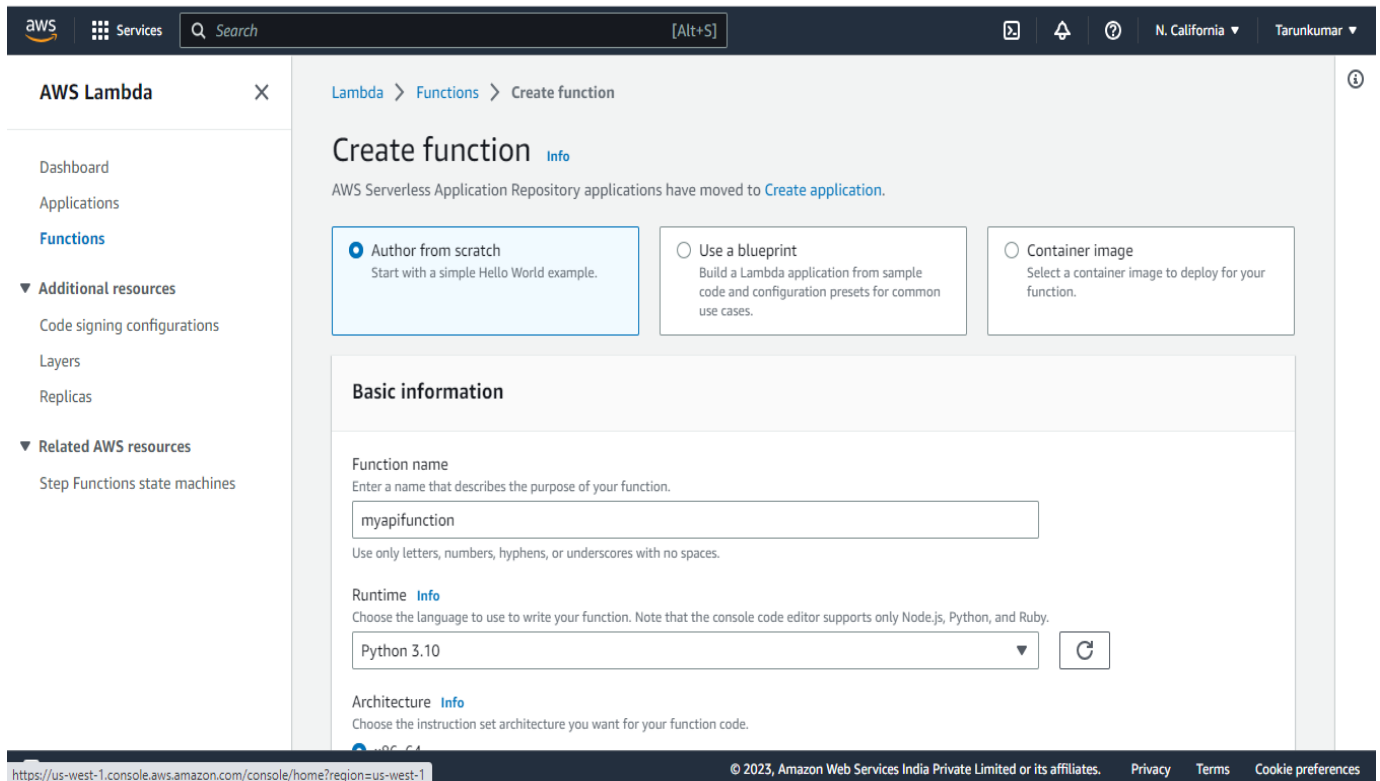


What is Api gateway and use GET method invocation with Lambda

An application programming interface (API) gateway is software that takes an application user's request, routes it to one or more backend services. Amazon API Gateway is an AWS service for creating, publishing, maintaining, monitoring, and securing REST, HTTP, and WebSocket APIs at any scale.

Demonstration of GET method invocation with lambda

Create a lambda function



The screenshot shows the AWS Lambda console's 'Create function' page. The left sidebar contains navigation links for Dashboard, Applications, Functions, and additional resources. The main content area has three tabs: 'Author from scratch' (selected), 'Use a blueprint', and 'Container image'. The 'Basic information' section includes a 'Function name' field with 'myapifunction', a 'Runtime' dropdown set to 'Python 3.10', and an 'Architecture' dropdown set to 'x86_64'. The bottom of the page shows the AWS logo, search bar, and footer with copyright information and links to Privacy, Terms, and Cookie preferences.

aws Services Search [Alt+S] N. California Tarunkumar

AWS Lambda X

Lambda > Functions > Create function

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

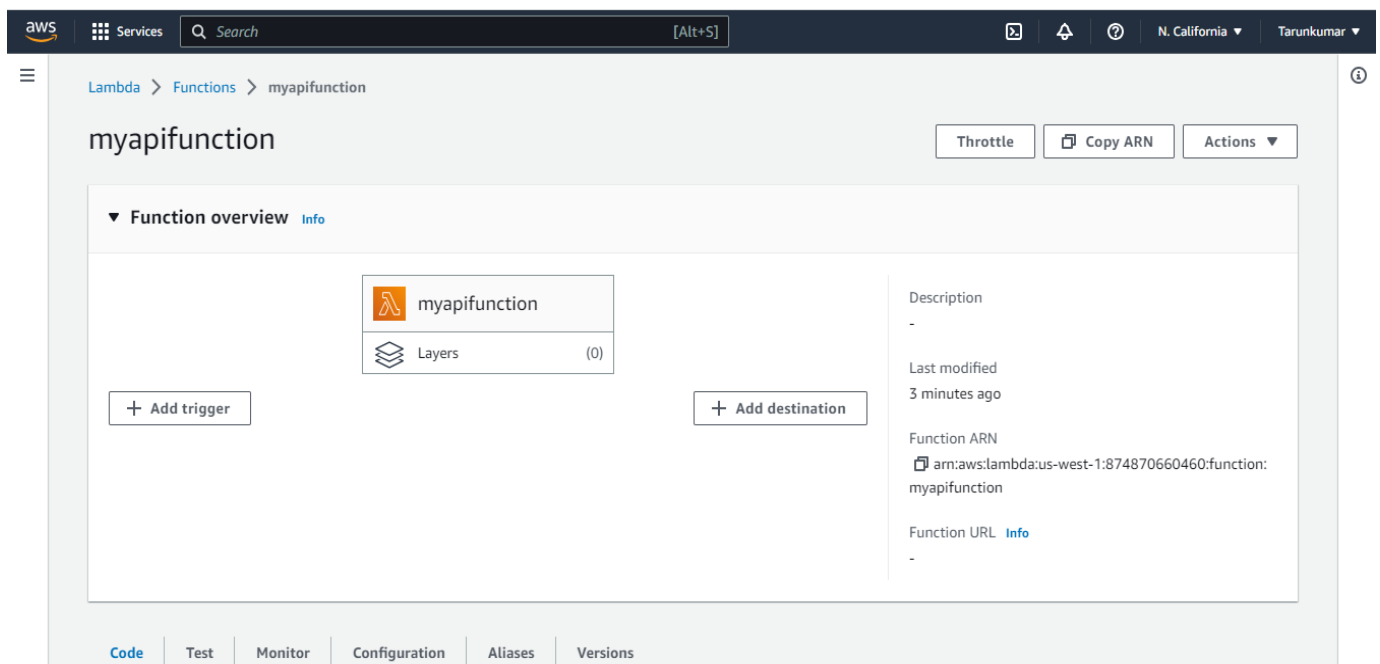
Function name
Enter a name that describes the purpose of your function.

Use 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.

Architecture [Info](#)
Choose the instruction set architecture you want for your function code.

[https://us-west-1.console.aws.amazon.com/console/home?region=us-west-1](#) © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences



The screenshot shows the AWS Lambda console's 'myapifunction' overview page. The left sidebar contains navigation links for Lambda, Functions, and myapifunction. The main content area has a 'Function overview' section with a card for 'myapifunction' showing 'Layers (0)' and a '+ Add trigger' button. To the right, there are buttons for 'Throttle', 'Copy ARN', and 'Actions'. The 'Function overview' section also includes a '+ Add destination' button. The right sidebar contains a 'Description' field, 'Last modified' (3 minutes ago), 'Function ARN' (arn:aws:lambda:us-west-1:874870660460:function:myapifunction), and 'Function URL' (Info). The bottom of the page shows the AWS logo, search bar, and footer with copyright information and links to Privacy, Terms, and Cookie preferences.


aws Services Search [Alt+S] N. California Tarunkumar


Lambda > Functions > myapifunction

myapifunction

Throttle Copy ARN Actions


Function overview [Info](#)

 **myapifunction**

 Layers (0)

