



BH. SRAWANI
BSC. CS.

Serverless Web Application Using AWS Services.

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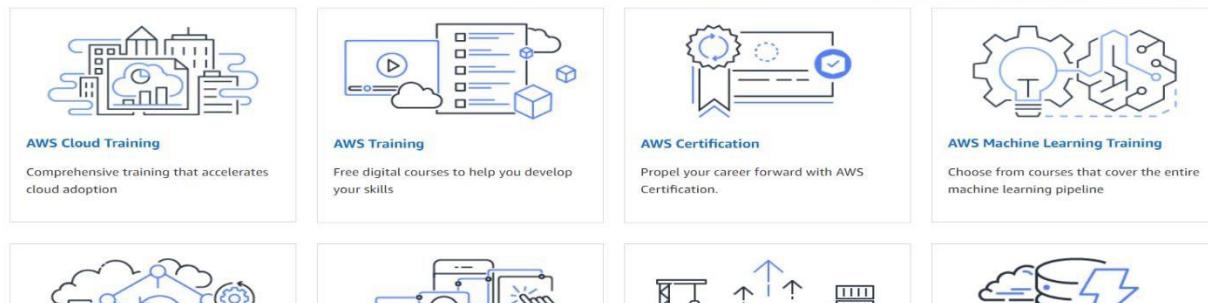
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AWS Management Console [Overview](#) Features FAQs

AWS Management Console

Everything you need to access and manage the AWS Cloud — in one web interface

[Log back in](#)



AWS Management Console [ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1](#)

Services [Q: iam](#)

Search results for 'iam'

Services (6) [See all 6 results ▾](#)

- Features (17)
- Blogs (1,419)
- Documentation (112,760)
- Knowledge Articles (50)
- Events (6)
- Marketplace (570)

IAM Manage access to AWS resources

IAM Identity Center (successor to AWS Single Sign-On) Manage workforce user access to multiple AWS accounts and cloud applications

Resource Access Manager Share AWS resources with other accounts or AWS Organizations

Amazon VPC IP Address Manager Managed IP address management service

Features (17) [See all 17 results ▾](#)

- Groups [IAM feature](#)
- Roles [IAM feature](#)
- Access Analyzer [IAM feature](#)
- Organization activity [IAM feature](#)

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Services [Q: Search for services, features, blogs, docs, and more](#) [Alt+S]

Identity and Access Management (IAM)

IAM dashboard

Security recommendations 1

- Add MFA for root user** [Add MFA for root user - Enable multi-factor authentication \(MFA\) for the root user to improve security for this account.](#) [Add MFA](#)
- Root user has no active access keys** [Using access keys attached to an IAM user instead of the root user improves security.](#)

IAM resources

User groups	Users	Roles	Policies	Identity providers
0	0	21	12	0

What's new [View all](#)

Updates for features in IAM

- IAM Access Analyzer now reviews your AWS CloudTrail history to identify actions used across 140 AWS services and generates fine-grained policies. 2 weeks ago
- IAM Access Analyzer makes it easier to author and validate role trust policies. 2 weeks ago
- AWS Lambda announces support for a new IAM condition key, `lambda:SourceFunctionArn`. 3 months ago
- AWS Lambda announces support for Attribute-Based Access Control (ABAC). 3 months ago

AWS Account

Account ID 558262266395

Account Alias 558262266395 [Create](#)

Sign-in URL for IAM users in this account <https://558262266395.signin.aws.amazon.com/console>

Quick Links

My security credentials
Manage your access keys, multi-factor authentication (MFA) and other credentials.

Tools

Policy simulator
The simulator evaluates the policies that you choose and determines the effective permissions for each of the actions that you specify.

IAM Management Console IAM > Roles

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles**
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analyzers
- Settings

Credential report

Organization activity

Service control policies (SCPs)

Roles (21) 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.

Create role

Role name	Trusted entities	Last act...
aws-elasticbeanstalk-ec2-role	AWS Service: ec2	13 days ago
aws-elasticbeanstalk-service-role	AWS Service: elasticbeanstalk	13 days ago
AWSServiceRoleForAmazonCodeGuruReviewer	AWS Service: codeguru-reviewer (Service-Linked Role)	4 days ago
AWSServiceRoleForAPIGateway	AWS Service: ops.apigateway (Service-Linked Role)	-
AWSServiceRoleForApplicationAutoScaling_DynamoDBTable	AWS Service: dynamodb.application-autoscaling (Service-Linked Role)	1 hour ago
AWSServiceRoleForAutoScaling	AWS Service: autoscaling (Service-Linked Role)	13 days ago
AWSServiceRoleForAWSCloud9	AWS Service: cloud9 (Service-Linked Role)	1 hour ago
AWSServiceRoleForElasticLoadBalancing	AWS Service: elasticloadbalancing (Service-Linked Role)	13 days ago
AWSServiceRoleForSupport	AWS Service: support (Service-Linked Role)	-

IAM Management Console IAM > Roles > Create role

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles**
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
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Credential report

Organization activity

Service control policies (SCPs)

Select trusted entity

Step 1 Select trusted entity

Step 2 Add permissions

Step 3 Name, review, and create

Trusted entity type

- AWS service
- AWS account
- Web identity

- SAML 2.0 federation
- Custom trust policy

Use case

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

Common use cases

- EC2
- Lambda

Use cases for other AWS services:

Next

IAM Management Console IAM > Roles > Create role

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
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Credential report

Organization activity

Service control policies (SCPs)

Add permissions

Step 1 Select trusted entity

Step 2 Add permissions

Step 3 Name, review, and create

Permissions policies (Selected 1/780)

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

Filter policies by property or policy name and press enter.

Policy name

Type	Description
AWS m...	Provides access to use AWS Config, including searc...
AWS m...	Provides full access to AWS services and resources, ...
AWS m...	DeepRacer MultiUser Default user access to use dee...

Set permissions boundary - optional

Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting, but you can use it to delegate permission management to others.

Create role without a permissions boundary

Use a permissions boundary to control the maximum role permissions

Next

IAM Management Console

us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/roles/create?commonUseCase=Lambda&step=review&trustedEntityType=AWS_SERVICE

Identity and Access Management (IAM)

Name, review, and create

Role details

Role name: ServerlessWebApplication

Description: Allows Lambda functions to call AWS services on your behalf.

