

API Gateway

Create a State Variables

1. Create a resource in API

The screenshot shows the AWS API Gateway console interface. On the left, the 'API: FirstApi' sidebar is expanded to 'Resources'. The main content area is titled 'Resources' and includes a 'Create resource' button. A resource tree on the left shows a root resource with a 'GET' method, and a child resource '/demo2' also with a 'GET' method. The 'Resource details' section shows the path '/' and resource ID 'fe7mqzso15'. Below this, the 'Methods (1)' section contains a table with one method:

Method type	Integration type	Authorization	API key
<input type="radio"/> GET	Lambda	None	Not required

The bottom of the console shows the footer with 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates.

API Gateway > APIs > Resources - FirstApi (ngmq6u0s54) > Create resource

Create resource

Resource details

☒ **Proxy resource info**
Proxy resources handle requests to all sub-resources. To create a proxy resource use a path parameter that ends with a plus sign, for example (proxy+).

Resource path:

Resource name:

☐ **CORS (Cross Origin Resource Sharing) info**
Create an OPTIONS method that allows all origins, all methods, and several common headers.

[Cancel](#) [Create resource](#)

We need a lambda function So create it.

Choose one of the following options to create your function.

☒ **Author from scratch**
Start with a simple Hello World example.

☐ **Use a blueprint**
Build a Lambda application from sample code and configuration presets for common use cases.

☐ **Container image**
Select a container image to deploy for your function.

Basic information

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

Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

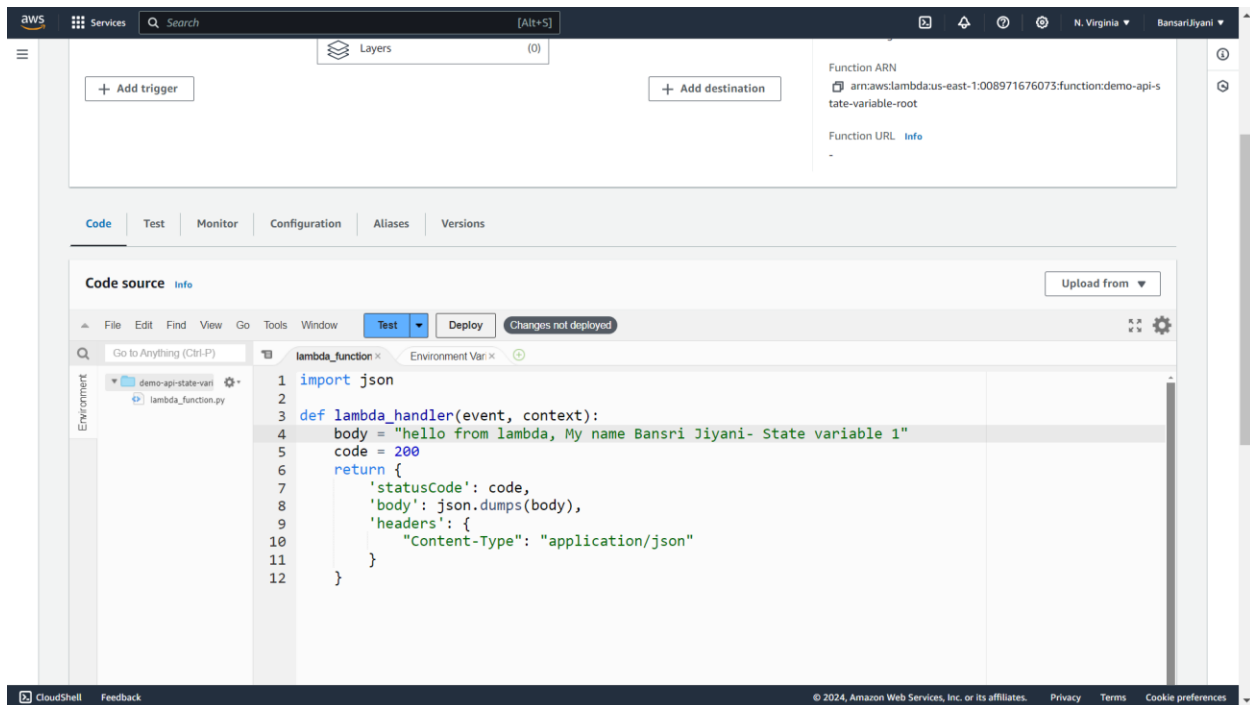
Architecture
Choose the instruction set architecture you want for your function code.
☒ x86_64
☐ arm64

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](#)

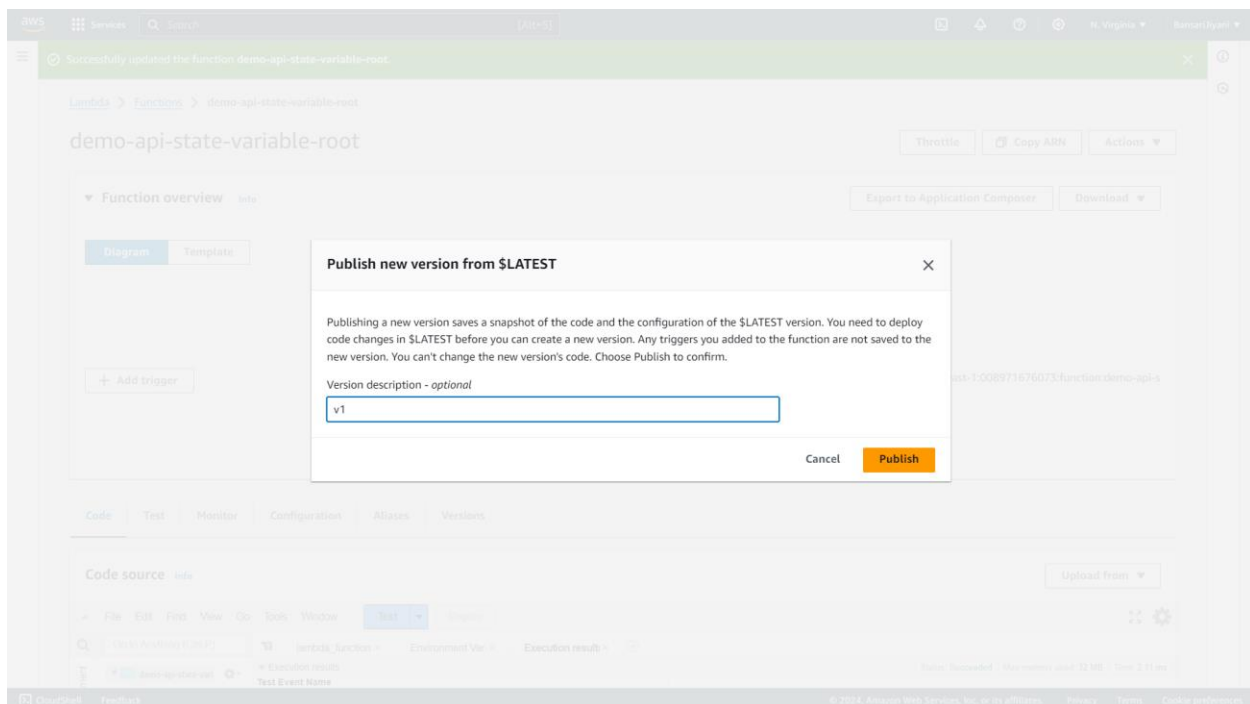
[Advanced settings](#)

