

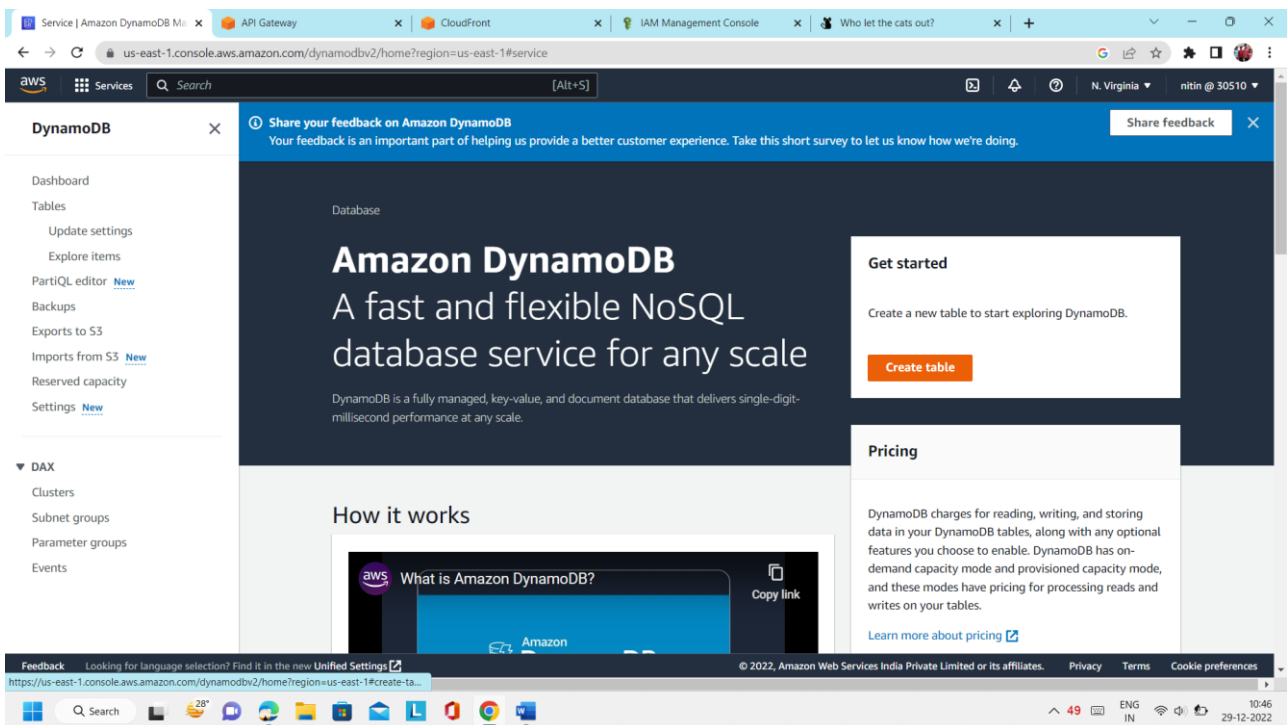
CSC-SKILL-6

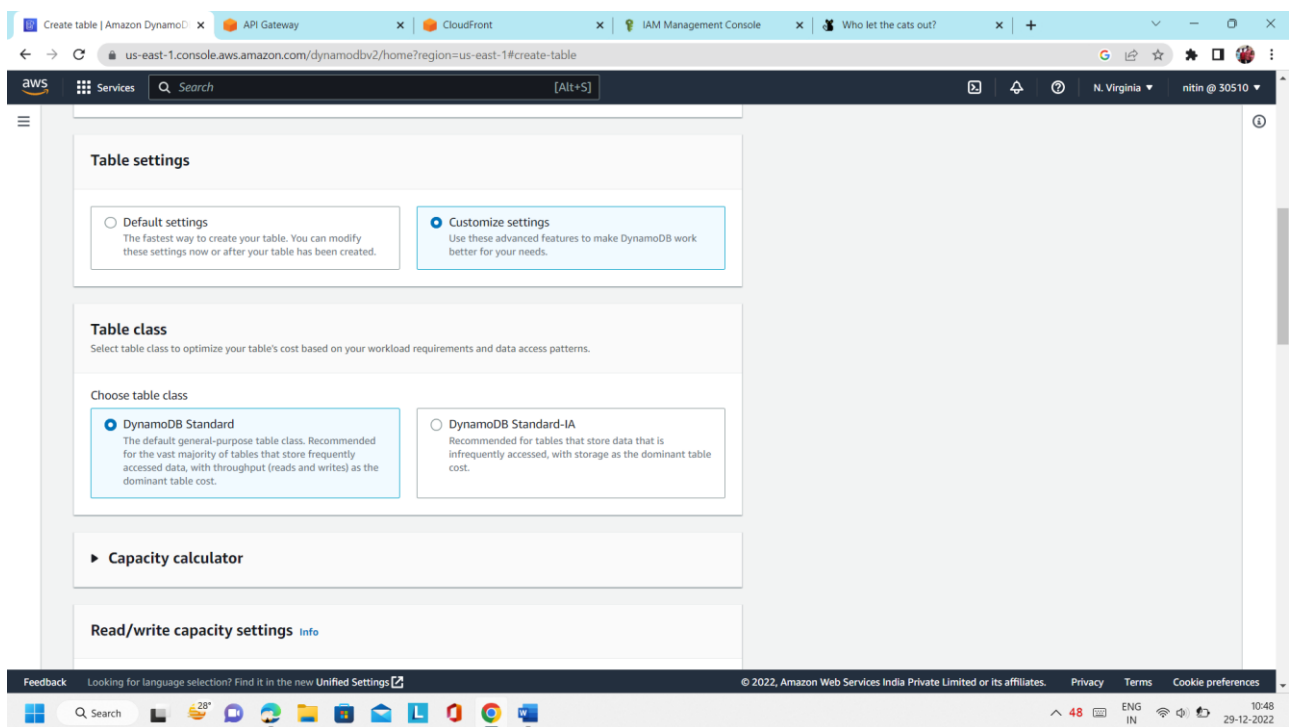