Step 1: Select trusted entities

```

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

Step 2: Add permissions

Permissions policy summary

Policy name	Type	Attached as
PowerUserAccess	AWS managed - job function	Permissions policy

Tags

Add tags - optional

Create role

IAM Management Console

us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/roles

Identity and Access Management (IAM)

Role ServerlessWebApplication created.

Roles (22) Info

View role

Create role

Role name	Trusted entities	Last activity
aws-elasticbeanstalk-ec2-role	AWS Service: ec2	13 days ago
aws-elasticbeanstalk-service-role	AWS Service: elasticbeanstalk	13 days ago
AWSServiceRoleForAmazonCodeGuruReviewer	AWS Service: codeguru-reviewer (Service-Linked Role)	4 days ago
AWSServiceRoleForAPIGateway	AWS Service: ops.apigateway (Service-Linked Role)	-
AWSServiceRoleForApplicationAutoScaling_DynamoDBTable	AWS Service: dynamodb.application-autoscaling (Service-Linked Role)	1 hour ago
AWSServiceRoleForAutoScaling	AWS Service: autoscaling (Service-Linked Role)	13 days ago
AWSServiceRoleForAWSCloud9	AWS Service: cloud9 (Service-Linked Role)	1 hour ago
AWSServiceRoleForElasticLoadBalancing	AWS Service: elasticloadbalancing (Service-Linked Role)	13 days ago
AWSServiceRoleForSupport	AWS Service: support (Service-Linked Role)	-
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service-Linked Role)	-
Cars-role-6z1q1gom	AWS Service: lambda	15 days ago
cars-role-9zzdpjze	AWS Service: lambda	-
cars-role-rmca6d1r	AWS Service: lambda	-
drop-down	AWS Service: lambda	-

IAM Management Console us-east-1.console.aws.amazon.com/iamv2/home#/roles

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles **ServerlessWebApplication**

Policies

Identity providers

Account settings

Access reports

Access analyzer

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Analyzers

Settings

Credential report

Organization activity

Service control policies (SCPs)

Related consoles

IAM Identity Center **New**

Roles (22) Info An IAM role is an identity you can create that has specific permissions that are valid for short durations. Roles can be assumed by entities that you trust.

Role name **ServerlessWebApplication**

Trusted entities AWS Service: lambda

Roles Anywhere Info Authenticate your non AWS workloads and securely provide access to AWS services.

Access AWS from your non AWS workloads

X.509 Standard

Temporary credentials

Manage

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IAM Management Console us-east-1.console.aws.amazon.com/iamv2/home#/roles/details/ServerlessWebApplication?section=permissions

Identity and Access Management (IAM)

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Roles **ServerlessWebApplication**

Policies

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Organization activity

Service control policies (SCPs)

Related consoles

IAM Identity Center **New**

Introducing the new IAM roles experience We've redesigned the IAM roles experience to make it easier to use. [Let us know what you think.](#)

IAM > Roles > ServerlessWebApplication

ServerlessWebApplication

Allows Lambda functions to call AWS services on your behalf.

Delete

Summary

Creation date October 20, 2022, 14:50 (UTC+05:30)

ARN arn:aws:iam::558262266395:role/ServerlessWebApplication

Last activity None

Maximum session duration 1 hour

Permissions | Trust relationships | Tags | Access Advisor | Revoke sessions

Permissions policies (1) Info You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter.

Policy name Type Description

PowerUserAccess AWS managed - job function Provides full access to AWS services and re...

Permissions boundary - (not set) Info Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting but can be used to delegate permission management to others.

Set permissions boundary

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IAM Management Console X AWS Management Console X ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1

DynamoDB

Search results for 'Dyna'

Services (3)

Features (6)

Blogs (769)

Documentation (1)

Tutorials (4)

Events (12)

Services

DynamoDB ★ Managed NoSQL Database

CloudFront ★ Global Content Delivery Network

AWS Cloud Map ★ Build a dynamic map of your cloud

Features

DHCP options sets VPC feature

Fleet indexing IoT Core feature

Memcached ElastiCache feature

Transit Gateway route tables VPC feature

Blogs

Cost-optimization on Spot Instances using checkpoint for Ansys LS-DYNA

By Dnyanesh Digaraskar, Amit Varde | Date: September 27, 2021

See all 6 results ▶

See all 769 results ▶

Get started with AWS

Training and certification

What's new with AWS?

solution

Register a domain With Route 53 (3 mins)

Build a web app With AWS App Runner (5 mins)

Deploy a serverless microservice With API Gateway (2 mins)

Start migrating to AWS With AWS MGN (2 mins)

Go to AWS Health

IAM Management Console X List tables | Amazon DynamoDB X

ap-south-1.console.aws.amazon.com/dynamodbv2/home?region=ap-south-1#tables

DynamoDB

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Dashboard

Tables

Create table

Update settings

Explore items

PartiQL editor

Backups

Exports to S3

Imports from S3

Reserved capacity

Settings

DAX

Clusters

Subnet groups

Parameter groups

Events

Tables (0) Info

Find tables by table name Any table tag

Name Status Partition key Sort key Indexes Read capacity mode Write capacity mode Size Table class

No tables found

We cannot find a match.

Clear filter

IAM Management Console > Create table | Amazon DynamoDB

DynamoDB > Tables > Create table

Create table

Table details Info

DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.

Table name
 This will be used to identify your table.

Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.)

Partition key
 The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.
 String
1 to 255 characters and case sensitive.

Sort key - optional
 You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.
 String
1 to 255 characters and case sensitive.

Table settings

Default settings
 The fastest way to create your table. You can modify these settings now or after your table has been created.

Customize settings
 Use these advanced features to make DynamoDB work better for your needs.

Default table settings
 These are the default settings for your new table. You can change some of these settings after creating the table.

Default settings
 The fastest way to create your table. You can modify these settings now or after your table has been created.

Customize settings
 Use these advanced features to make DynamoDB work better for your needs.

Default table settings
 These are the default settings for your new table. You can change some of these settings after creating the table.

Setting	Value	Editable after creation
Capacity mode	Provisioned	Yes
Read capacity	5 RCU	Yes
Write capacity	5 WCU	Yes
Auto scaling	On	Yes
Local secondary indexes	-	No
Global secondary indexes	-	Yes
Encryption key management	Owned by Amazon DynamoDB	Yes
Table class	DynamoDB Standard	Yes

Tags
 Tags are pairs of keys and optional values, that you can assign to AWS resources. You can use tags to control access to your resources or track your AWS spending.

No tags are associated with the resource.

Add new tag
You can add 50 more tags.

Create table

IAM Management Console > List tables | Amazon DynamoDB

DynamoDB > Tables

Tables (1) info

The CustomerDetails table was created successfully.

Name	Status	Partition key	Sort key	Indexes	Read capacity mode	Write capacity mode	Size	Table class
CustomerDetails	Active	Email (\$)	-	0	Provisioned with auto scaling (5)	Provisioned with auto scaling (5)	0 bytes	DynamoDB Standard

DAX

- Clusters
- Subnet groups
- Parameter groups
- Events

IAM Management Console X Items | Amazon DynamoDB Manager X serverlesswebfunction - Lambda X API Gateway X https://v9gjv170ad.execute-api.ap-south-1.amazonaws.com/dynamodbv2/home?region=ap-south-1#item-explorer?initialTagKey=&table=CustomerDetails

DynamoDB X The item has been saved successfully.

Dashboard
Tables
Update settings
Explore items
PartiQL editor New
Backups
Exports to S3
Imports from S3 New
Reserved capacity
Settings New

DAX Clusters Subnet groups Parameter groups Events

DynamoDB > Items > CustomerDetails CustomerDetails

Scan/Query items Scan/Query a table or index Scan Query CustomerDetails

Filters Run Reset

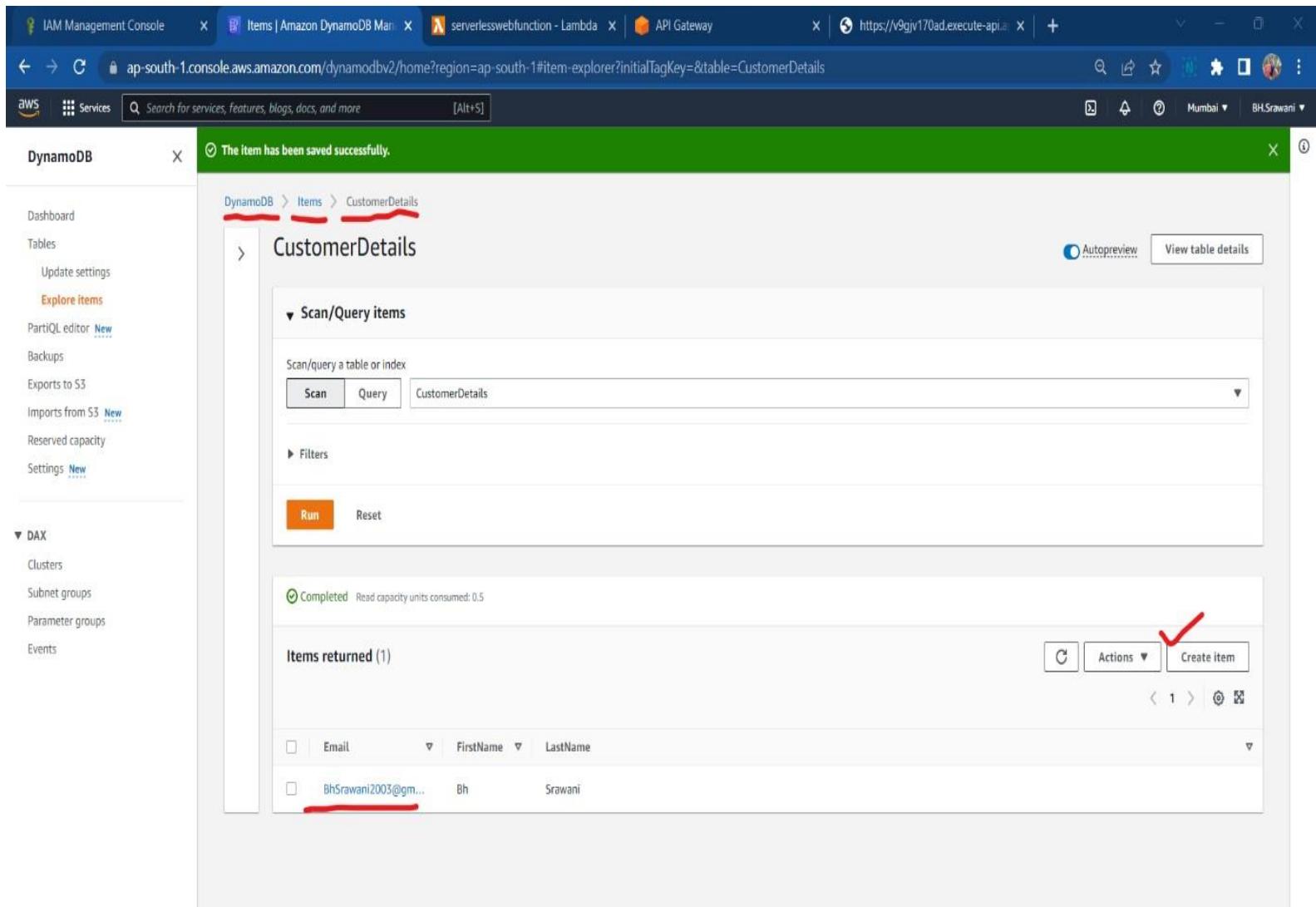
Completed Read capacity units consumed: 0.5

Items returned (1)

Email FirstName LastName

BhSrwan... Bh Srwan...

Actions Create item



IAM Management Console X Edit item | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X +

ap-south-1.console.aws.amazon.com/dynamodbv2/home?region=ap-south-1#edit-item?table=CustomerDetails&route=ROUTE_ITEM_EXPLORER&itemMode=1

DynamoDB > Items: CustomerDetails > Edit item

Create item

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. Learn more

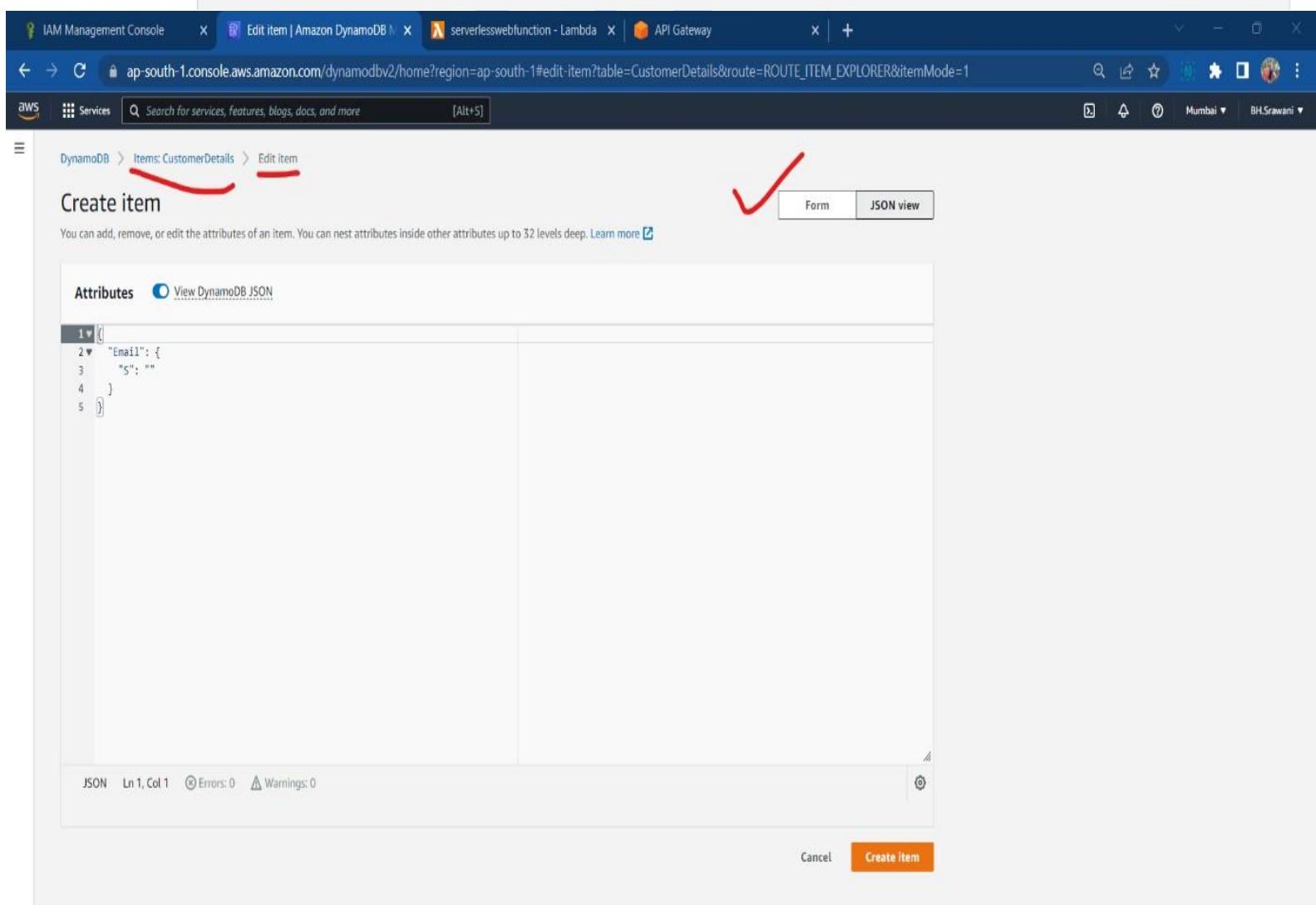
Attributes View DynamoDB JSON

