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Course : AWS Developer Associate
Section :04

Creating a new table in dyanmoDB for API gateway connection with a partition key

Friday, June 17, 2022

The screenshot shows the AWS Management Console 'Create table' page for DynamoDB. The page is titled 'Create table' and includes a 'Table details' section. The 'Table name' field is set to 'test'. The 'Partition key' is set to 'id' with a 'String' data type. The 'Sort key - optional' field is empty, with a placeholder 'Enter the sort key name' and a 'String' data type. The page also includes a 'Feedback' link and a footer with copyright information.

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.

test

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.

id 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.

Enter the sort key name String

1 to 255 characters and case sensitive.

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Creating Roles

The screenshot shows the AWS Management Console 'Create role' page. The page is titled 'Create role' and includes a 'Trusted entity type' section. The 'AWS service' option is selected. The 'Use case' section is expanded, showing 'API Gateway' as the selected use case. The page also includes a 'Feedback' link and a footer with copyright information.

Create role

Trusted entity type

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

☐ **AWS account**
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

☐ **Web identity**
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

☐ **SAML 2.0 federation**
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

☐ **Custom trust policy**
Create a custom trust policy to enable others to perform actions in this account.

Use case

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

Common use cases

☐ **EC2**
Allows EC2 instances to call AWS services on your behalf.

☐ **Lambda**
Allows Lambda functions to call AWS services on your behalf.

Use cases for other AWS services:

API Gateway

☒ **API Gateway**
Allows API Gateway to push logs to CloudWatch Logs.

Cancel Next

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Guest Portal

View table

IAM Manager

Billing Manager

validation

HTML font tag

Tryit Editor v1

Working with

Mail - CHALI

https://us-east-1.console.aws.amazon.com/iamv2/home#/roles/create?selectedService=APIGateway&selectedUseCase=AWSAmazonAPIGatewayRole&step=review&trustedEn...

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IAM

Roles

Create role

Step 1

Select trusted entity

Step 2

Add permissions

Step 3

Name, review, and create

Name, review, and create

Role details

Role name

Enter a meaningful name to identify this role.

APIDemoRole

Maximum 64 characters. Use alphanumeric and "+,=,@,_" characters.

Description

Add a short explanation for this policy.

Allows API Gateway to push logs to CloudWatch Logs.

Maximum 1000 characters. Use alphanumeric and "+,=,@,_" characters.

Step 1: Select trusted entities

Edit

```
1- {
2-   "Version": "2012-10-17",
3-   "Statement": [
4-     {
5-       "Sid": "",
6-       "Effect": "Allow",
7-       "Action": "logs:CreateLogGroup",
8-       "Resource": "arn:aws:logs:*:*:*"
9-     }
10-  ]
11- }
```

Feedback

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View table

IAM Manager

Billing Manager

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https://us-east-1.console.aws.amazon.com/iamv2/home#/roles

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Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analizers

Settings

Credential report

Organization activity

Service control policies (SCPs)

IAM

Roles

Roles (7)

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.

Search

< 1 >

⚙

<input type="checkbox"/>	Role name	Trusted entities	Last activity
<input type="checkbox"/>	APIDemoRole	AWS Service: apigateway	-
<input type="checkbox"/>	AWSServiceRoleForAmazonElasticFileSystem	AWS Service: elasticfilesystem (Service-Linked Role)	89 days ago
<input type="checkbox"/>	AWSServiceRoleForApplicationAutoScaling_DynamoDBTable	AWS Service: dynamodb.application-autoscaling (Service-Linked Role)	86 days ago
<input type="checkbox"/>	AWSServiceRoleForBackup	AWS Service: backup (Service-Linked Role)	40 minutes ago
<input type="checkbox"/>	AWSServiceRoleForDynamoDBReplication	AWS Service: replication.dynamodb (Service-Linked Role)	-
<input type="checkbox"/>	AWSServiceRoleForSupport	AWS Service: support (Service-Linked Role)	-
<input type="checkbox"/>	AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service-Linked Role)	-