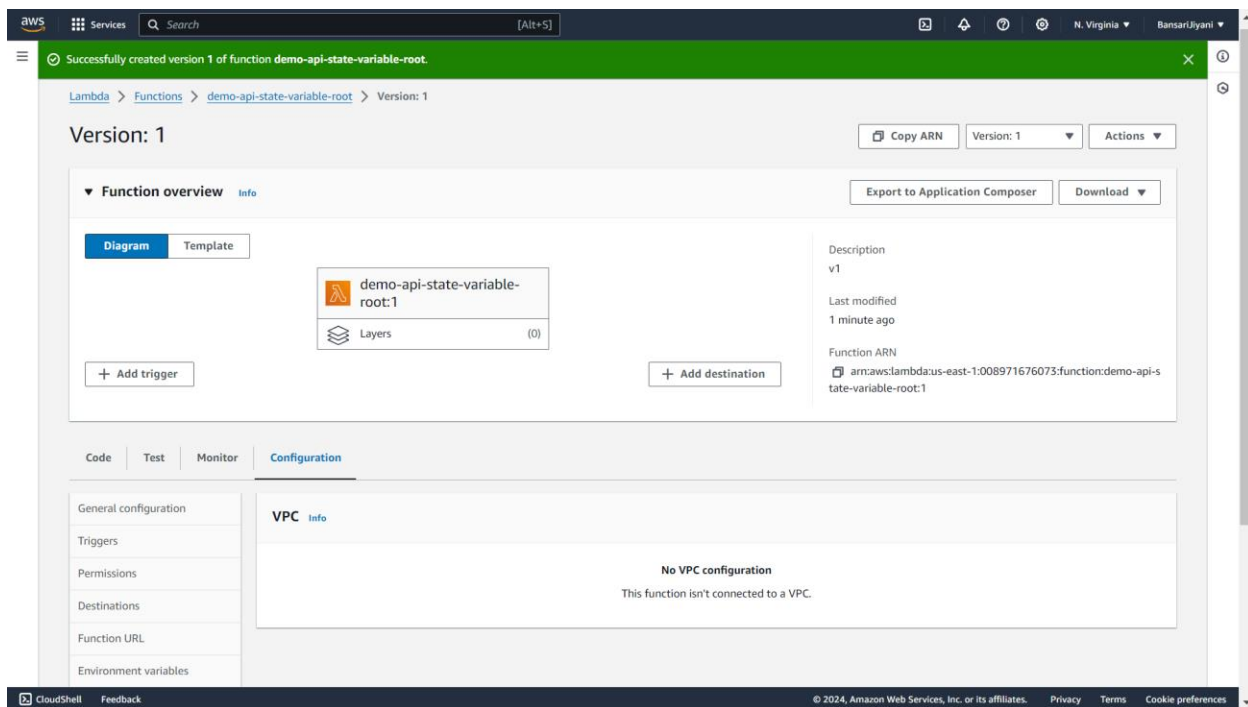
[Cancel](#) [Create function](#)

Put this code into the function and deploy it.