```
1 [ ]  
2 "Email": {  
3   "S": ""  
4 }  
5 [ ]
```

Form JSON view

JSON Ln 1, Col 1 Errors: 0 Warnings: 0

Cancel Create item



IAM Management Console X Edit item | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X +

ap-south-1.console.aws.amazon.com/dynamodbv2/home?region=ap-south-1#edit-item?table=CustomerDetails&route=ROUTE_ITEM_EXPLORER&itemMode=1

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DynamoDB > Items: CustomerDetails > Edit item

Create item

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. Learn more [\[i\]](#)

Attribute name	Value	Type
Email - Partition key	bhsrawani2003@gmail.com	String
FirstName	Bh	String
LastName	Srawani	String

Add new attribute [\[▼\]](#)

Cancel [Create item](#)

IAM Management Console X Edit item | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X +

ap-south-1.console.aws.amazon.com/dynamodbv2/home?region=ap-south-1#edit-item?table=CustomerDetails&itemMode=2&pk=BhSrawani%40gmail.com&sk&route=ROUTE_I... Q L P M Mumbai BH.Srawani

DynamoDB > Items: CustomerDetails > Edit item

Edit item

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. Learn more [\[i\]](#)

Attributes [View DynamoDB JSON](#)

```

1  [
2    "Email": {
3      "S": "BhSrawani@gmail.com"
4    },
5    "FirstName": {
6      "S": "Bh"
7    },
8    "LastName": {
9      "S": "Srawani"
10   }
11 ]

```

Cancel [Save changes](#)

IAM Management Console X Items | Amazon DynamoDB Man X serverlesswebfunction - Lambda X API Gateway X

ap-south-1.console.aws.amazon.com/dynamodbv2/home?region=ap-south-1#item-explorer?initialTagKey=&table=CustomerDetails

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DynamoDB ✓ The item has been saved successfully.

DynamoDB > Items > CustomerDetails

CustomerDetails

Scan/Query items

Scan/Query a table or index

Scan Query CustomerDetails

Filters

Run Reset

Completed Read capacity units consumed: 0.5

Items returned (1)

Email FirstName LastName

BhSrawani@gmail.com Bh Srawani

C Actions Create item

< 1 > ⌂

IAM Management Console X List tables | Amazon DynamoDB X AWS Management Console X

ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1

aws Services Lambda

Search results for 'lambda'

Services (6)

- Features (2)
- Blogs (884)
- Documentation (62,308)
- Knowledge Articles (30)
- Tutorials (4)
- Events (4)
- Marketplace (296)

Services

- Lambda Run Code without Thinking about Servers
- CodeBuild Build and Test Code
- AWS Signer Ensuring trust and integrity of your code
- AWS Compute Optimizer Recommend optimal AWS Compute resources for your workloads

Features

- Local processing IoT Core feature
- Target groups EC2 feature

Blogs

- Handling Lambda functions idempotency with AWS Lambda Powertools By: James Beswick | Date: April 20, 2022
- Building AWS Lambda governance and guardrails By: Julian Wood | Date: August 9, 2022

See all 6 results

See all 884 results

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AWS Health Info Open issues 0 Past 7 days Scheduled changes 0 Upcoming and past 7 days Other notifications 0 Past 7 days Go to AWS Health

Simple solution Info

- Launch a virtual machine 2 (2 mins)
- Create a development project 2 (5 mins)
- Connect an IoT device 2 (5 mins)
- Deploy using virtual servers 2 (2 mins)
- Deploy a static web app 2 (2 mins)
- Start migrating to AWS 2 (2 mins)

Register a domain With Route 53 (3 mins)

Build a web app With AWS App Runner (5 mins)

Deploy a serverless microservice With API Gateway (2 mins)

Start migrating to AWS With AWS MGN (2 mins)

AWS Lambda

Dashboard Applications Functions Additional resources Related AWS resources Step Functions state machines

Functions (0)

Last fetched 10 seconds ago Actions Create function

Function name	Description	Package type	Runtime	Last modified
There is no data to display.				

IAM Management Console | List tables | Amazon DynamoDB | Lambda

ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/create/function

Lambda > Functions > Create function

Create function

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.
- Browse serverless app repository: Deploy a sample Lambda application from the AWS Serverless Application Repository.

Basic information

Function name: serverlesswebfunction

Runtime: Python 3.8

Architecture: x86_64

Permissions

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: Use an existing role

Existing role: ServerlessWebApplication

Advanced settings

Create function

IAM Management Console X List tables | Amazon DynamoDB X serverlesswebfunction - Lambda X +

← → C ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/serverlesswebfunction?newFunction=true&tab=code

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

Lambda > Functions > serverlesswebfunction

serverlesswebfunction

Function overview Info

serverlesswebfunction

Layers (0)

+ Add trigger + Add destination

Description

Last modified 6 seconds ago

Function ARN arn:aws:lambda:ap-south-1:558262266395:function:serverlesswebfunction

Function URL: Info

Code Test Monitor Configuration Aliases Versions

Code source Info

Upload from

File Edit Find View Go Tools Window Test Deploy

Go Anything (Ctrl-P) lambda_function

Environment

serverlesswebfunction 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!')
8     }
```

