

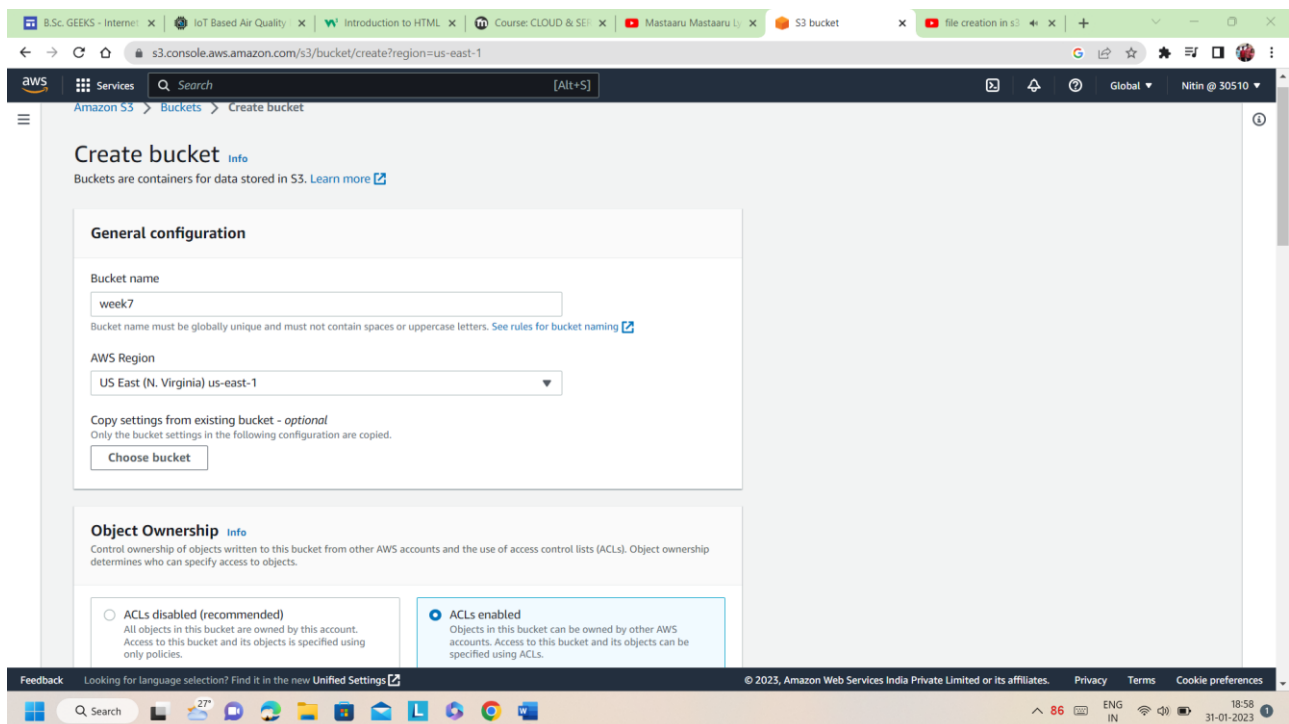
LAB-7

NAME: K.Nitin reddy

ID:2000030510

SECNO: 13

Create an Amazon S3 bucket and upload a test file to your new bucket. Your Lambda function retrieves information about this file when you test the function from the console.



s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1

Block all public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- ☐ Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- ☐ Block public access to buckets and objects granted through any access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.
- ☐ Block public access to buckets and objects granted through new public bucket or access point policies
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- ☐ Block public and cross-account access to buckets and objects through any public bucket or access point policies
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Turning off block all public access might result in this bucket and the objects within becoming public
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☒ I acknowledge that the current settings might result in this bucket and the objects within becoming public.