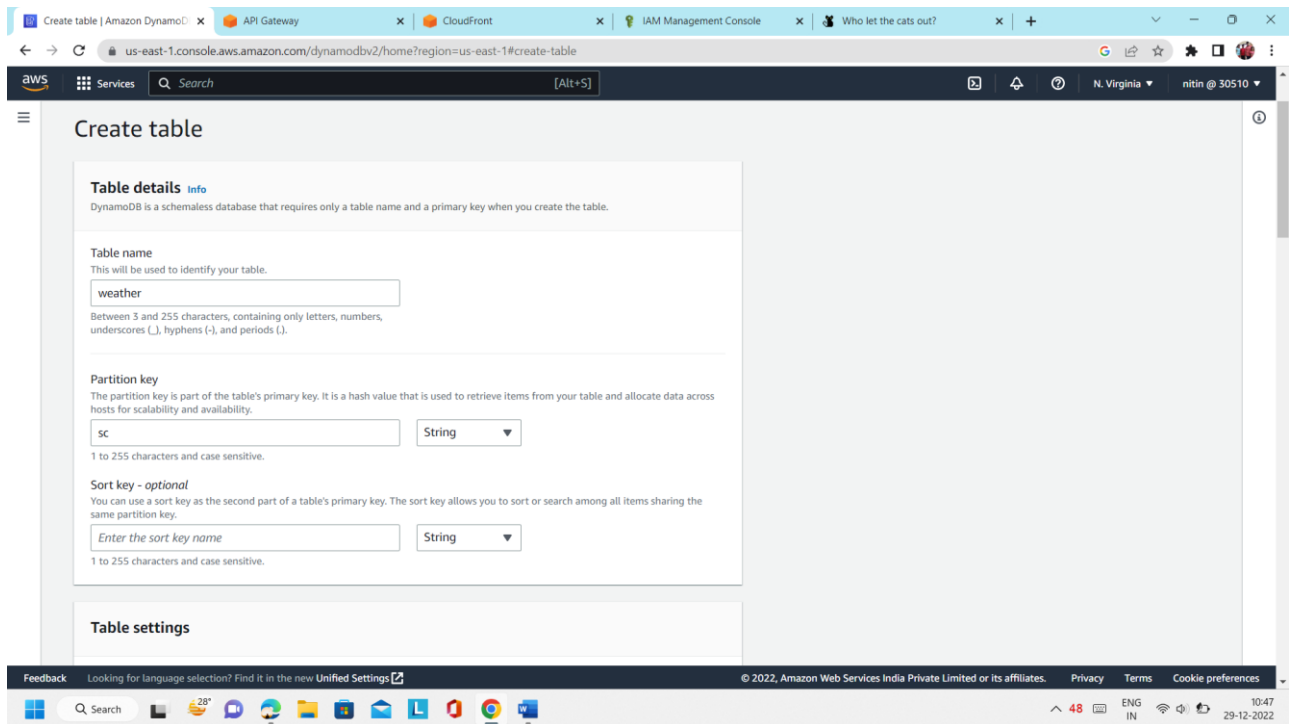
NAME: K. Nitin reddy