Description
-

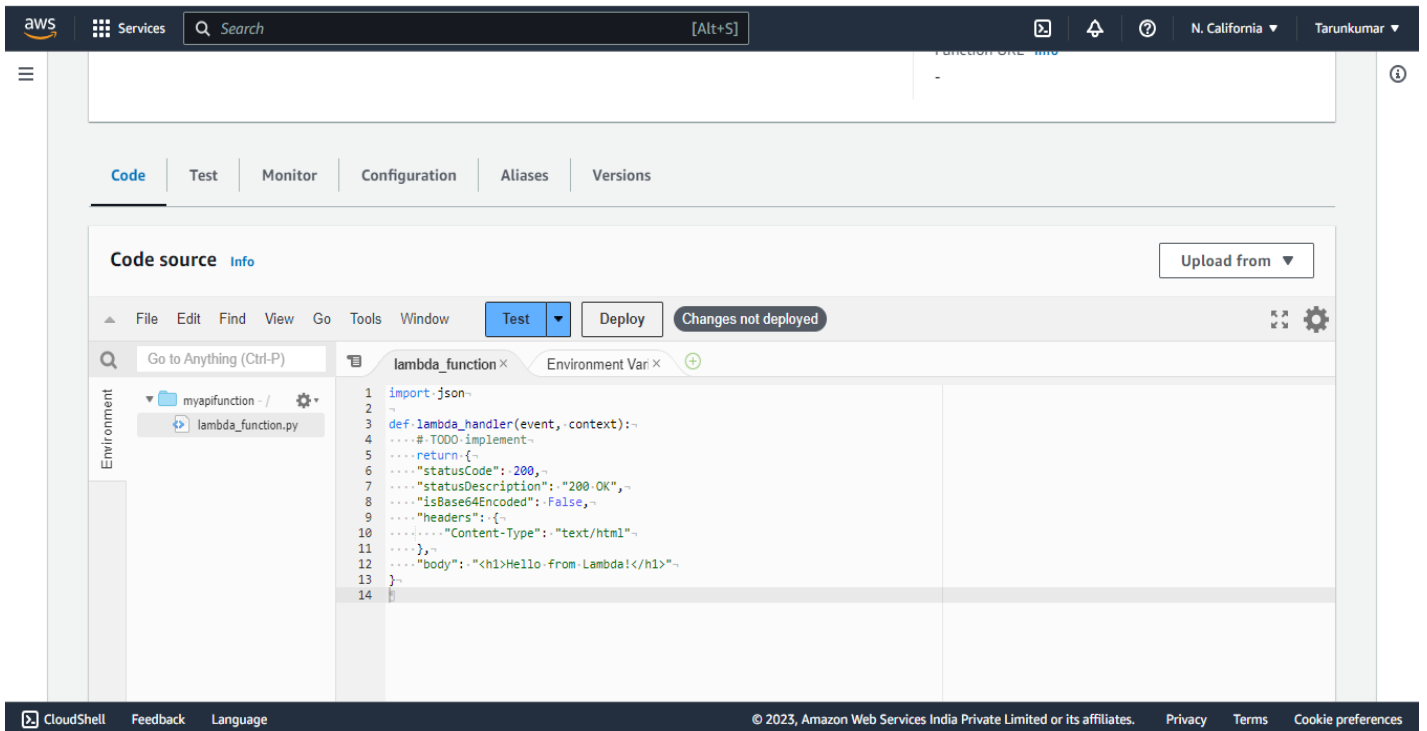
Last modified
3 minutes ago

Function ARN
 arn:aws:lambda:us-west-1:874870660460:function:myapifunction

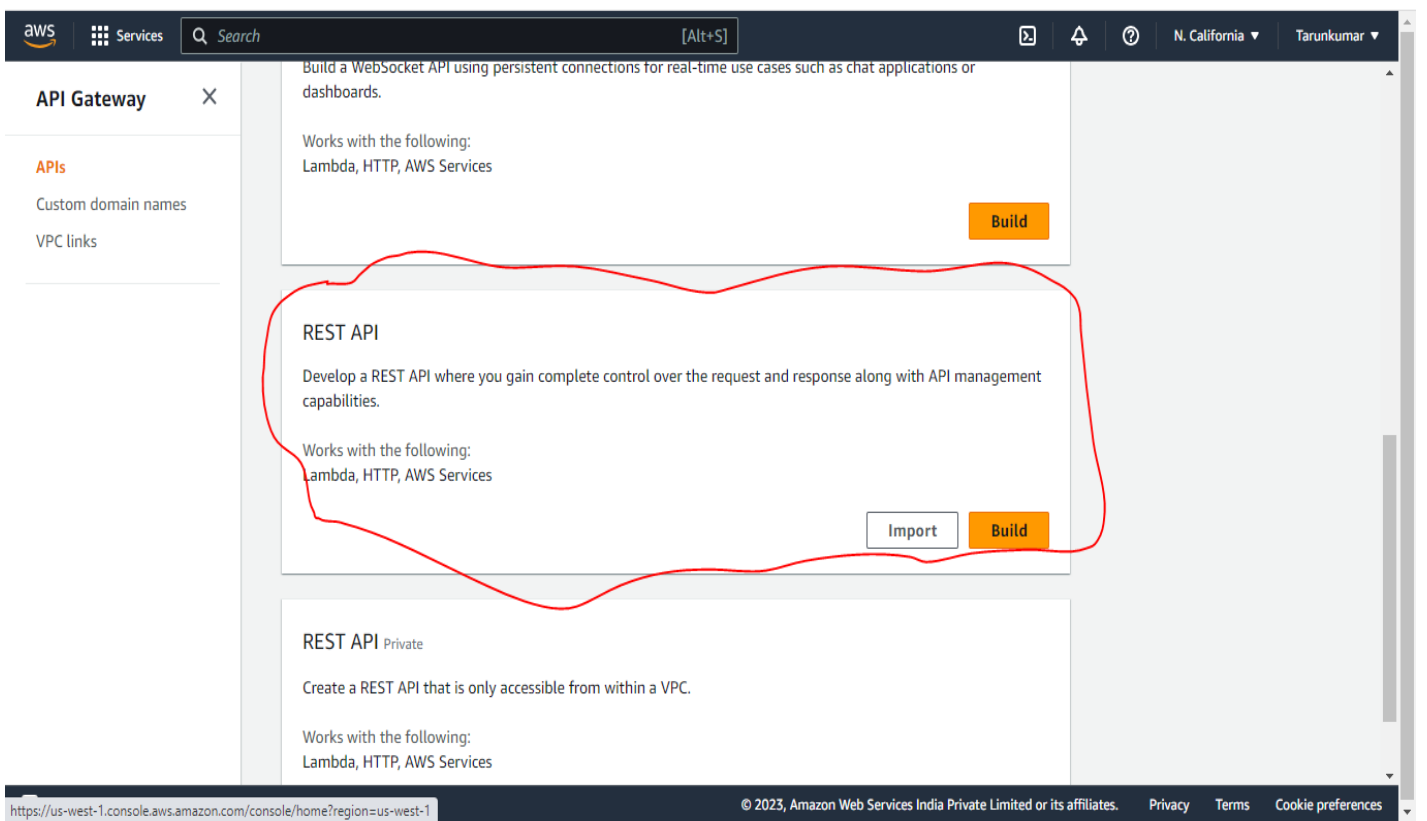
Function URL [Info](#)
-

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

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Go to API Gateway, build REST API



Choose a protocol and create a new API

aws

Services

Search

[Alt+S]

Amazon API Gateway

APIs > Create

Hide hints

Tarunkumar

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*

mynewapi

Description

Endpoint Type

Regional

* Required

Create API

CloudShell Feedback Language

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Create a method

aws

Services

Search

[Alt+S]

Amazon API Gateway

APIs > mynewapi (pbhktjxx7) > Resources > / (59tvdmbiua)

Hide hints

?

APIs

Custom Domain Names

VPC Links

API: mynewapi

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 resource.

CloudShell Feedback Language

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Choose the method as GET and integration type as Lambda function

