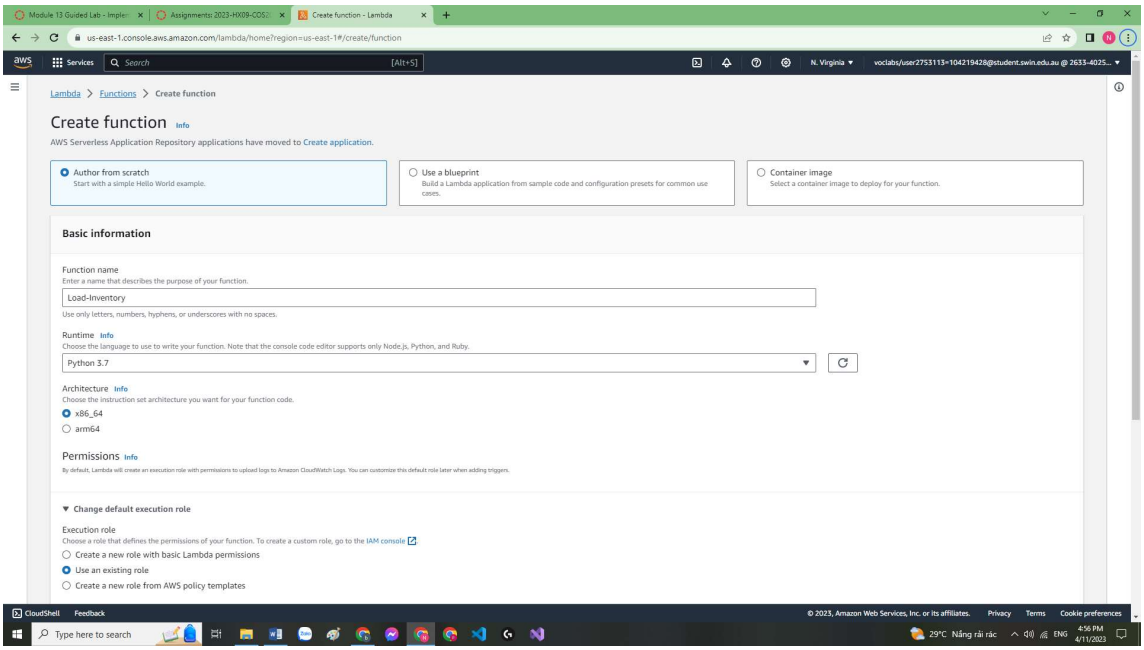
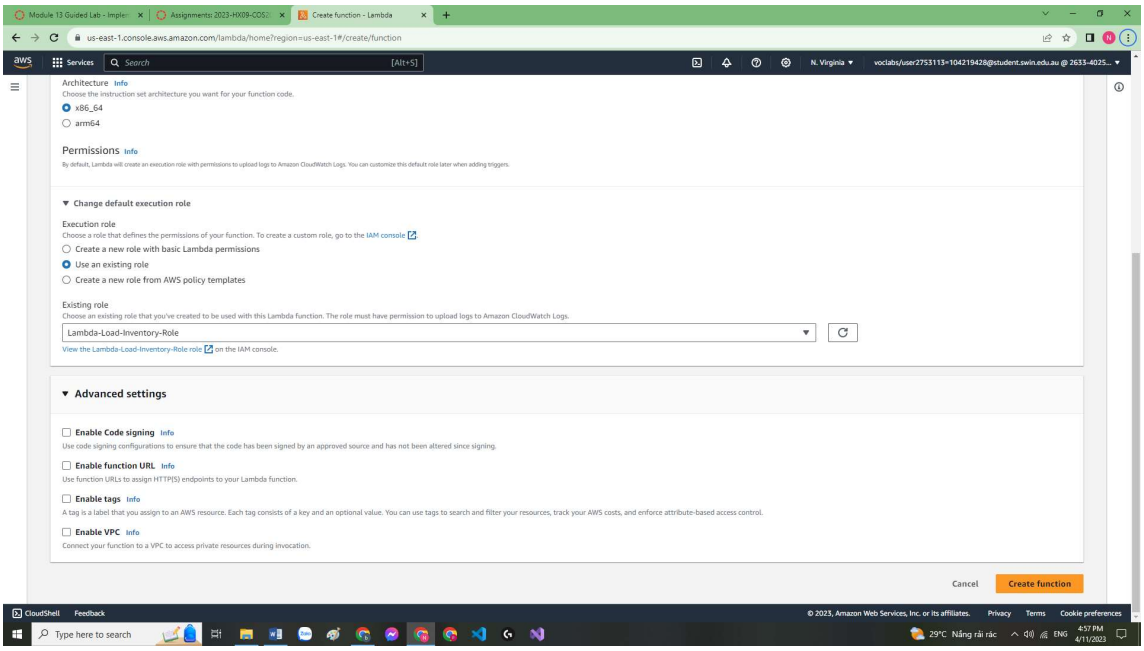
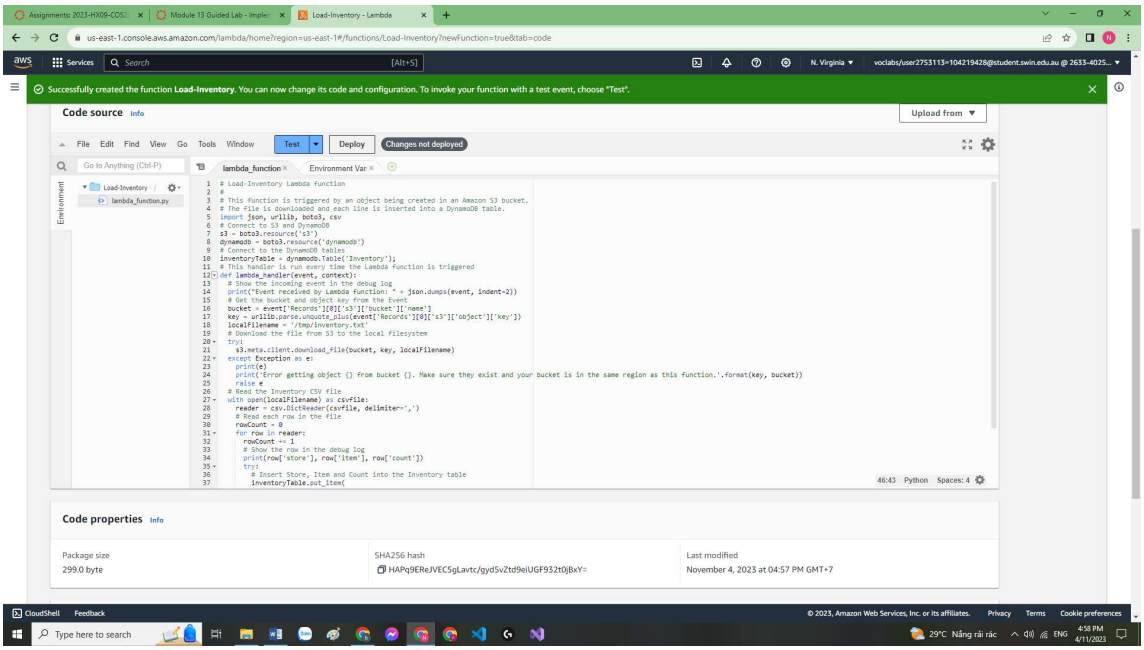
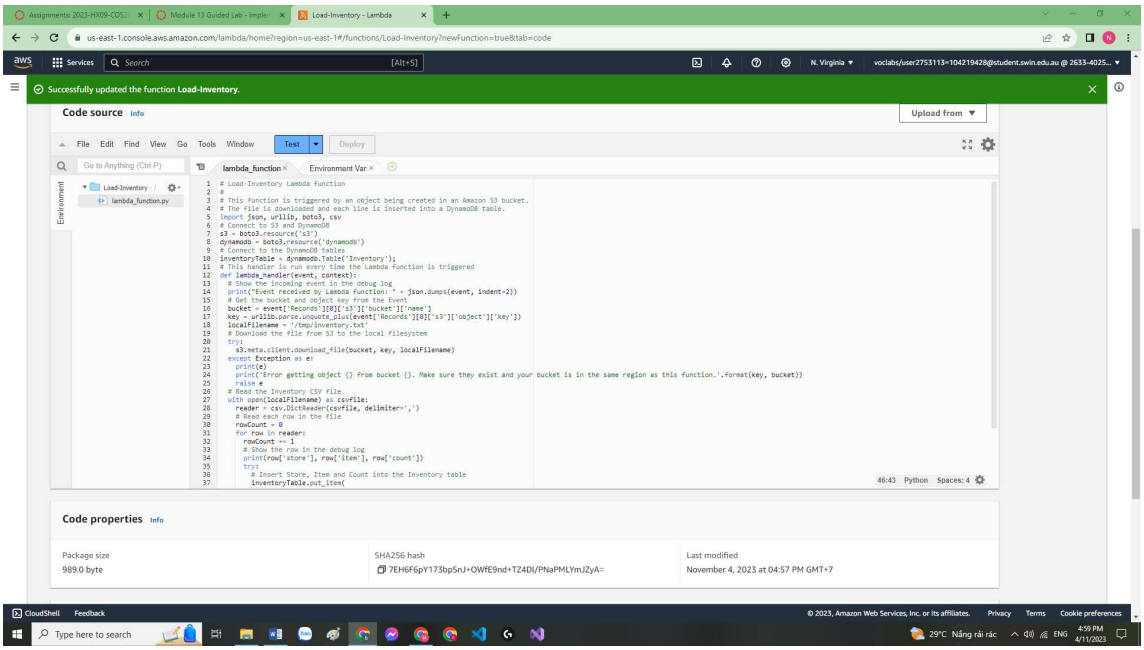
Step 1: Lambda function creation



