

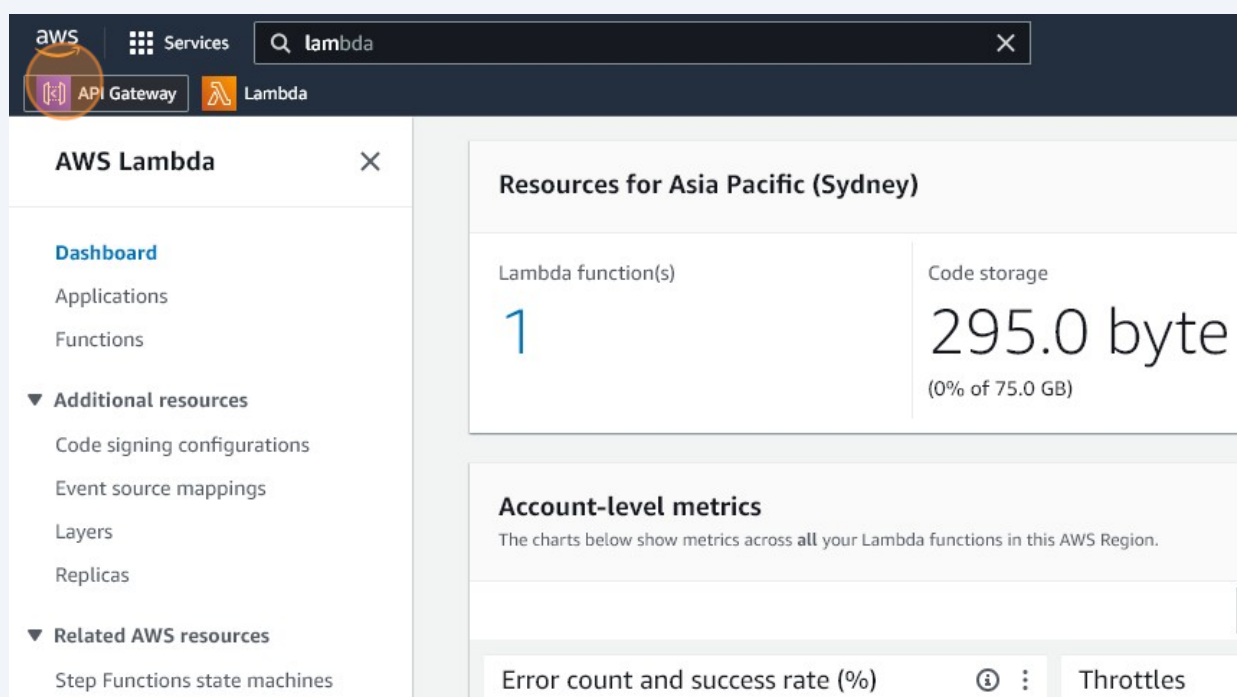
Configure AWS Lambda Function for REST API Integration

1

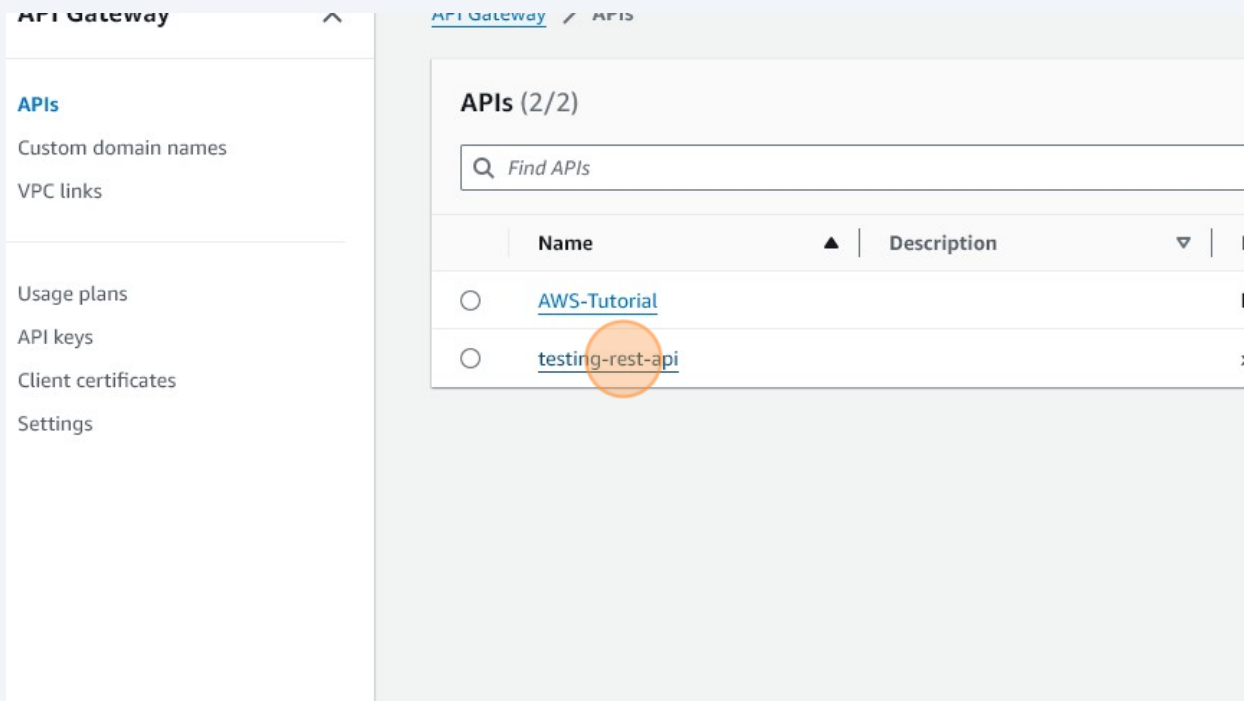
Navigate to <https://ap-southeast-2.console.aws.amazon.com/lambda/home?region=ap-southeast-2#/discover>