Upcoming permission changes to disable any Block Public Access setting
Starting in April 2023, to disable any Block Public Access setting when creating buckets by using the S3 console, you must have the s3:PutBucketPublicAccessBlock permission. [Learn more](#)

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us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/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.
week7
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.
Python 3.9

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

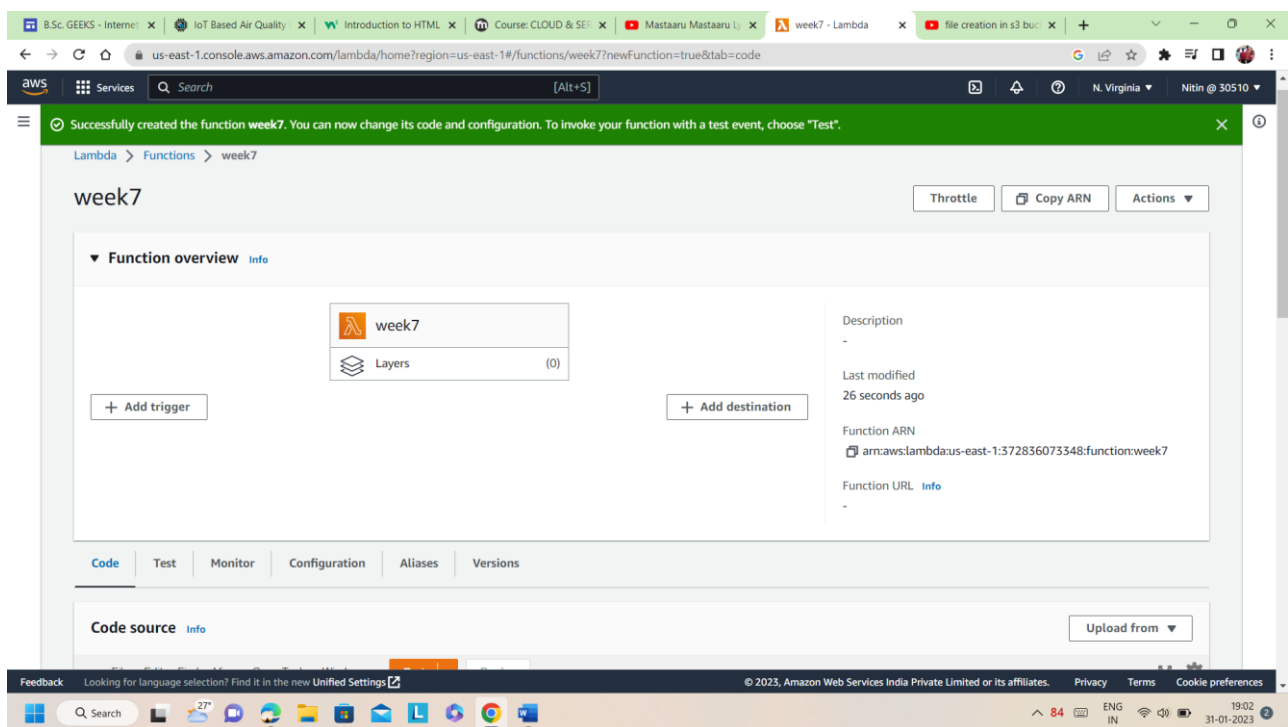
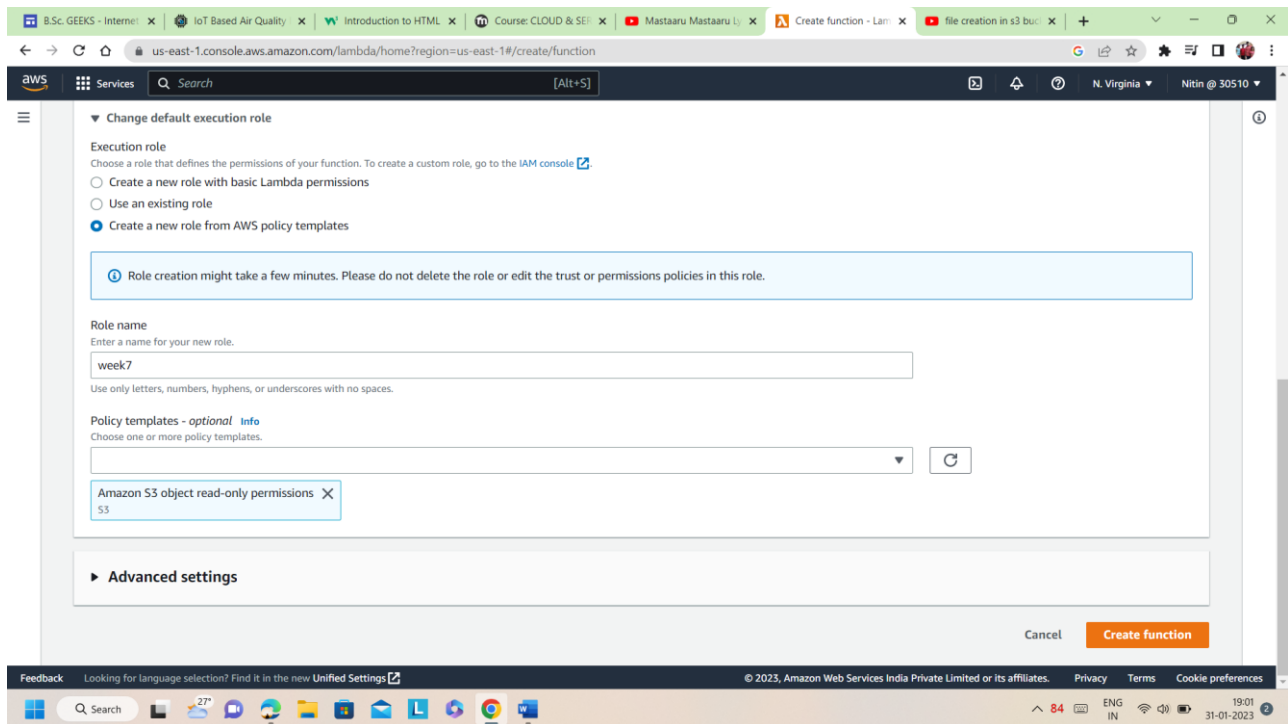
Permissions [Info](#)
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