WT

*lambda_function - Notepad

File Edit View

```
import json
import os, re, base64
import boto3

def lambda_handler(event, context):
    mypage = page_router(event['httpMethod'],event['queryStringParameters'],event['body'])
    return mypage

def page_router(httpmethod,querystring,formbody):
    if httpmethod == 'GET':
        htmlFile = open('contactus.html', 'r')
        htmlContent = htmlFile.read()
        return {
            'statusCode': 200,
            'headers': {"Content-Type": "text/html"},
            'body': htmlContent
        }
    if httpmethod == 'POST':
        insert_record(formbody)

        htmlFile = open('confirm.html', 'r')
        htmlContent = htmlFile.read()
        return {
            'statusCode': 200,
            'headers': {"Content-Type": "text/html"},
            'body': htmlContent
        }

def insert_record(formbody):
    formbody = formbody.replace("=", ": ")
    formbody = formbody.replace("&", ", ")
    formbody = "INSERT INTO CustomerDetails value (" + formbody + ")"

    client = boto3.client('dynamodb')
    client.execute_statement(Statement= formbody)
```

COPY

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda +

aws Services Search for services, features, blogs, docs, and more [Alt+S]

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

Environment Go to Anything (Ctrl-P)

lambda_function

```
1 import json
2 import os, re, base64
3 import boto3
4
5 def lambda_handler(event, context):
6
7     mypage = page_router(event['httpMethod'],event['queryStringParameters'],event['body'])
8
9     return mypage
10
11
12 def page_router(httpmethod,querystring,formbody):
13
14     if httpmethod == 'GET':
15         htmlfile = open('contactus.html', 'r')
16         htmlContent = htmlfile.read()
17         return {
18             'statusCode': 200,
19             'headers': {"Content-Type": "text/html"},
20             'body': htmlContent
21         }
22
23     if httpmethod == 'POST':
24
25         insert_record(formbody)
26
27         htmlfile = open('confirm.html', 'r')
28         htmlContent = htmlfile.read()
29         return {
30             'statusCode': 200,
31             'headers': {"Content-Type": "text/html"},
32             'body': htmlContent
33         }
34
35 def insert_record(formbody):
36
37     formbody = formbody.replace("=", "' : '")
```

Pasted

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda +

ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/serverlesswebfunction?tab=code

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File Edit Find View Go Tools Window Test Deploy

Code properties

Successfully updated the function serverlesswebfunction.

Code Test Monitor Configuration Aliases Versions

Code source Info

Upload from ZIP file

lambda_function

```
1 import json
2 import os, re, base64
3 import boto3
4
5 def lambda_handler(event, context):
6
7     mypage = page_router(event['httpMethod'],event['queryStringParameters'],event['body'])
8
9     return mypage
10
11
12 def page_router(httpmethod,querystring,formbody):
13
14     if httpmethod == 'GET':
15         htmlfile = open('contactus.html', 'r')
16         htmlContent = htmlfile.read()
17         return {
18             'statusCode': 200,
19             'headers': {"Content-Type": "text/html"},
20             'body': htmlContent
21         }
22
23     if httpmethod == 'POST':
24
25         insert_record(formbody)
26
27         htmlfile = open('confirm.html', 'r')
28         htmlContent = htmlfile.read()
29         return {
```

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda +

ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/serverlesswebfunction?tab=code

aws Services Search for services, features, blogs, docs, and more [Alt+S] Mumbai BH.Srawani

Successfully updated the function serverlesswebfunction.

Code Test Monitor Configuration Aliases Versions

Code source Info

File Edit Find View Go Tools

Upload from

Upload a .zip file

When you upload a new .zip file package, it overwrites the existing code.

Upload Serverlesswebapplication files.zip (1.1 kB) For files larger than 10 MB, consider uploading using Amazon S3.

Cancel Save

16 htmlContent = htmlFile.read() 17 return { 18 'statusCode': 200, 19 'headers': {"Content-Type": "text/html"}, 20 'body': htmlContent 21 } 22 23 if httpmethod == 'POST': 24 25 insert_record(formbody) 26 27 htmlFile = open('confirm.html', 'r') 28 htmlContent = htmlFile.read() 29 return {

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda +

ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/serverlesswebfunction?tab=code

aws Services Search for services, features, blogs, docs, and more [Alt+S] Mumbai BH.Srawani

Successfully updated the function serverlesswebfunction.

Code Test Monitor Configuration Aliases Versions

Code source Info

File Edit Find View Go Tools Window Test Deploy

Upload from

Environment

serverlessfunction confirm.html contactus.html lambda_function.py

lambda_function

Imported

```
1 import json
2 import os, re, base64
3 import boto3
4
5 def lambda_handler(event, context):
6
7     mypage = page_router(event['httpMethod'],event['queryStringParameters'],event['body'])
8
9     return mypage
10
11
12 def page_router(httpmethod,querystring,formbody):
13
14     if httpmethod == 'GET':
15         htmlFile = open('contactus.html', 'r')
16         htmlContent = htmlFile.read()
17         return {
18             'statusCode': 200,
19             'headers': {"Content-Type": "text/html"},
20             'body': htmlContent
21         }
22
23     if httpmethod == 'POST':
24
25         insert_record(formbody)
26
27         htmlFile = open('confirm.html', 'r')
28         htmlContent = htmlFile.read()
29         return {
```

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X https://v9gjv170ad.execute-api.ap-south-1.amazonaws.com/lambda/home?region=ap-south-1#/functions/serverlesswebfunction?tab=code

AWS Services Search for services, features, blogs, docs, and more [Alt+S]

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 confirm.html contactus.html

Environment

```
1 import json
2 import os, re, base64
3 import boto3
4
5 def lambda_handler(event, context):
6
7     mypage = page_router(event['httpMethod'],event['queryStringParameters'],event['body'])
8
9     return mypage
10
11
12 def page_router(httpmethod,querystring,formbody):
13
14     if httpmethod == 'GET':
15         htmlFile = open('contactus.html', 'r')
16         htmlContent = htmlFile.read()
17         return {
18             'statusCode': 200,
19             'headers': {"Content-Type":"text/html"},
20             'body': htmlContent
21         }
22
23     if httpmethod == 'POST':
24
25         insert_record(formbody)
26
27         htmlFile = open('confirm.html', 'r')
28         htmlContent = htmlFile.read()
29         return {
30             'statusCode': 200,
31             'headers': {"Content-Type":"text/html"},
32             'body': htmlContent
33         }
34
35     def insert_record(formbody):
36
37         formbody = formbody.replace("'", "' : ''")
38         formbody = formbody.replace("&", "' , ''")
39         formbody = "INSERT INTO CustomerDetails value ('" + formbody + "')"
```

39:44 Python Spaces: 4

IAM Management Console X List tables | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X

Code Test Monitor Configuration Aliases Versions

Successfully updated the function serverlesswebfunction.