ID:2000030510

SEC:13

CREATING A DynamoDB TABLE for seeding weather table from CSV file for API





Create table | Amazon DynamoDB | API Gateway | CloudFront | IAM Management Console | Who let the cats out?

us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#create-table

Services Search [Alt+S]

N. Virginia nitin @ 30510

Capacity mode

☐ On-demand

☒ Provisioned

Read capacity

Auto scaling

Provisioned capacity units

Write capacity

Auto scaling

Provisioned capacity units

Secondary indexes

Feedback

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

List tables | Amazon DynamoDB | API Gateway | CloudFront | IAM Management Console | Who let the cats out?

us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#tables

Services Search [Alt+S]

N. Virginia nitin @ 30510

DynamoDB

Dashboard

Tables

Update settings

Explore items

PartiQL editor

Backups

Exports to S3

Imports from S3

Reserved capacity

Settings

DAX

Clusters

Subnet groups

Parameter groups

Events

Share your feedback on Amazon DynamoDB

The weather table was created successfully.

DynamoDB > Tables

Tables (1)

Find tables by table name

Any table tag

1

	Na...	Status	Partition key	Sort key	Indexes	Read capacity mode	Write capacity mo...	Size	Table class
<input type="checkbox"/>	weather	Active	sc (S)	-	0	Provisioned (1)	Provisioned (100)	0 bytes	DynamoDB Standar

Feedback

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

us-east-1.console.aws.amazon.com/iamv2/home#/roles/details/Get-Weather?section=permissions

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)

Summary

Creation date
December 29, 2022, 10:31 (UTC+05:30)

ARN
arn:aws:iam::372836073348:role/service-role/Get-Weather

Last activity
None

Maximum session duration
1 hour

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

Permissions policies (1)

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter.

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AWSLambdaEdgeExecutionRole-9f98bd1d-4cf5-40a8-9b4a-2d9934309d7f	Customer managed	

Permissions boundary - (not set)

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.

Feedback | Looking for language selection? Find it in the new Unified Settings | © 2022, Amazon Web Services India Private Limited or its affiliates. | Privacy | Terms | Cookie preferences

48 ENG IN 10:51 29-12-2022

us-east-1.console.aws.amazon.com/iam/home#/roles/Get-Weather\$createPolicy?step=edit

Service: DynamoDB

Specify the actions allowed in DynamoDB

Filter actions

Manual actions (add actions)

☐ All DynamoDB actions (dynamodb:*)

Access level

- ☒ List (6 selected)
- ☒ Read (25 selected)
- ☐ Tagging
- ☐ Write (1 selected)