2

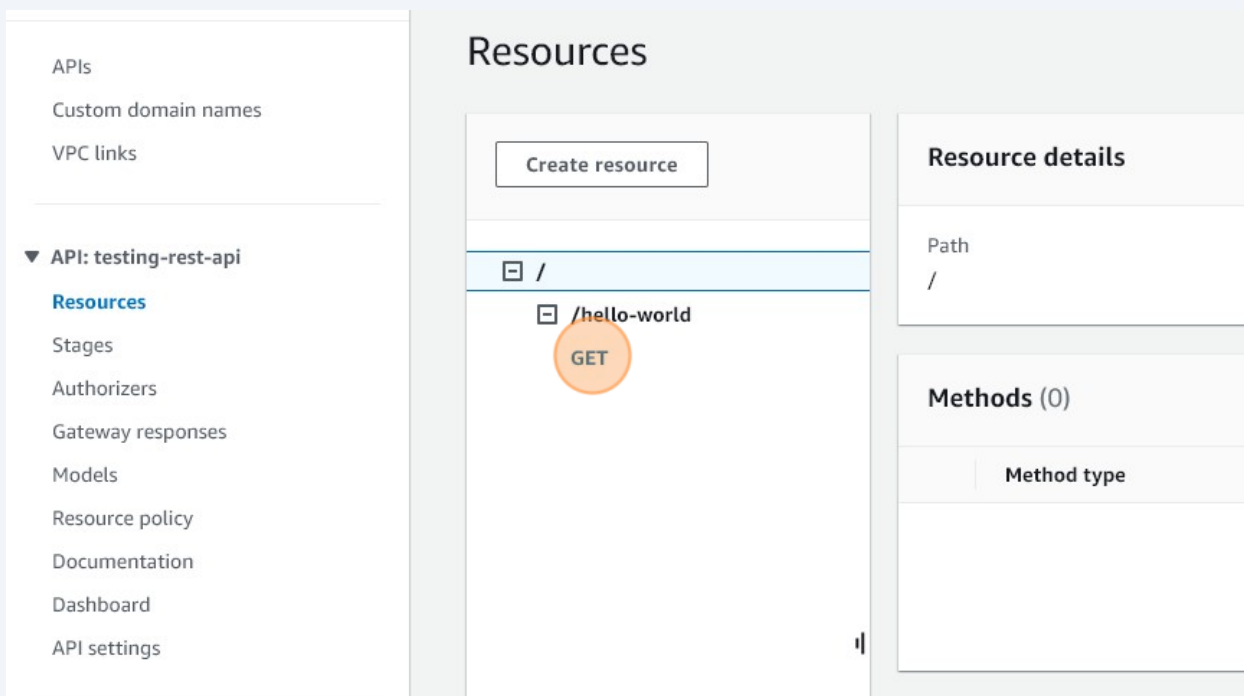
Click this image.



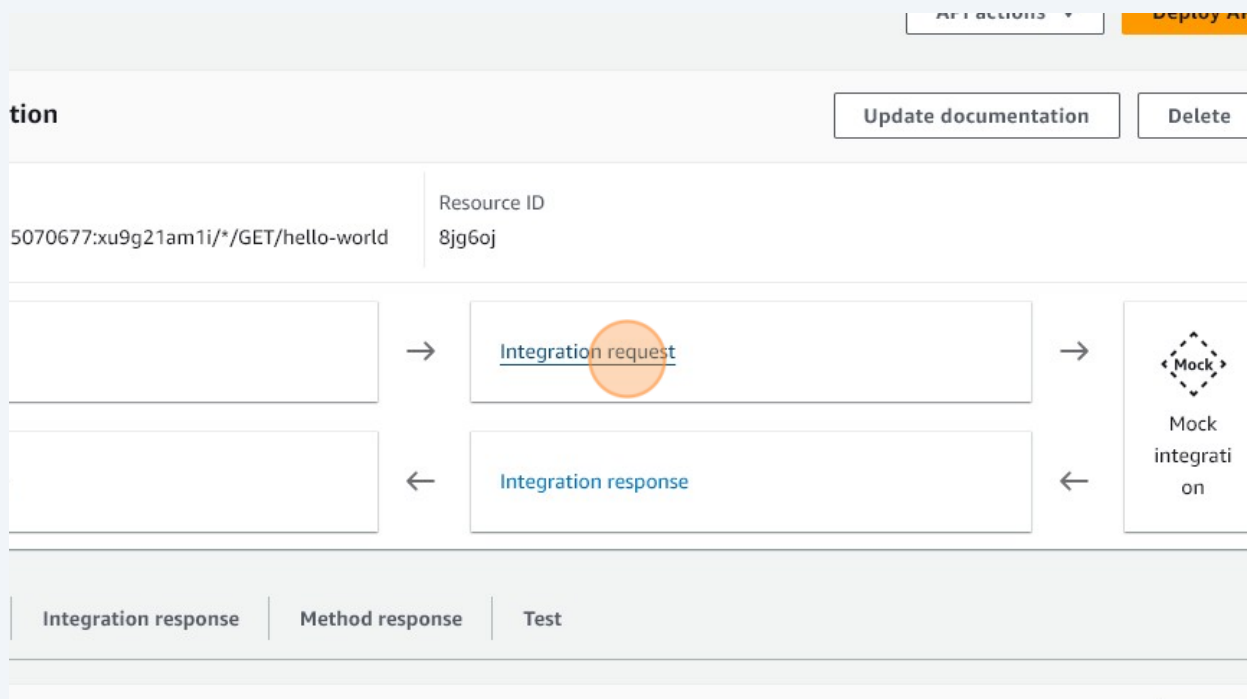
3 Click "testing-rest-api"



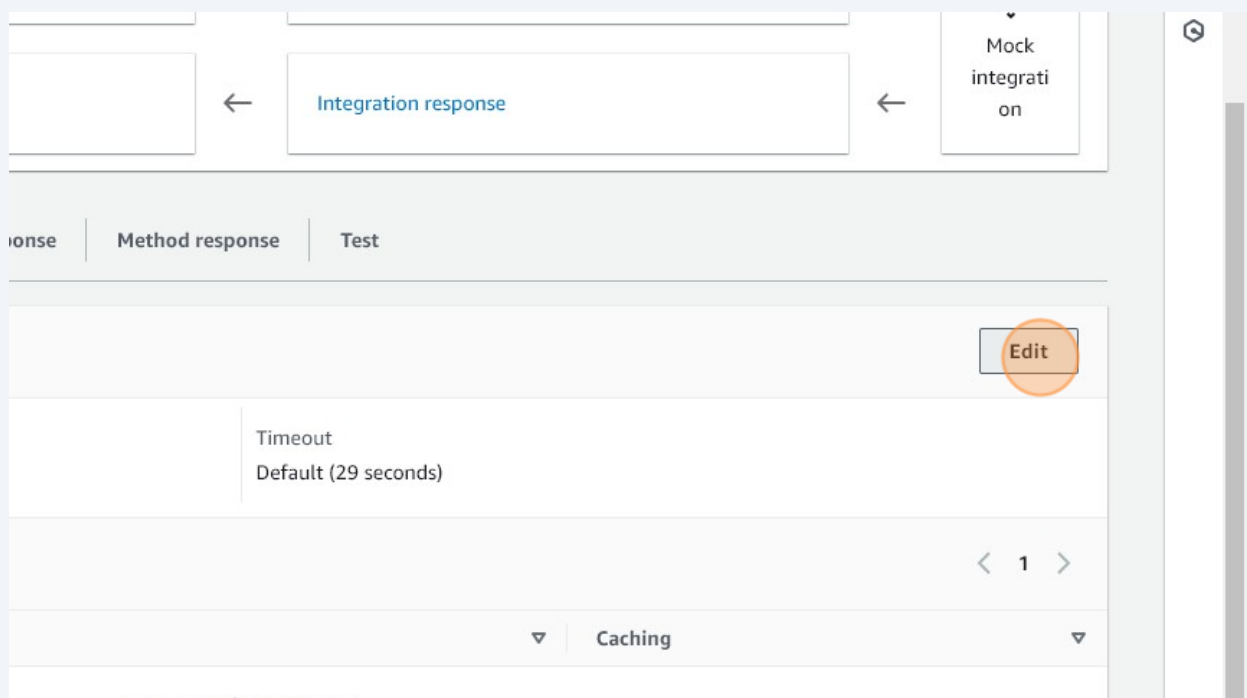
4 Click "GET"