Feedback

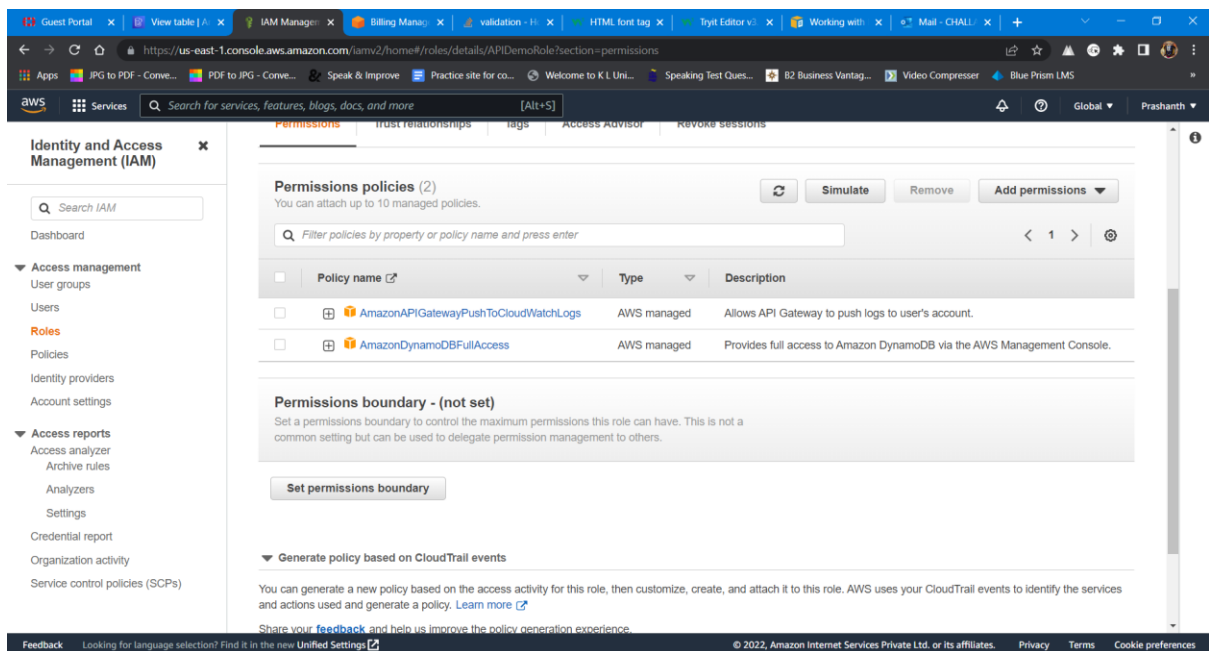
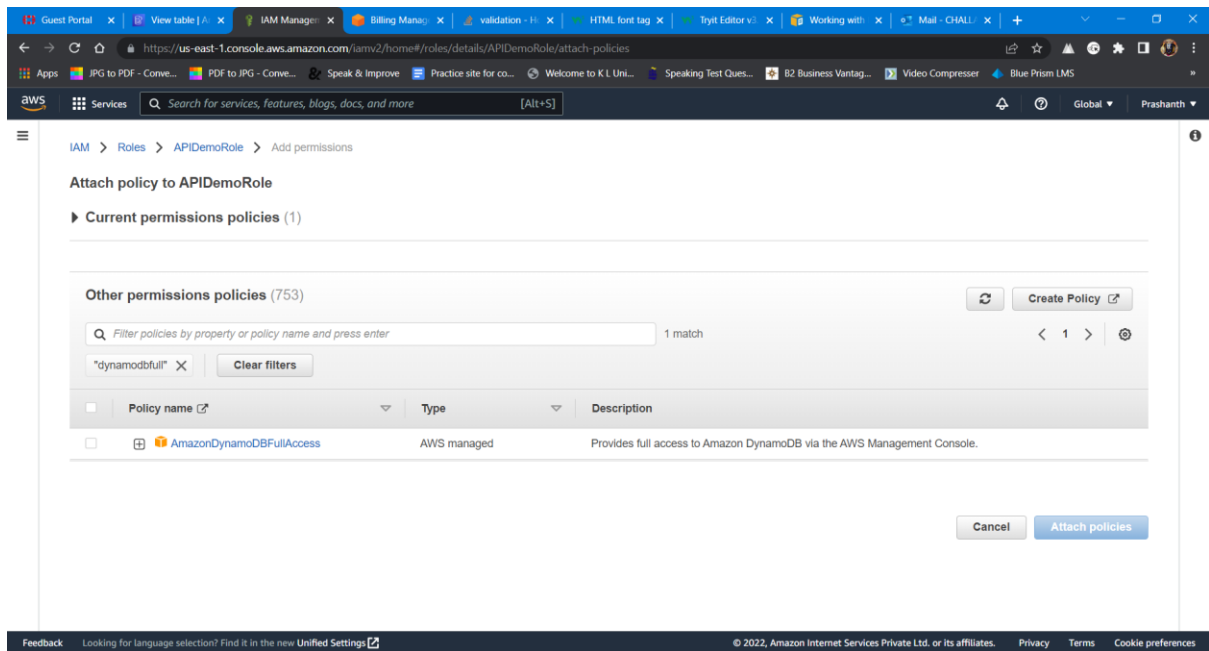
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