<input type="checkbox"/> BatchWriteItem	<input type="checkbox"/> EnableKinesisStreamingDestination	<input type="checkbox"/> RestoreTableToPointInTime
<input type="checkbox"/> CreateBackup	<input type="checkbox"/> ExportTableToPointInTime	<input type="checkbox"/> StartAwsBackupJob
<input type="checkbox"/> CreateGlobalTable	<input type="checkbox"/> ImportTable	<input type="checkbox"/> UpdateContinuousBackups
<input type="checkbox"/> CreateTable	<input type="checkbox"/> PartiQLDelete	<input type="checkbox"/> UpdateContributorInsights
<input type="checkbox"/> CreateTableReplica	<input type="checkbox"/> PartiQLInsert	<input type="checkbox"/> UpdateGlobalTable
<input type="checkbox"/> DeleteBackup	<input type="checkbox"/> PartiQLUpdate	<input type="checkbox"/> UpdateGlobalTableSettings
<input type="checkbox"/> DeleteItem	<input type="checkbox"/> PurchaseReservedCapacityOfferin...	<input type="checkbox"/> UpdateItem
<input type="checkbox"/> DeleteTable	<input checked="" type="checkbox"/> PutItem	<input type="checkbox"/> UpdateTable
<input type="checkbox"/> DeleteTableReplica	<input type="checkbox"/> RestoreTableFromAwsBackup	<input type="checkbox"/> UpdateTableReplicaAutoScaling
<input type="checkbox"/> DisableKinesisStreamingDestination	<input type="checkbox"/> RestoreTableFromBackup	<input type="checkbox"/> UpdateTimeToLive

Feedback | Looking for language selection? Find it in the new Unified Settings | © 2022, Amazon Web Services India Private Limited or its affiliates. | Privacy | Terms | Cookie preferences

47 ENG IN 10:53 29-12-2022

us-east-1.console.aws.amazon.com/iam/home#/roles/Get-Weather\$createPolicy?step=edit

Services Search [Alt+S]

Documentation

DescribeContinuousBackups
DescribeContributorInsights
DescribeExport
DescribeGlobalTable
DescribeGlobalTableSettings
DescribeImport

DescribeReservedCapacityOfferings
DescribeStream
DescribeTable
DescribeTableReplicaAutoScaling
DescribeTimeToLive
GetItem

ListTagsOfResource
 PartiQLSelect
 Query
 Scan

Write
PutItem

▼ Resources ☐ Specific
close ☒ All resources

As a best practice, define permissions for only specific resources in specific accounts. Alternatively, you can grant least privilege using condition keys. [Learn more](#)

► Request conditions [Specify request conditions \(optional\)](#)

[Add additional permissions](#)

Character count: 39 of 10,240.
The current character count includes character for all inline policies in the role: Get-Weather.

Cancel [Review policy](#)

Feedback Looking for language selection? Find it in the new Unified Settings

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

47 ENG IN 10:54 29-12-2022

us-east-1.console.aws.amazon.com/iam/home#/roles/Get-Weather\$createPolicy?step=review

Services Search [Alt+S]

Create policy

1 2

Review policy

Before you create this policy, provide the required information and review this policy.

Name*
Maximum 128 characters. Use alphanumeric and '+', '@', '_' characters.

Summary

Service	Access level	Resource	Request condition
Allow (1 of 357 services) Show remaining 356			
DynamoDB	Full: List, Read Limited: Write	All resources	None

