

- Amazon S3
- Buckets
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3
- Block Public Access settings for this account
- Storage Lens
- Dashboards
- AWS Organizations settings
- Feature spotlight 3
- AWS Marketplace for S3

Amazon S3 > Buckets > schema-bucket-yesterdaytoday

schema-bucket-yesterdaytoday Info

Objects Properties Permissions Metrics Management Access Points

Objects (2)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

↺

📄 Copy S3 URI

📄 Copy URL

📄 Download

🔗 Open

Delete

Actions ▼

Create folder

📤 Upload

🔍 Find objects by prefix

< 1 > ⚙️

<input type="checkbox"/>	Name ▲	Type ▼	Last modified ▼	Size ▼	Storage class ▼
<input type="checkbox"/>	📄 schema_today.csv	csv	February 14, 2023, 13:19:59 (UTC+05:30)	1.8 KB	Standard
<input type="checkbox"/>	📄 schema_yesterday.csv	csv	February 14, 2023, 13:19:58 (UTC+05:30)	1.6 KB	Standard

Activities

Google Chrome

Feb 14 16:52

100 %

Inbox (103) - eshan.pande x

RDS Management Console x

schema-bucket-yesterday x

messageSNS - Lambda x

SNS — Boto3 Docs 1.26.6 x

Simple Notification Service x

+

us-east-1.console.aws.amazon.com/sns/v3/home?region=us-east-1#/topics

WhatsApp

LMS disprz

josh mail

Josh Intranet

Training Sche...

AWS

new_user_cre...

aws

Services

Search [Alt+S]

N. Virginia

admin @ 4612-9245-7774

Amazon SNS

Dashboard

Topics

Subscriptions

Mobile

Push notifications

Text messaging (SMS)

Origination numbers

Amazon SNS > Topics

Topics (1)

Search

EditDeletePublish messageCreate topic

< 1 > ⚙

	Name	Type	ARN
<input type="radio"/>	changesMsg	Standard	arn:aws:sns:us-east-1:461292457774:changesMsg

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Language

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Subscriptions

Origination numbers

[Edit](#) [Delete](#) [Publish message](#)