Code source Info Upload from

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P) lambda_function confirm.html contactus.html

Environment

```
1
2
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```

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X https://v9gjv170ad.execute-api.ap... +

ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/serverlesswebfunction?tab=code

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Successfully updated the function serverlesswebfunction.

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 confirm.html x contactus.html x

Environment serverlesswebfunc confirm.html contactus.html lambda_function.py

```
<!DOCTYPE html>
<html>
<body>
<h2>Serverless Web Application Form</h2>
<form action="/dev" method="post">
<label for="fname">First name:</label><br>
<input type="text" id="fname" name="fname"><br>
<label for="lname">Last name:</label><br>
<input type="text" id="lname" name="lname" ><br><br>
<label for="email">Email id:</label><br>
<input type="text" id="email" name="email" ><br><br>
<label for="message">Message:</label><br>
<textarea id="message" name="message" rows="4" cols="50"></textarea>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

20:8 HTML Spaces: 2

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X https://v9gjv170ad.execute-api.ap... +

ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/serverlesswebfunction?tab=code

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Successfully updated the function serverlesswebfunction.

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 confirm.html x contactus.html x

Environment serverlesswebfunc confirm.html contactus.html lambda_function.py

```
<!DOCTYPE html>
<html>
<body>
<h2>Thanks for filling the information.</h2>
</body>
</html>
```

8:8 HTML Spaces: 4

IAM Management Console | View table | Amazon DynamoDB | serverlesswebfunction - Lambda | AWS Management Console

ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1

aws Services api gateway

Search results for 'api gateway'

Services (30)

- Features (52)
- Blogs (3,465)
- Documentation (17,462)
- Knowledge Articles (30)
- Tutorials (24)
- Events (88)
- Marketplace (220)

Services

- API Gateway Build, Deploy and Manage APIs
- Storage Gateway Hybrid Storage Integration
- CloudTrail Track User Activity and API Usage
- AWS Cloud Map Build a dynamic map of your cloud

See all 30 results ▶

Features (52)

- Custom domain names API Gateway feature
- VPC links API Gateway feature

See all 52 results ▶

+ Add widgets

AWS

Started with AWS Fundamentals and find valuable resources to get the most out of AWS.

Find certification AWS experts and advance your knowledge.

New with AWS? New AWS services, features, and

IAM Management Console | View table | Amazon DynamoDB | serverlesswebfunction - Lambda | API Gateway

ap-south-1.console.aws.amazon.com/apigateway/main/apis?region=ap-south-1

API Gateway

Networking & Content Delivery

APIs

Custom domain names

VPC links

Amazon API Gateway

create, maintain, and secure APIs at any scale

Amazon API Gateway helps developers to create and manage APIs to back-end systems running on Amazon EC2, AWS Lambda, or any publicly addressable web service. With Amazon API Gateway, you can generate custom client SDKs for your APIs, to connect your back-end systems to mobile, web, and server applications or services.

Choose an API type

HTTP API

Build low-latency and cost-effective REST APIs with built-in features such as OAuth and OAuth2, and native CORS support.

Works with the following: Lambda, HTTP backends

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

IAM Management Console | View table | Amazon DynamoDB | serverlesswebfunction - Lambda | API Gateway

ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/create

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Amazon API Gateway APIs > Create

Create your first API

Welcome to Amazon API Gateway. To create your first API, we have pre-populated the import form with a Pet Store API defined using Swagger 2.0. To get started, close this modal and select Import in the Create API form.

REST WebSocket

OK

Create new API

In Amazon API Gateway, a REST API refers to a collection of resources:

New API Import from Swagger or Open API 3 Example API

Example API

Learn about the service by importing an example API and turning on hints throughout the console.

```
1 {  
2   "swagger": "2.0",  
3   "info": {  
4     "description": "Your first API with Amazon API Gateway. This is a sample API that integrates via HTTP with our demo Pet Store endpoints",  
5     "title": "PetStore"  
6   },  
7   "schemes": [  
8     "https"  
9   ],  
10  "paths": {  
11    "/": {  
12      "get": {  
13        "tags": [  
14          "pets"  
15        ],  
16        "description": "PetStore HTML web page containing API usage information",  
17        "consumes": [  
18          "application/json"  
19        ]  
20      }  
21    }  
22  }  
23}
```

IAM Management Console | View table | Amazon DynamoDB | serverlesswebfunction - Lambda | API Gateway

ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/create

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Amazon API Gateway APIs > Create

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* Serverwebapi

Description

Endpoint Type Regional

* Required Create API

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X +

ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/v9gjv170ad/resources/re375wwcif

aws Services Search for services, features, blogs, docs, and more [Alt+S]

Amazon API Gateway APIs > Serverwebapi (v9gjv170ad) > Resources > / (re375wwcif) Show all hints ?

Resources Actions / Methods

No methods defined for the resource.

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X +

ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/v9gjv170ad/resources/re375wwcif

aws Services Search for services, features, blogs, docs, and more [Alt+S]

Amazon API Gateway APIs > Serverwebapi (v9gjv170ad) > Resources > / (re375wwcif) Show all hints ?

Actions / Methods

No methods defined for the resource.

RESOURCES ACTIONS:

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

API ACTIONS:

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

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X

ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/v9gjv170ad/resources/re375vwcif

aws Services Search for services, features, blogs, docs, and more [Alt+S]

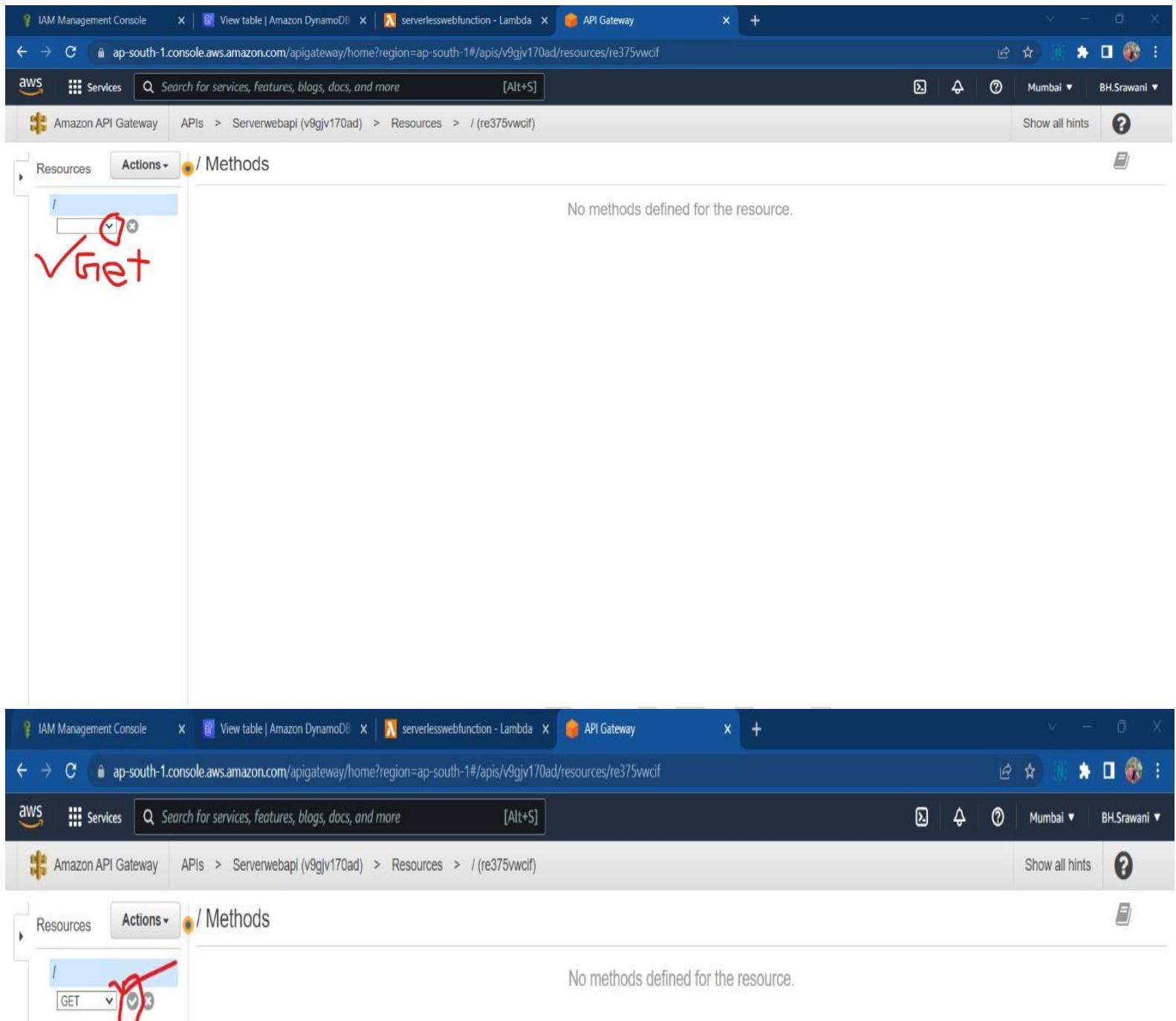
Amazon API Gateway APIs > Serverwebapi (v9gjv170ad) > Resources > / (re375vwcif)

Show all hints ?