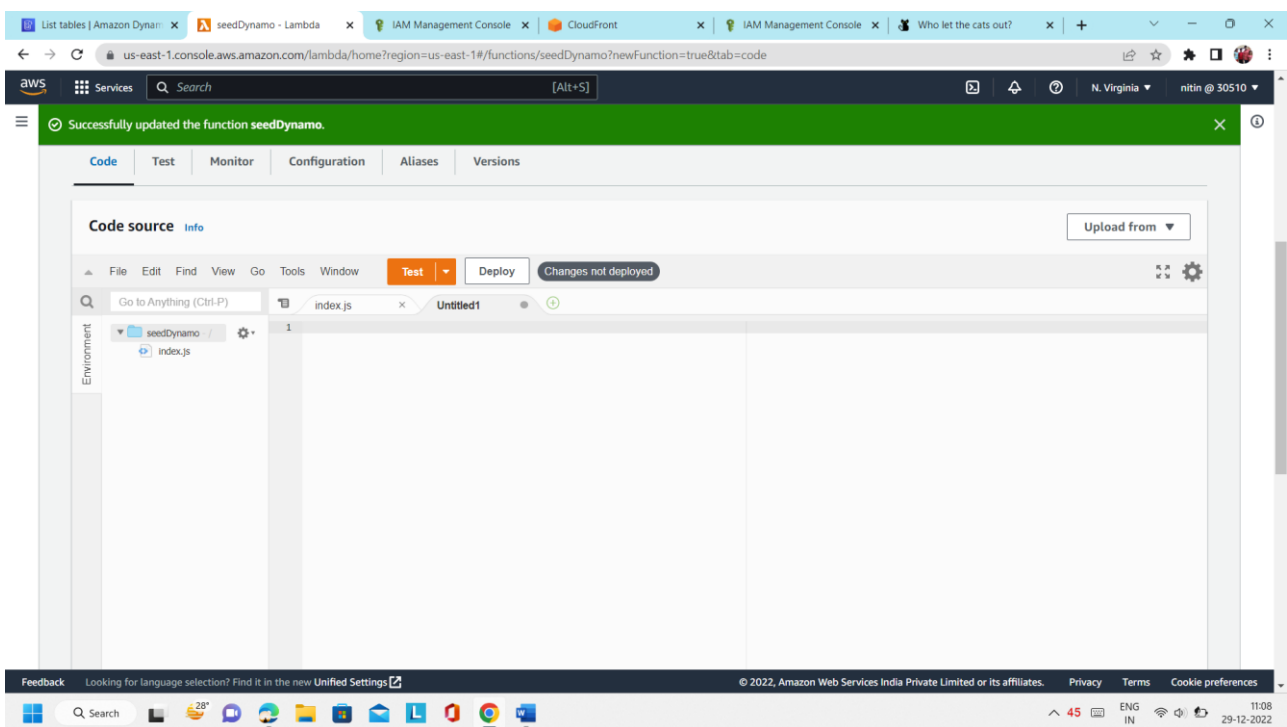
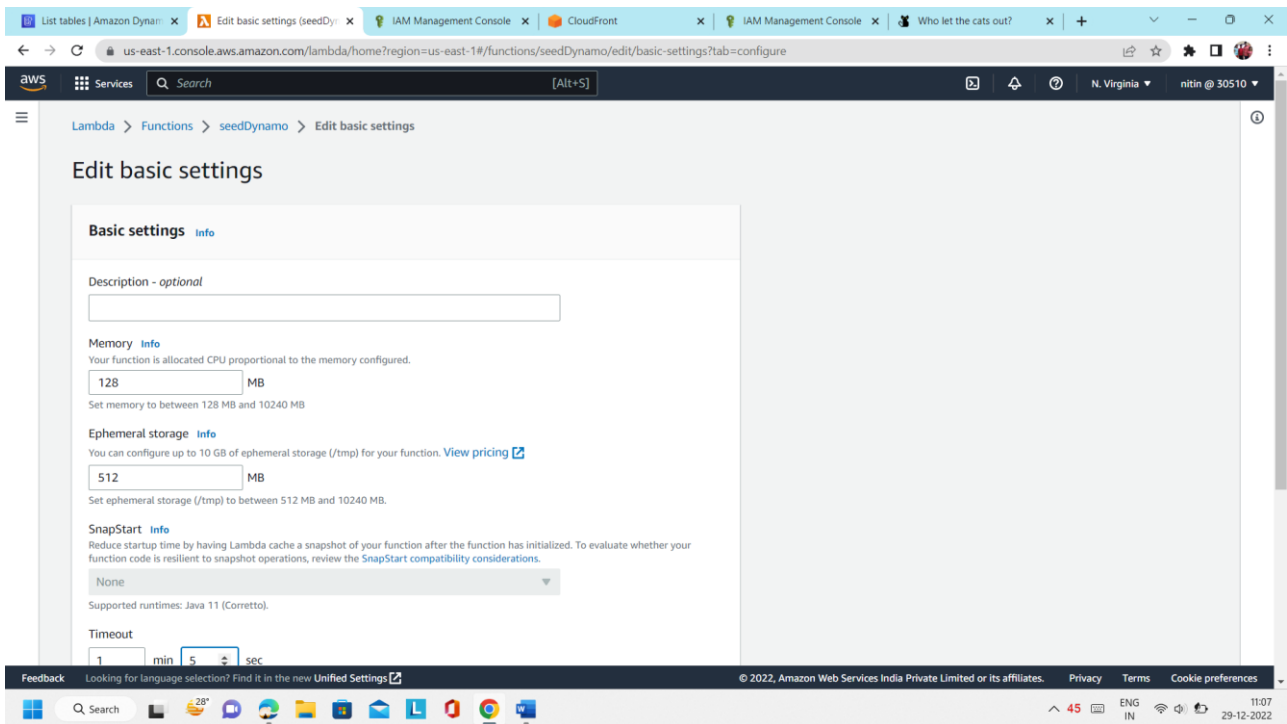
* Required

