway responses
Models
Resource policy
Documentation
Dashboard
API settings

API Gateway > APIs > testing-rest-api (xu9g21am1i) > Stages

Stages

⊟ test
   ⊟ /
      ⊟ /hello-world
        GET

Stage details Info

Stage name
test

Cache cluster Info
⊖ Inactive

Default method-level caching
⊖ Inactive

Invoke URL
🗗 https://xu9g21am1i.execute-ap

---

36 Click here.

⊟ test
   ⊟ /
      ⊟ /hello-world
        GET

Method overrides
By default, methods inherit stage-level settings. To customize settings for a method

ⓘ This method inherits its settings from the 'test' stage.

Invoke URL
🗗 https://xu9g21am1i.execute-api.ap-southeast-2.amazonaws.com/te

37 Click here.

Method overrides

By default, methods inherit stage-level settings. To customize settings for a metho

ⓘ This method inherits its settings from the 'test' stage.

Invoke URL

https://xu9g21am1i.execute-api.ap-southeast-2.amazonaws.com/

test

/

/hello-world

GET

38 Open a new tab