APIs

Custom Domain Names

VPC Links

API: mynewapi

Resources

Stages

Authorizers

Gateway Responses

Models

Resource Policy

Documentation

Dashboard

Settings

Resources

Actions

/ - GET - Setup

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-west-1

Lambda Function: myapifunction

Use Default Timeout ☒

Save

Deploy the API

APIs

Custom Domain Names

VPC Links

API: mynewapi

Resources

Stages

Authorizers

Gateway Responses

Models

Resource Policy

Documentation

Dashboard

Settings

Resources

Actions

/ - GET - Method Execution

METHOD ACTIONS

- Edit Method Documentation
- Delete Method

RESOURCE ACTIONS

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

API ACTIONS

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

Method Request

Auth: NONE

ARN: arn:aws:execute-api:us-west-1:874870660460:pbohkjxx7/*/*GET

Integration Request

Type: LAMBDA_PROXY

Method Response

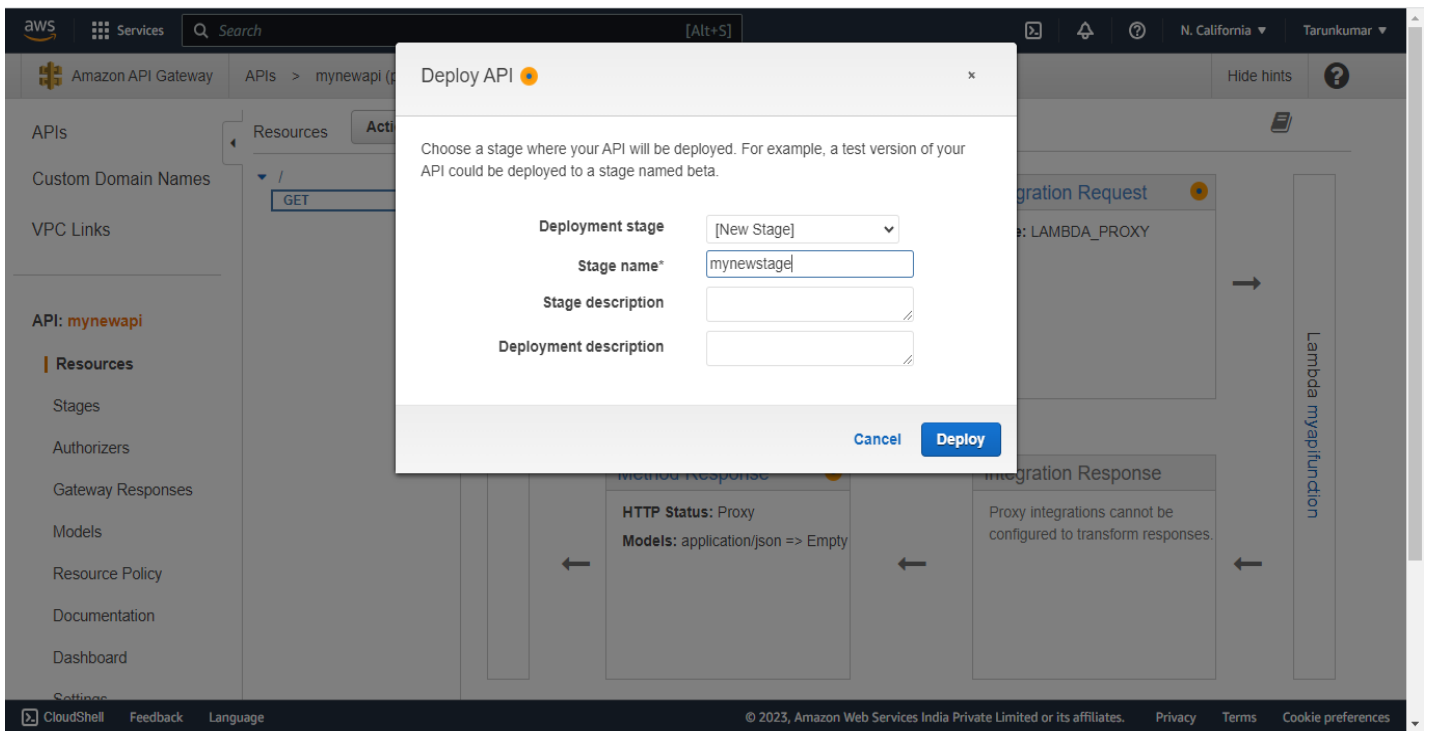
HTTP Status: Proxy

Models: application/json => Empty

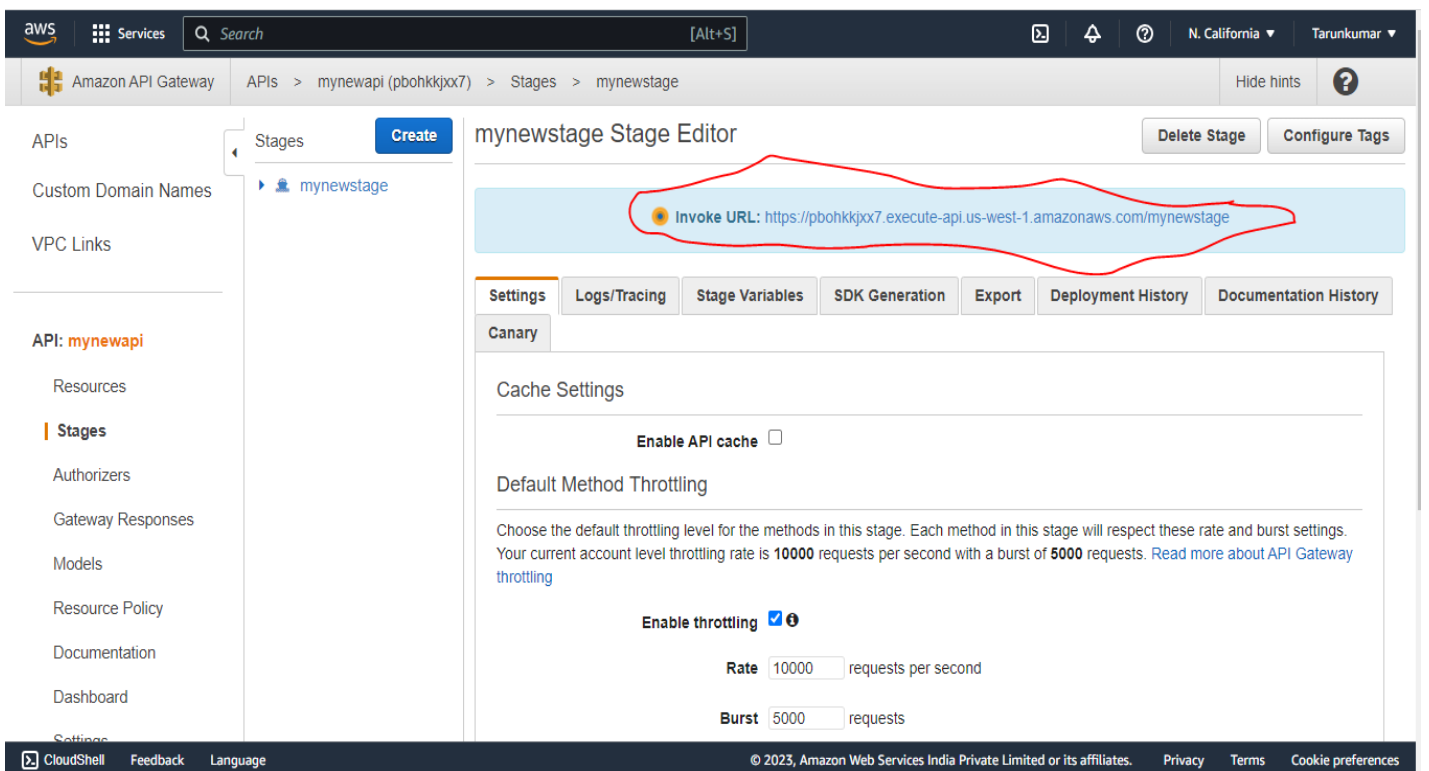
Integration Response

Proxy integrations cannot be configured to transform responses.

Lambda myapifunction



Test with the invoke URL



It is working.

←

→

↺

🔒

pbohkkjox7.execute-api.us-west-1.amazonaws.com/mynewstage

🔗

☆

🔴

⚙️

📺

T

Paused

⋮

"Hello from Lambda!"



Create dev,prod,Test Stages with Stage Variable and deploy API with Lambda Files

Create a lambda function

The screenshot shows the 'Create function' page in the AWS Lambda console. The 'Author from scratch' option is selected. The function name is 'mywebapp', the runtime is 'Python 3.10', and the architecture is 'x86_64'.

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 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.

Architecture [Info](#)
Choose the instruction set architecture you want for your function code.
☒ **x86_64**
☐ arm64

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The screenshot shows the 'Code source' tab for the 'mywebapp' function. A green notification bar at the top states: 'Successfully created the function mywebapp. You can now change its code and configuration. To invoke your function with a test event, choose "Test".' The code editor shows a Python lambda handler function.

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

Code source [Info](#) Upload from ▾

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

Go to Anything (Ctrl-P)