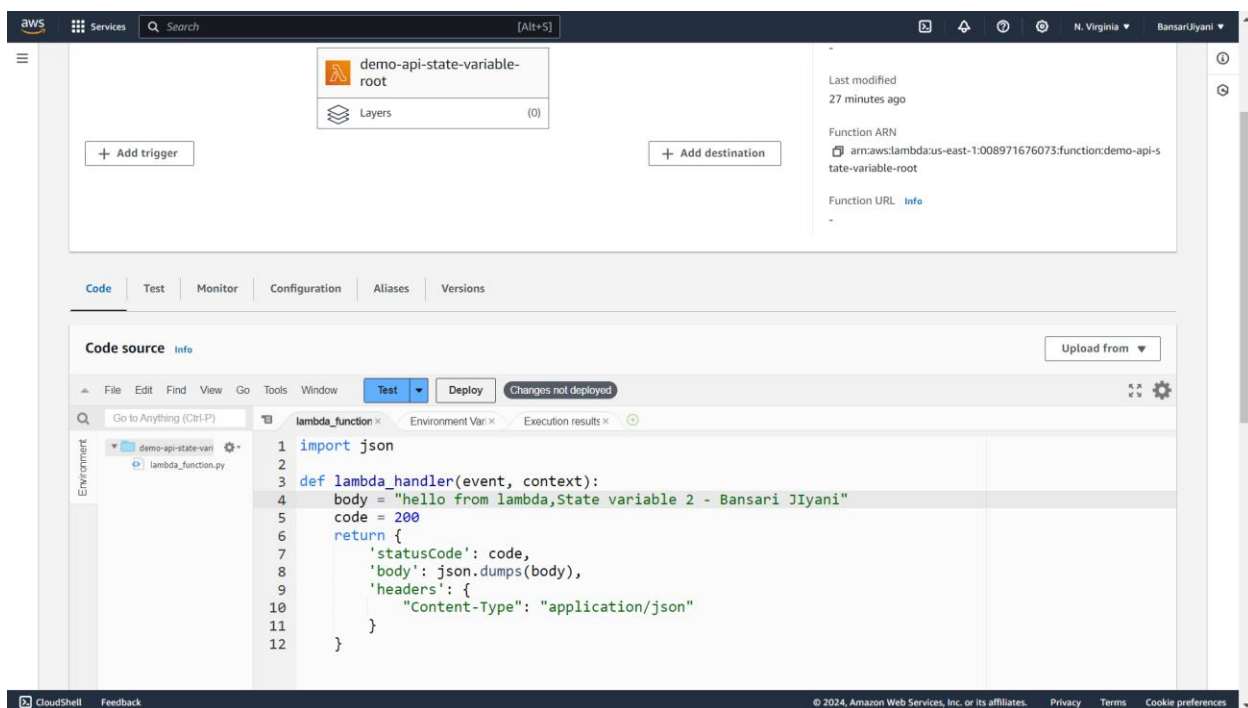


Now publish new Version

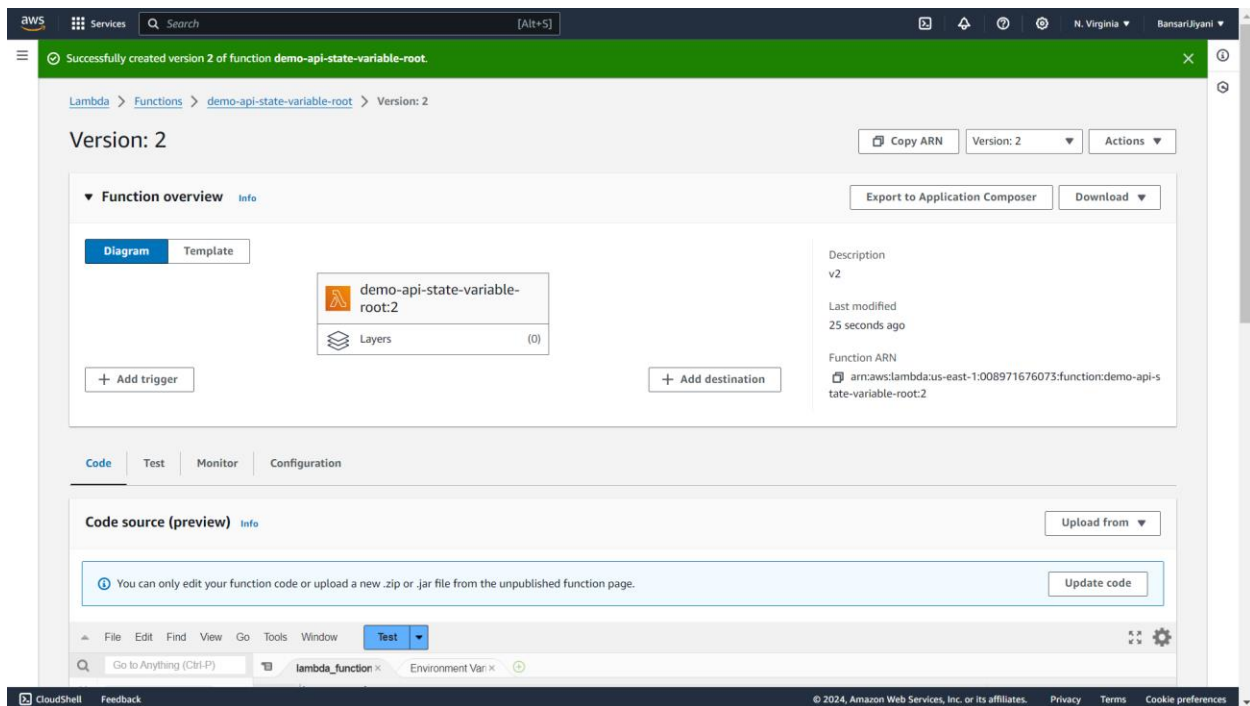
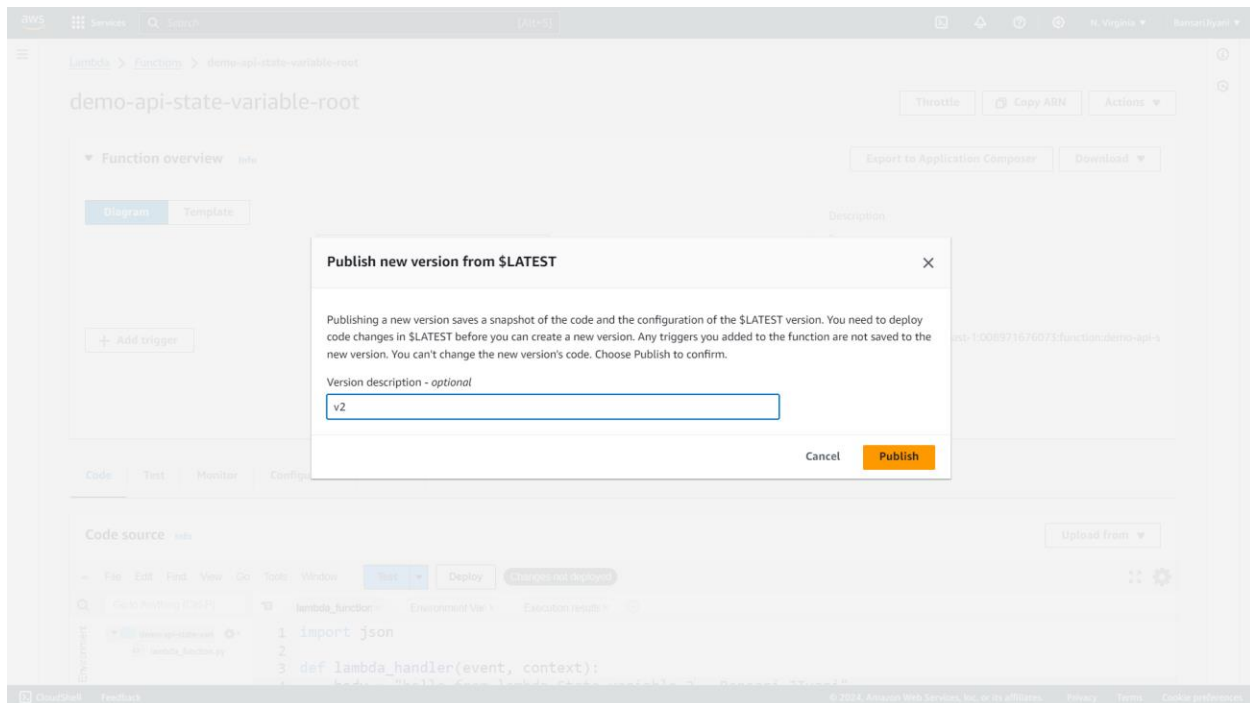




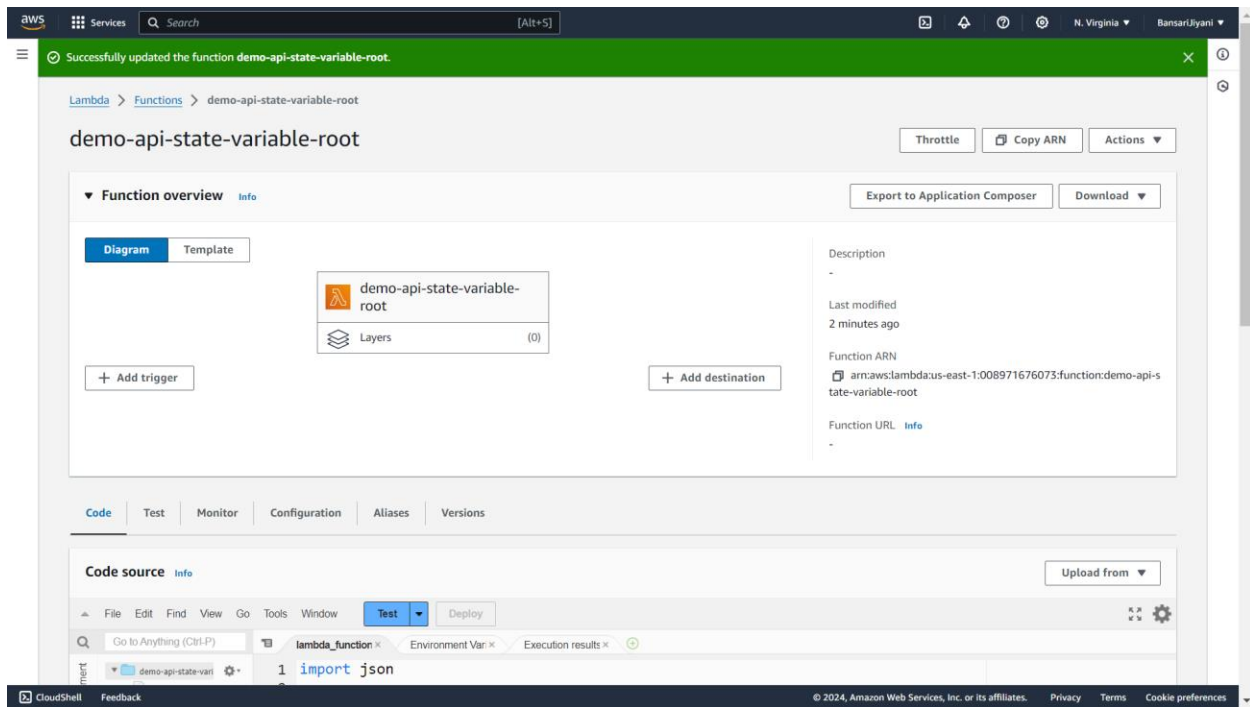
Now go back to the function and change the code of lambda and deploy it .