5 Click "Integration request"



6 Click "Edit"




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


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

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

Warning: 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...

☒ 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:TestingAWSLambdaFunction"

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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... ▼

 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

Credential cache

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The default timeout is 29 seconds.

Request body passthrough

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☐ When no template matches the request content-type header

12 Type " Backspace"

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

ap-south-east-1:arn:aws:iam::myAccount:role/myRole

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☒ 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

15 Click "Save"

type header

Cancel Save


16 Click "Integration response"

55070677:yu9g21am1i/*GET/hello-world

Resource ID
8jg6oj

→ Integration request →

← Integration response ←

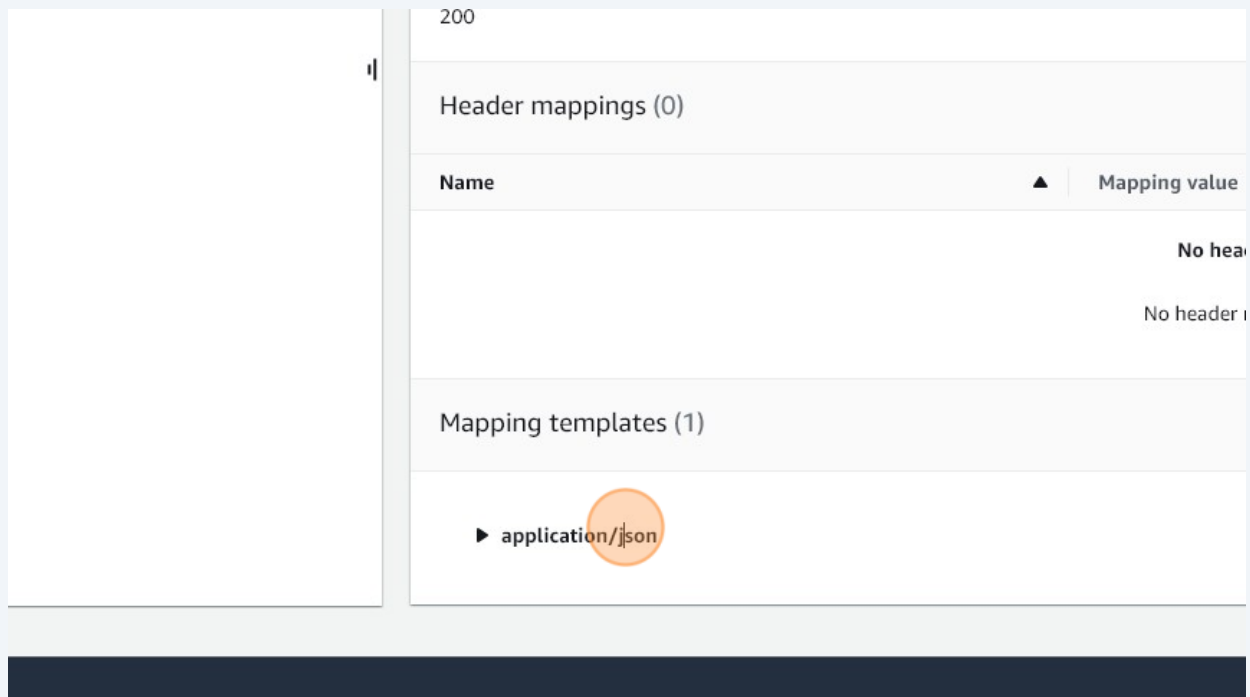

Lambda
integrati
on

Integration response | Method response | Test

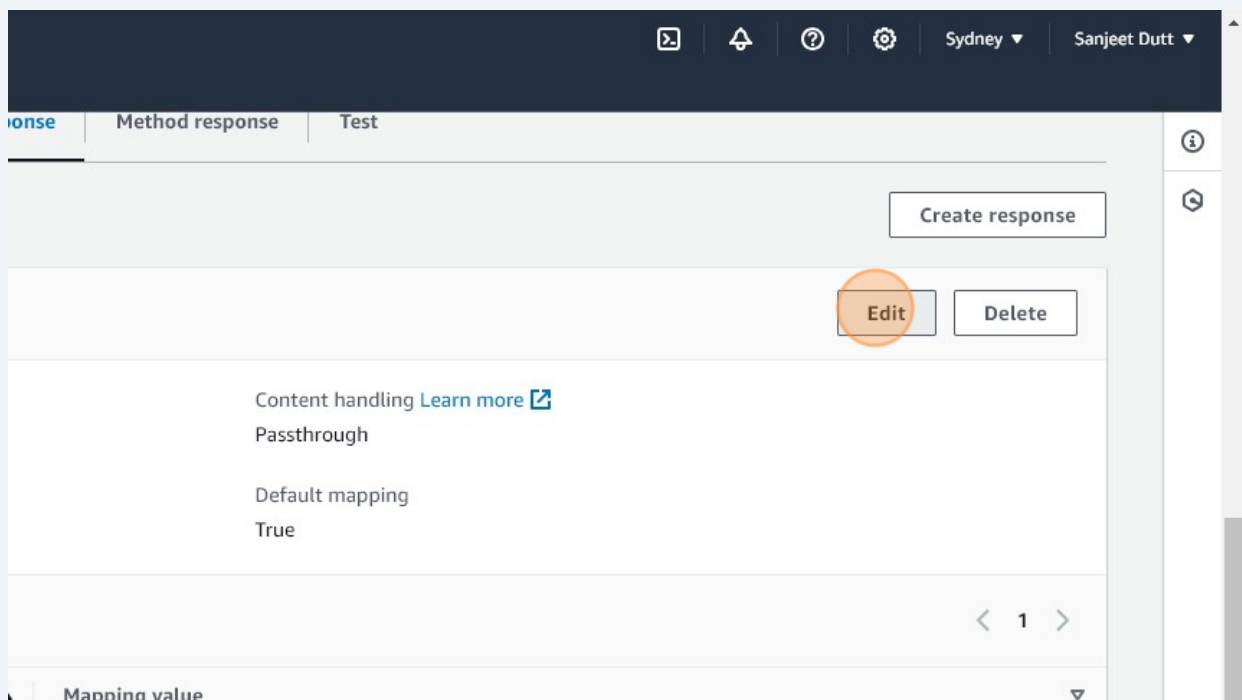
Edit

Region

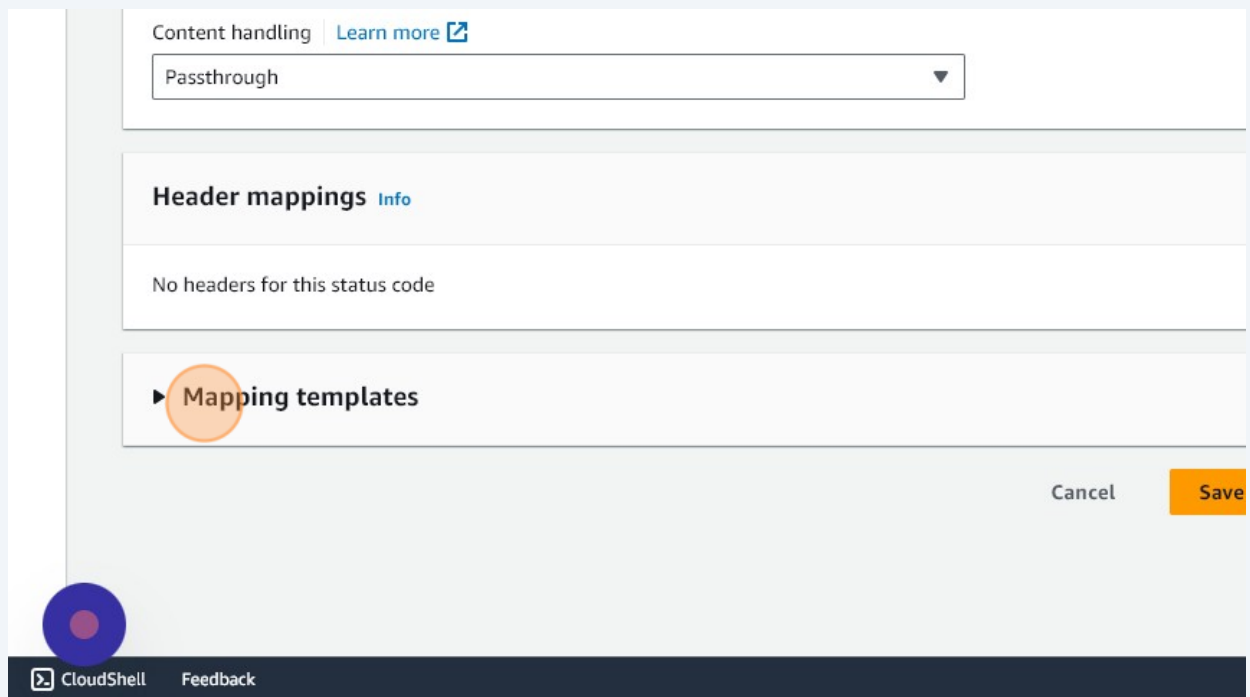
17 Click "application/json"



18 Click "Edit"

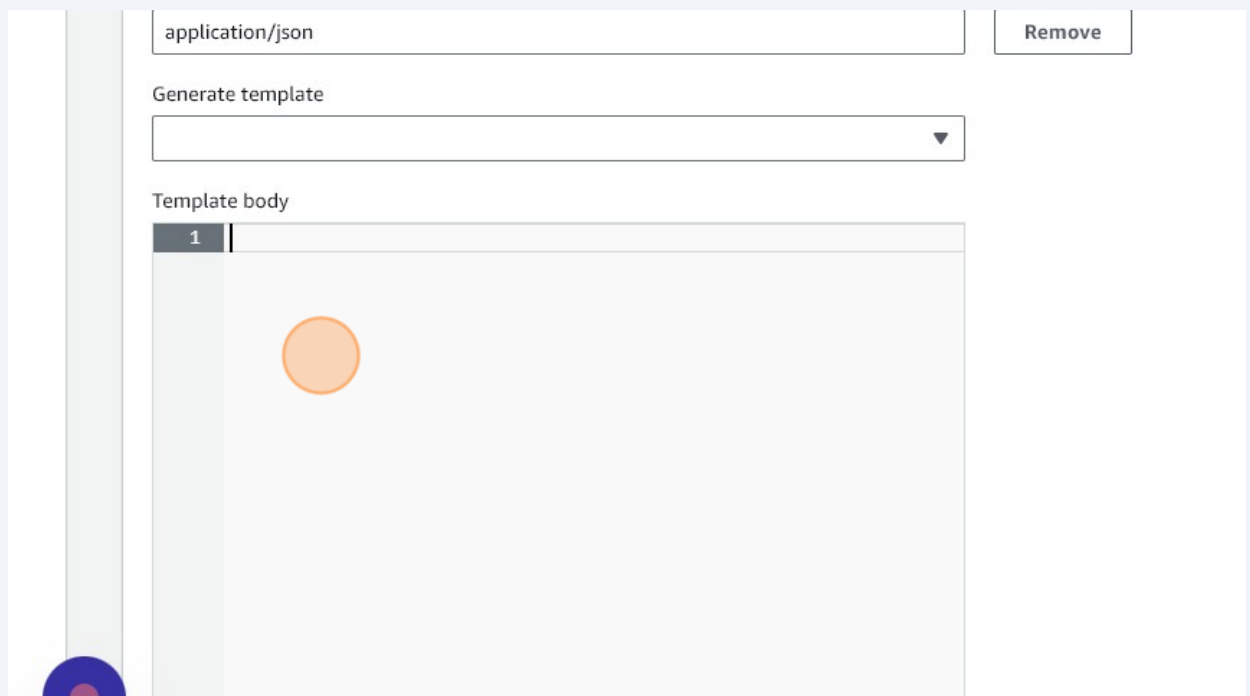


19 Click "Mapping templates"



The screenshot shows a configuration interface with a sidebar on the left. The main content area has a 'Content handling' section with a 'Learn more' link and a dropdown menu set to 'Passthrough'. Below this is a 'Header mappings' section with an 'Info' link and the text 'No headers for this status code'. The 'Mapping templates' section is highlighted with an orange circle and a right-pointing arrow. At the bottom right of the main area are 'Cancel' and 'Save' buttons. The footer contains a 'CloudShell' icon and a 'Feedback' link.