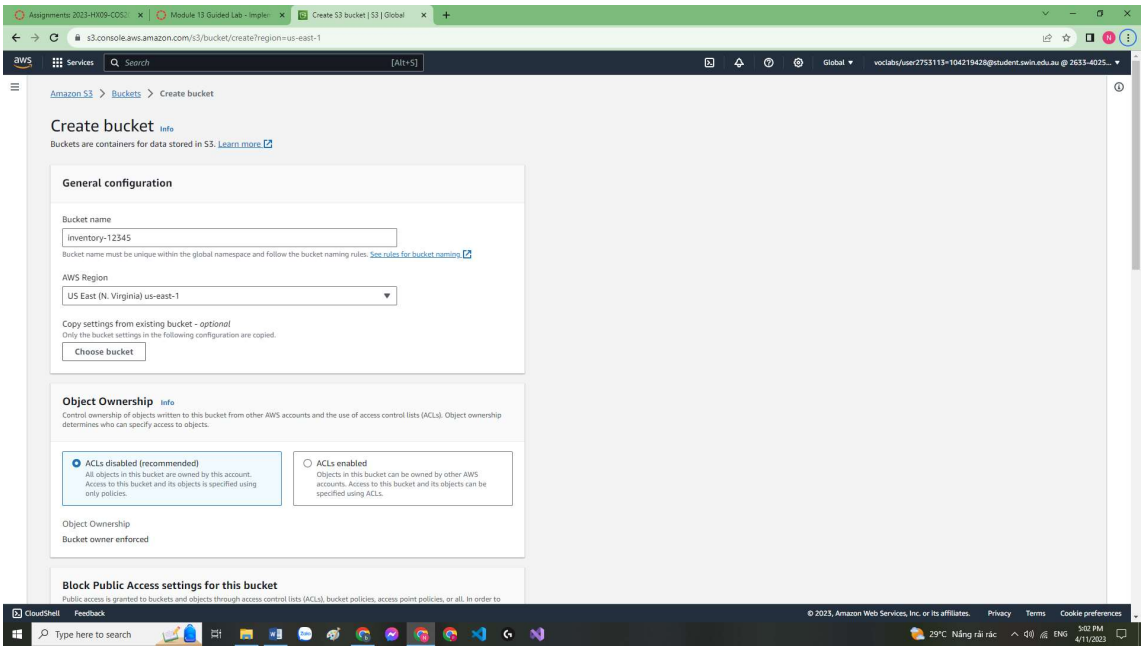


Step 2: Copy paste the code provided into the code environment

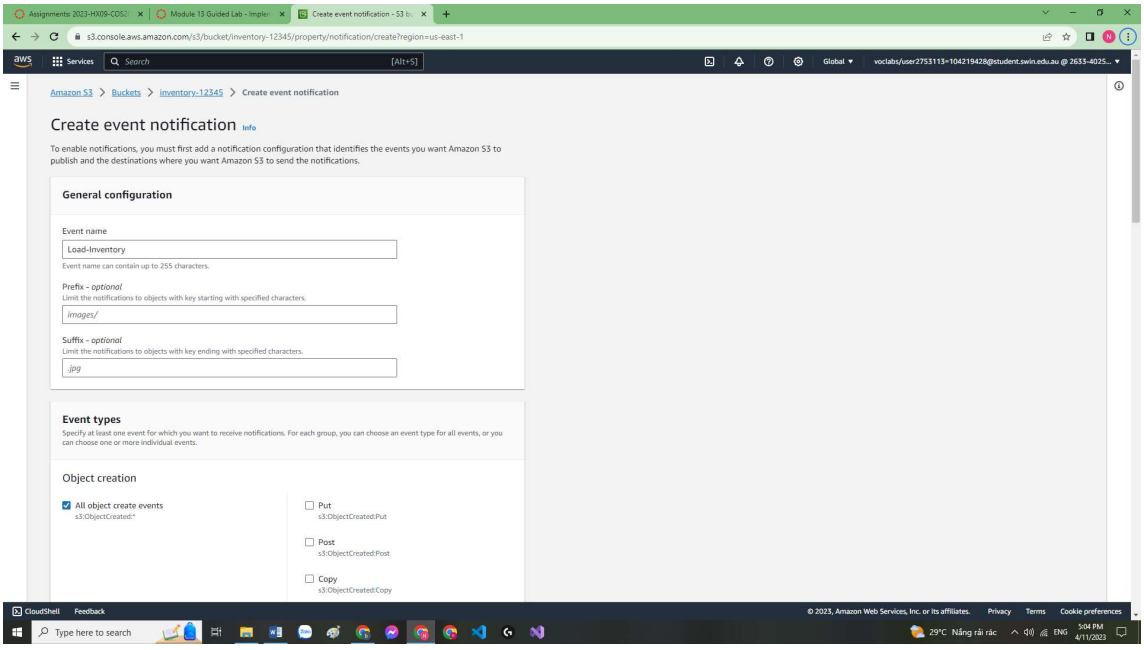


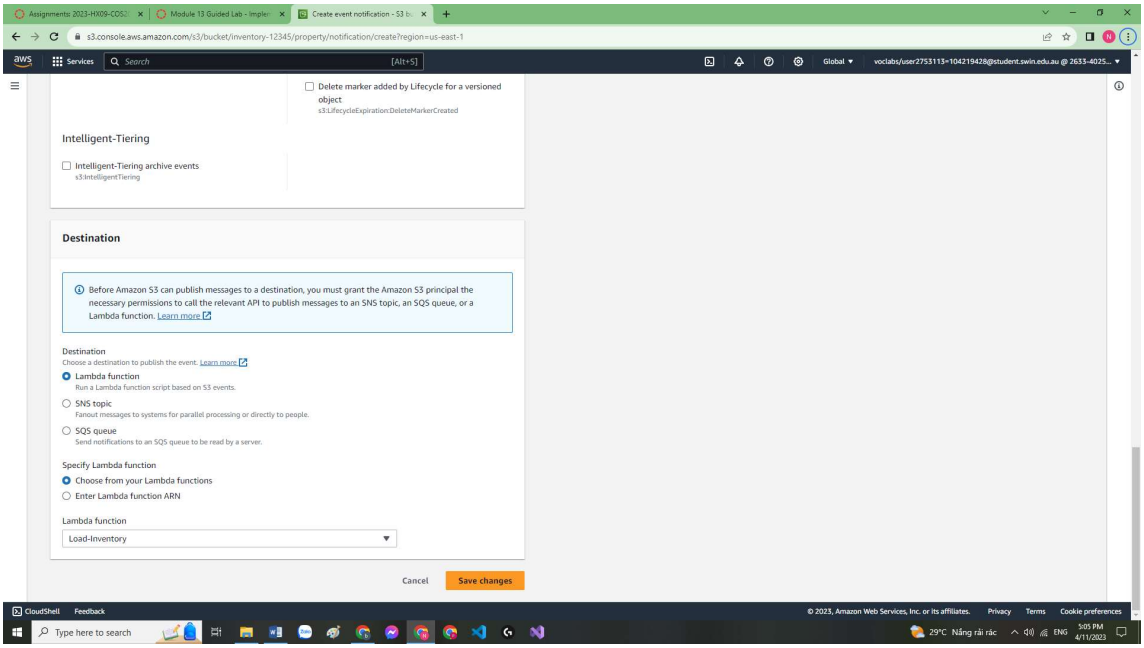


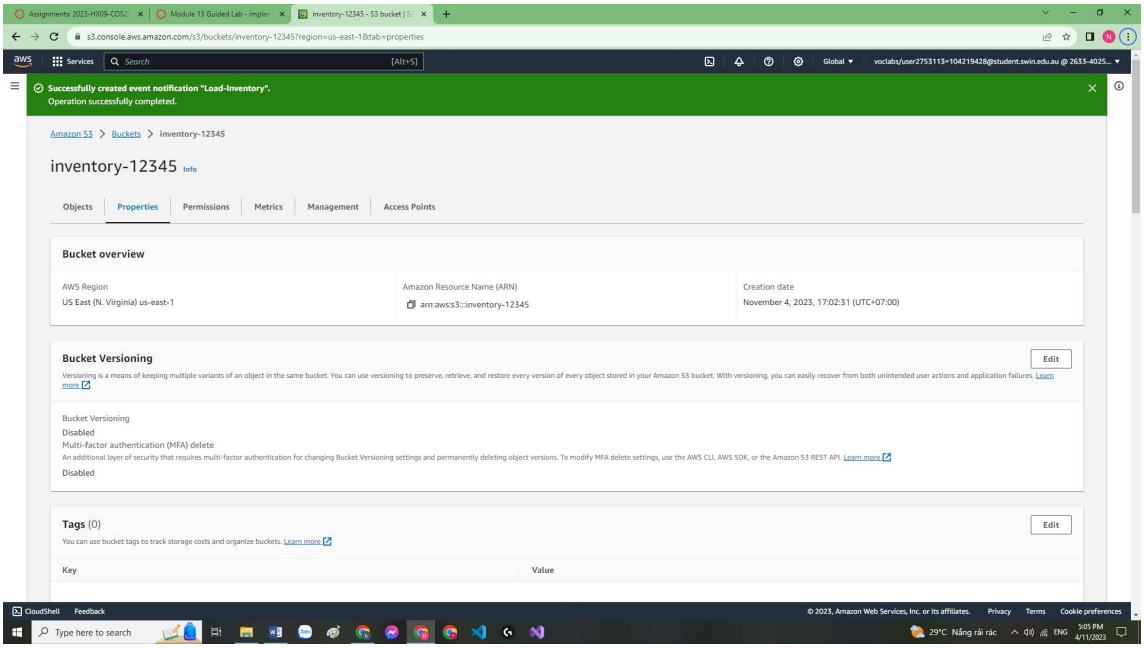
Step 2: Create S3 bucket



2.2: create eventnotification

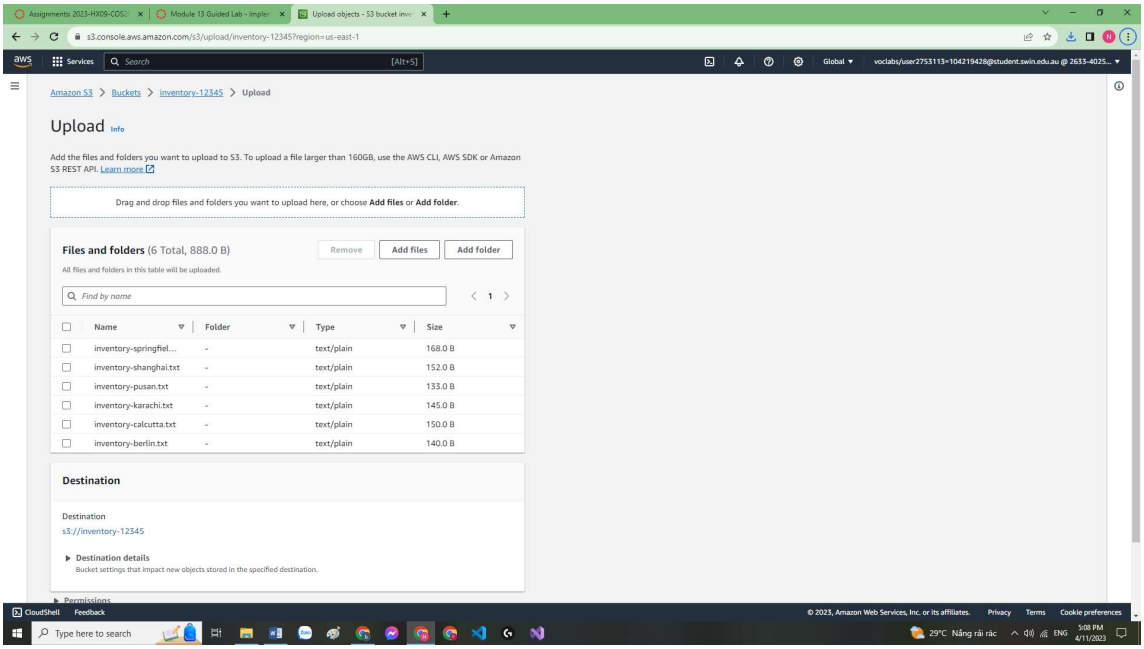


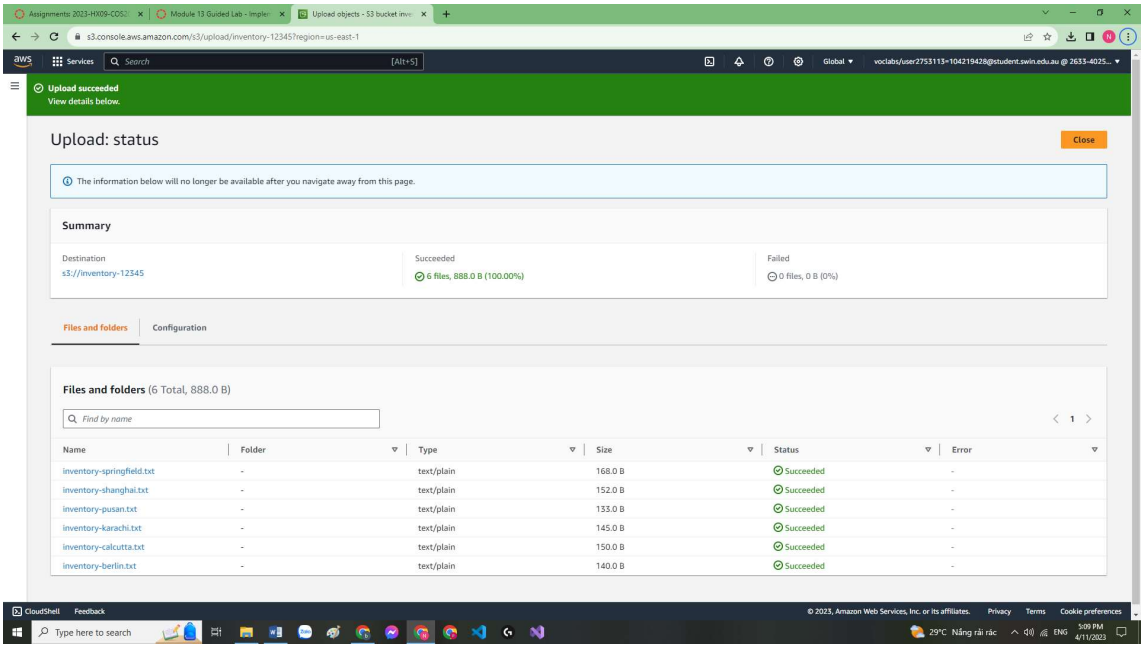

Delete marker added by Lifecycle for a versioned object
s3:LifecycleExpiration:DeleteMarkerCreated
Intelligent-Tiering
Intelligent-Tiering archive events
s3:IntelligentTiering
Destination