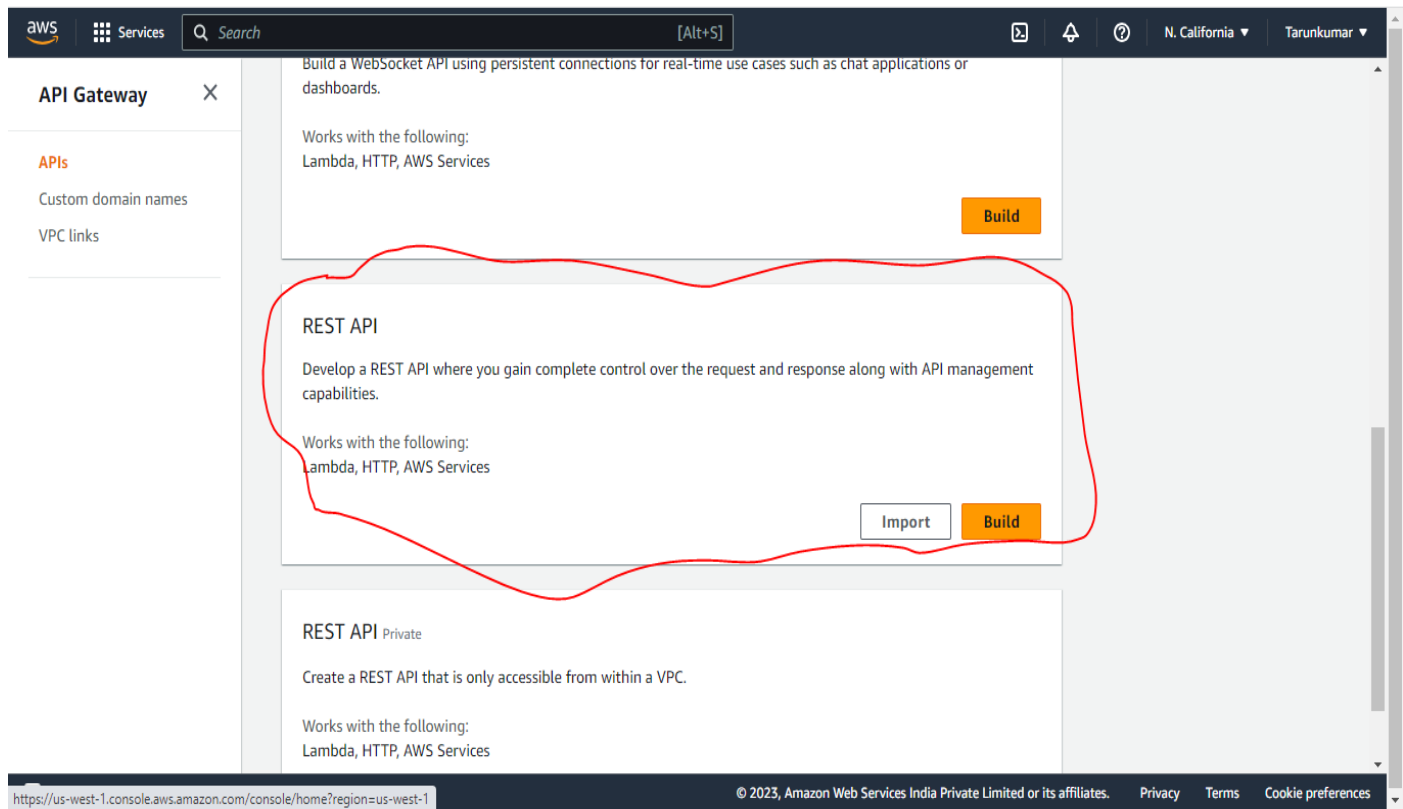
Environment

- mywebapp /
- lambda_function.py

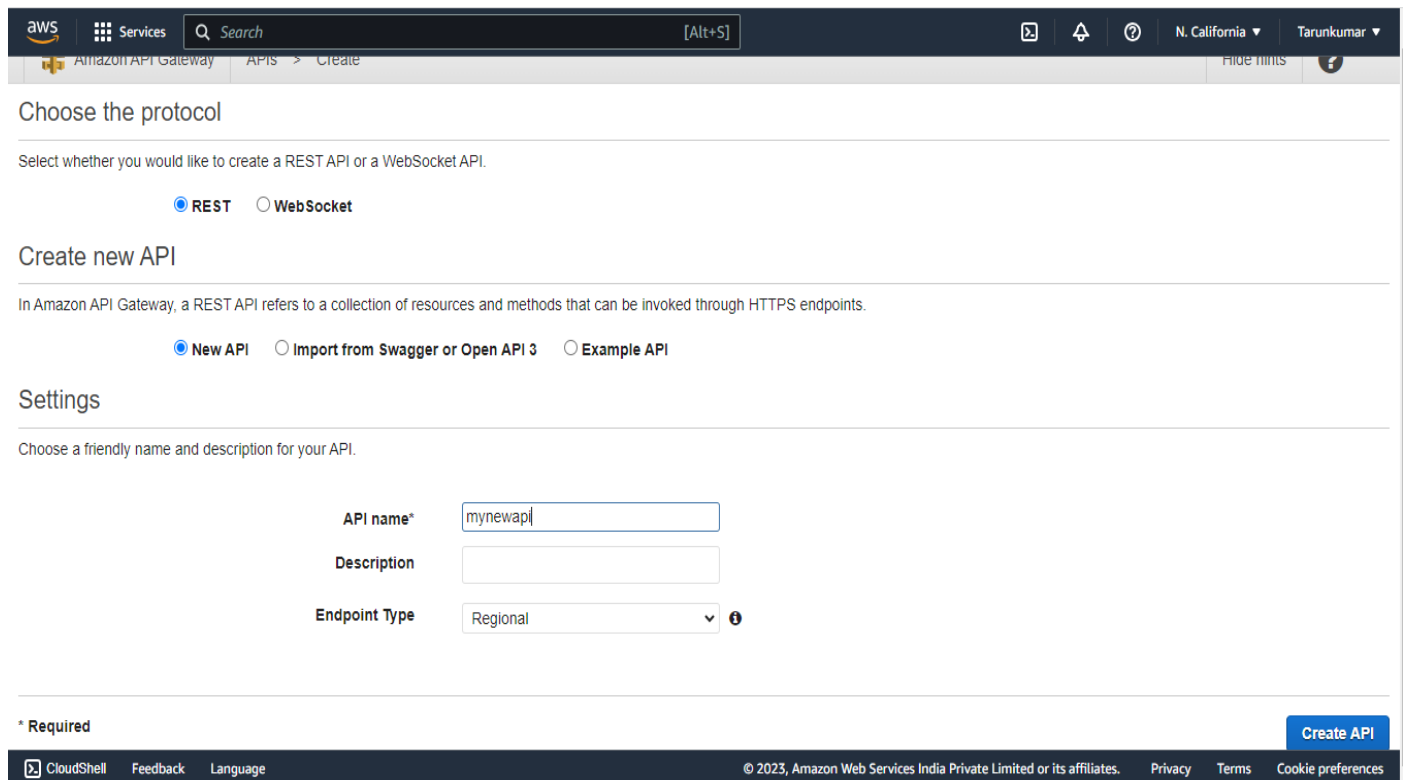
```
1 import json
2
3 def lambda_handler(event, context):
4     # TODO: Implement
5     message = {
6         'message': 'Execution started successfully--latest code!--'
7     }
8     return {
9         'statusCode': 200,
10        'headers': {'Content-Type': 'application/json'},
11        'body': json.dumps('Hello from Lambda!')}
12
13
```

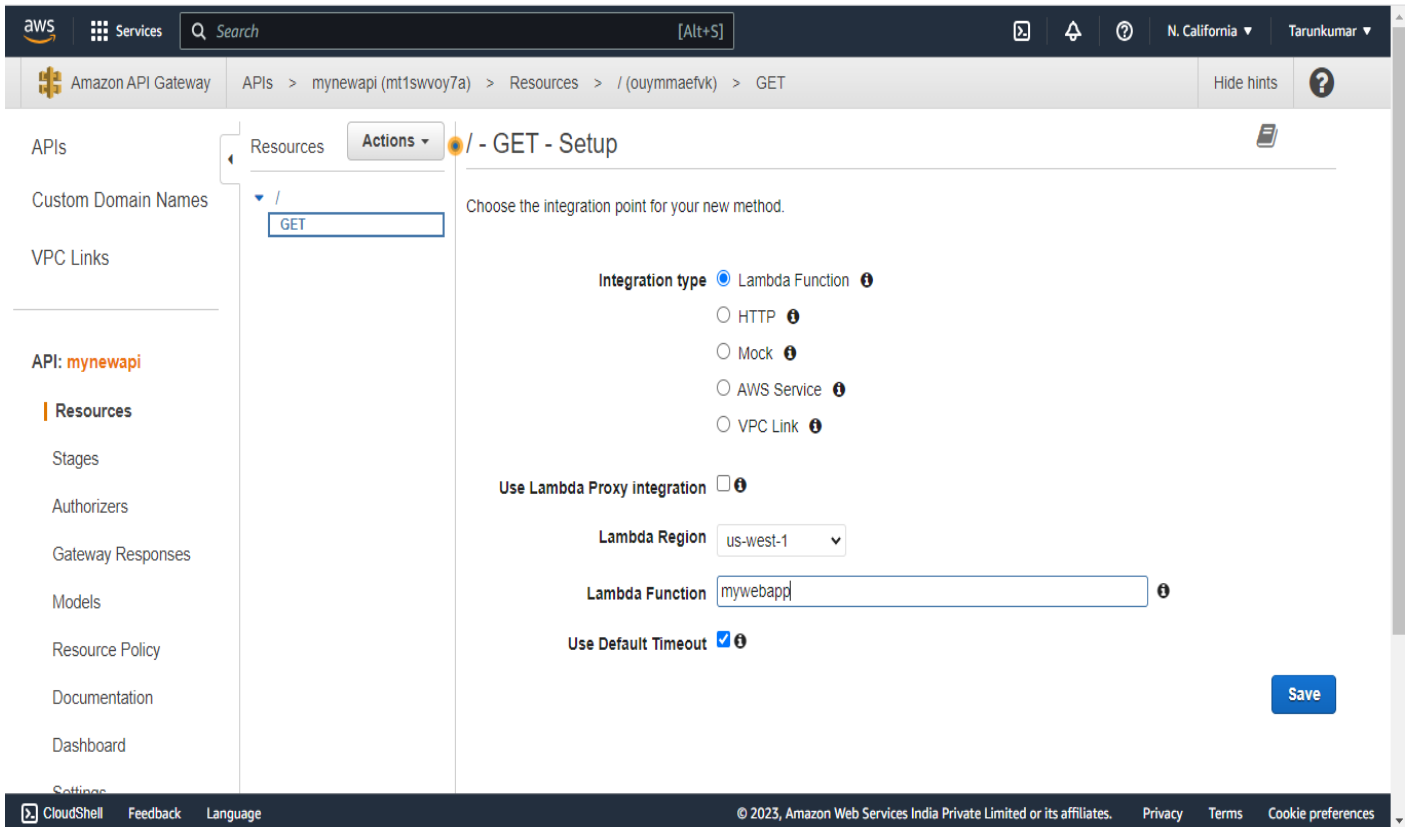
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Go to API Gateway, build REST API