Resources Actions / Methods

No methods defined for the resource.

✓ Get



IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X

ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/v9gjv170ad/resources/re375vwcif

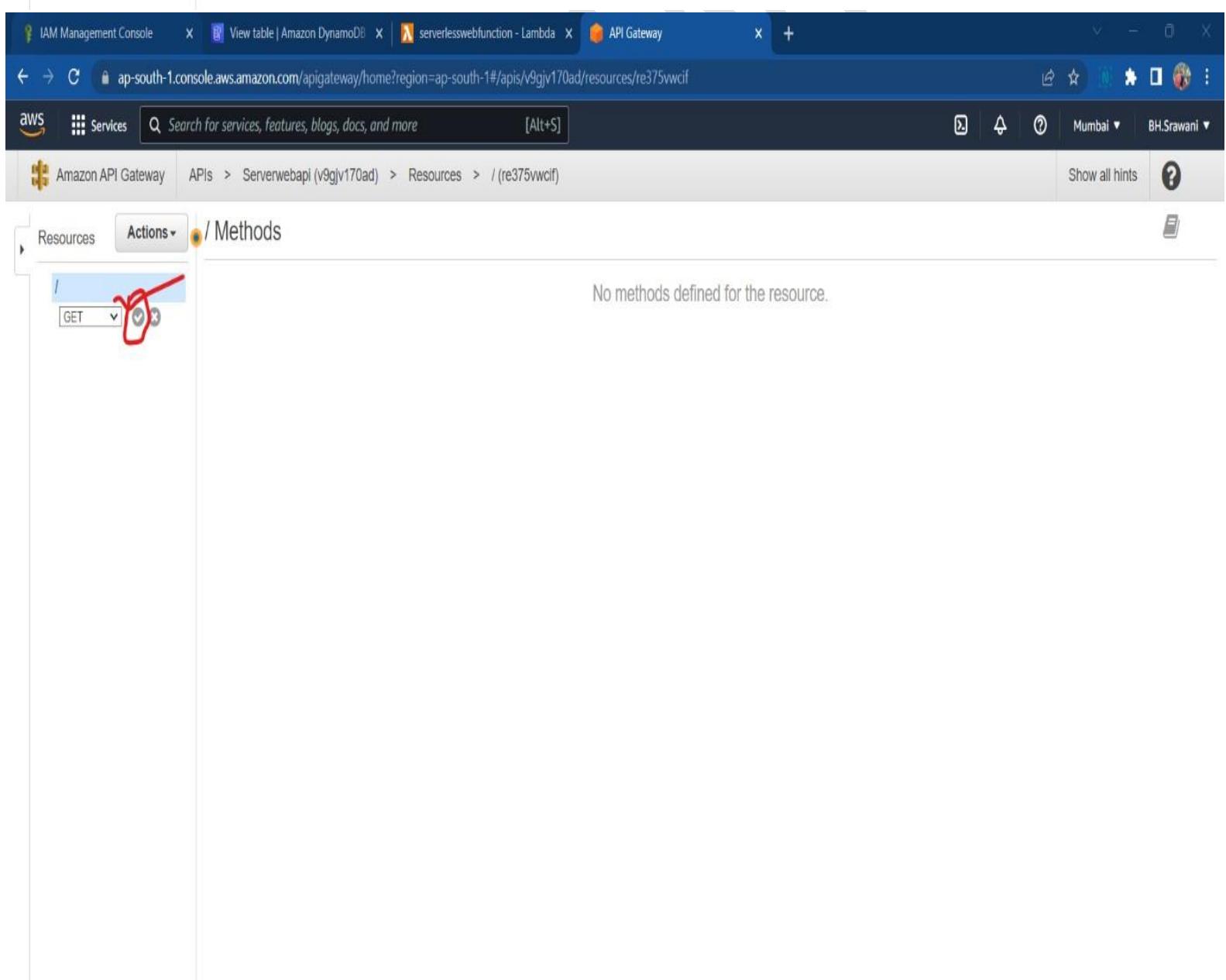
aws Services Search for services, features, blogs, docs, and more [Alt+S]

Amazon API Gateway APIs > Serverwebapi (v9gjv170ad) > Resources > / (re375vwcif)

Show all hints ?

Resources Actions / Methods

No methods defined for the resource.



IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X +

ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/v9gjv170ad/resources/re375wcif/methods/GET

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Mumbai BH.Srawani ?

Amazon API Gateway APIs > Serverwebapi (v9gjv170ad) > Resources > / (re375wcif) > GET Show all hints

Resources Actions - / - GET - Setup

Choose the integration point for your new method.

Integration type Lambda Function i

HTTP i

Mock i

AWS Service i

VPC Link i

Use Lambda Proxy integration i

Lambda Region ap-south-1

Lambda Function serverlesswebfunction

Use Default Timeout

Save ✓

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X +

ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/v9gjv170ad/resources/re375wcif/methods/GET

aws Services Search for services, features, blogs, docs, and more [Alt+S]

Mumbai BH.Srawani ?

Amazon API Gateway APIs > Serverwebapi (v9gjv170ad) > Resources > / (re375wcif) > GET

Add Permission to Lambda Function

You are about to give API Gateway permission to invoke your Lambda function:
arn:aws:lambda:ap-south-1:[REDACTED]:function:serverlesswebfunction

Cancel ✓ OK

Use Lambda Proxy integration i

Lambda Region ap-south-1

Lambda Function serverlesswebfunction

Use Default Timeout

Save

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X +

← → C ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/v9gjv170ad/resources/re375wwcf/methods/GET

aws Services Search for services, features, blogs, docs, and more [Alt+S]

Amazon API Gateway APIs > Serverwebapi (v9gjv170ad) > Resources > / (re375wwcf) > GET Mumbai BH.Srawani ?

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:ap-south-1:558262266395:v9gjv170ad/*/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 serverlesswebfunction

```
graph LR; subgraph Flow [Method Execution Flow]; direction TB; A[Method Request] --> B[Integration Request]; B --> C[Method Response]; C --> D[Integration Response]; end; A[Auth: NONE<br/>ARN: arn:aws:execute-api:ap-south-1:558262266395:v9gjv170ad/*/GET/]; B[Type: LAMBDA_PROXY]; C[HTTP Status: Proxy<br/>Models: application/json => Empty]; D[Proxy integrations cannot be configured to transform responses.]
```

IAM Management Console X View table | Amazon DynamoDB X serverlesswebfunction - Lambda X API Gateway X +

← → C ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/v9gjv170ad/resources/re375wwcf/methods/GET

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Amazon API Gateway APIs > Serverwebapi (v9gjv170ad) > Resources > / (re375wwcf) > GET Mumbai BH.Srawani ?