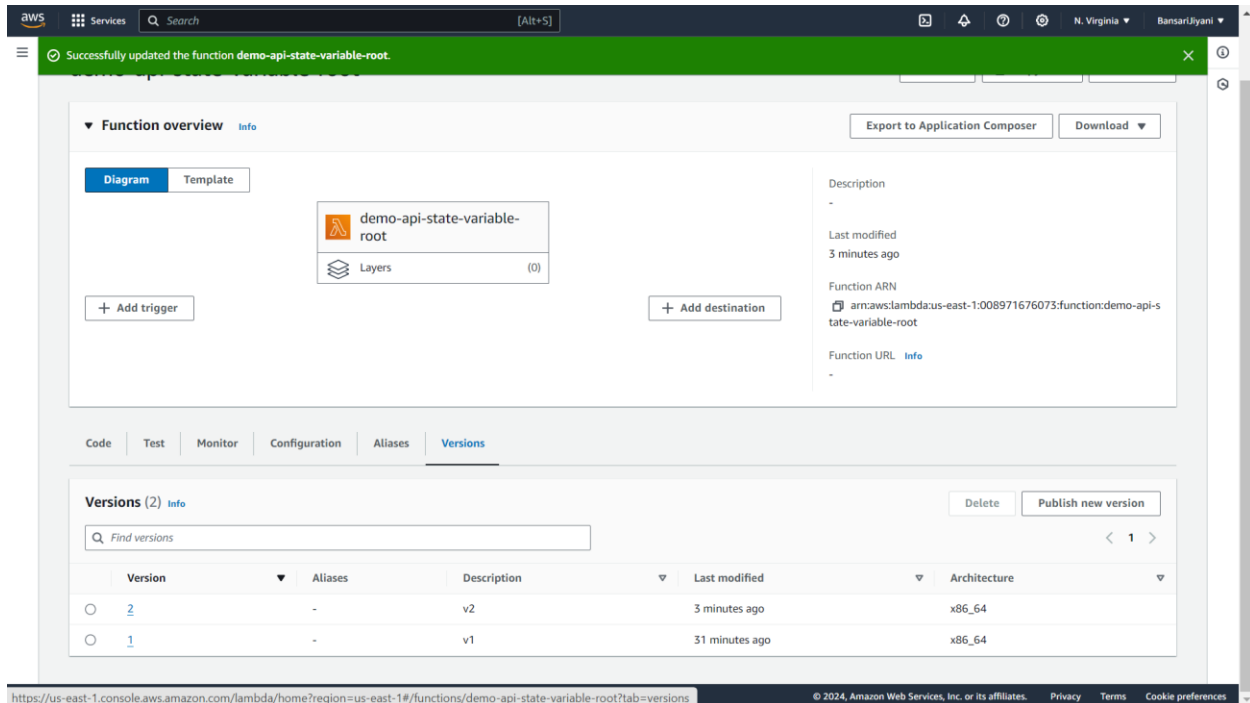
And again publish new version v2



And do changes in main function and deploy it but don't create new version



Here we can see the all the version of our function



Now create new alias DEV

Successfully updated the function demo-api-state-variable-root.

Diagram

Template

demo-api-state-variable-root

Layers (0)

+ Add trigger

+ Add destination

Description

-

Last modified

4 minutes ago

Function ARN

arn:aws:lambda:us-east-1:008971676073:function:demo-api-state-variable-root

Function URL

[Info](#)

Code

Test

Monitor

Configuration

Aliases

Versions

Aliases [Info](#)

Edit

Delete

Create alias

Name

Versions

Description

No aliases

This function does not have any aliases.

Create alias

<https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/demo-api-state-variable-root?tab=aliases>

Lambda > Functions > demo-api-state-variable-root > 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

Dev

Description - optional

Version

\$LATEST

► Weighted alias

Cancel

Save

CloudShell Feedback

Create another alias

aws

Services

Search

[Alt+S]

N. Virginia

BansariJyani

Lambda > Functions > demo-api-state-variable-root > 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

PROD

Description - optional

Version

1

► Weighted alias

Cancel

Save

The screenshot shows the AWS Lambda console for the function 'demo-api-state-variable-root'. The 'Function overview' tab is active, displaying a diagram of the function with a trigger and a destination. The 'Aliases' tab is also visible, showing a table of aliases.

Name	Versions	Description
Dev	version: \$LATEST (weight=100%)	-
PROD	version: 1 (weight=100%)	-
TEST	version: 2 (weight=100%)	-