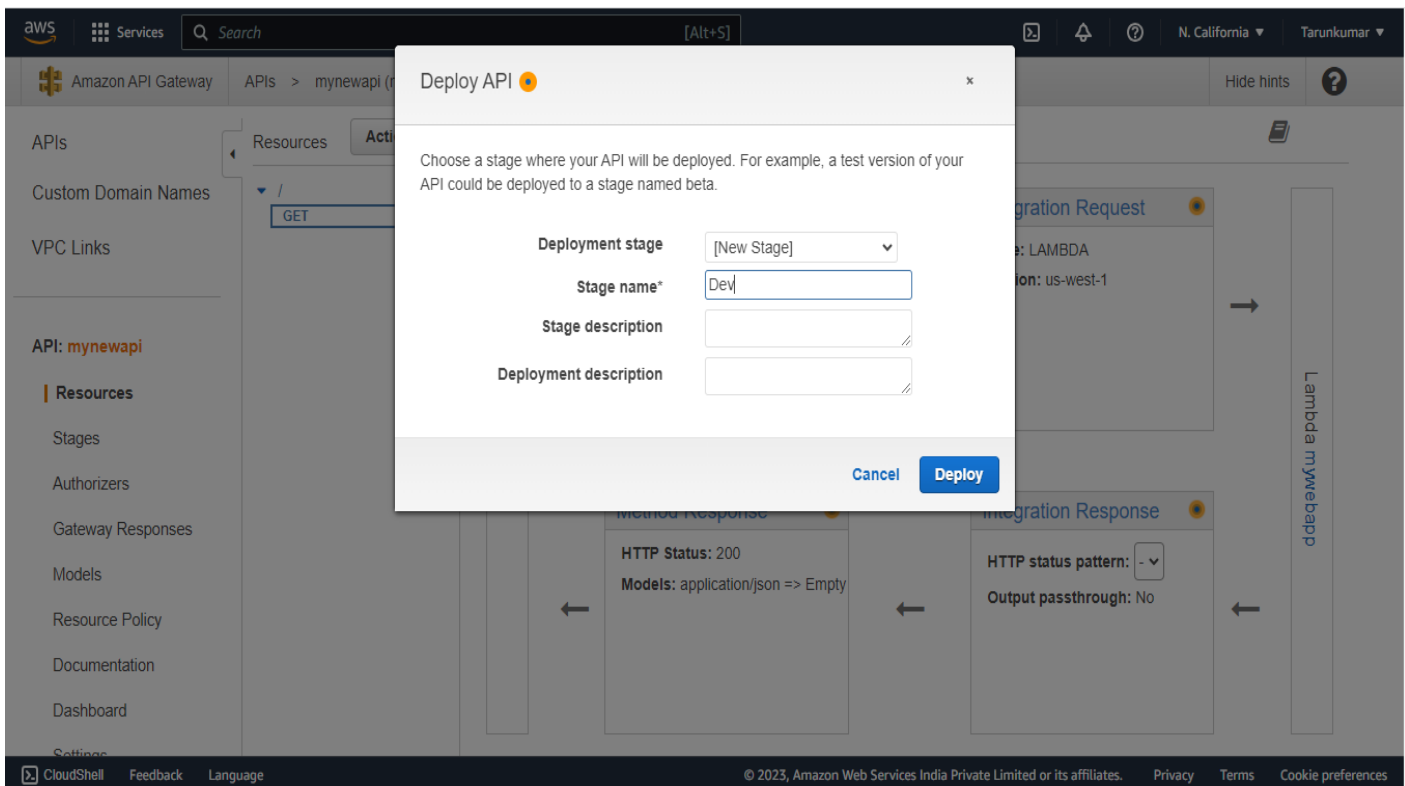


Choose the protocol and create new API

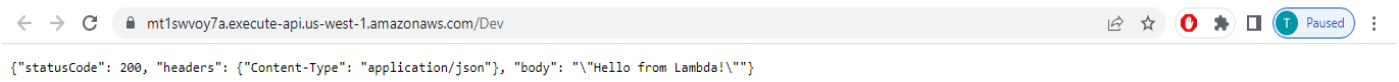




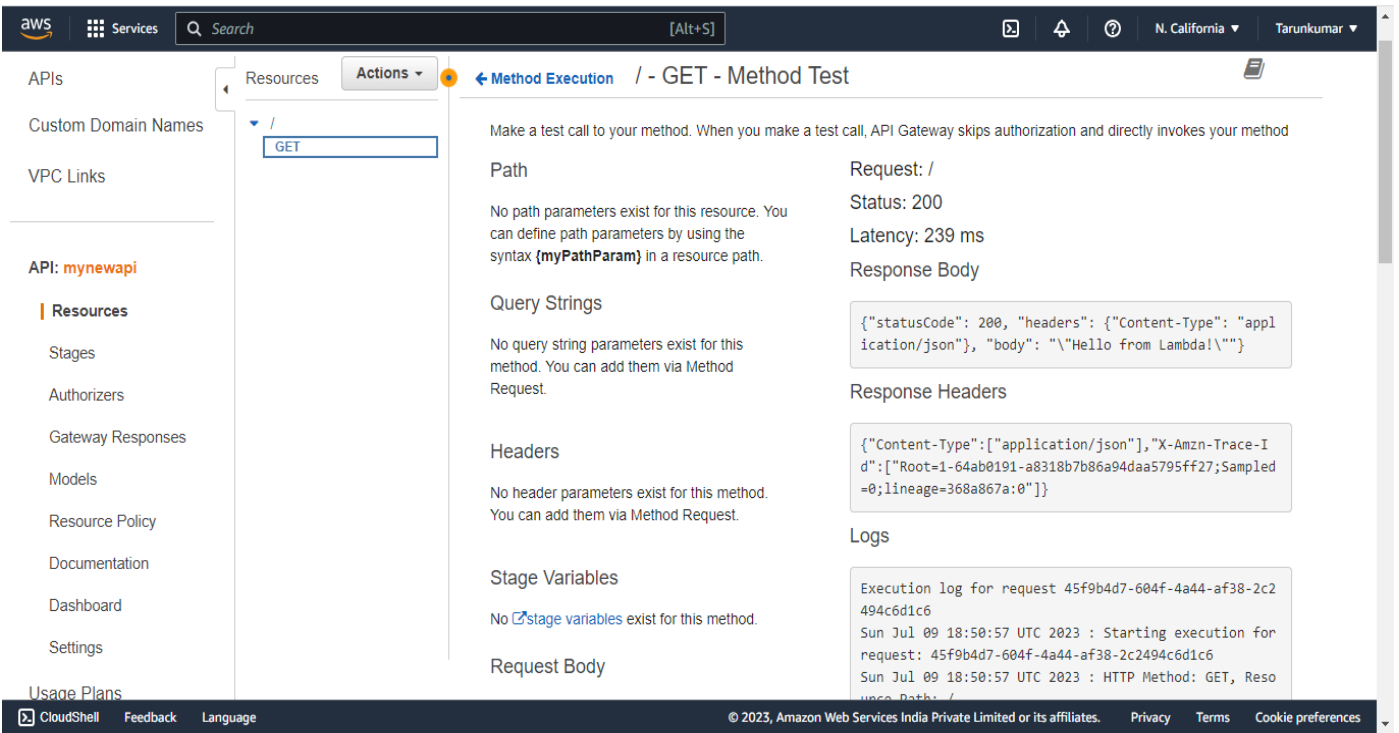
Deploy Dev stage



Dev stage works

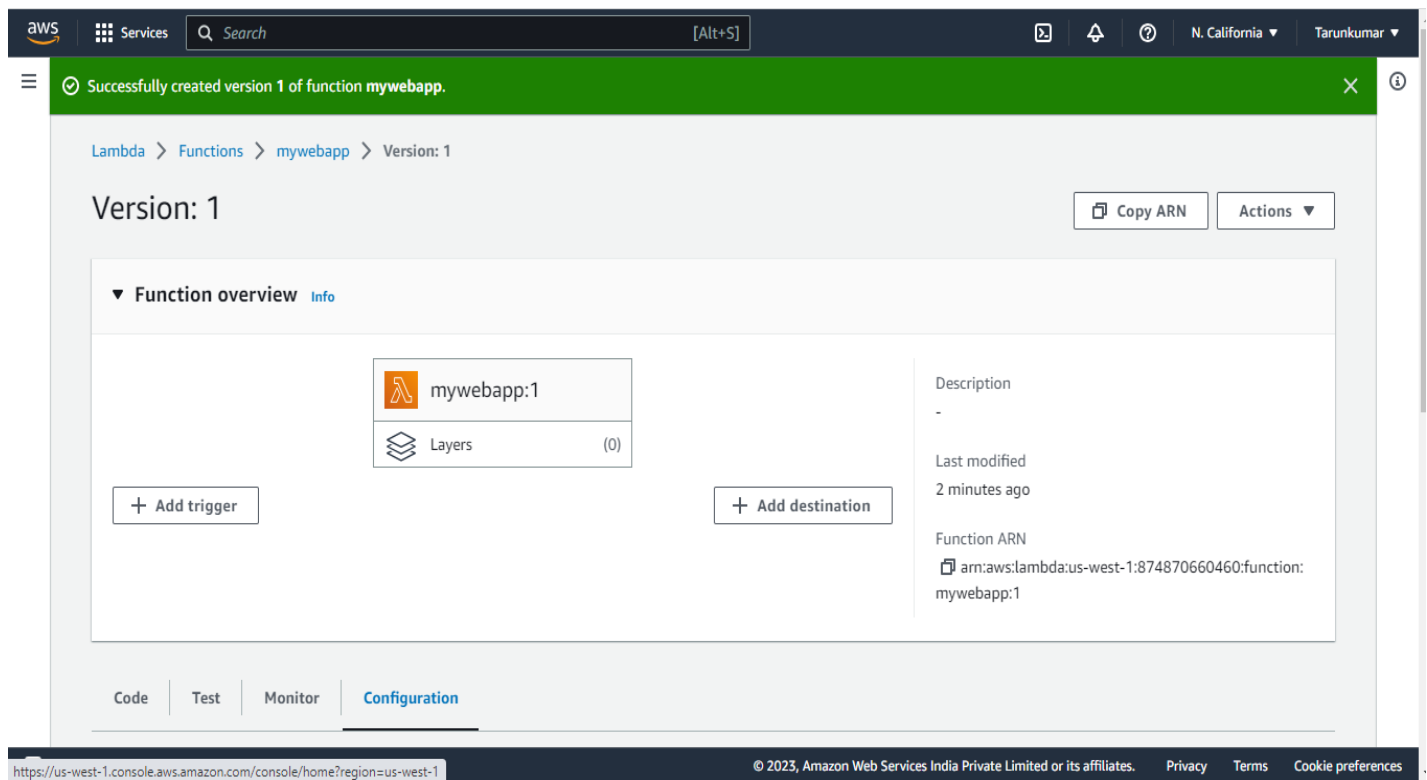
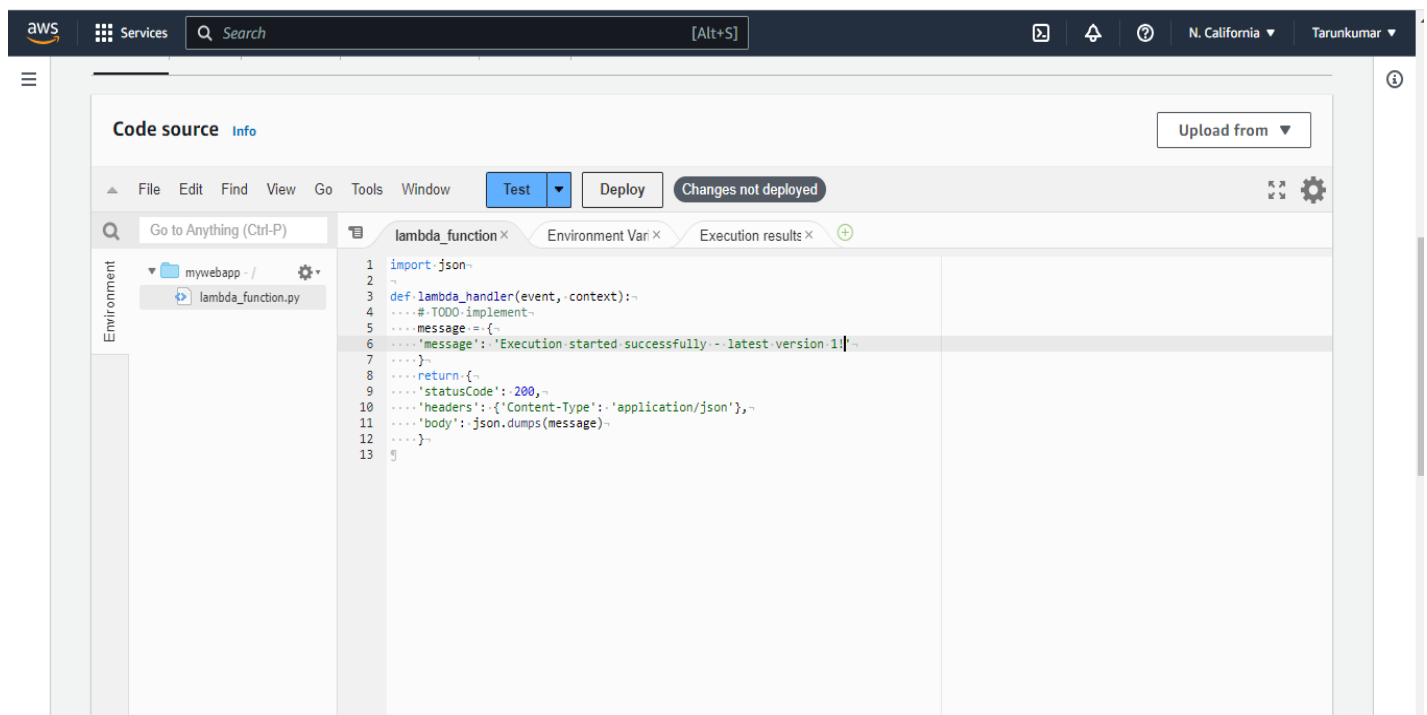


Test the method



Create multiple versions of lambda function

Version 1



Version 2

The screenshot shows the AWS Lambda console's Code editor for the function `mywebapp`. The top navigation bar includes the AWS logo, Services menu, a search bar, and user information (N. California, Tarunkumar). The main interface has tabs for Code, Test, Monitor, Configuration, Aliases, and Versions. The Code tab is active, displaying a file explorer on the left with `mywebapp` and `lambda_function.py`. The code editor shows the following Python code:

```
1 import json
2
3 def lambda_handler(event, context):
4     # TODO: implement
5     message = {
6         'message': 'Execution started successfully -- latest version 2'
7     }
8     return {
9         'statusCode': 200,
10        'headers': {'Content-Type': 'application/json'},
11        'body': json.dumps(message)
12    }
```

Buttons for 'Test' and 'Deploy' are visible, with a 'Changes not deployed' status. The bottom footer contains 'CloudShell', 'Feedback', 'Language', and copyright information for Amazon Web Services India Private Limited.

The screenshot shows the 'Version: 2' overview page for the `mywebapp` function in the AWS Lambda console. A green banner at the top states 'Successfully created version 2 of function mywebapp.' The breadcrumb navigation is 'Lambda > Functions > mywebapp > Version: 2'. The page title is 'Version: 2', with buttons for 'Copy ARN' and 'Actions'. The 'Function overview' section displays:

- Function icon and name: `mywebapp:2`
- Layers: (0)
- Description: -
- Last modified: 14 seconds ago
- Function ARN: `arn:aws:lambda:us-west-1:874870660460:function:mywebapp:2`

Buttons for '+ Add trigger' and '+ Add destination' are present. The bottom navigation bar includes 'Code', 'Test', 'Monitor', and 'Configuration' (which is the active tab). The footer contains 'CloudShell', 'Feedback', 'Language', and copyright information for Amazon Web Services India Private Limited.

Create alias for the lambda functions

Latest version for DEV

aws

Services

Search

[Alt+S]

N. California

Tarunkumar

Lambda > Functions > mywebapp > Create alias

1

Create alias

Alias configuration

An alias is a pointer to one or two versions. Choose each version that you want the alias to point to.

Name

DEV

Description - optional

Version

\$LATEST

► Weighted alias

Cancel

Save

https://us-west-1.console.aws.amazon.com/console/home?region=us-west-1

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aws

Services

Search

[Alt+S]

N. California

Tarunkumar