Before Amazon S3 can publish messages to a destination, you must grant the Amazon S3 principal the necessary permissions to call the relevant API to publish messages to an SNS topic, an SQS queue, or a Lambda function. Learn more
Destination
Choose a destination to publish the event. Learn more
Lambda function
Run a Lambda function script based on S3 events.
SNS topic
Fanout messages to systems for parallel processing or directly to people.
SQS queue
Send notifications to an SQS queue to be read by a server.
Specify Lambda function
Choose from your Lambda functions
Enter Lambda function ARN
Lambda function
Load-Inventory
Cancel
Save changes

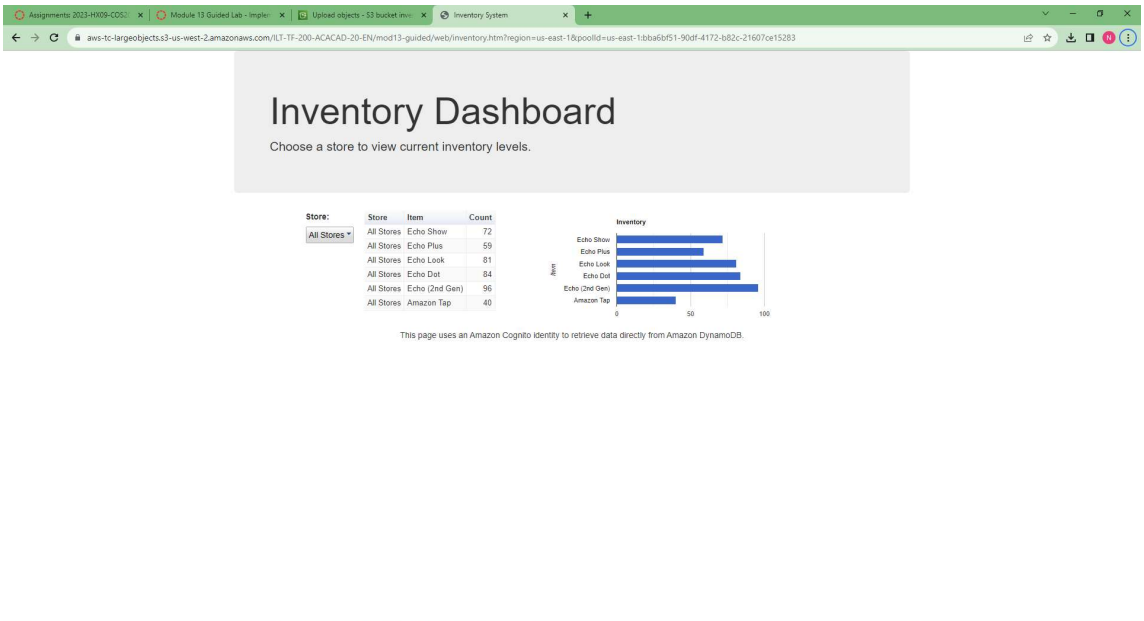

Successfully created event notification "Load-Inventory".
Operation successfully completed.
Amazon S3 > Buckets > inventory-12345
inventory-12345 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Bucket overview
AWS Region
US East (N. Virginia) us-east-1
Amazon Resource Name (ARN)
arn:aws:s3:::inventory-12345
Creation date
November 4, 2023, 17:02:31 (UTC+07:00)
Bucket Versioning
Edit
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more
Bucket Versioning
Disabled
Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. Learn more
Disabled
Tags (0)
Edit
You can use bucket tags to track storage costs and organize buckets. Learn more
Key
Value