Resources Actions ✓ / - GET - Method Execution

Client

TEST

Post

Method Request

Auth: NONE

ARN: arn:aws:execute-api:ap-south-1:558262266395:v9gjv170ad/*/GET/

Integration Request

Type: LAMBDA_PROXY

Method Response

HTTP Status: Proxy

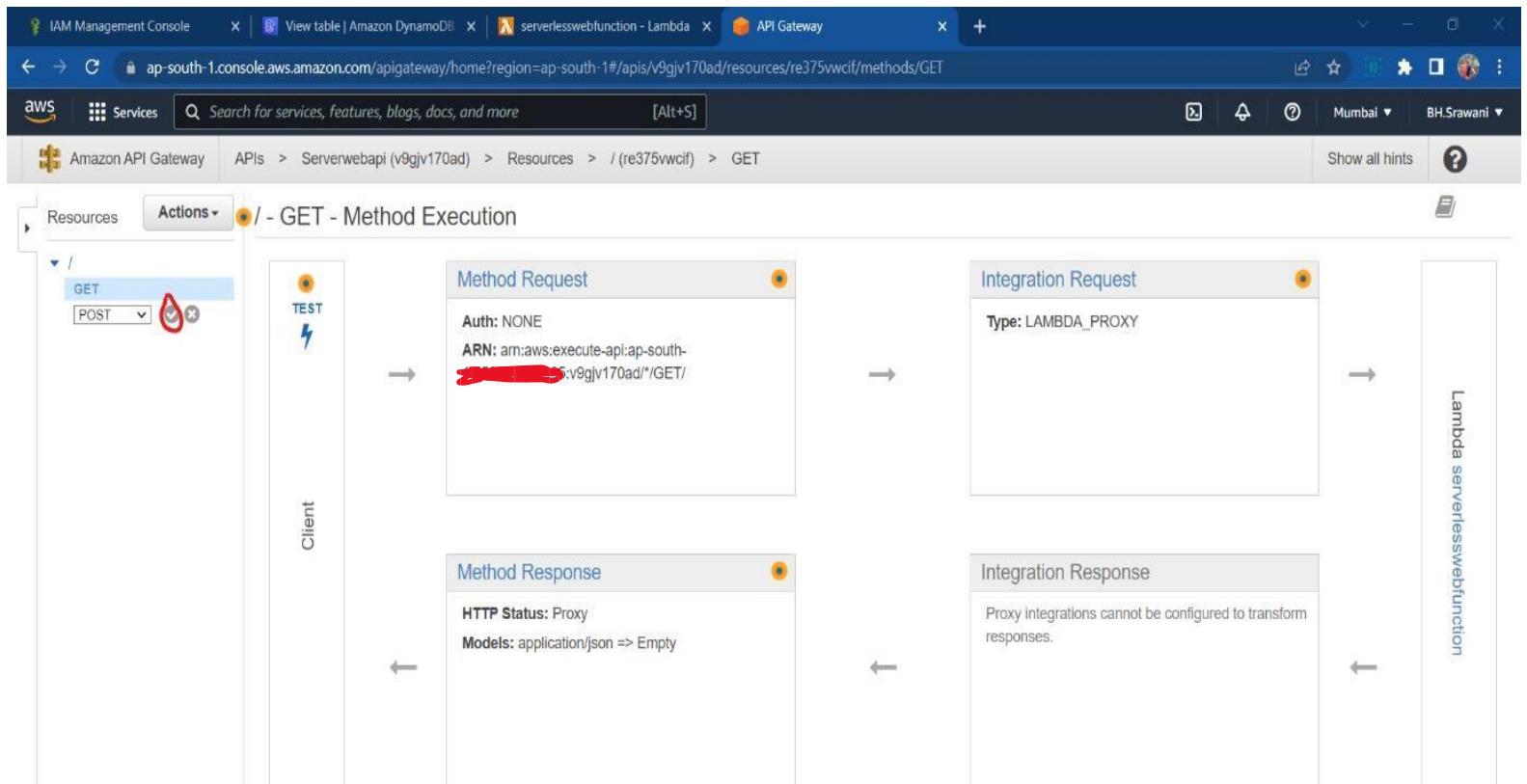
Models: application/json => Empty

Integration Response

Proxy integrations cannot be configured to transform responses.

Lambda serverlesswebfunction

```
graph LR; subgraph Flow [Method Execution Flow]; direction TB; A[Method Request] --> B[Integration Request]; B --> C[Method Response]; C --> D[Integration Response]; end; A[Auth: NONE<br/>ARN: arn:aws:execute-api:ap-south-1:558262266395:v9gjv170ad/*/GET/]; B[Type: LAMBDA_PROXY]; C[HTTP Status: Proxy<br/>Models: application/json => Empty]; D[Proxy integrations cannot be configured to transform responses.]
```



IAM Management Console | View table | Amazon DynamoDB | serverlesswebfunction - Lambda | API Gateway

ap-south-1.console.aws.amazon.com/apigateway/home?region=ap-south-1#/apis/v9gjv170ad/resources/re375vcif/methods/POST

aws Services Search for services, features, blogs, docs, and more [Alt+S]

Mumbai BH.Srawani

Amazon API Gateway APIs > Serverwebapi (v9gjv170ad) > Resources > / (re375vcif) > POST Show all hints ?

Resources Actions - / - POST - Setup

Choose the integration point for your new method.

Integration type Lambda Function

HTTP

Mock

AWS Service

VPC Link

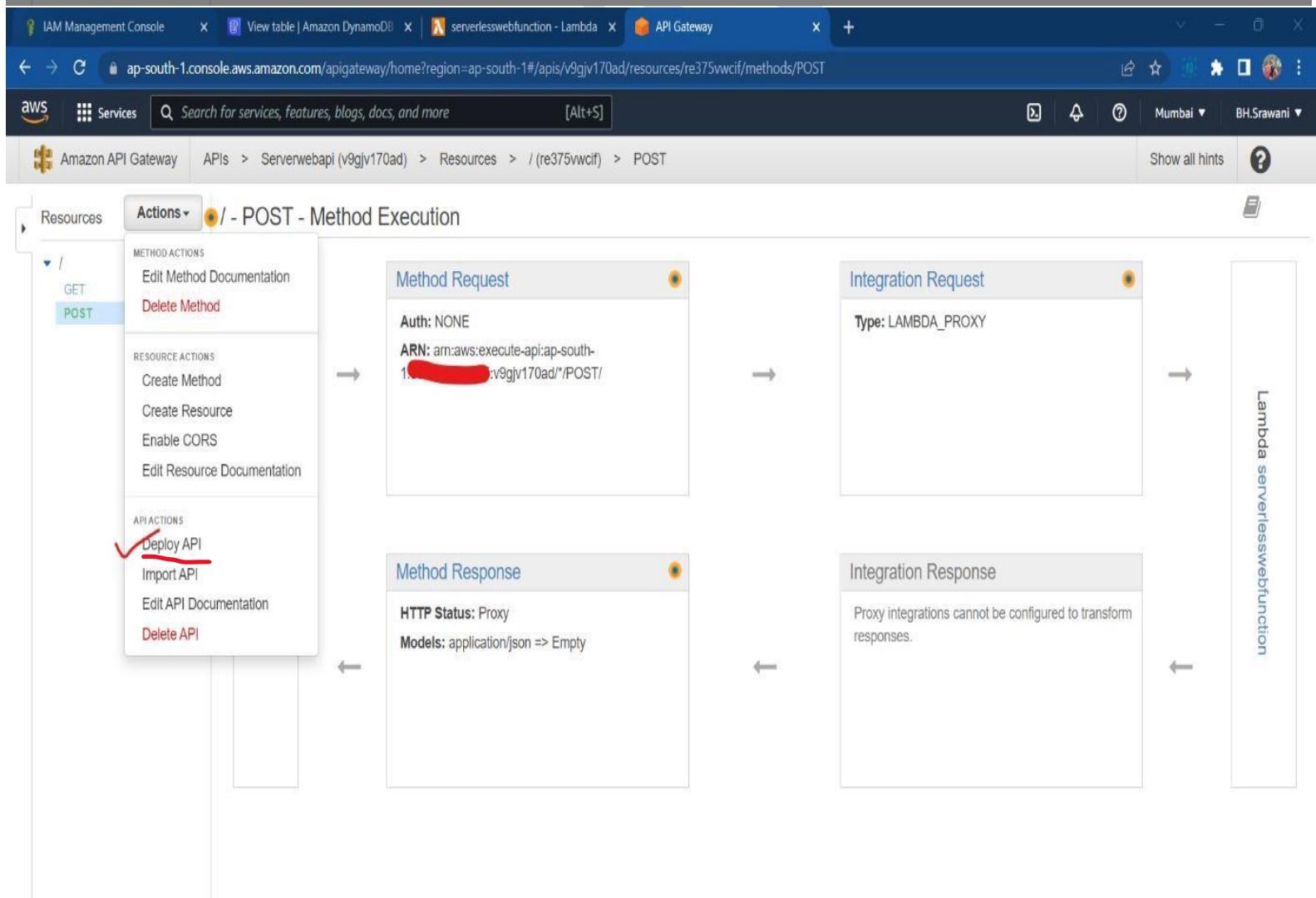
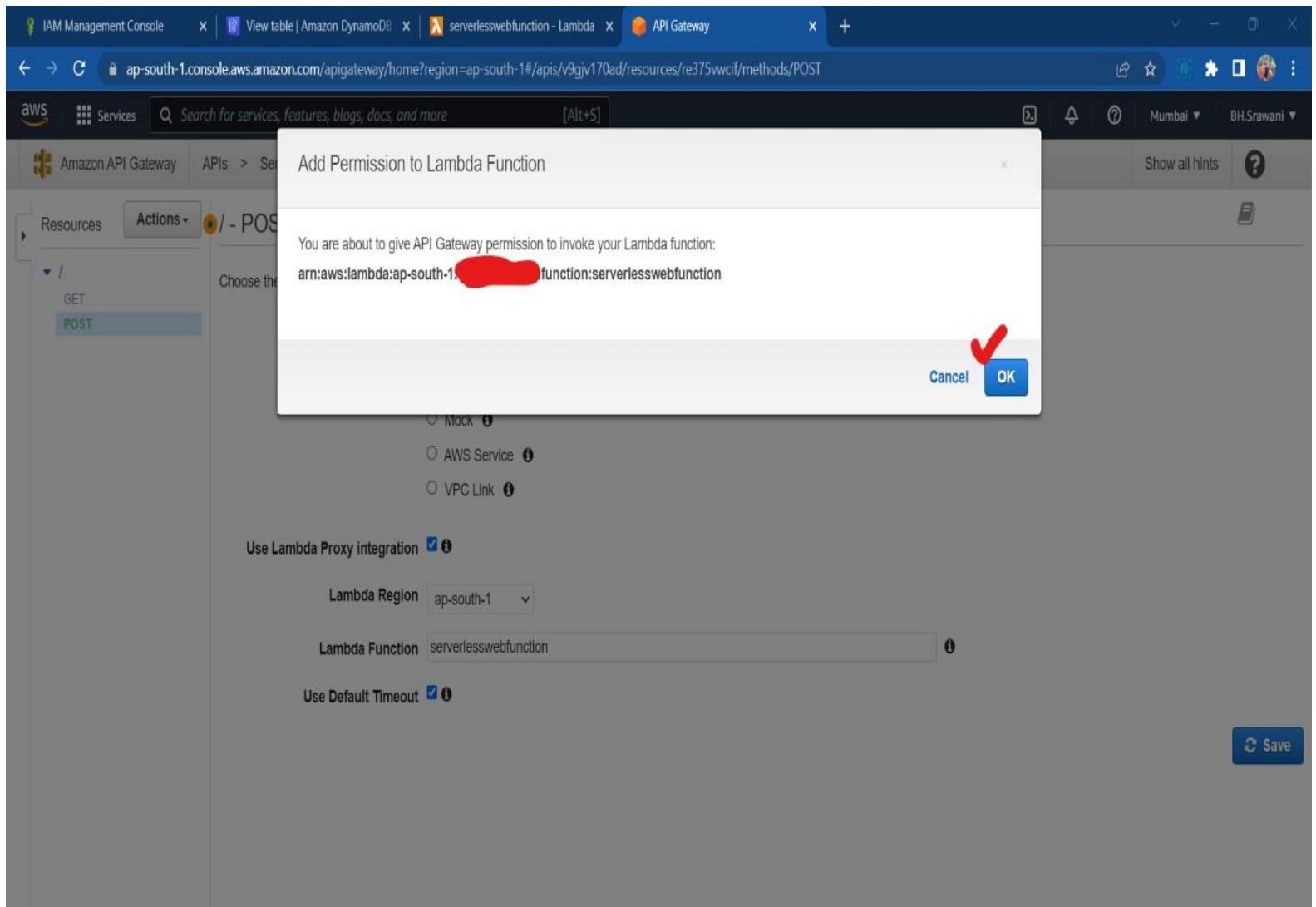
Use Lambda Proxy integration