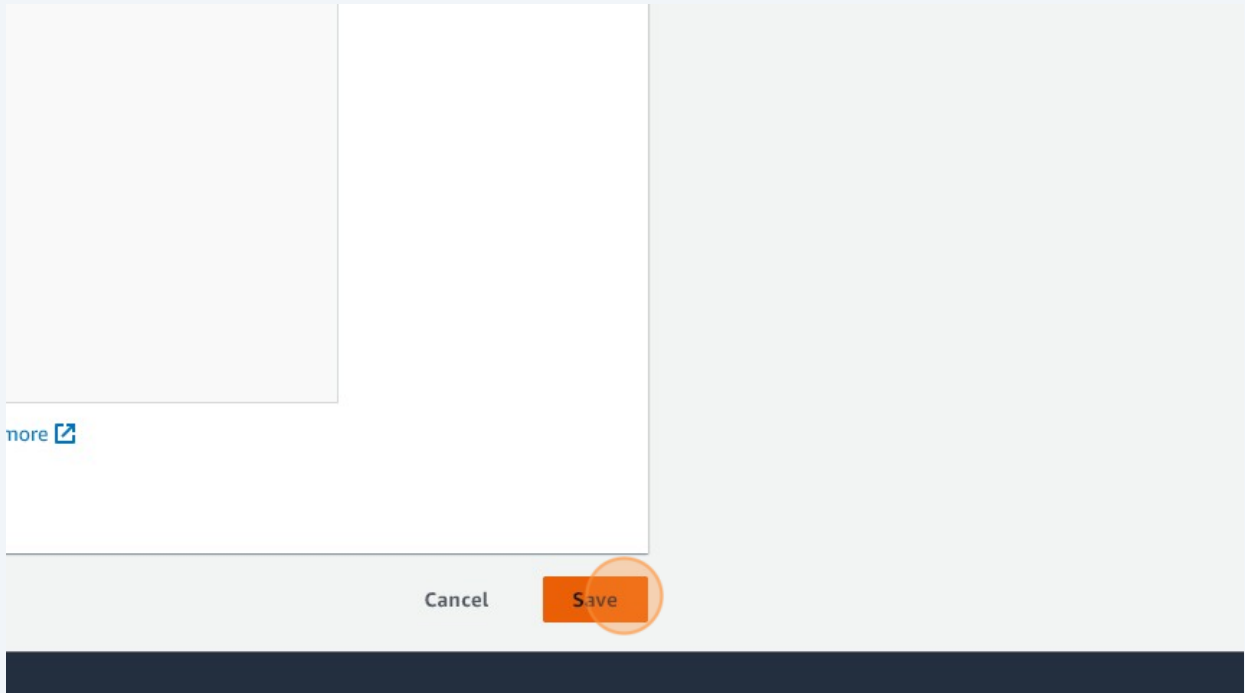
20 Click here.



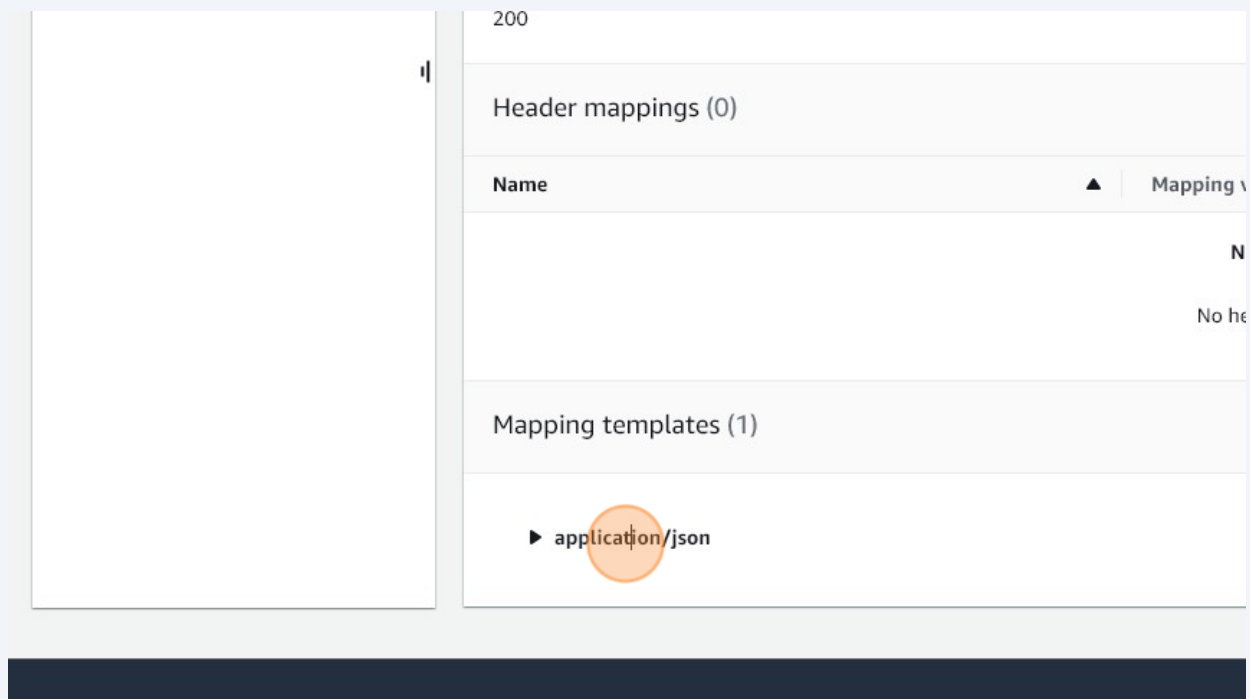
The screenshot shows a configuration interface for a template. At the top, there is a text input field containing 'application/json' and a 'Remove' button. Below this is a 'Generate template' section with a dropdown menu. The 'Template body' section is highlighted with an orange circle and a right-pointing arrow. It contains a table with one row and one column, with the value '1' in the first cell. The footer contains a 'CloudShell' icon and a 'Feedback' link.