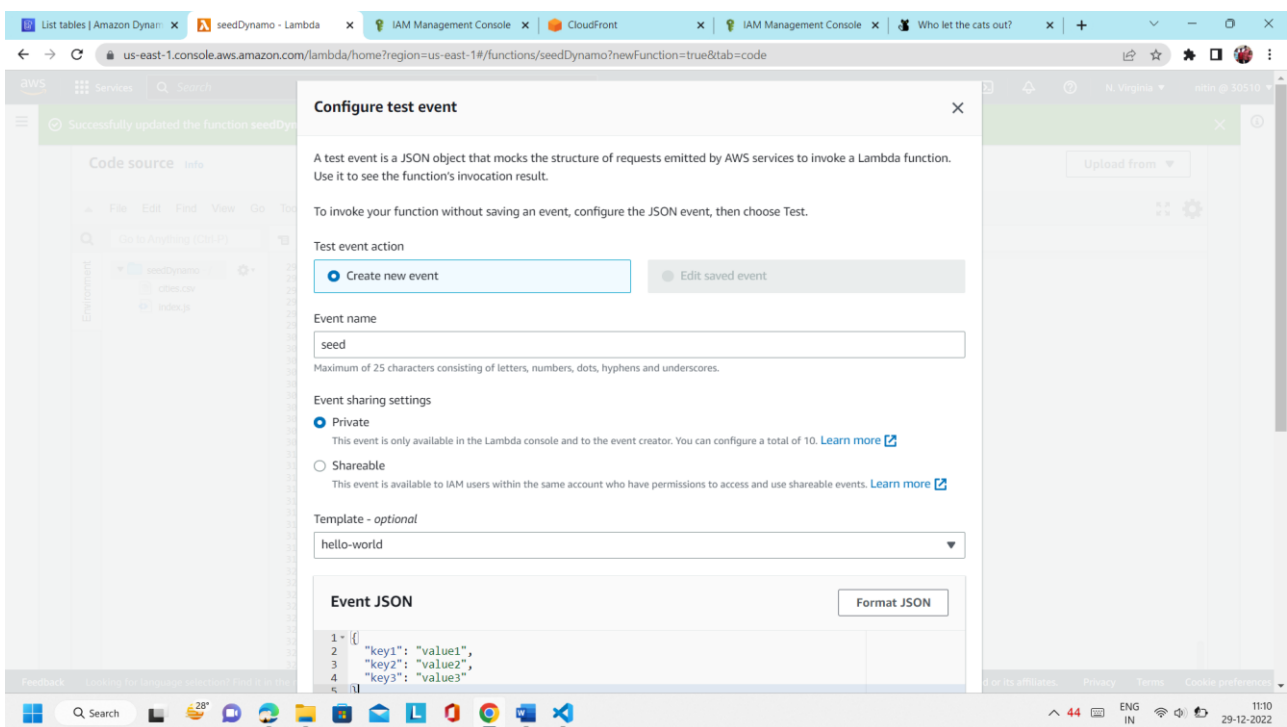
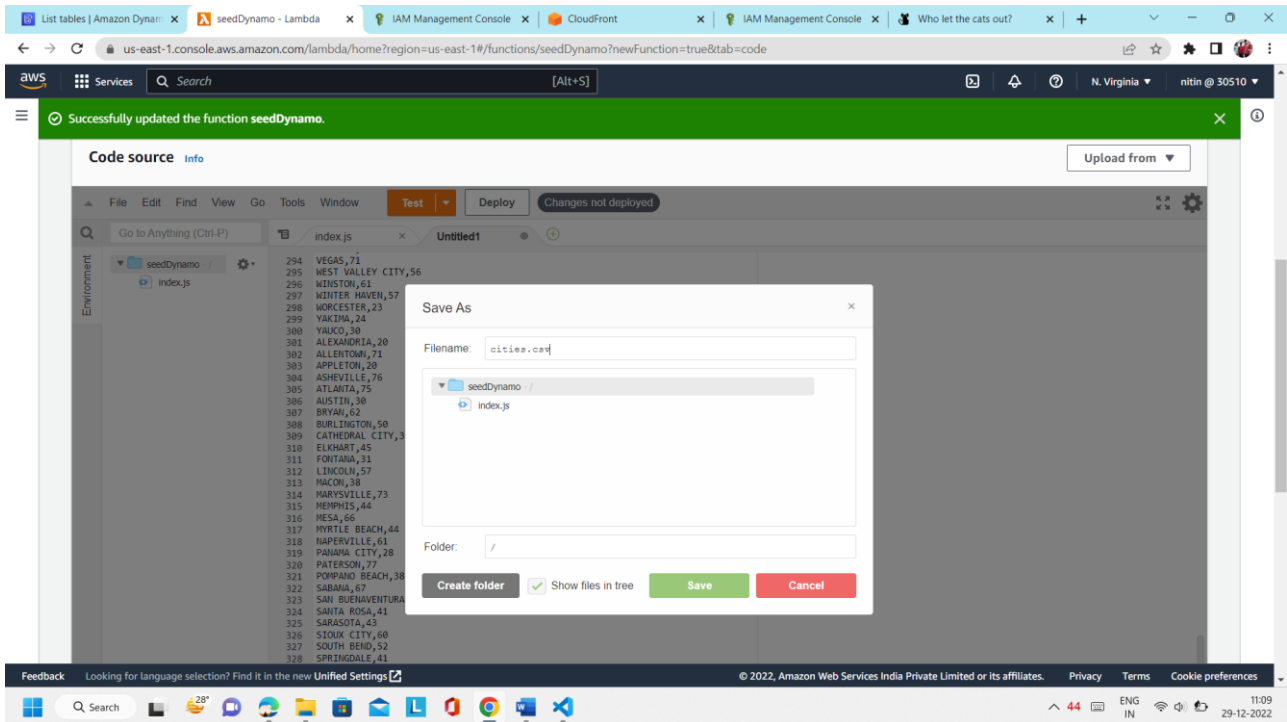
Cancel [Previous](#) [Create policy](#)