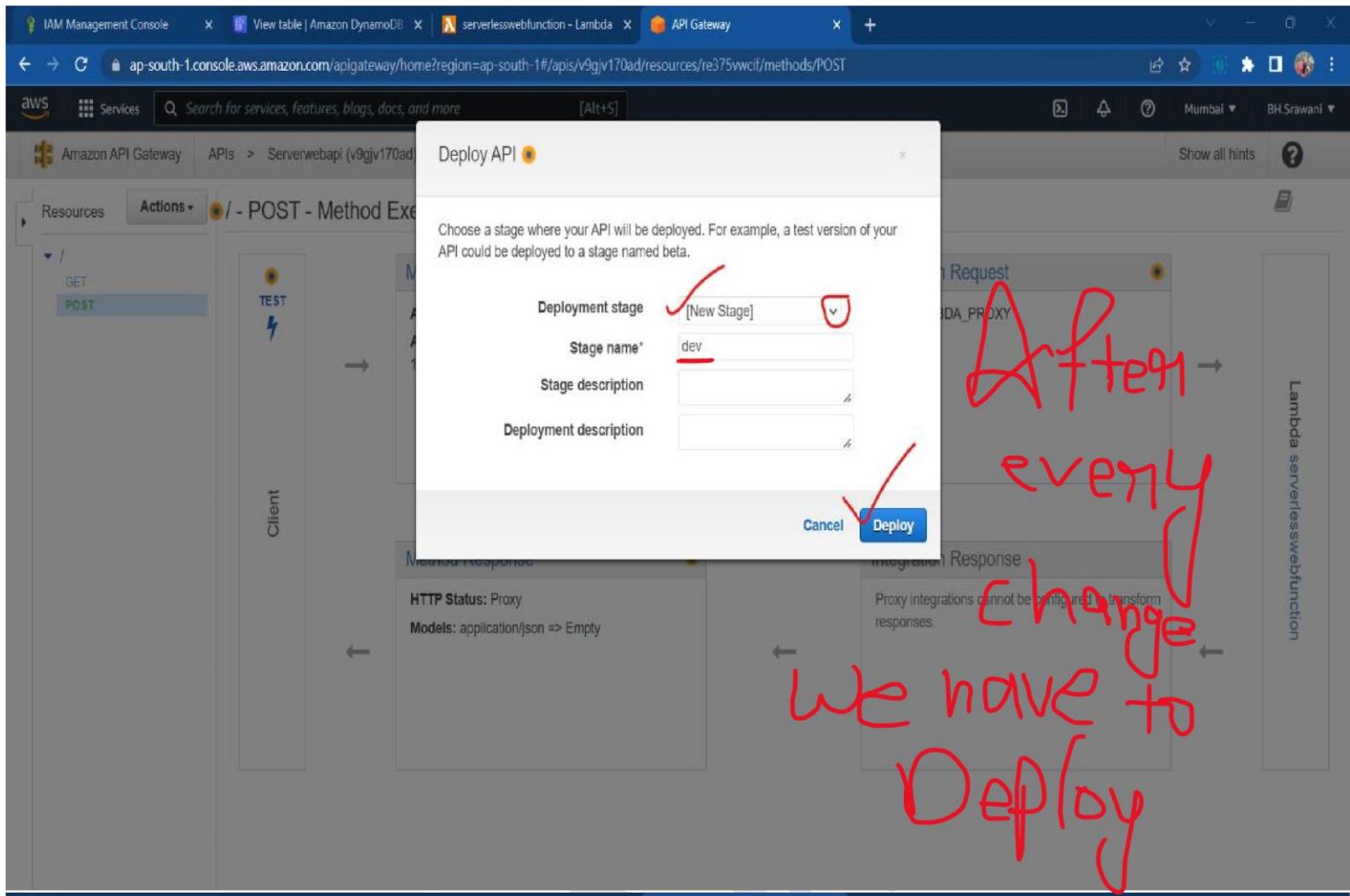
Lambda Region ap-south-1

Lambda Function serverlesswebfunction

Use Default Timeout

Save





Stages Create Delete Stage Configure Tags

dev Stage Editor

Invoke URL: https://v9gjv170ad.execute-api.ap-south-1.amazonaws.com/dev Copy

Settings Logs/Tracing Stage Variables SDK Generation Export Deployment History Documentation 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 [?](#)

Rate 1000 requests per second

Burst 5000 requests

Web Application Firewall (WAF) [Learn more](#).

Select the Web ACL to be applied to this stage.

Web ACL None [Create Web ACL](#)

Client Certificate

Select the client certificate that API Gateway will use to call your integration endpoints in this stage.

Certificate None [?](#)

Save Changes

Screenshot of the AWS API Gateway Stage Editor for the 'dev' stage. A red arrow labeled 'Copy' points from the 'Invoke URL' field to the address bar of a Google Chrome browser window. The browser shows the copied URL: <https://v9gjv170ad.execute-api.ap-south-1.amazonaws.com/dev>. The Google search results page is visible in the background.

Serverless Web Application Form

First name:

Last name:

Email id:

Message:

Submit

A large red hand-drawn annotation on the right side of the form reads: "Serverless web Application". A red arrow points from the top of this annotation towards the "Submit" button.

Serverless Web Application Form

First name:
Bh
Last name:
Srawani

Email id:
bh.srawani2003@gmail.com

Message:
Cloud Computing
Mini Project Topic:- Serverless Web Application
Submitted By:- Bh.Srawani

fill the
form

Thanks for filling the information.

done ...

“Thank You”

Date-:20-10-2022