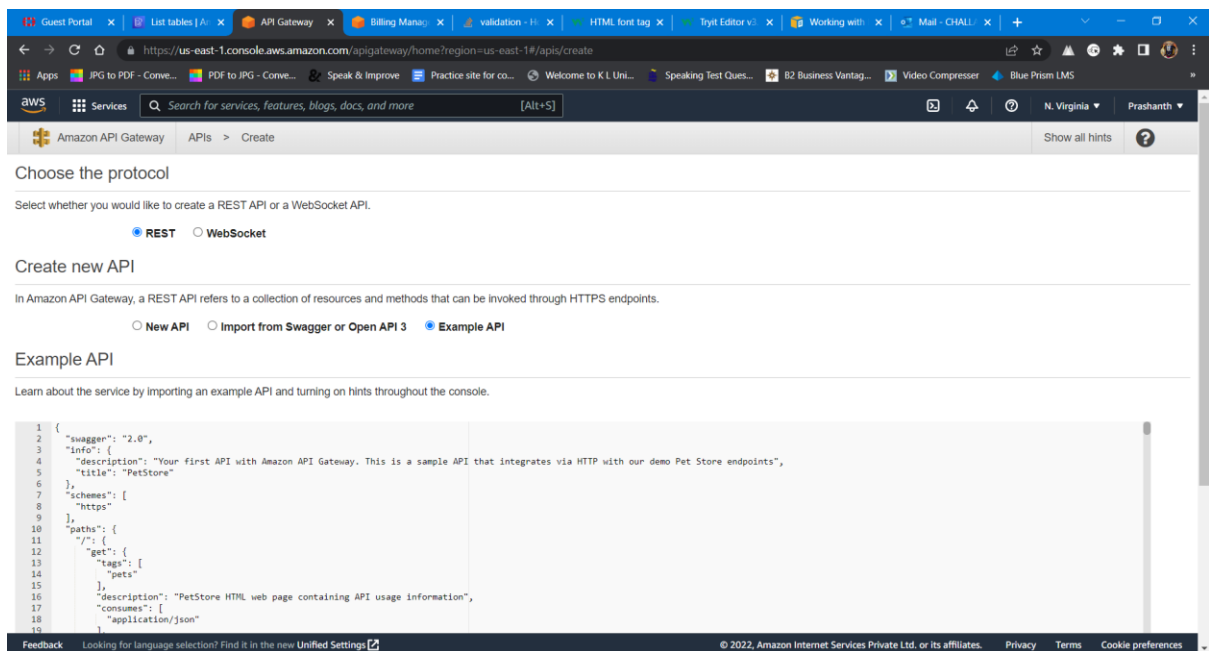
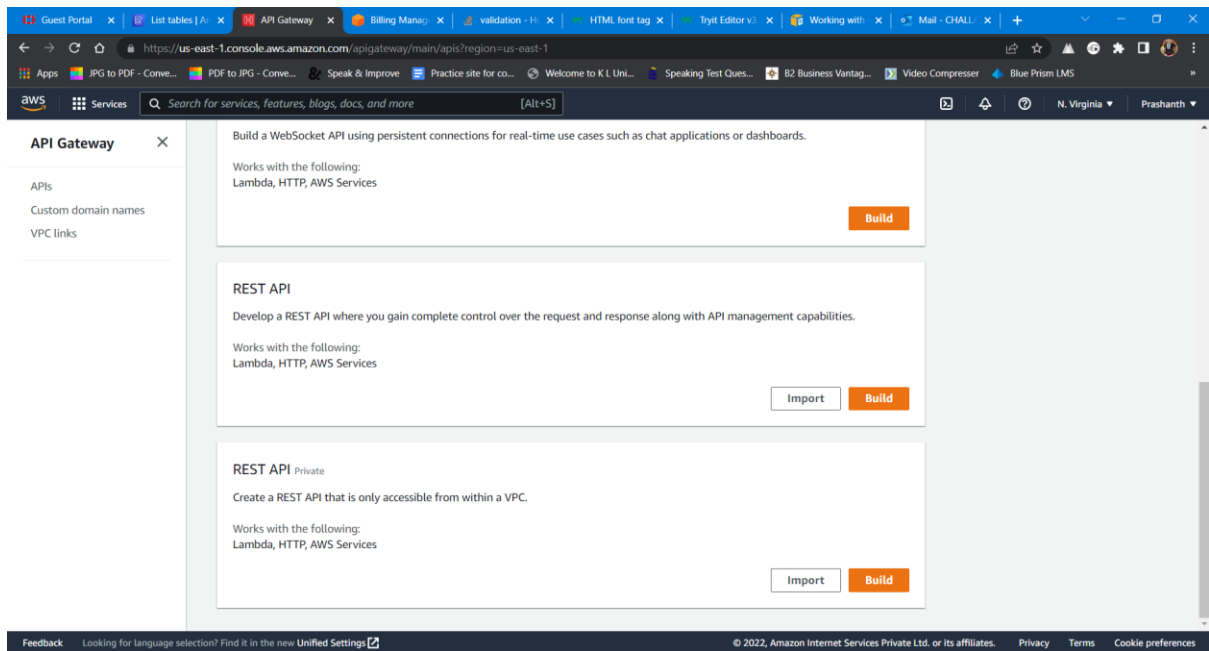
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Open API Gateway