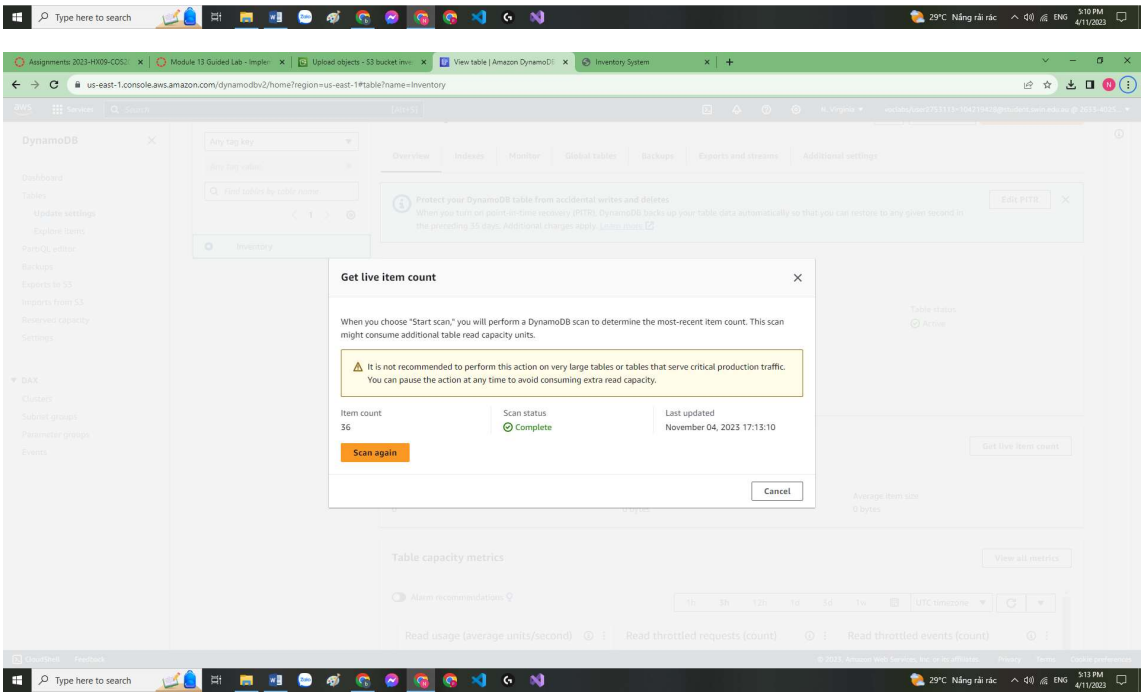
2.3: tetsing

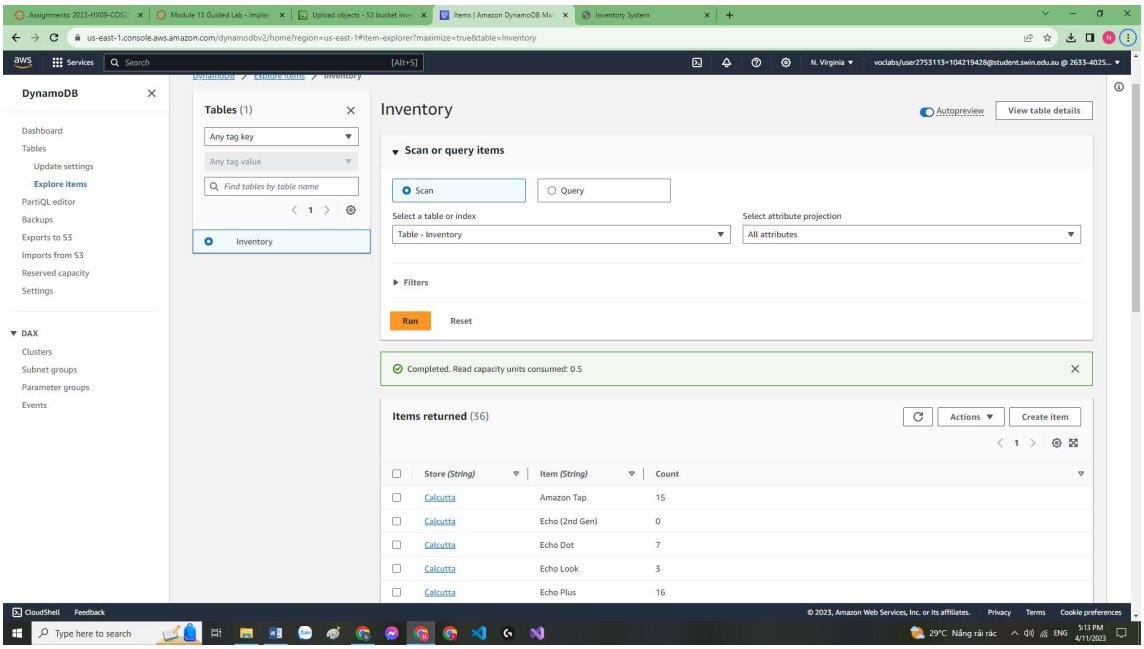
Uploading the inventory file to S3



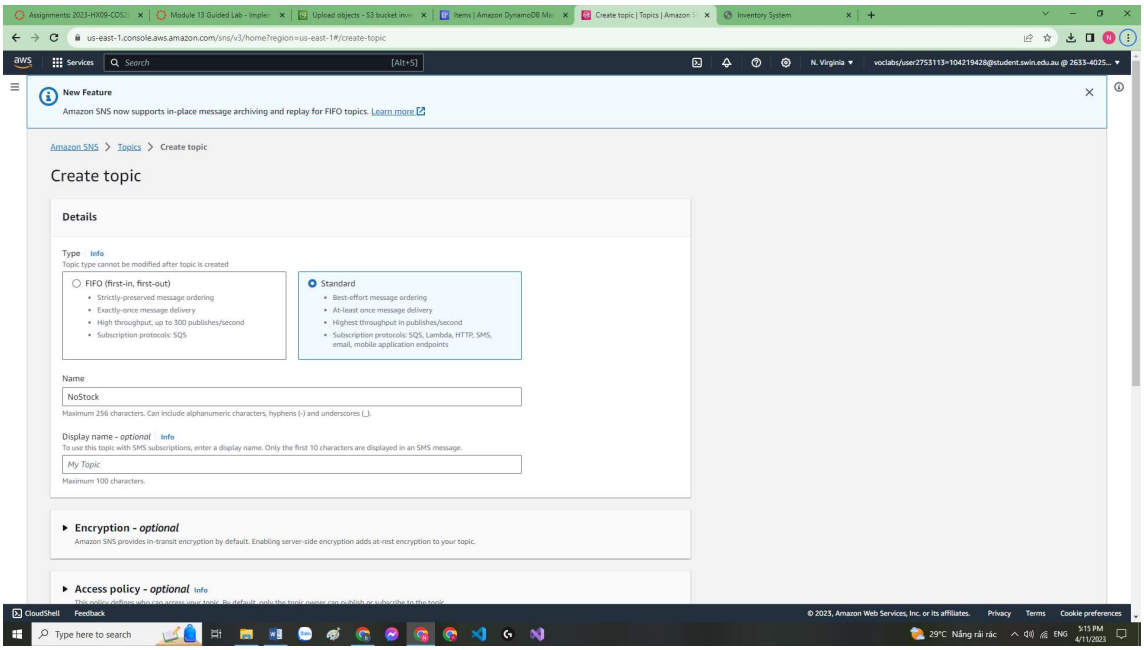


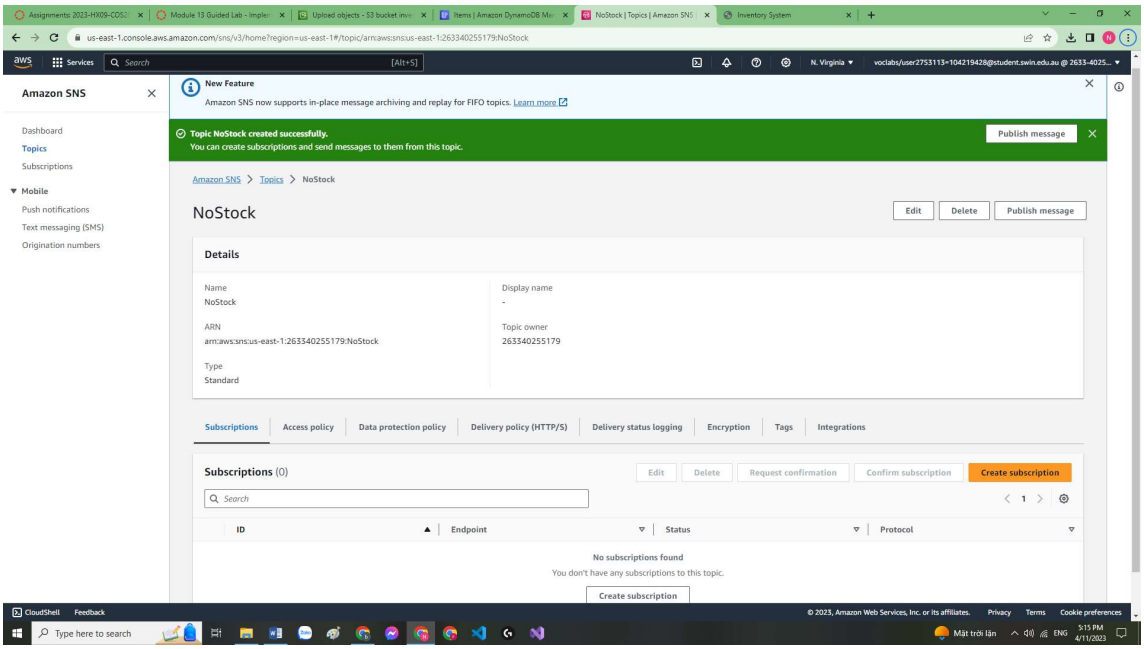

Inventory Dashboard
Choose a store to view current inventory levels.
Store:
All Stores
Store Item Count
All Stores Echo Show 72
All Stores Echo Plus 59
All Stores Echo Look 81
All Stores Echo Dot 84
All Stores Echo (2nd Gen) 96
All Stores Amazon Tap 40
Inventory
Item
Echo Show
Echo Plus
Echo Look
Echo Dot
Echo (2nd Gen)
Amazon Tap
0
50
100