21 Type "\$input.body"

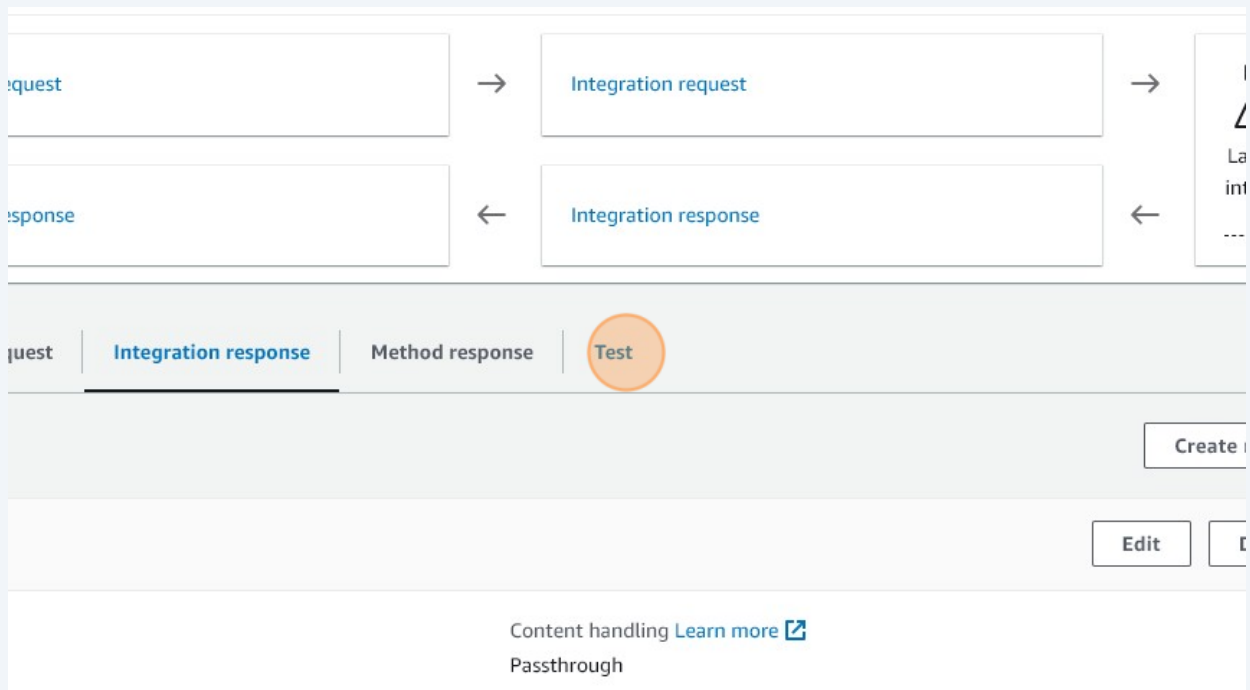
22 Click "Save"



23 Click "application/json"



24 Click "Test"



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¶m2=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

/hello-world

Latenc

274

Response body

`{"statusCode":200,"body":"\nHello from Lambda!\n"}`

Response headers

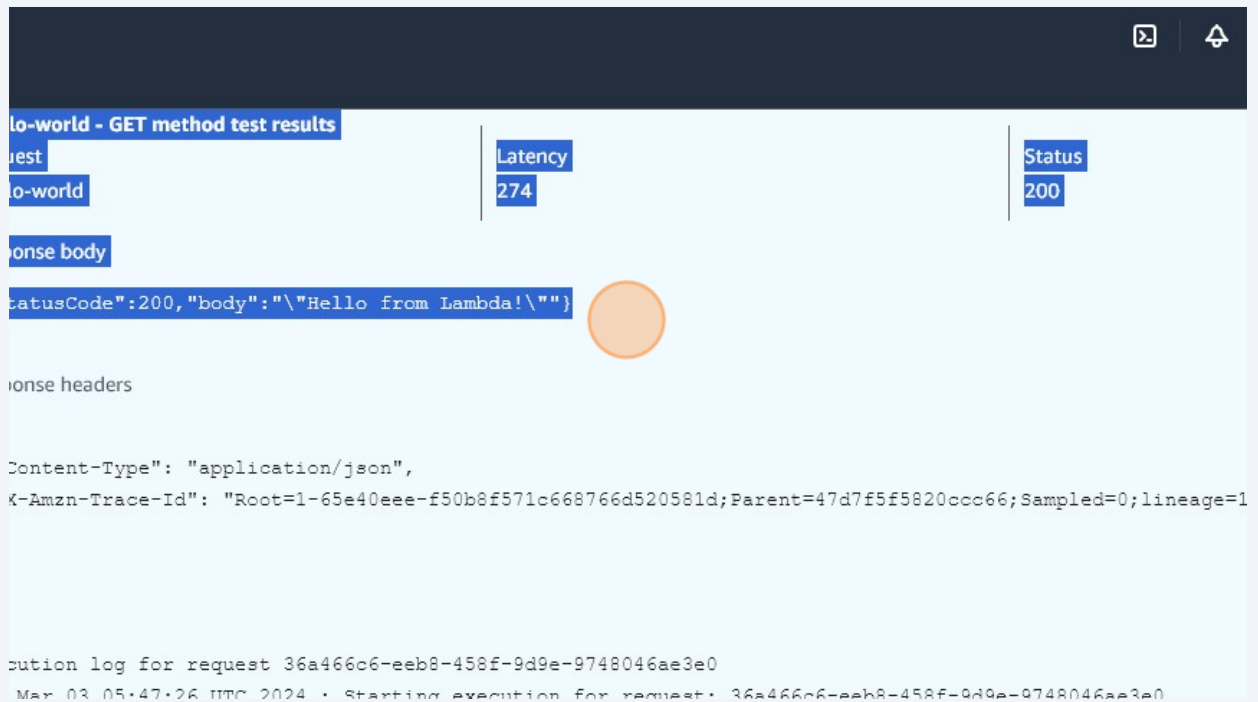
`{`
 `"Content-Type": "application/json",`
 `"X-Amzn-Trace-Id": "Root=1-65e40eee-f50b8f571c6`
`}`