Guest Portal xList tables | A/xAPI Gateway xBilling Managexvalidation - H/xHTML font tag xTryit Editor v1 xWorking with xMail - CHALL/x+

https://us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/create

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Amazon API Gateway xAPIs > CreateShow all hints?

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*API-Demo

Description

Endpoint TypeRegional

* Required

Create API

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https://us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/nou1frfjb2/resources/brjw9w2hf

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Amazon API Gateway xAPIs > API-Demo (nou1frfjb2) > Resources > / (brjw9w2hf)Show all hints?

APIs

Custom Domain Names

VPC Links

API: API-Demo

Resources

Stages

Authorizers

Gateway Responses

Models

Resource Policy

Documentation

Dashboard

Settings

Usage Plans

Resources

Actions

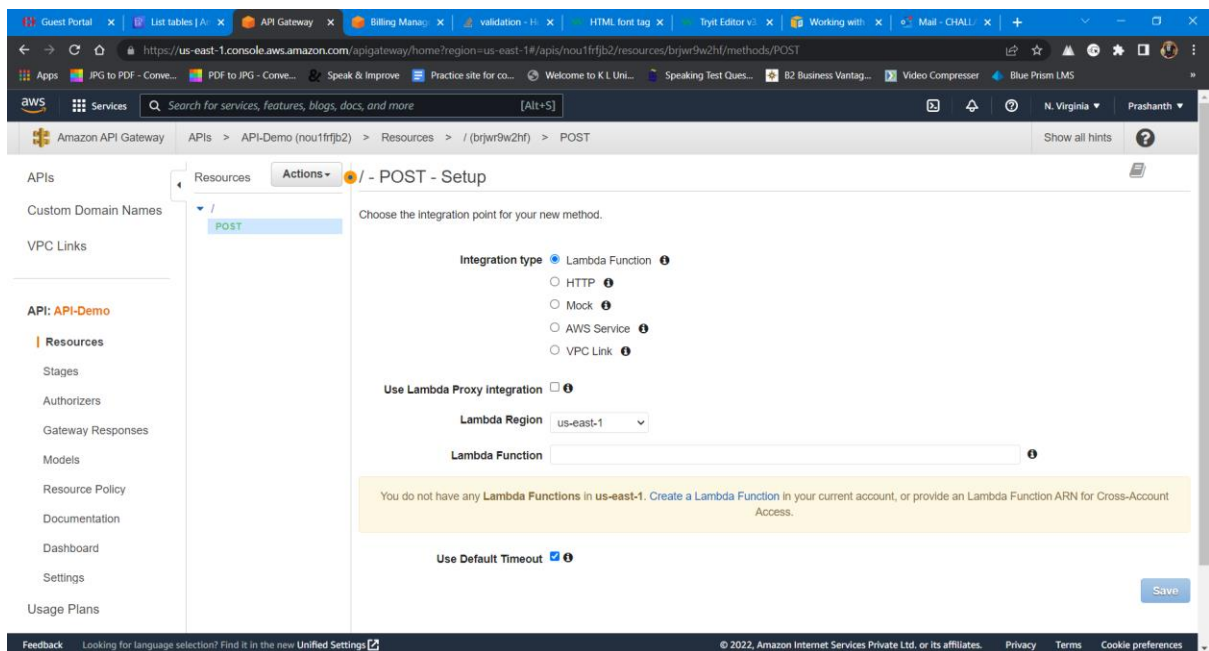
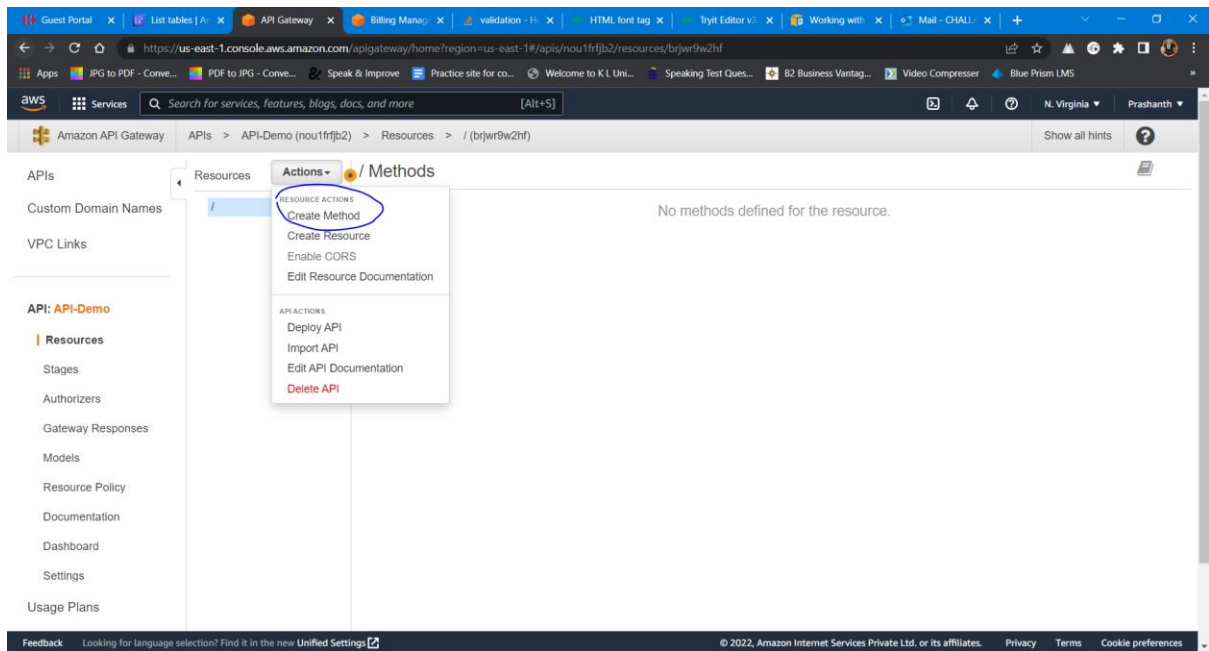
Methods

/

No methods defined for the resource.