▼ Change default execution role

Execution role

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us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/week7?newfunction=true&tab=configure

Successfully created the function week7. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

Code | Test | Monitor | **Configuration** | Aliases | Versions

General configuration

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

VPC

Monitoring and operations tools

Concurrency

Asynchronous invocation

Code signing

Database provider

Execution role [Edit](#)

Role name
[week7](#)

Resource summary [View role document](#)

Amazon CloudWatch Logs
3 actions, 2 resources

To view the resources and actions that your function has permission to access, choose a service.

By action | **By resource**

Resource	Actions
arn:aws:logs:us-east-1:372836073348:*	Allow: logs:CreateLogGroup

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us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/roles/details/week7?section=permissions

January 31, 2023, 19:03 (UTC+05:30)

Last activity
None

Maximum session duration
1 hour

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

Permissions policies (2) [Info](#)

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"/>	AWSLambdaBasicExecutionRole-72f8da2b-c1c0-4de0-977f-90e50feb17b3	Customer managed	
<input type="checkbox"/>	AWSLambdaS3ExecutionRole-82da6fcc-f798-401e-83f3-986c27c0ce52	Customer managed	

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](#)

[Add permissions](#)

[Attach policies](#)

[Create inline policy](#)

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us-east-1.console.aws.amazon.com/iam/home#/roles/week7\$createPolicy?step=edit

Visual editor JSON Import managed policy

Expand all Collapse all

S3 (64 actions) Clone Remove

Service S3

Actions List

ListAccessPoints	ListBucketMultiPartUploads	ListMultiRegionAccessPoints
ListAccessPointsForObjectLambda	ListBucketVersions	ListStorageLensConfigurations
ListAllMyBuckets	ListJobs	
ListBucket	ListMultiPartUploadParts	