Log

Execution log for request 36a466c6-eeb8-458f-9d9e

Sun Mar 03 05:47:26 UTC 2024 • Starting execution

27 Click here.



The screenshot shows the AWS Lambda console's 'Test' tab for a function named 'hello-world'. The 'GET method test results' section displays the following details:

Request	Latency	Status
hello-world	274	200

The 'Response body' section shows the following JSON response:

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

The 'Response headers' section shows the following headers:

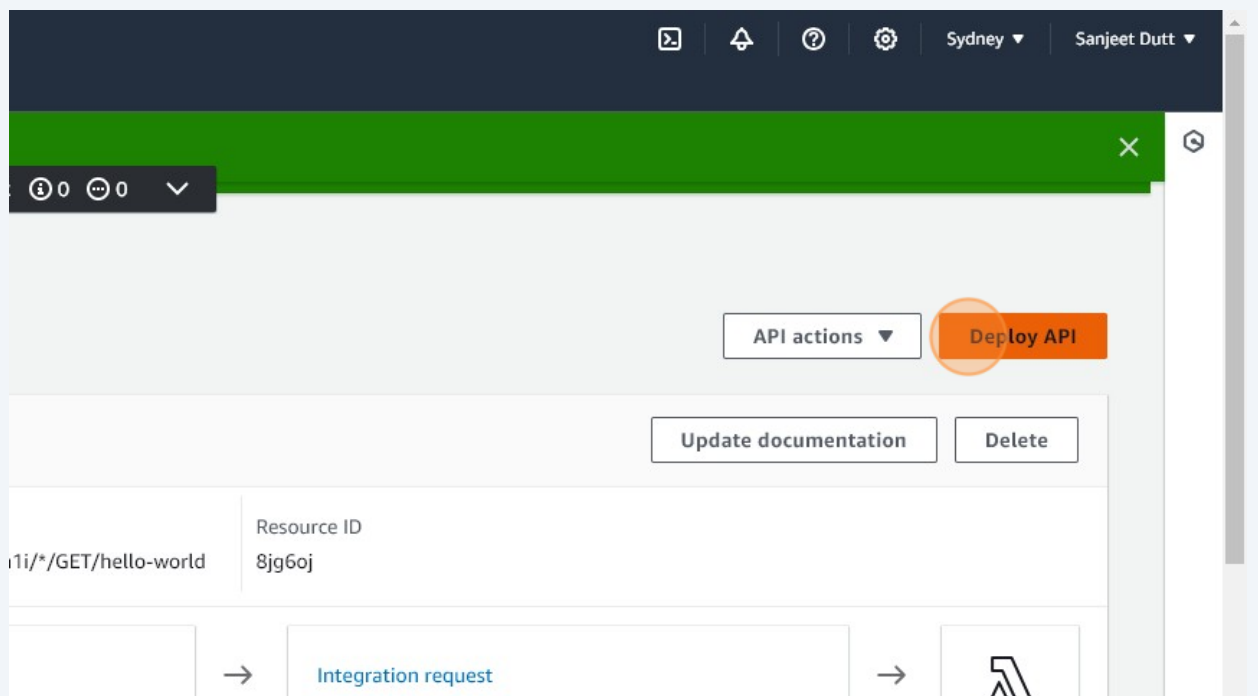
```
Content-Type: "application/json",  
X-Amzn-Trace-Id: "Root=1-65e40eee-f50b8f571c668766d520581d;Parent=47d7f5f5820ccc66;Sampled=0;lineage=1"
```

The 'Execution log' section shows the following log entry:

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

An orange circle highlights the '200' status code in the 'Status' column.

28 Click "Deploy API"



The screenshot shows the AWS API Gateway console's 'API actions' dropdown menu. The 'Deploy API' button is highlighted with an orange circle. The console also displays the following details:

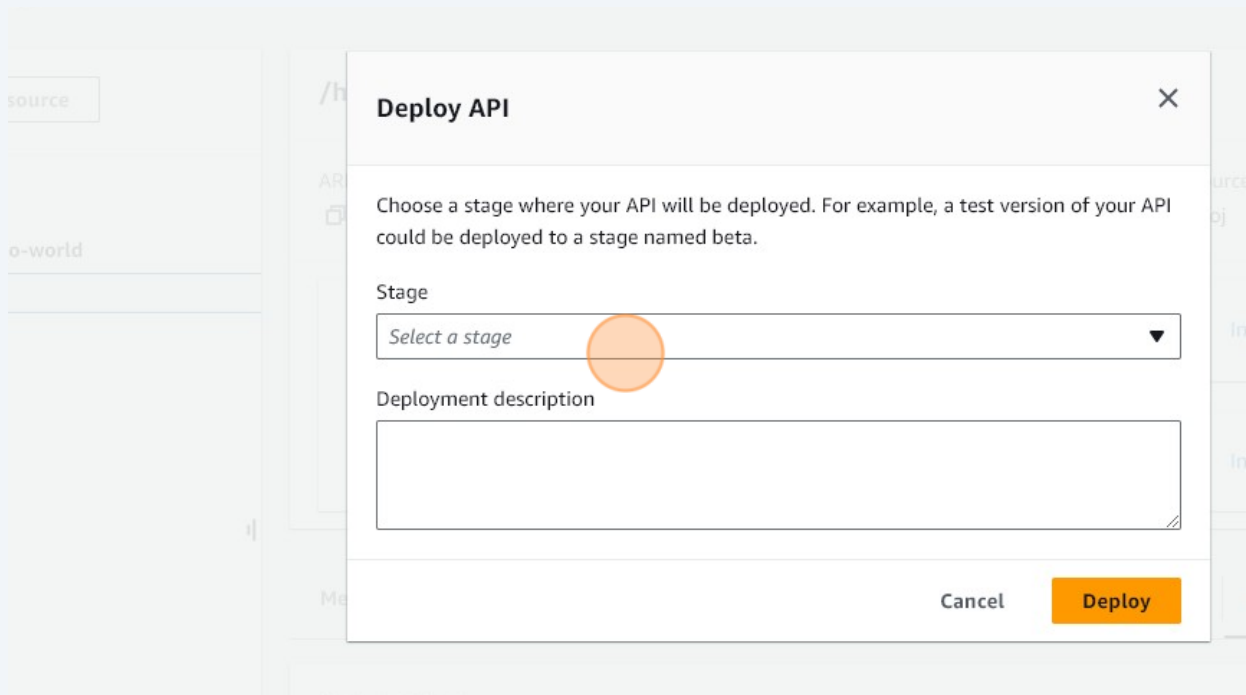
Resource ID
8jg6oj

The 'Integration request' section shows the following details:

```
Integration request
```