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https://us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/nou1frfb2/resources/brjwr9wzhl/methods/POST

API Gateway

APIs > API-Demo (nou1frfb2) > Resources > / (brjwr9wzhl) > POST

APIs

Custom Domain Names

VPC Links

API: API-Demo

Resources

Stages

Authorizers

Gateway Responses

Models

Resource Policy

Documentation

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Settings

Usage Plans

Resources Actions - / - POST - Setup

Choose the integration point for your new method.

Integration type

- ☐ Lambda Function
- ☐ HTTP
- ☐ Mock
- ☒ AWS Service
- ☐ VPC Link

AWS Region us-east-1

AWS Service

AWS Subdomain

HTTP method

Action Type

- ☒ Use action name
- ☐ Use path override

Action ListResources

Execution role iam:aws-iam:myAccount:role/myRole

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Based on DynamoDB Region

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https://us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/nou1frfb2/resources/brjwr9wzhl/methods/POST

API Gateway

APIs > API-Demo (nou1frfb2) > Resources > / (brjwr9wzhl) > POST

VPC Links

API: API-Demo

Resources

Stages

Authorizers

Gateway Responses

Models

Resource Policy

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Dashboard

Settings

Usage Plans

API Keys

Client Certificates

Settings

Integration type

- ☐ Lambda Function
- ☐ HTTP
- ☐ Mock
- ☒ AWS Service
- ☐ VPC Link

AWS Region us-east-1

AWS Service DynamoDB

AWS Subdomain

HTTP method POST

Action Type

- ☒ Use action name
- ☐ Use path override

Action PutItem

Execution role iam:aws-iam:myAccount:role/myRole

Content Handling Passthrough

Use Default Timeout

Save

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https://us-east-1.console.aws.amazon.com/iamv2/home#/roles/details/APIDemoRole?section=permissions

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 - Account settings
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 - Settings
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 - Organization activity
 - Service control policies (SCPs)

IAM > Roles > APIDemoRole

APIDemoRole

Allows API Gateway to push logs to CloudWatch Logs.

Summary

Creation date: June 16, 2022, 14:25 (UTC+05:30)

Last activity: None

ARN: **arn:aws:iam::610304779771:role/APIDemoRole**

Maximum session duration: 1 hour

Permissions Trust relationships Tags Access Advisor Revoke sessions

Permissions policies (2)

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter

Policy name	Type	Description
AmazonAPIGatewayPushToCloudWatchLogs	AWS managed	Allows API Gateway to push logs to CloudWatch Logs.

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https://us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/hou1tfjb2/resources/bjwr9wzhl/methods/POST

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VPC Links

API: API-Demo

Resources

- Stages
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- Settings

Integration type

- ☐ Lambda Function
- ☐ HTTP
- ☐ Mock
- ☒ AWS Service
- ☐ VPC Link

AWS Region: us-east-1

AWS Service: DynamoDB

AWS Subdomain:

HTTP method: POST

Action Type

- ☒ Use action name
- ☐ Use path override

Action: PutItem

Execution role: **arn:aws:iam::610304779771:role/APIDemoRole**

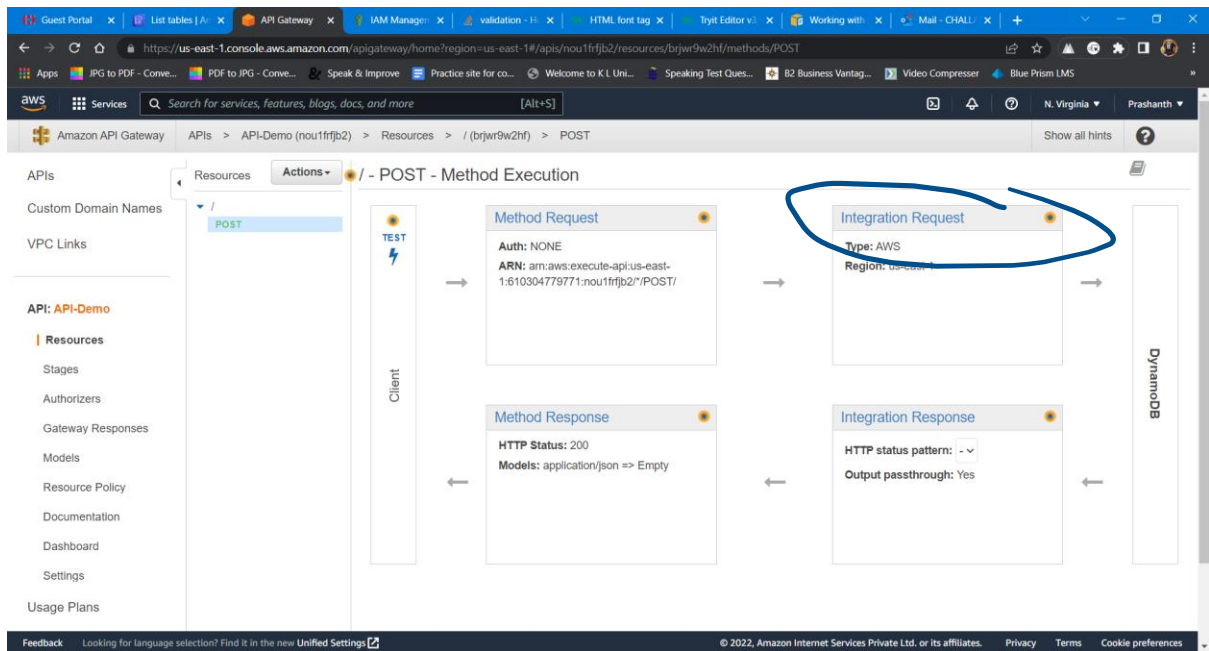
Content Handling: Passthrough

Use Default Timeout

Save