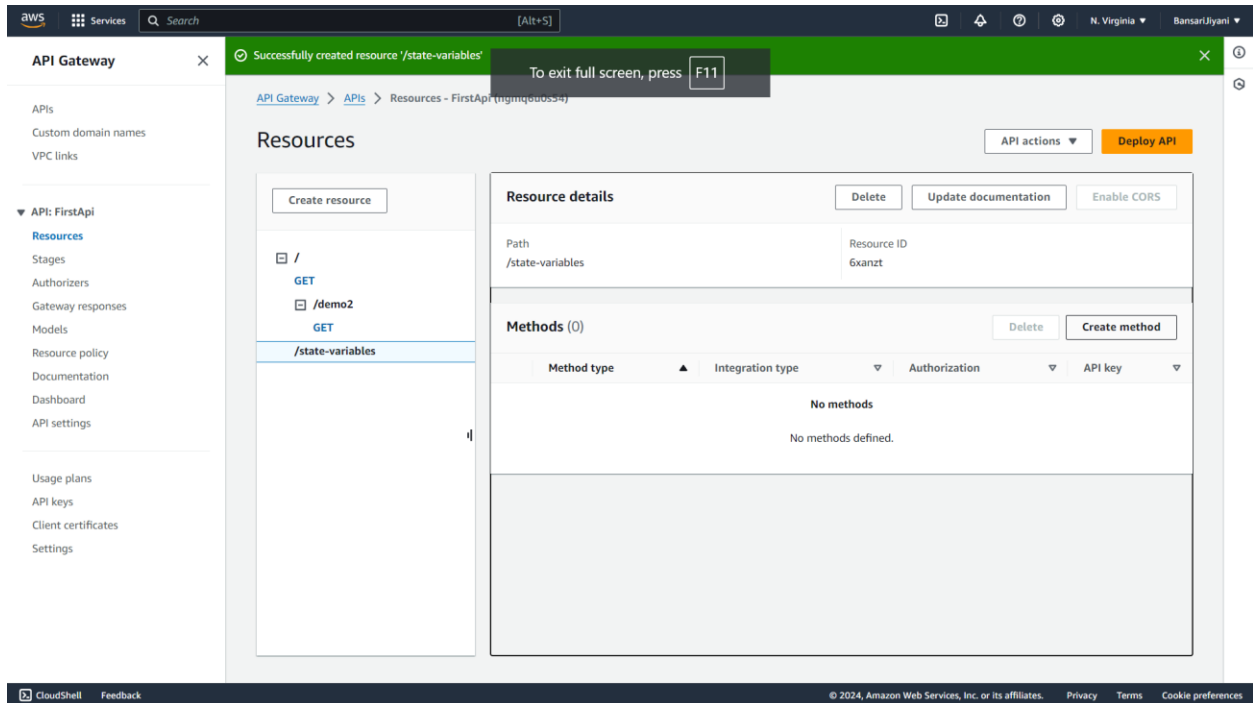
The URL at the bottom is <https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/demo-api-state-variable-root?tab=aliases>.

Test the alias from here

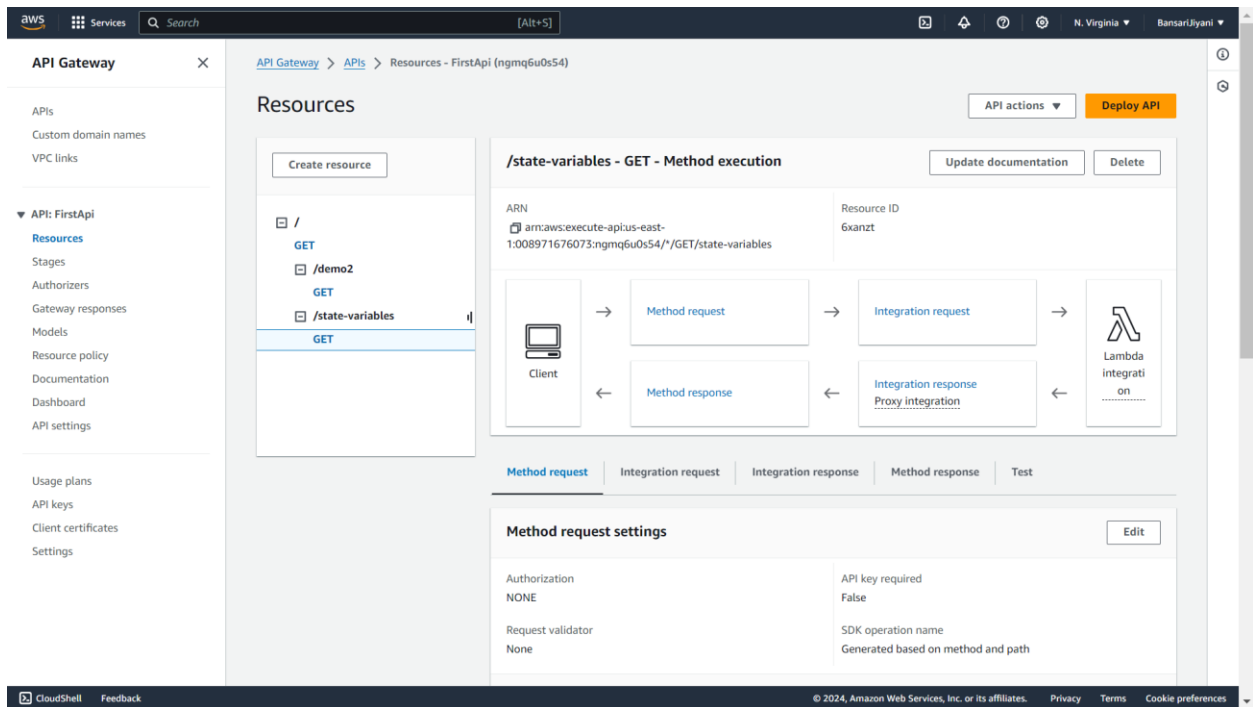
The screenshot shows the AWS Lambda console for the alias 'demo-api-state-variable-root:PROD'. The 'Test event' section is active, showing a form to create or edit a test event. The 'Event name' is set to 'a1'.

The URL at the bottom is <https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/demo-api-state-variable-root/aliases/PROD?tab=testing>.

Now copy the Function ARN and create API get req in API



Put the Main function ARN in state-variable new method



And now test it.

API Gateway

APIs
Custom domain names
VPC links

▼ API: FirstApi
Resources
Stages
Authorizers
Gateway responses
Models
Resource policy
Documentation
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API settings

Usage plans
API keys
Client certificates
Settings

Create resource

/
GET
/demo2
GET
/state-variables
GET

/state-variables - GET method test results

Request	Latency ms	Status
/state-variables	47	200

Response body

```
"hello from lambda, State variable 1 - Bansari Jiyani"
```

Response headers

```
{
  "Content-Type": "application/json",
  "X-Amzn-Trace-Id": "Root=1-66b4da3e-de6f844b75c24f23c7708559;Parent=2502e888b4e0c90d;Sampled=0;lineage=d1c67dd4:0"
}
```

Logs

Execution log for request 3338e748-082e-43fa-a6e3-e42a8d133c3d

```
Thu Aug 08 14:46:22 UTC 2024 : Starting execution for request: 3338e748-082e-43fa-a6e3-e42a8d133c3d
Thu Aug 08 14:46:22 UTC 2024 : HTTP Method: GET, Resource Path: /state-variables
Thu Aug 08 14:46:22 UTC 2024 : Method request path: {}
Thu Aug 08 14:46:22 UTC 2024 : Method request query string: {}
Thu Aug 08 14:46:22 UTC 2024 : Method request headers: {}
Thu Aug 08 14:46:22 UTC 2024 : Method request body before transformations:
Thu Aug 08 14:46:22 UTC 2024 : Endpoint request URI: https://lambda.us-east-1.amazonaws.com/2015-03-31/functions/arn:aws:lambda:us-east-1:008971676073:function:demo-api-state-variable-root:PROD/invocations
Thu Aug 08 14:46:22 UTC 2024 : Endpoint request headers: {X-Amz-Date=20240808T144622Z, x-amzn-apigateway-api-id=ngmq6u0s54, Accept=application/json, User-Agent=AmazonAPIGateway_ngmq6u0s54, Host=lambda.us-east-1.amazonaws.com, X-Amz-Content-Sha256=1c73fa1e0cb33d87e21ab1a1f0e554d01e018db4c0b14f379a1008806fd07dde, X-Amzn-Trace-Id=Root=1-66b4da3e-de6f844b75c24f23c7708559, x-amzn-lambda-integration-tag=3338e748-082e-43fa-a6e3-e42a8d133c3d, Authorization=*****}
```

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Deploy the api

API Gateway

APIs
Custom domain names
VPC links

▼ API: FirstApi
Resources
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Successfully created deployment for FirstApi. This deployment is active for dev1.