This page uses an Amazon Cognito identity to retrieve data directly from Amazon DynamoDB.

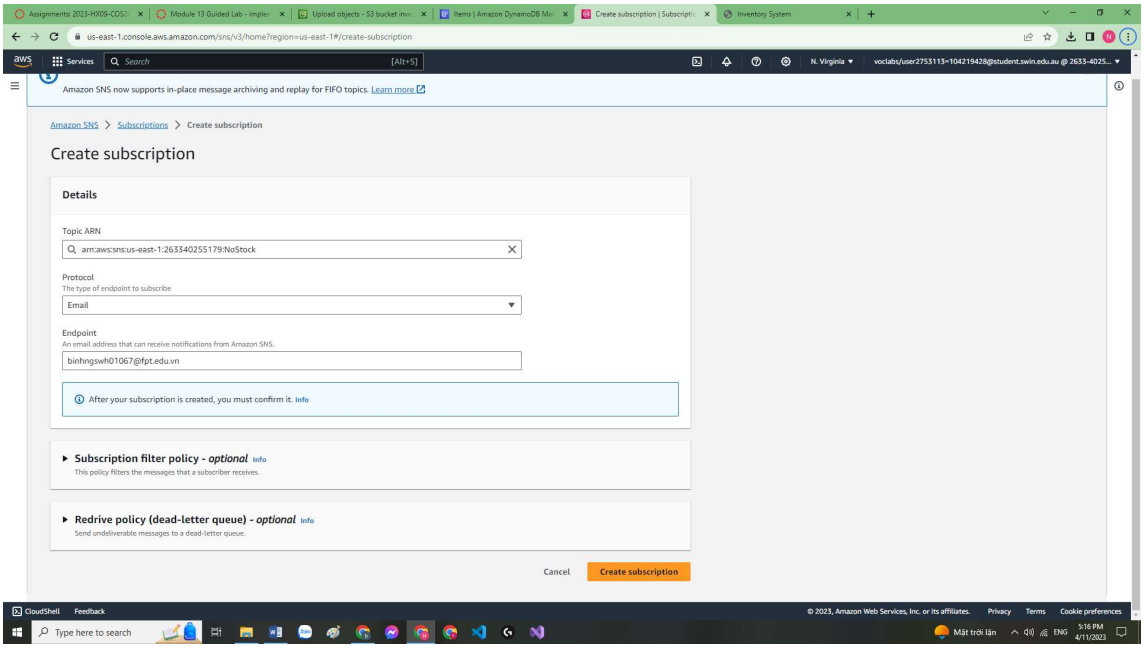

Get live item count
When you choose "Start scan," you will perform a DynamoDB scan to determine the most-recent item count. This scan might consume additional table read capacity units.
It is not recommended to perform this action on very large tables or tables that serve critical production traffic. You can pause the action at any time to avoid consuming extra read capacity.
Item count
36
Scan status
Complete
Last updated
November 04, 2023 17:13:10
Scan again
Cancel
Table capacity metrics