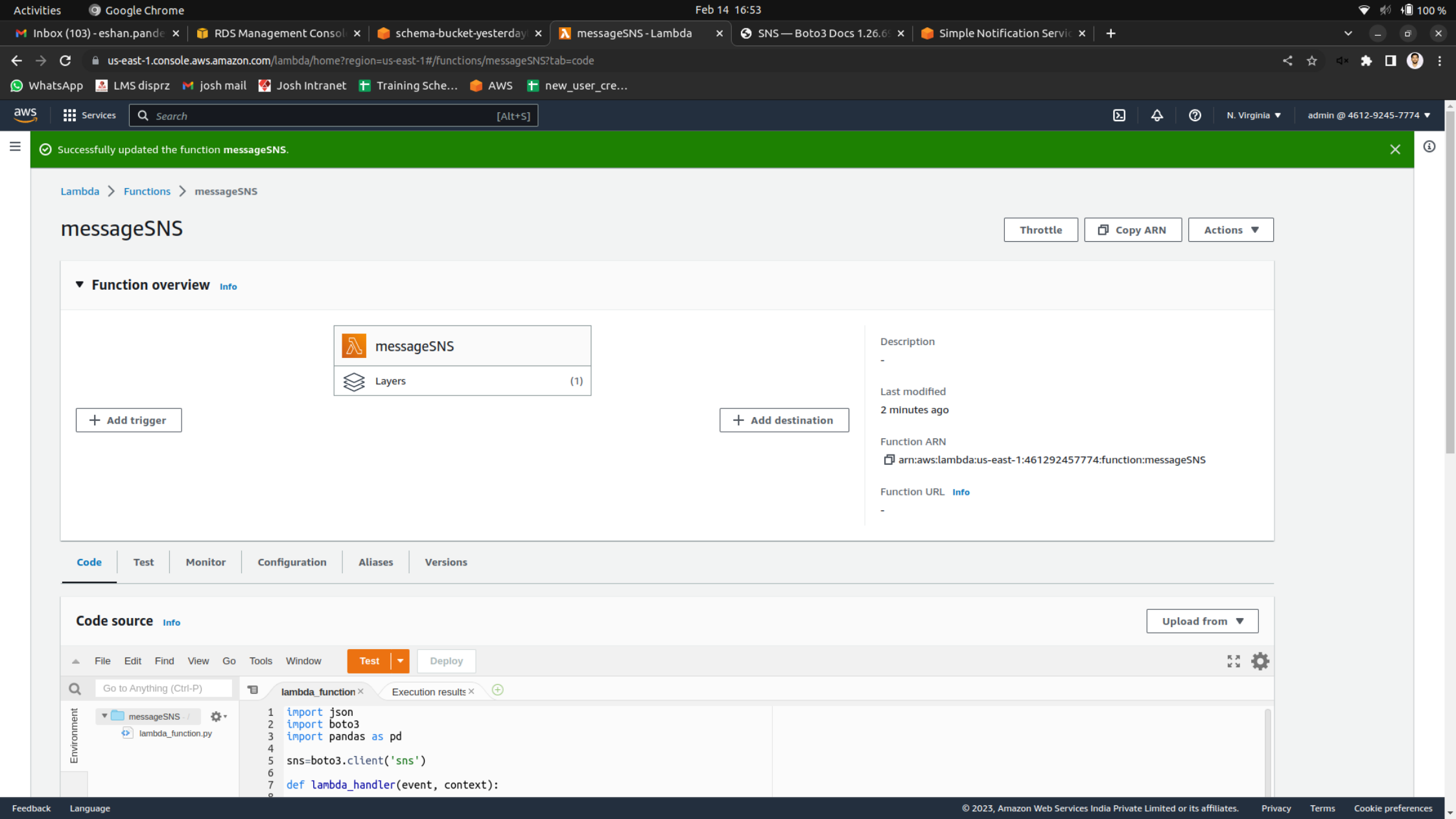
Topic owner
461292457774

Subscriptions	Access policy	Data protection policy	Delivery retry policy (HTTP/S)	Delivery status logging	Encryption	Tags	Integrations
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[Edit](#)
[Delete](#)
[Request confirmation](#)
[Confirm subscription](#)
[Create subscription](#)

< 1 > ⚙

	ID	Endpoint	Status	Protocol
	7a26d934-e3c2-4fda-adc3-7fb2e9f2e2c7	spice.eshan@gmail.com	Confirmed	EMAIL
	e22308f1-74c5-4d12-a12c-b5072f3a0356	supriya.mahadik@joshsoftware.com	Confirmed	EMAIL



Activities

Google Chrome

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Inbox (103) - eshan.pande x RDS Management Console x schema-bucket-yesterday x messageSNS - Lambda x SNS — Boto3 Docs 1.26.6 x Simple Notification Service x

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

WhatsApp LMS disprz josh mail Josh Intranet Training Sche... AWS new_user_cre...

aws Services Search [Alt+S]

N. Virginia admin @ 4612-9245-7774

Successfully updated the function messageSNS.

File Edit Find View Go Tools Window Test Deploy

Go to Anything (Ctrl-P)

Environment

messageSNS / lambda_function.py

```
1 import json
2 import boto3
3 import pandas as pd
4
5 sns=boto3.client('sns')]
6
7 def lambda_handler(event, context):
8
9     s3=boto3.client('s3')
10
11     r1=s3.get_object(Bucket='schema-bucket-yesterdaytoday',Key="schema_yesterday.csv")
12     r2=s3.get_object(Bucket='schema-bucket-yesterdaytoday',Key="schema_today.csv")
13
14
15     f1=pd.read_csv(r1['Body'])
16     f2=pd.read_csv(r2['Body'])
17
18     df1=pd.DataFrame(f1)
19     df2=pd.DataFrame(f2)
20
21     tableNamesY=set(df1.table_name)
22     tableNamesT=set(df2.table_name)
23
24     addedtablenames=list(tableNamesT-tableNamesY)
25     deletedtablenames=list(tableNamesY-tableNamesT)
26
27     #till now we have table names added or removed
28     # print(addedtablenames)
29     # print(deletedtablenames)
30
31     #now for added or removed columns
32     df = pd.merge(df1, df2, on='column_name', how='outer') #combined/outer-joined data-frame
33
34     addedCols=dict()
35     deletedCols=dict()
36
37     for currTable in tableNamesT.intersection(tableNamesY):
38
39         d1=df[df['table_name_x']==currTable]
40         deleted=list(d1[d1['table_name_y'].isna()][ 'column_name'].unique())
41         if len(deleted)!=0:
42             deletedCols[currTable]=deleted
43
44
45         d2=df[df['table_name_y']==currTable]
46         added=list(d2[d2['table_name_x'].isna()][ 'column_name'].unique())
47         if len(added)!=0:
```

5:24 Python Spaces: 4

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100%

Inbox (103) - eshan.pande x

RDS Management Console x

schema-bucket-yesterday x

Simple Notification Service x

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

Screenshot captured

You can paste the image from the clipboard.