Feedback Looking for language selection? Find it in the new Unified Settings

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

47 ENG IN 10:54 29-12-2022





us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/seedDynamo?newFunction=true&tab=code

Successfully updated the function seedDynamo.

Code source

Upload from

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P)

Environment

- seedDynamo
 - cities.csv
 - index.js

index.js cities.csv Execution result

Execution results

Status: Succeeded Max memory used: 96 MB Time: 21118.21 ms

Test Event Name

seed

Response

"ok"

Function Logs

START RequestId: 2b3ee7b8-c224-4949-a9cd-2cbf0641a167 Version: \$LATEST
END RequestId: 2b3ee7b8-c224-4949-a9cd-2cbf0641a167
REPORT RequestId: 2b3ee7b8-c224-4949-a9cd-2cbf0641a167 Duration: 21118.21 ms Billed Duration: 21119 ms Memory Size: 128 MB Max Memory Used: 96 MB Init Duration: 166 ms

Request ID

2b3ee7b8-c224-4949-a9cd-2cbf0641a167

Feedback Looking for language selection? Find it in the new Unified Settings

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

44 ENG IN 11:11 29-12-2022

us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#capacity-settings?table=weather

Capacity calculator

Table capacity

Read capacity

Auto scaling [Info](#)
Dynamically adjusts provisioned throughput capacity on your behalf in response to actual traffic patterns.

☐ On
☒ Off

Provisioned capacity units

1

Write capacity

Auto scaling [Info](#)
Dynamically adjusts provisioned throughput capacity on your behalf in response to actual traffic patterns.

☐ On
☒ Off

Provisioned capacity units

1

Estimated read/write capacity

Feedback Looking for language selection? Find it in the new Unified Settings

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

43 ENG IN 11:13 29-12-2022

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

DynamoDB

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

weather

Scan Query

Select a table or index
Table - weather

Select attribute projection
All attributes

sc (Partition key)
ALTO

Filters

Run Reset

Completed. Read capacity units consumed: 0.5

Items returned (1)

Actions Create item

	sc	t
	ALTO	47

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions

AWS Lambda

Dashboard
Applications
[Functions](#)

▼ Additional resources
Code signing configurations
Layers
Replicas

▼ Related AWS resources
Step Functions state machines

Lambda > Functions

Functions (1/2) Last fetched 26 minutes ago

Filter by tags and attributes or search by keyword

Actions View details Test Delete

	Function name	Description	Package type	Runtime	Created
	get_weather	-	Zip	Node.js 12.x	36 minutes ago
<input checked="" type="checkbox"/>	seedDynamo	-	Zip	Node.js 12.x	4 minutes ago

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/get_weather?tab=code

Code source Info

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

Go to Anything (Ctrl-P)

Environment

get_weather

index.js

```
1 function handler(event, context, callback){
2   var
3   AWS = require("aws-sdk"),
4   DB = new AWS.DynamoDB({
5     apiVersion: "2012-08-10",
6     region: "us-east-1"
7   }),
8
9   city_str = event.city_str.toUpperCase(),
10  data = {
11    city_str: city_str,
12    temp_int_str: 72
13  },
14  response = {},
15  params = {
16    TableName: "weather",
17    KeyConditionExpression: "sc = :v1",
18    ExpressionAttributeValues: {
19      ":v1": {
20        S: city_str
21      }
22    },
23  };
24
25  DB.query(params, function(err, data){
26    var
27    item = {},
28    response = {
29      statusCode: 200,
30      headers: {},
31      body: null
32    };
33    if(err){
34      response.statusCode = 500;
35      console.log(err);
36      response.body = err;
37    } else {
```

49:63 JavaScript Spaces: 1

Feedback Looking for language selection? Find it in the new Unified Settings

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

Search 28°

42 ENG IN 11:17 29-12-2022

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/get_weather/edit/basic-settings?tab=configure

Set memory to between 128 MB and 10240 MB

Ephemeral storage Info

You can configure up to 10 GB of ephemeral storage (/tmp) for your function. [View pricing](#)

512 MB

Set ephemeral storage (/tmp) to between 512 MB and 10240 MB.

SnapStart Info

Reduce startup time by having Lambda cache a snapshot of your function after the function has initialized. To evaluate whether your function code is resilient to snapshot operations, review the [SnapStart compatibility considerations](#).

None

Supported runtimes: Java 11 (Corretto).

Timeout

0 min 15 sec

Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

☒ Use an existing role

☐ Create a new role from AWS policy templates

Existing role

Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

service-role/Get-Weather

[View the Get-Weather role on the IAM console.](#)

Cancel Save

Feedback Looking for language selection? Find it in the new Unified Settings

© 2022, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

Search 30°

42 ENG IN 11:18 29-12-2022