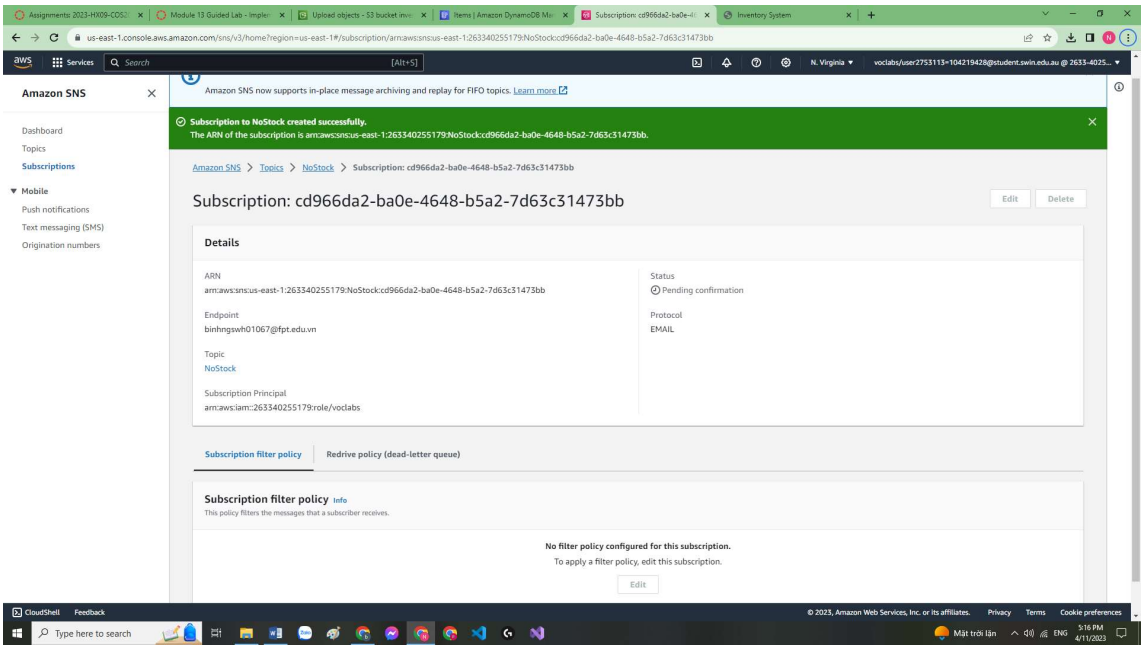


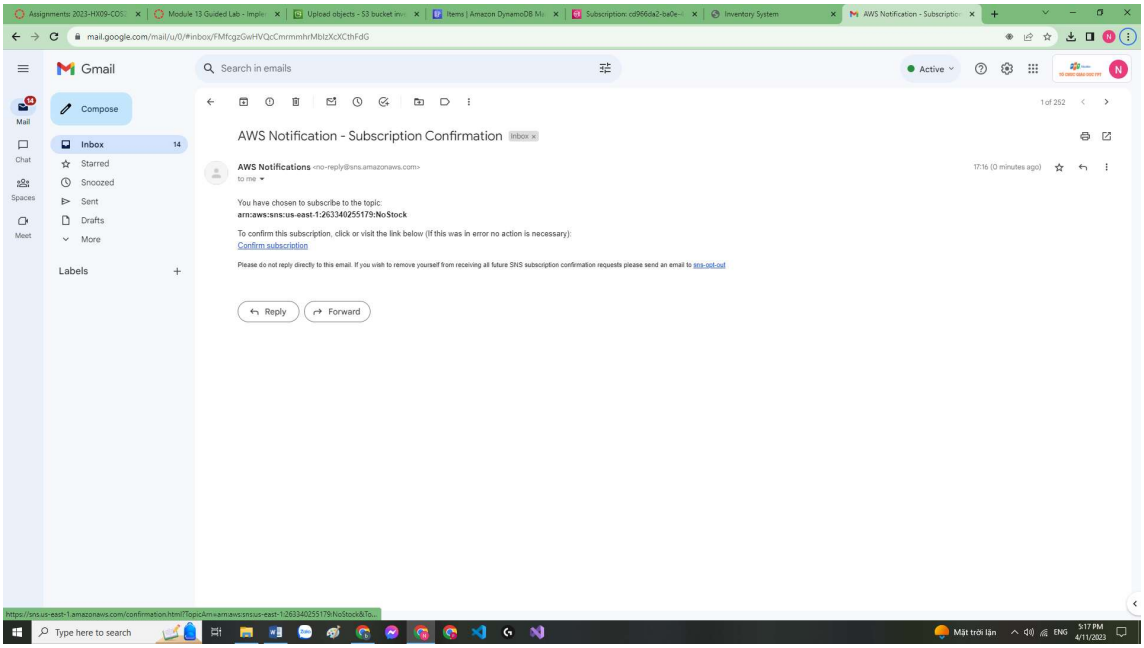
Step 3: Create Amazon SNS

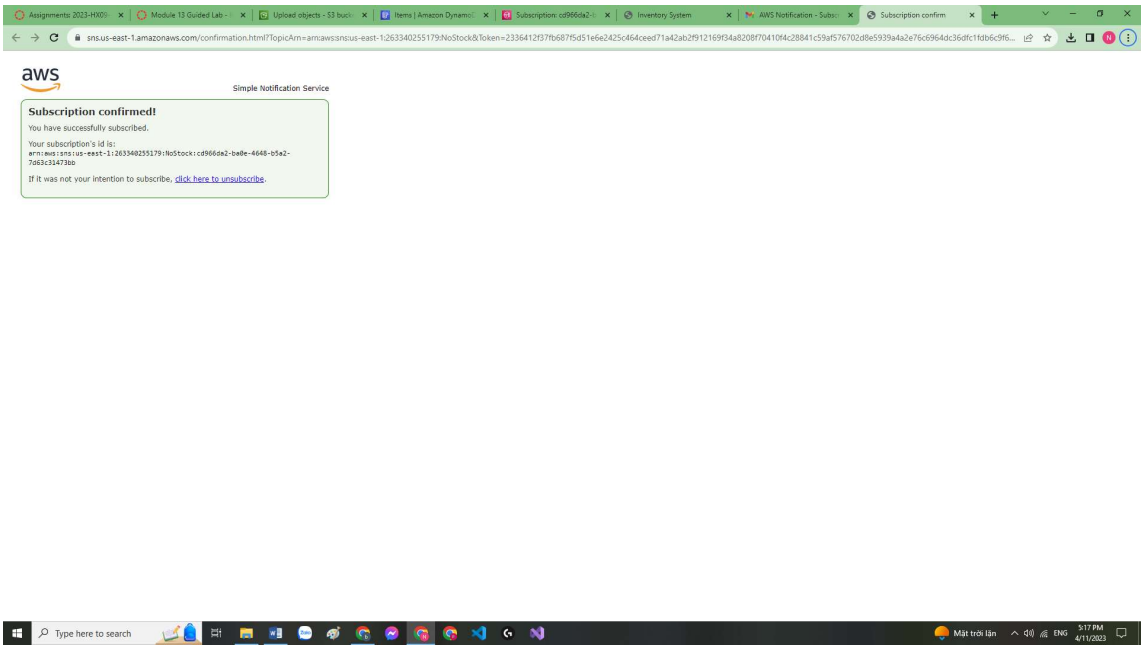



Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
Origination numbers
New Feature
Amazon SNS now supports in-place message archiving and replay for FIFO topics. Learn more
Topic NoStock created successfully.
You can create subscriptions and send messages to them from this topic.
Publish message
Amazon SNS > Topics > NoStock
NoStock
Edit
Delete
Publish message
Details
Name
NoStock
Display name
-
ARN
arn:aws:sns:us-east-1:263340255179:NoStock
Topic owner
263340255179
Type
Standard
Subscriptions
Access policy
Data protection policy
Delivery policy (HTTP/S)
Delivery status logging
Encryption
Tags
Integrations
Subscriptions (0)
Edit
Delete
Request confirmation
Confirm subscription
Create subscription
Search
ID
Endpoint
Status
Protocol
No subscriptions found
You don't have any subscriptions to this topic.
Create subscription