Lambda > Functions > mywebapp > Alias: DEV

1

Alias: DEV

Copy ARN

Actions

▼ Function overview Info

mywebapp:DEV

+ Add trigger

+ Add destination

Description

-

Version

\$LATEST

Function ARN

arn:aws:lambda:us-west-1:874870660460:function:mywebapp:DEV

Function URL Info

-

Test

Monitor

Configuration

CloudShell

Feedback

Language

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Version 1 for PROD

aws

Services

Search

[Alt+S]

N. California

Tarunkumar

Lambda

Functions

mywebapp

Create alias

☰

ⓘ

Create alias

Alias configuration

An alias is a pointer to one or two versions. Choose each version that you want the alias to point to.

Name

Description - optional

Version

2

► Weighted alias

Cancel

Save

CloudShell

Feedback

Language

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Terms

Cookie preferences

aws

Services

Search

[Alt+S]

N. California

Tarunkumar

☰

ⓘ

✓ Alias PROD was successfully created and is now pointing to version 2.

Lambda > Functions > mywebapp > Alias: PROD

Alias: PROD

Copy ARN

Actions

▼ Function overview

Info

mywebapp:PROD

+ Add trigger

+ Add destination

Description

-

Version

2

Function ARN

arn:aws:lambda:us-west-1:874870660460:function:mywebapp:PROD

Function URL

Info

https://us-west-1.console.aws.amazon.com/console/home?region=us-west-1

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Version 1 for TEST

aws

Services

Search

[Alt+S]

N. California

Tarunkumar

Lambda > Functions > mywebapp > Create alias

Create alias

Alias configuration

An alias is a pointer to one or two versions. Choose each version that you want the alias to point to.

Name

TEST

Description - optional

Version

1

► Weighted alias

Cancel

Save

CloudShell

Feedback

Language

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Cookie preferences

aws

Services

Search

[Alt+S]

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Alias TEST was successfully created and is now pointing to version 1.

Lambda > Functions > mywebapp > Alias: TEST

Alias: TEST

Copy ARN

Actions

▼ Function overview

mywebapp:TEST

+ Add trigger

+ Add destination

Description

-

Version

1

Function ARN

arn:aws:lambda:us-west-1:874870660460:function:mywebapp:TEST

Function URL

Info

CloudShell

Feedback

Language

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Cookie preferences

Edit the lambda function name in integration request from the GET method

APIs > mynewapi (mt1swvoy7a) > Resources > / (ouymmaefvk) > GET

APIs
Custom Domain Names
VPC Links

API: mynewapi

Resources

Stages
Authorizers
Gateway Responses
Models
Resource Policy
Documentation
Dashboard
Settings

Resources

Actions

Method Execution / - GET - Integration Request

Provide information about the target backend that this method will call and whether the incoming request data should be modified.