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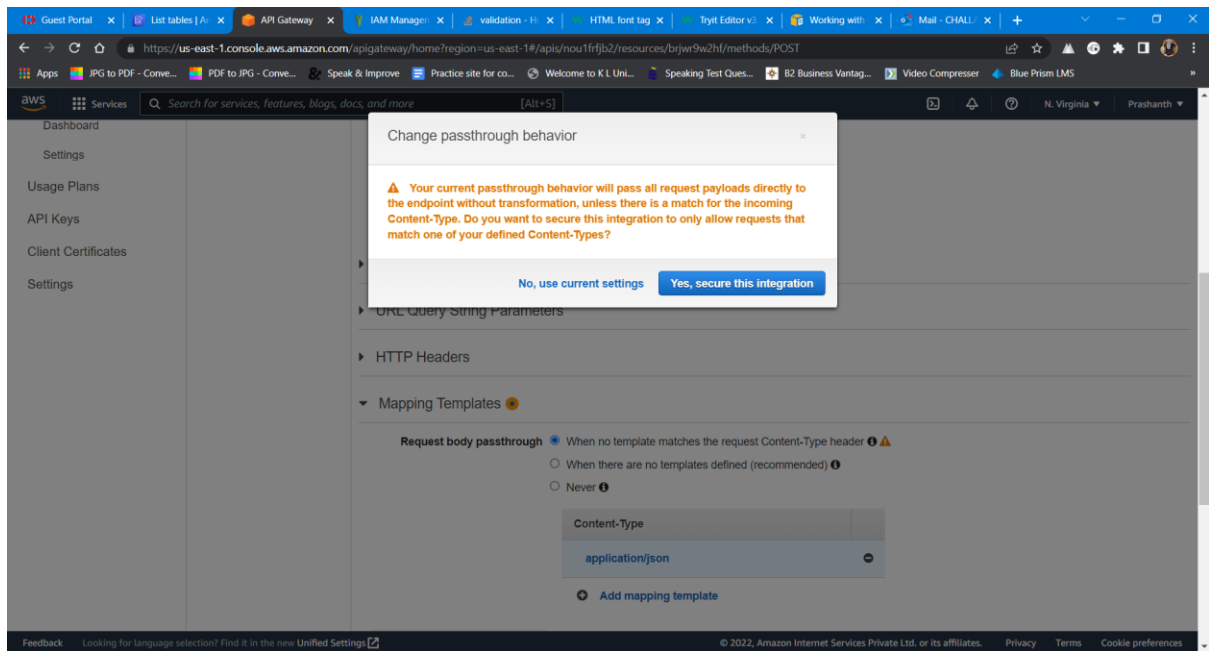
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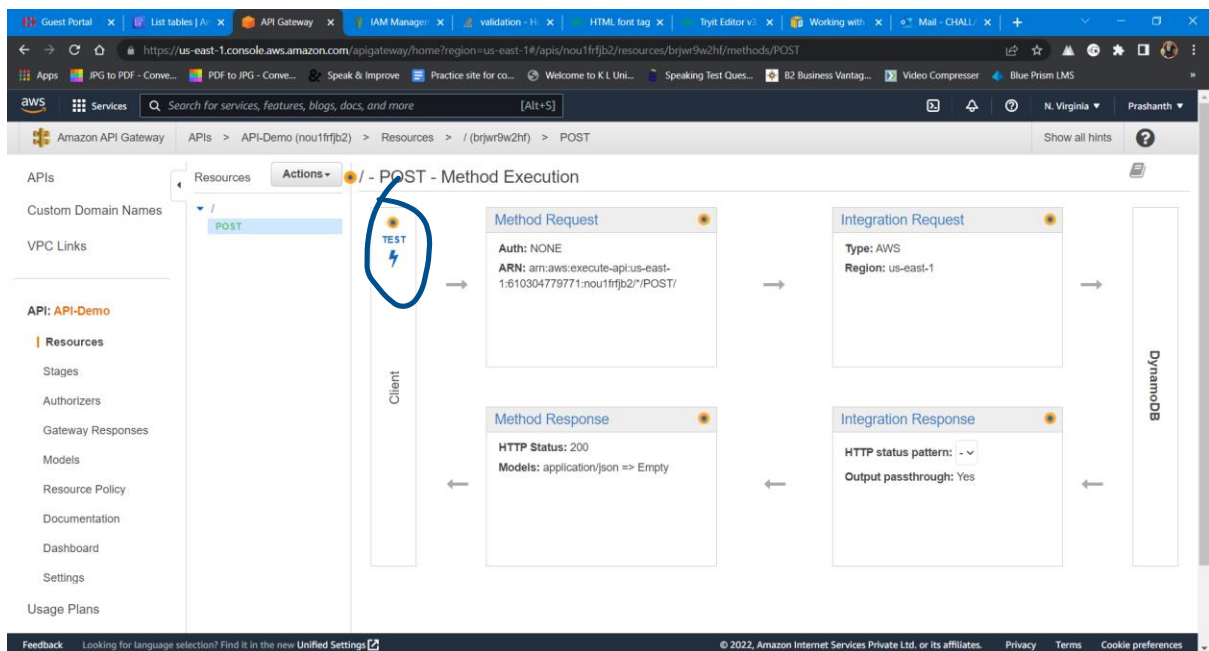
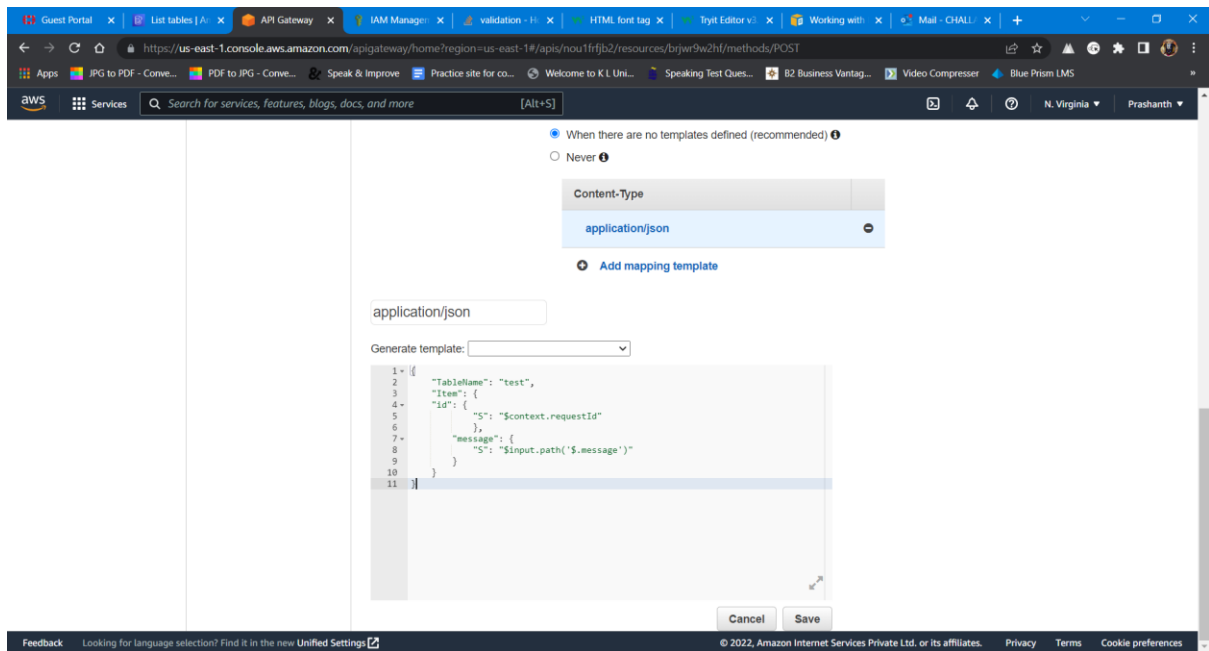
The screenshot shows the AWS API Gateway console for a POST method. The settings are as follows:

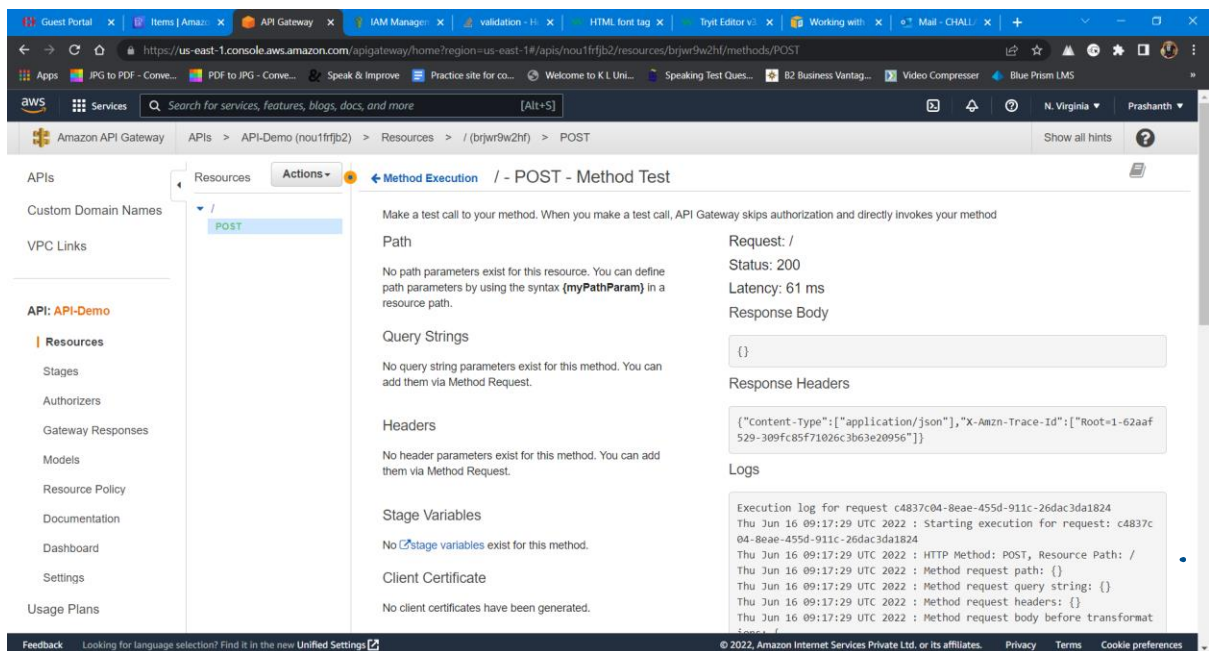
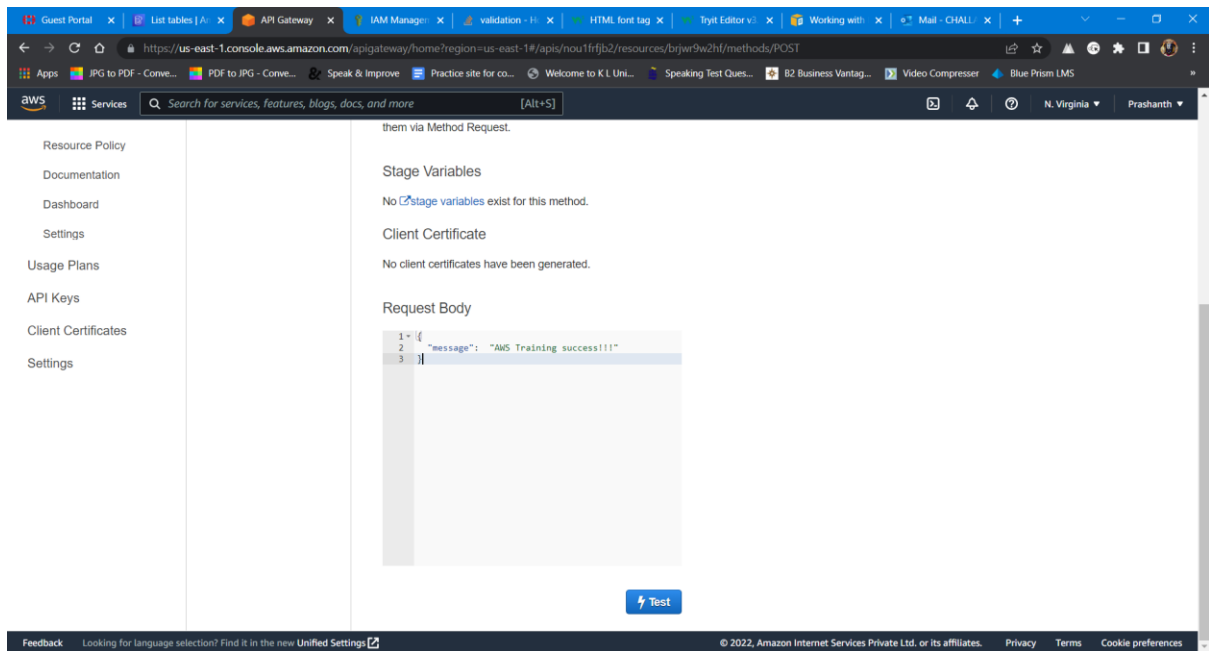
- Execution role:** am:aws:iam::610304779771:role/APIDemoRole
- Credentials cache:** Do not add caller credentials to cache key
- Content Handling:** Passthrough
- Use Default Timeout:** ☒
- URL Path Parameters:**
- URL Query String Parameters:**
- HTTP Headers:**
- Mapping Templates:**
 - Request body passthrough:** ☒ When no template matches the request Content-Type header
 - ☐ When there are no templates defined (recommended)
 - ☐ Never

The **Content-Type** dropdown is set to **application/json**.



```
{
  "TableName": "test",
  "Item": {
    "id": {
      "S": "$context.requestId"
    },
    "message": {
      "S": "$input.path('$.message')"
    }
  }
}
```





Verify the DynamoDB Table

Guest Portal x Items | Amaz... x API Gateway x IAM Manage... x validation - H... x HTML font tag x Tryit Editor v... x Working with x Mail - CHALL... x +

https://us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#item-explorer?initialTagKey=&table=test

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- Tables
 - Update settings
 - Explore items
- PartiQL editor [New](#)
- Backups
- Exports to S3
- Reserved capacity
- Preferences [New](#)

DAX

- Clusters
- Subnet groups
- Parameter groups
- Events

DynamoDB > Items > test

Tables (1)

Any table tag

Find tables by table name

test

test

Autopreview View table details

Scan/Query items

Expand to query or scan items.

Items returned (1)

Actions Create item

	id	message
<input type="checkbox"/>	c4837c04-8eae-455d...	AWS Training success!!!

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