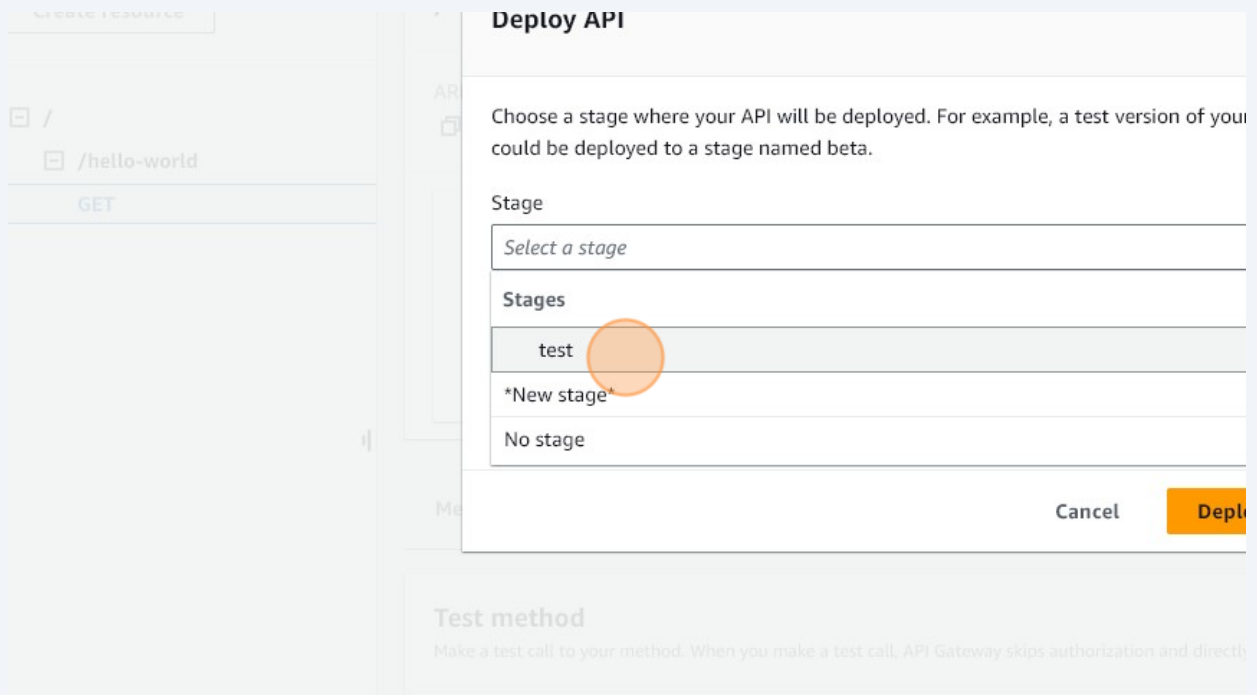
An orange circle highlights the 'Deploy API' button.

29 Click "Select a stage"



The screenshot shows a 'Deploy API' dialog box. The title bar says 'Deploy API' with a close button. The main text says: '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.' Below this is a 'Stage' label and a dropdown menu with the text 'Select a stage' and a downward arrow. An orange circle highlights the dropdown menu. Below the dropdown is a 'Deployment description' label and a text input field. At the bottom right are 'Cancel' and 'Deploy' buttons.

30 Click "test"



The screenshot shows the 'Deploy API' dialog box. The title bar says 'Deploy API' with a close button. The main text says: '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.' Below this is a 'Stage' label and a dropdown menu with the text 'Select a stage'. Below the dropdown is a 'Stages' label and a list of stages: 'test', '*New stage*', and 'No stage'. An orange circle highlights the 'test' stage. At the bottom right are 'Cancel' and 'Deploy' buttons.

31 Click "Deploy"

The screenshot shows the 'Deploy' dialog box in the AWS API Gateway console. The dialog has a 'Cancel' button and a 'Deploy' button, which is highlighted with an orange circle. The background shows the 'Integration request' and 'Integration response' tabs, and a 'Test' button. Below the dialog, there is a text input field with the value 'param2=value2'.

32 Click here.

The screenshot shows the AWS API Gateway console. A green notification banner at the top states: 'Successfully created deployment for testing-rest-api. This deployment is active for testing-rest-api'. The breadcrumb navigation is 'API Gateway > APIs > testing-rest-api (xu9g21am1i) > Stages'. The 'Stages' section shows a table with one row: 'test', which is highlighted with an orange circle. The 'Stage details' panel on the right shows the stage name 'test', the cache cluster 'Inactive', and the 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 testing-rest-api.


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"

The screenshot shows the AWS API Gateway console. On the left, a sidebar lists navigation options: APIs, Custom domain names, VPC links, and a section for 'API: testing-rest-api' which includes Resources, **Stages** (highlighted), Authorizers, Gateway responses, Models, Resource policy, Documentation, Dashboard, and API settings. The main content area shows the breadcrumb 'API Gateway > APIs > testing-rest-api (xu9g21am1i) > Stages' and the title 'Stages'. A tree view on the left shows the hierarchy: 'test' (expanded) -> '/' -> '/hello-world' (expanded) -> 'GET' (highlighted with an orange circle). On the right, the 'Stage details' panel shows: Stage name: test; Cache cluster: Inactive; Default method-level caching: Inactive; and Invoke URL: https://xu9g21am1i.execute-ap...

36 Click here.

The screenshot shows the 'Method overrides' section of the AWS API Gateway console. On the left, the same tree view as in step 35 is shown, with 'test' -> '/' -> '/hello-world' -> 'GET' highlighted. The main content area is titled 'Method overrides' with a subtitle: 'By default, methods inherit stage-level settings. To customize settings for a method...'. A blue information box states: 'This method inherits its settings from the 'test' stage.' Below this, the 'Invoke URL' is shown as https://xu9g21am1i.execute-api.ap-southeast-2.amazonaws.com/te... with the URL text highlighted by an orange circle.

37 Click here.

The screenshot displays the AWS API Gateway console interface. On the left, a breadcrumb trail shows the hierarchy: **test** > **/** > **/hello-world**. The **GET** HTTP method is selected. On the right, the **Method overrides** section is visible, with a blue information box stating: "This method inherits its settings from the 'test' stage." Below this, the **Invoke URL** field is highlighted with an orange circle, showing the URL: `https://xu9g21am1i.execute-api.ap-southeast-2.amazonaws.com/`.

38 Open a new tab