API Gateway > APIs > Resources - FirstApi (ngmq6u0s54)

Resources

Create resource

/
GET
/demo2
GET
/state-variables
GET

/state-variables - GET - Method execution

Update documentation Delete

ARN: arn:aws:execute-api:us-east-1:008971676073:ngmq6u0s54/*/GET/state-variables
Resource ID: 6xanzt

Client → Method request → Integration request → Lambda integration
← Method response ← Integration response (Proxy integration) ←

Method request Integration request Integration response Method response Test

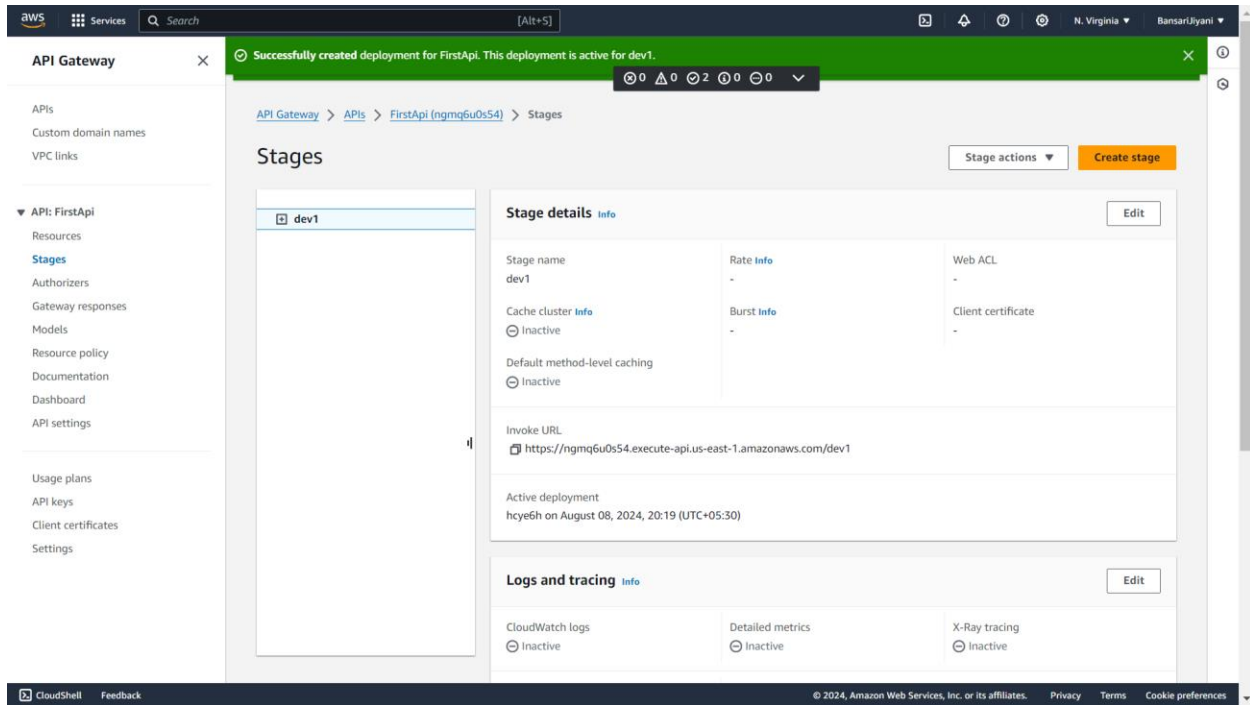
Method request settings

Edit

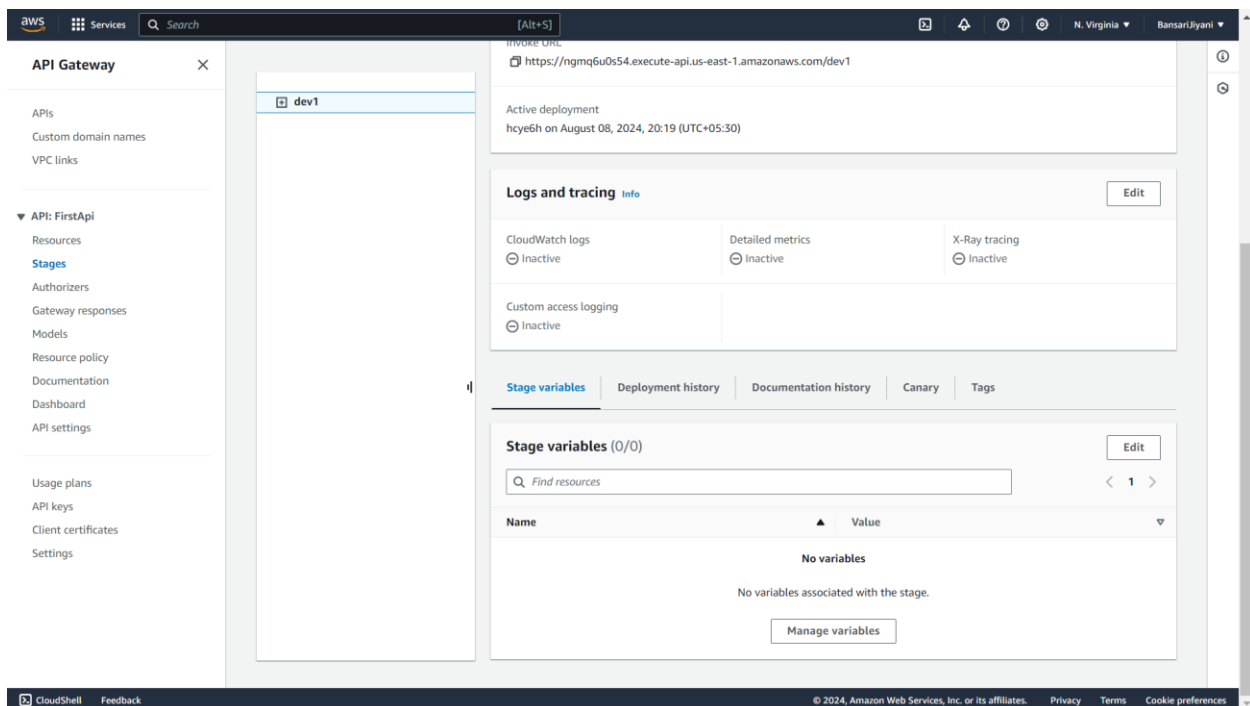
Authorization: NONE
API key required: False
Request validator: None
SDK operation name: None