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Go to Anything (Ctrl-P)

lambda_function x

Execution results x

Environment

messageSNS

lambda_function.py

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added=list(d2[d2['table_name_x'].isna()]['column_name'].unique())

if len(added)!=0:

addedCols[currTable]=added

print(addedCols)

print(deletedCols)

addedColString=""

deletedColString=""

for k,v in addedCols.items():

st1=k+' | '+'', '.join(v)+'\n'

addedColString=addedColString+st1

for k,v in deletedCols.items():

st1=k+' | '+'', '.join(v)+'\n'

deletedColString=deletedColString+st1

msgAddTable=f'''

New table detected in source database

Database Name: "source"

Table Name: {"", ".join(addedtablenames)}

'''

msgAddCol=f'''

New column(s) detected in source database

Database Name: "source"

Table Name | Column Name

{addedColString}

'''

msgRemCol=f'''

Column(s) does not exist or removed from source database

Database Name: "source"

Table Name | Column Name

{deletedColString}

'''

msgRemTable=f'''

Table(s) does not exist or removed from source database

Database Name: "source"

Table Name: {"", ".join(deletedtablenames)}

'''

5:24

Python

Spaces: 4

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

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messageSNS

lambda_function.py

Environment

lambda_function

Execution results

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Table(s) does not exist or removed from source database

Database Name: "source"

Table Name: {"", ".join(deletedtablenames)}

'''

if len(addedtablenames)==0:

msgAddTable=""

if len(deletedtablenames)==0:

msgRemTable=""

if len(addedCols)==0:

msgAddCol=""

if len(deletedCols)==0:

msgRemCol=""

if (len(addedtablenames)==0 and len(deletedtablenames)==0 and len(addedCols)==0 and len(deletedCols)==0):

message=""

else:

message=f'''

Database schema changes detected!

{msgAddTable}

{msgAddCol}

{msgRemCol}

{msgRemTable}

'''

resp=sns.publish(TargetArn='arn:aws:sns:us-east-1:461292457774:changesMsg',Message=message)

5:24

Python

Spaces: 4

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26

27#till now we have table names added or removed

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29# print(deletedtablenames)

30

31#now for added or removed columns

32df = pd.merge(df1, df2, on='column_name', how='outer') #combined/outer-joined data-frame

33

5:24 Python Spaces: 4

Code properties

Info

Package size

1.0 kB

SHA256 hash

2DcGUf8a7B+e4W3pgQqGHbyAxQXHsx1vjf91ddY1/ak=

Last modified

February 14, 2023 at 04:22 PM GMT+5:30

Runtime settings

Info

Edit

Edit runtime management configuration

Runtime

Python 3.9

Handler

Info

lambda_function.lambda_handler

Architecture

Info

x86_64

Runtime management configuration

Layers

Info

Edit

Add a layer

Merge order

Name

Layer version

Compatible runtimes

Compatible architectures

Version ARN

1

AWSSDKPandas-Python39

3

python3.9

x86_64

arn:aws:lambda:us-east-1:336392948345:layer:AWSSDKPandas-Python39:3

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Search mail



Compose

Inbox 12,531

Starred

Snoozed

Important

Sent

Drafts 12

Categories

Social 7,593

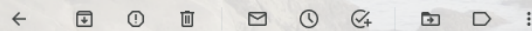
Updates 12,406

Forums

Promotions 8,594

More

Labels +



1 of 13,217 < >

AWS Notification Message

**AWS Notifications** <no-reply@sns.amazonaws.com>
to me ▾

4:51 PM (3 minutes ago) ☆ ↶ ⋮

Database schema changes detected!

New table detected in source database

Database Name: "source"

Table Name: db_main_lead_info

New column(s) detected in source database

Database Name: "source"

Table Name | Column Name

db_main_fr_data | is_fr_accepted, is_fr_rejected

dbmain_employee_details | fls_address

Column(s) does not exist or removed from source database

Database Name: "source"

Table Name | Column Name

db_main_api_key | name, org_id, scope, secret, updated_at, updated_by

dbmain_employee_details | fls_branch_code

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