Read

DescribeJob	GetBucketOwnershipControls	GetObject
DescribeMultiRegionAccessPointOperation	GetBucketPolicy	GetObjectAcl
GetAccelerateConfiguration	GetBucketPolicyStatus	GetObjectAttributes
GetAccessPoint	GetBucketPublicAccessBlock	GetObjectLegalHold
GetAccessPointConfigurationForObjectLambda	GetBucketRequestPayment	GetObjectRetention
GetAccessPointForObjectLambda	GetBucketTagging	GetObjectTagging
GetAccessPointPolicy	GetBucketVersioning	GetObjectTorrent
GetAccessPointPolicyForObjectLambda	GetBucketWebsite	GetObjectVersion
GetAccessPointPolicyStatus	GetEncryptionConfiguration	GetObjectVersionAcl
GetAccessPointPolicyStatusForObjectLambda	GetIntelligentTieringConfiguration	GetObjectVersionAttributes
GetAccountPublicAccessBlock	GetInventoryConfiguration	GetObjectVersionForReplication
GetAnalyticsConfiguration	GetJobTagging	GetObjectVersionTagging
GetBucketAcl	GetLifecycleConfiguration	GetObjectVersionTorrent
GetBucketCORS	GetMetricsConfiguration	GetReplicationConfiguration
GetBucketLocation	GetMultiRegionAccessPoint	GetStorageLensConfigurations
GetBucketLogging	GetMultiRegionAccessPointPolicy	GetStorageLensConfigurationTagging
GetBucketNotification	GetMultiRegionAccessPointPolicyStatus	GetStorageLensDashboard
GetBucketObjectLockConfiguration	GetMultiRegionAccessPointRoutes	

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us-east-1.console.aws.amazon.com/iam/home#/roles/week7\$createPolicy?step=edit

Visual editor JSON Import managed policy

Expand all Collapse all

S3 (64 actions) Clone Remove

Service S3

Actions List

ListAccessPoints	ListBucketMultiPartUploads	ListMultiRegionAccessPoints
ListAccessPointsForObjectLambda	ListBucketVersions	ListStorageLensConfigurations
ListAllMyBuckets	ListJobs	
ListBucket	ListMultiPartUploadParts	

Read

DescribeJob	GetBucketOwnershipControls	GetObject
DescribeMultiRegionAccessPointOperation	GetBucketPolicy	GetObjectAcl
GetAccelerateConfiguration	GetBucketPolicyStatus	GetObjectAttributes
GetAccessPoint	GetBucketPublicAccessBlock	GetObjectLegalHold
GetAccessPointConfigurationForObjectLambda	GetBucketRequestPayment	GetObjectRetention
GetAccessPointForObjectLambda	GetBucketTagging	GetObjectTagging
GetAccessPointPolicy	GetBucketVersioning	GetObjectTorrent
GetAccessPointPolicyForObjectLambda	GetBucketWebsite	GetObjectVersion
GetAccessPointPolicyStatus	GetEncryptionConfiguration	GetObjectVersionAcl
GetAccessPointPolicyStatusForObjectLambda	GetIntelligentTieringConfiguration	GetObjectVersionAttributes
GetAccountPublicAccessBlock	GetInventoryConfiguration	GetObjectVersionForReplication
GetAnalyticsConfiguration	GetJobTagging	GetObjectVersionTagging
GetBucketAcl	GetLifecycleConfiguration	GetObjectVersionTorrent
GetBucketCORS	GetMetricsConfiguration	GetReplicationConfiguration
GetBucketLocation	GetMultiRegionAccessPoint	GetStorageLensConfigurations
GetBucketLogging	GetMultiRegionAccessPointPolicy	GetStorageLensConfigurationTagging
GetBucketNotification	GetMultiRegionAccessPointPolicyStatus	GetStorageLensDashboard
GetBucketObjectLockConfiguration	GetMultiRegionAccessPointRoutes	

Write

PutObject

Resources

Specific

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: 1,937 of 10,240.
The current character count includes character for all inline policies in the role: week7.