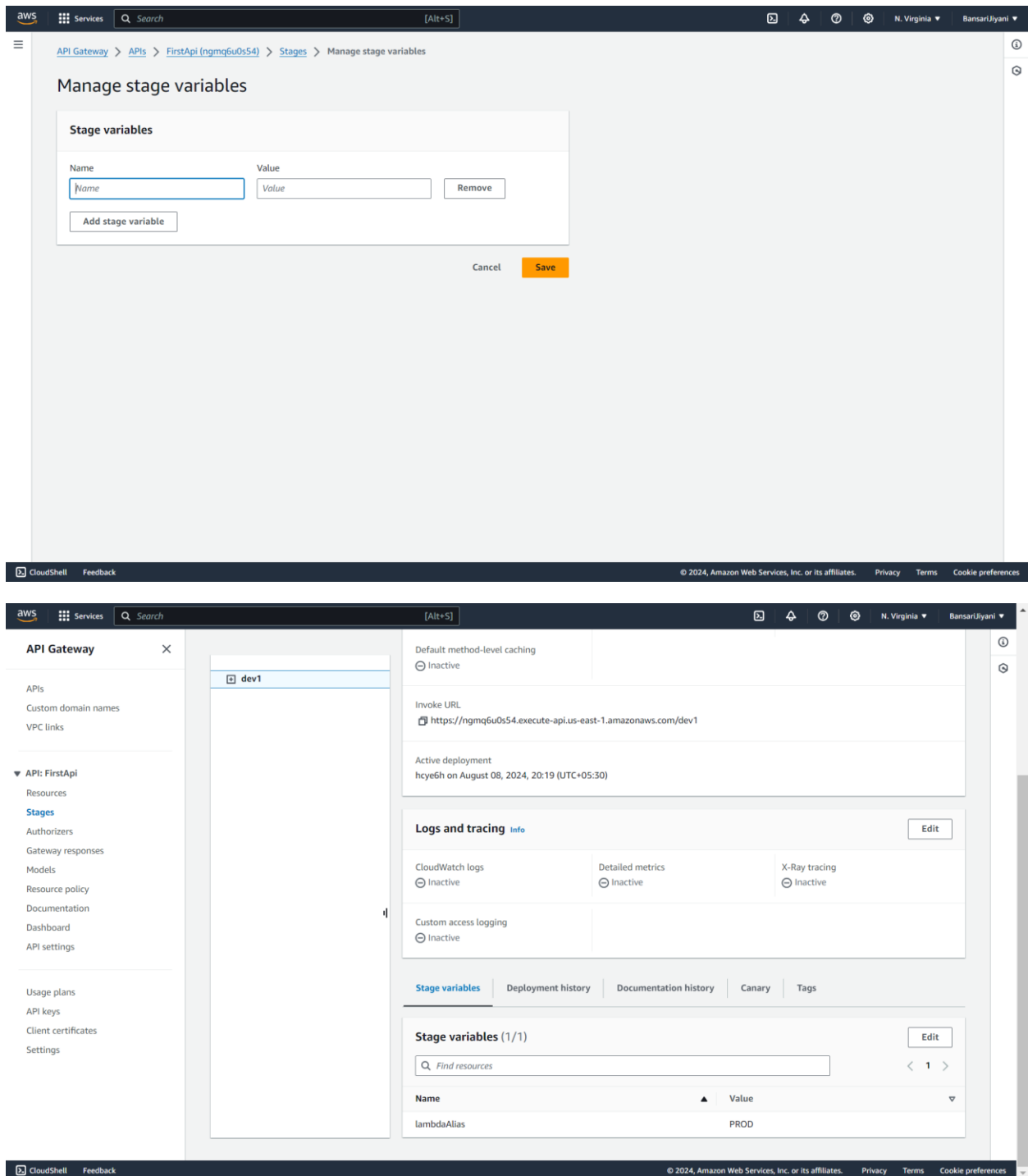
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Create stage variable





API gateway Canary

1. First create new source

API Gateway

APIs

Custom domain names

VPC links

▼ API: FirstApi

Resources

Stages

Authorizers

Gateway responses

Models

Resource policy

Documentation

Dashboard

API settings

Usage plans

API keys

Client certificates

Settings

API Gateway > APIs > Resources - FirstApi (ngmq6u0s54)

Resources

Create resource

/

GET

/demo2

GET

/state-variables

GET

Resource details

Update documentation

Enable CORS

Path

/

Resource ID

fe7mqzso15

Methods (1)

Delete

Create method

Method type	Integration type	Authorization	API key
GET	Lambda	None	Not required

API actions

Deploy API

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API Gateway > APIs > Resources - FirstApi (ngmq6u0s54) > Create resource

Create resource

Resource details

Proxy resource info

Proxy resources handle requests to all sub-resources. To create a proxy resource use a path parameter that ends with a plus sign, for example (proxy+).

Resource path

/

Resource name

canary-demo

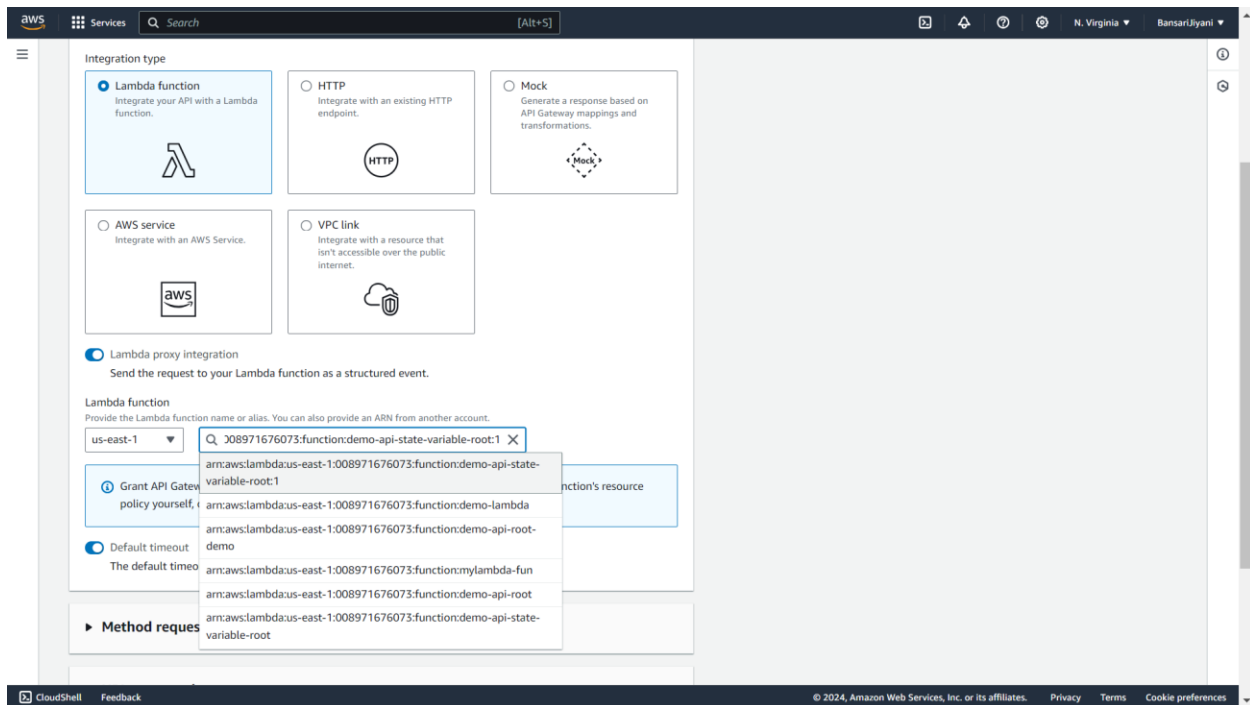
CORS (Cross Origin Resource Sharing) info

Create an OPTIONS method that allows all origins, all methods, and several common headers.