Integration type ☒ Lambda Function ⓘ
☐ HTTP ⓘ
☐ Mock ⓘ
☐ AWS Service ⓘ
☐ VPC Link ⓘ

Use Lambda Proxy integration ☐ ⓘ

Lambda Region us-west-1 ⓘ

Lambda Function
mywebapp:\${stageVariables.lambdaAlias} ⓘ ⓘ

Execution role ⓘ

Invoke with caller credentials ☐ ⓘ

Credentials cache Do not add caller credentials to cache key ⓘ

CloudShell Feedback Language

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We need to create the execution role for each versions

Add Permission to Lambda Function

You defined your Lambda function as a stage variable. Please ensure that you have the appropriate Function Policy on all functions you will use. You can do this by running the below AWS CLI command for each function, replacing the stage variable in the function-name parameter with the necessary function name.

```
aws lambda add-permission  
  
--function-name "arn:aws:lambda:us-west-1:874870660460:function:mywebapp:${stageVariables.lambdaAlias}"  
--source-arn "arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/"  
--principal apigateway.amazonaws.com  
--statement-id d51e173d-7067-49ac-8b20-88619576d3d6  
--action lambda:InvokeFunction
```

Cancel OK

Edit the highlighted part to respective version names of the lambda function


```
aws lambda add-permission --function-name "arn:aws:lambda:us-west-1:874870660460:function:mywebapp:DEV"
--source-arn "arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/"
--principal apigateway.amazonaws.com --statement-id d51e173d-7067-49ac-8b20-88619576d3d6
--action lambda:InvokeFunction --region us-west-1

aws lambda add-permission --function-name "arn:aws:lambda:us-west-1:874870660460:function:mywebapp:PROD"
--source-arn "arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/"
--principal apigateway.amazonaws.com --statement-id d51e173d-7067-49ac-8b20-88619576d3d6
--action lambda:InvokeFunction --region us-west-1

aws lambda add-permission --function-name "arn:aws:lambda:us-west-1:874870660460:function:mywebapp:LATEST"
--source-arn "arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/"
--principal apigateway.amazonaws.com --statement-id d51e173d-7067-49ac-8b20-88619576d3d6
--action lambda:InvokeFunction --region us-west-1
```

Open cloud shell and execute each commands for each versions

The screenshot shows the AWS CloudShell interface. The terminal output is as follows:

```
-bash: --principal: command not found
[cloudshell-user@ip-10-4-29-112 ~]$ --action lambda:InvokeFunction --region us-west-1
-bash: --action: command not found
[cloudshell-user@ip-10-4-29-112 ~]$ aws lambda add-permission --function-name "arn:aws:lambda:us-west-1:874870660460:function:mywebapp:DEV" --source-arn "arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/" --principal apigateway.amazonaws.com --statement-id d51e173d-7067-49ac-8b20-88619576d3d6 --action lambda:InvokeFunction --region us-west-1
{
  "Statement": "{ \"Sid\": \"d51e173d-7067-49ac-8b20-88619576d3d6\", \"Effect\": \"Allow\", \"Principal\": { \"Service\": \"apigateway.amazonaws.com\" }, \"Action\": \"lambda:InvokeFunction\", \"Resource\": \"arn:aws:lambda:us-west-1:874870660460:function:mywebapp:DEV\", \"Condition\": { \"ArnLike\": { \"AWS:SourceArn\": \"arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/\" } } }"
}
[cloudshell-user@ip-10-4-29-112 ~]$ aws lambda add-permission --function-name "arn:aws:lambda:us-west-1:874870660460:function:mywebapp:PROD" --source-arn "arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/" --principal apigateway.amazonaws.com --statement-id d51e173d-7067-49ac-8b20-88619576d3d6 --action lambda:InvokeFunction --region us-west-1
{
  "Statement": "{ \"Sid\": \"d51e173d-7067-49ac-8b20-88619576d3d6\", \"Effect\": \"Allow\", \"Principal\": { \"Service\": \"apigateway.amazonaws.com\" }, \"Action\": \"lambda:InvokeFunction\", \"Resource\": \"arn:aws:lambda:us-west-1:874870660460:function:mywebapp:PROD\", \"Condition\": { \"ArnLike\": { \"AWS:SourceArn\": \"arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/\" } } }"
}
[cloudshell-user@ip-10-4-29-112 ~]$
[cloudshell-user@ip-10-4-29-112 ~]$ aws lambda add-permission --function-name "arn:aws:lambda:us-west-1:874870660460:function:mywebapp:LATEST" --source-arn "arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/" --principal apigateway.amazonaws.com --statement-id d51e173d-7067-49ac-8b20-88619576d3d6 --action lambda:InvokeFunction --region us-west-1
An error occurred (ResourceNotFoundException) when calling the AddPermission operation: Cannot find alias arn:aws:lambda:us-west-1:874870660460:function:mywebapp:LATEST
[cloudshell-user@ip-10-4-29-112 ~]$ aws lambda add-permission --function-name "arn:aws:lambda:us-west-1:874870660460:function:mywebapp:TEST" --source-arn "arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/" --principal apigateway.amazonaws.com --statement-id d51e173d-7067-49ac-8b20-88619576d3d6 --action lambda:InvokeFunction --region us-west-1
{
  "Statement": "{ \"Sid\": \"d51e173d-7067-49ac-8b20-88619576d3d6\", \"Effect\": \"Allow\", \"Principal\": { \"Service\": \"apigateway.amazonaws.com\" }, \"Action\": \"lambda:InvokeFunction\", \"Resource\": \"arn:aws:lambda:us-west-1:874870660460:function:mywebapp:TEST\", \"Condition\": { \"ArnLike\": { \"AWS:SourceArn\": \"arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/\" } } }"
}
[cloudshell-user@ip-10-4-29-112 ~]$
```

The URL at the bottom of the console is <https://us-west-1.console.aws.amazon.com/console/home?region=us-west-1>.

Execution role has been created for each version of lambda function

Policy statement details

Statement ID

d51e173d-7067-49ac-8b20-88619576d3d6

Principal

apigateway.amazonaws.com

Effect

Allow

Action

lambda:InvokeFunction

Conditions

```
{
  "ArnLike": {
    "AWS:SourceArn": "arn:aws:execute-api:us-west-1:874870660460:mt1swvoy7a/*/GET/"
  }
}
```

Edit

Close

Create stages prod, test

aws

Services

Search

[Alt+S]

Amazon API Gateway

APIs > mynewapi (mt1swvoy7a) > Stages

Hide hints

?

APIs

Custom Domain Names

VPC Links

API: mynewapi

Resources

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Settings

Stages

Create

Select a stage

Dev

CloudShell

Feedback

Language

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aws

Services

Search

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N. California

Tarunkumar

Amazon API Gateway

APIs > mynewapi (mt1swvoy7a) > Stages > Test

Hide hints

APIs

Custom Domain Names

VPC Links

API: mynewapi

Resources

Stages

Authorizers

Gateway Responses

Models

Resource Policy

Documentation

Dashboard

Settings

Stages

Create

Test Stage Editor

Delete Stage

Configure Tags

Invoke URL: https://mt1swvoy7a.execute-api.us-west-1.amazonaws.com/Test

SettingsLogs/TracingStage VariablesSDK GenerationExportDeployment HistoryDocumentation History

Canary

Cache Settings

Enable API cache

Default Method Throttling

Choose the default throttling level for the methods in this stage. Each method in this stage will respect these rate and burst settings. Your current account level throttling rate is 10000 requests per second with a burst of 5000 requests. [Read more about API Gateway throttling](#)

Enable throttling

Rate10000requests per second

Burst5000requests

CloudShell

Feedback

Language

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Create stage variables for PROD and TEST

aws

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Canary

You can add, remove, and edit stage variables and their values. You can use stage variables in your API configuration to parameterize the integration of a request. Stage variables are also available in the \$context object of the mapping templates.

Name	Value	Actions
lambdaAlias	PROD	✓✕

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Name	Value	Actions
lambdaAlias	TEST	✓✕

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Invoke URL: https://mt1swvoy7a.execute-api.us-west-1.amazonaws.com/Dev