Cancel Review policy

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us-east-1.console.aws.amazon.com/iam/home#/roles/week7/createPolicy?step=review

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

Filter

Service	Access level	Resource	Request condition
Allow (1 of 364 services) Show remaining 363			
S3	Full: List, Read Limited: Write	All resources	None

* Required

Cancel Previous Create policy

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us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/add/relation?focus=aws%2Flambda&target=arn%3Aaws%3Alambda%3Aus-east-1%3A372836073348%...

Bucket

Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.

Bucket region: us-east-1

Event type

Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

All object create events

Prefix - optional

Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.

Suffix - optional

Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.

Recursive invocation

If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. [Learn more](#)

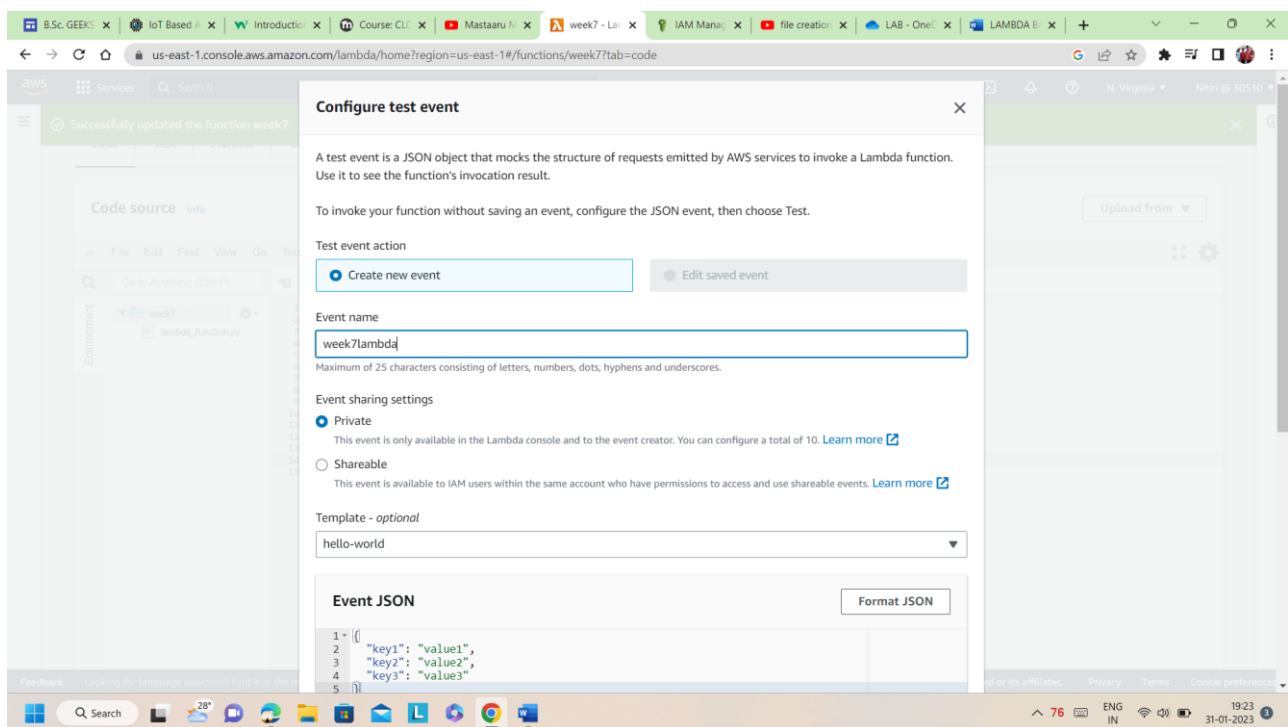
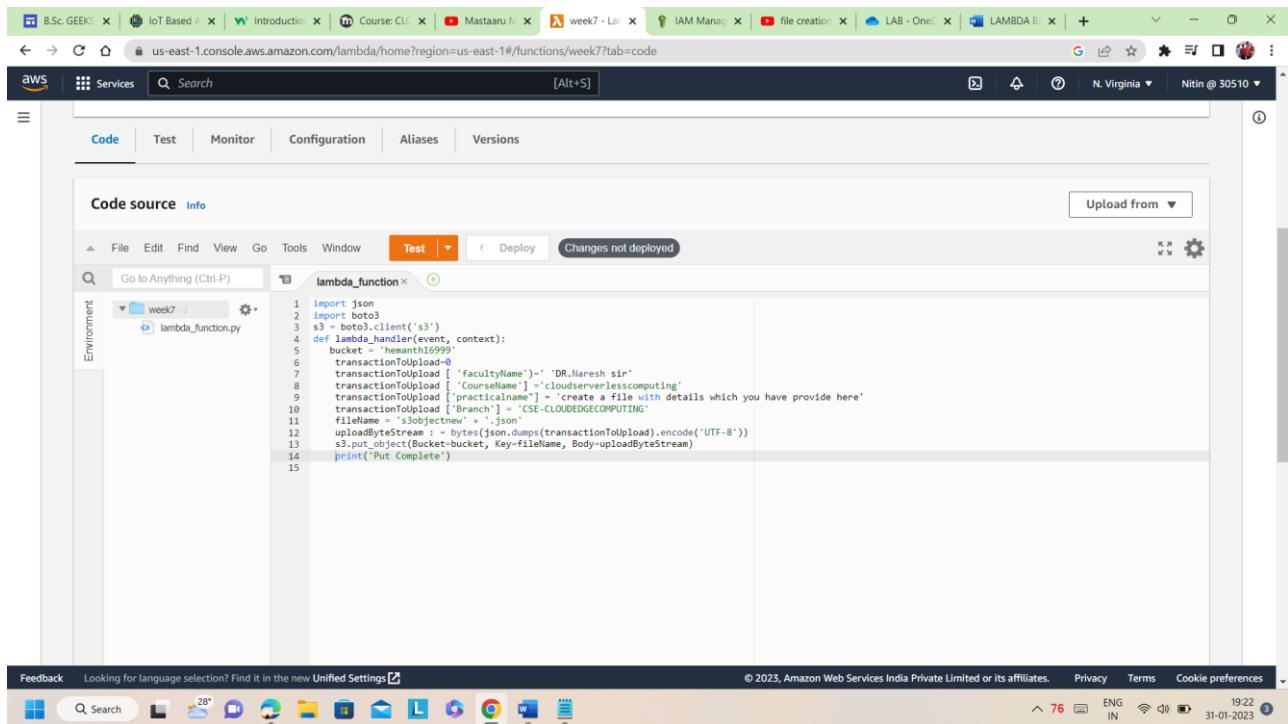
☒ I acknowledge that using the same S3 bucket for both input and output is not recommended and that this configuration can cause recursive invocations, increased Lambda usage, and increased costs.

Lambda will add the necessary permissions for AWS S3 to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

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Services

Search

[Alt+F3]

Windows

Admin@07232

Successfully updated the function week7.

Code

Test

Monitor

Configuration

Analytics

Versions

Code source

Info

Upload from

File

Edit

Find

View

Go

Tools

Window

Test

Deploy

Go to Anything (Ctrl-P)

lambda_function

Execution result

Environment

week7

lambda_function.py

Execution results

Status: Succeeded

Max memory used: 70 MB

Time: 247.82 ms

Test Event Name

week7

Response

null

Function Logs

START RequestId: 2ab90edb-c1e0-4a36-a70b-695b40a9c096 Version: \$LATEST

Put Complete

END RequestId: 2ab90edb-c1e0-4a36-a70b-695b40a9c096

REPORT RequestId: 2ab90edb-c1e0-4a36-a70b-695b40a9c096 Duration: 247.82 ms Billed Duration: 248 ms Memory Size: 128 MB Max Memory Used: 70 MB Init

Request ID

2ab90edb-c1e0-4a36-a70b-695b40a9c096

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