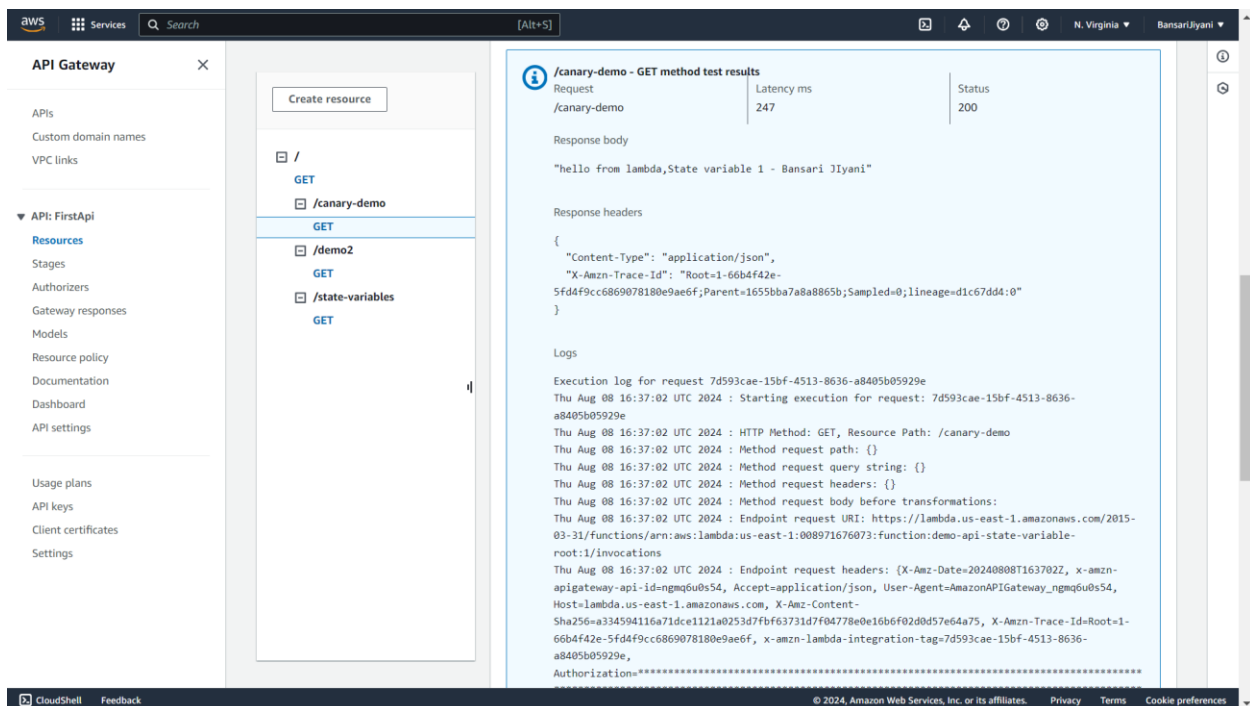
Cancel

Create resource

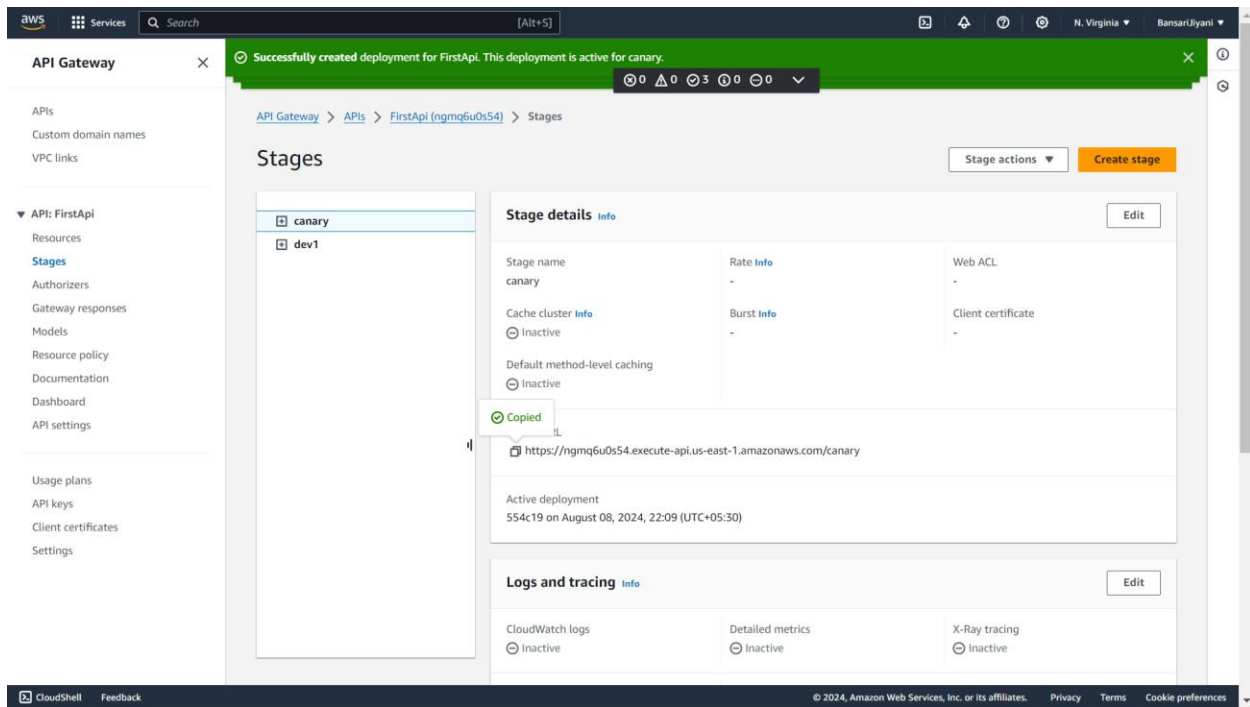
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We try this canary-demo



Now deploy this canary API



Copy this URL and test it in postman and check response