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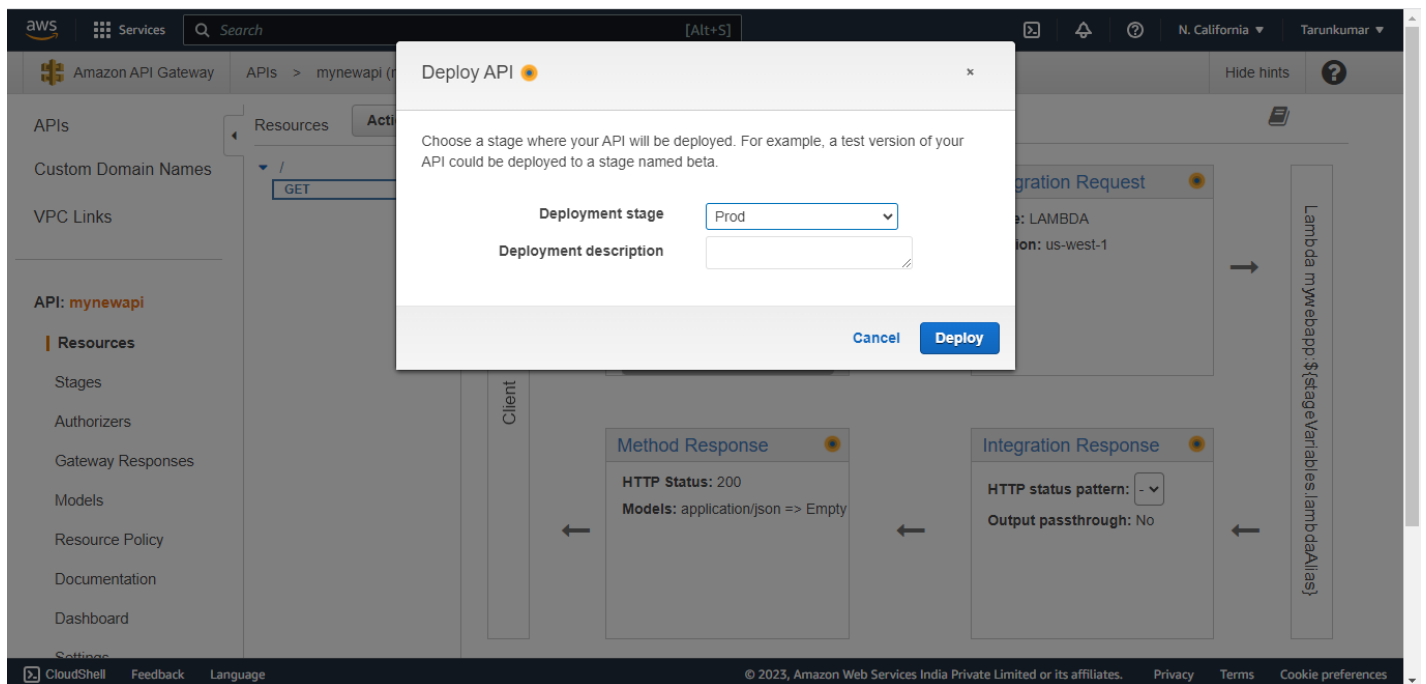
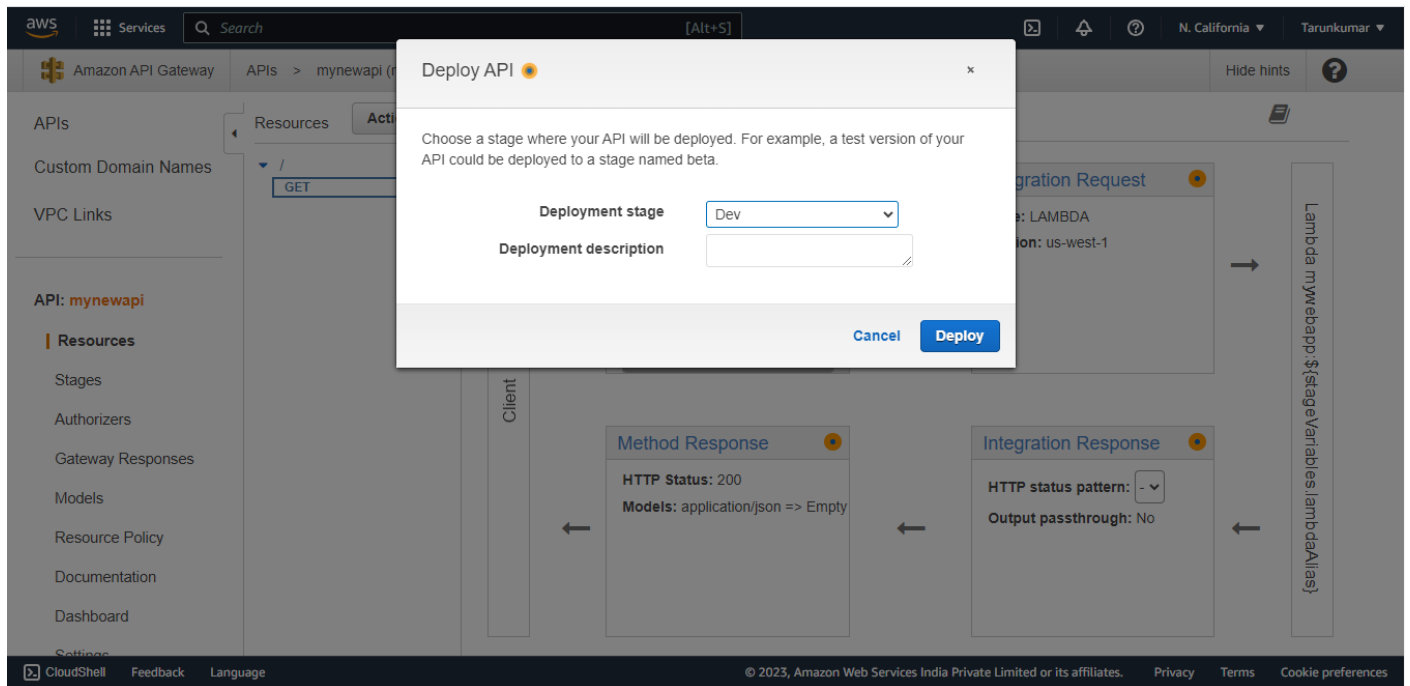
Canary

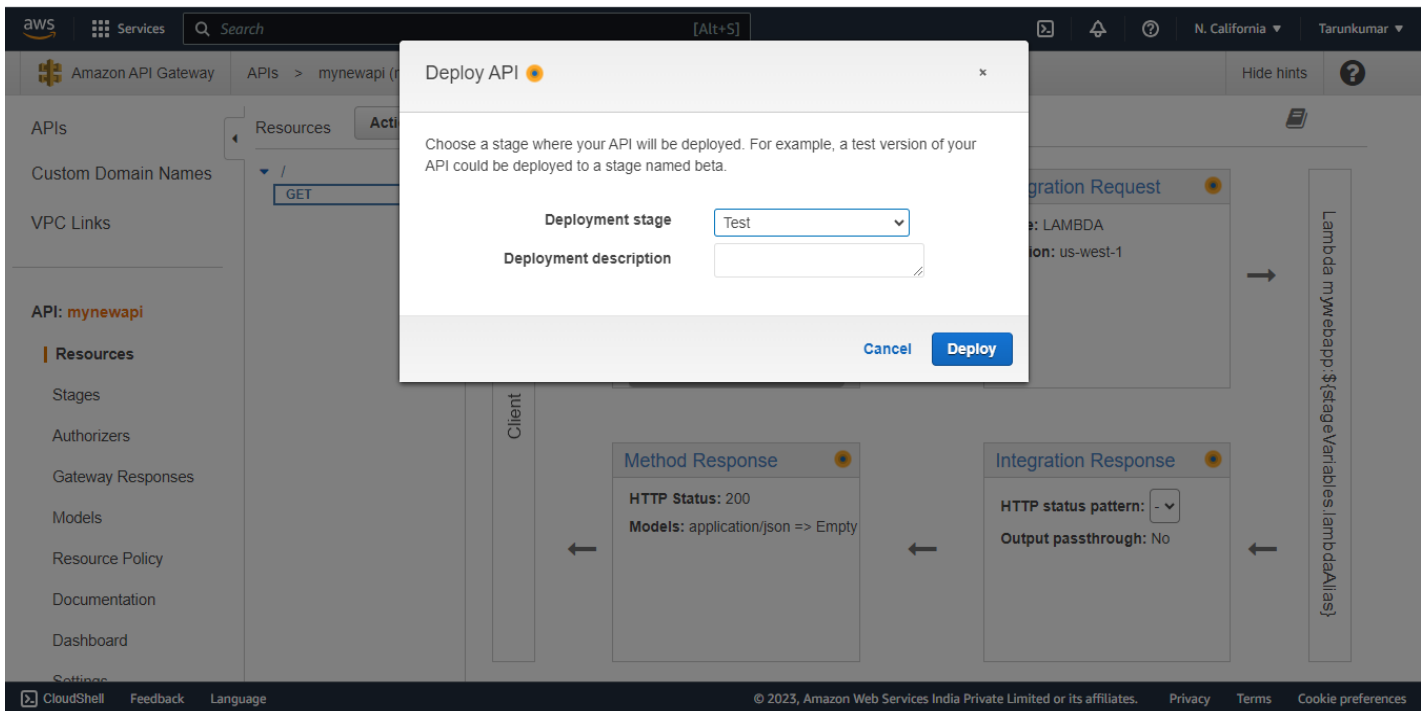
You can add, remove, and edit stage variables and their values. You can use stage variables in your API configuration to parameterize the integration of a request. Stage variables are also available in the \$context object of the mapping templates.

Name	Value	Actions
lambdaAlias	DEV	✓✕

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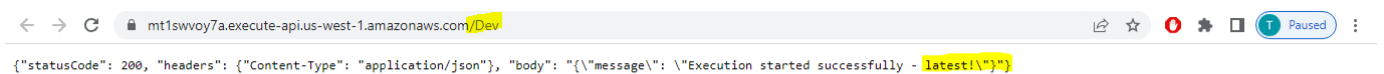
Deploy api for each stage



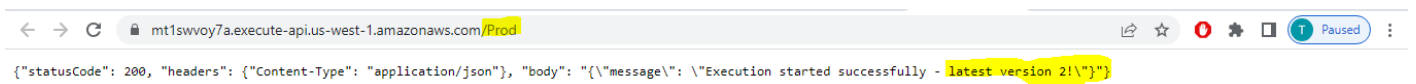


3 stages have been created and deployed successfully with 3 versions of lambda functions

Dev



Prod



Test