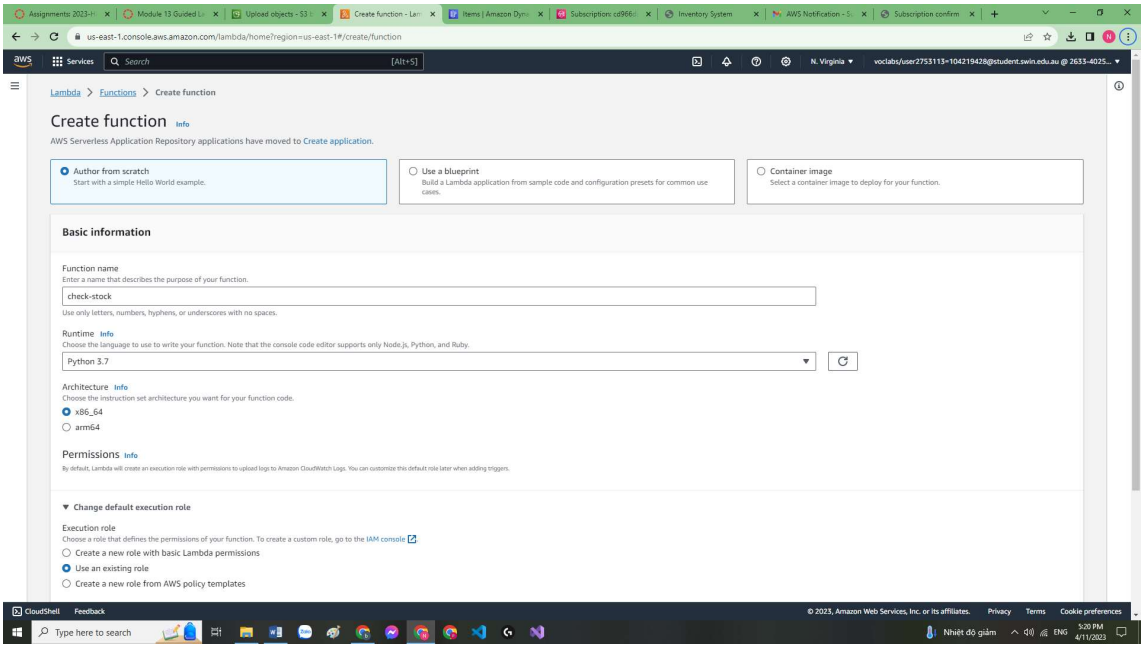

Amazon SNS now supports in-place message archiving and replay for FIFO topics. Learn more
Amazon SNS > Subscriptions > Create subscription
Create subscription
Details
Topic ARN
arn:aws:sns:us-east-1:263340255179:NoStock
Protocol
The type of endpoint to subscribe
Email
Endpoint
An email address that can receive notifications from Amazon SNS.
binhngswh01067@fpt.edu.vn
After your subscription is created, you must confirm it. Info
Subscription filter policy - optional Info
This policy filters the messages that a subscriber receives.
Redrive policy (dead-letter queue) - optional Info
Send undeliverable messages to a dead-letter queue.
Cancel
Create subscription

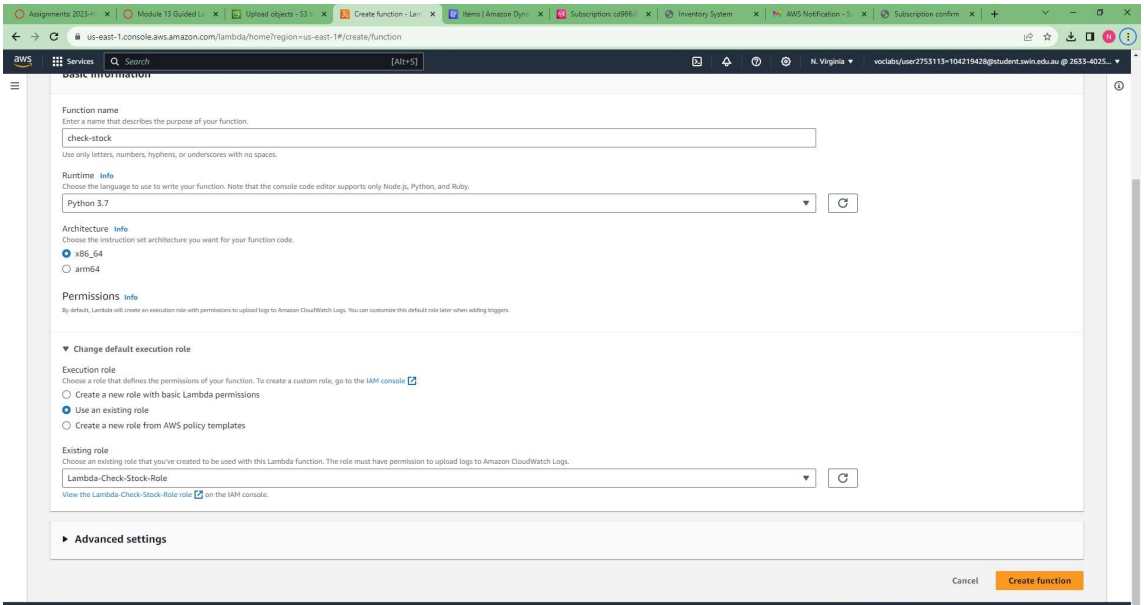

Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
Origination numbers
Amazon SNS now supports in-place message archiving and replay for FIFO topics. Learn more
Subscription to NoStock created successfully.
The ARN of the subscription is arn:aws:sns:us-east-1:263340255179:NoStock:cd966da2-ba0e-4648-b5a2-7d63c31473bb.
Amazon SNS > Topics > NoStock > Subscription: cd966da2-ba0e-4648-b5a2-7d63c31473bb
Subscription: cd966da2-ba0e-4648-b5a2-7d63c31473bb
Edit
Delete
Details
ARN
arn:aws:sns:us-east-1:263340255179:NoStock:cd966da2-ba0e-4648-b5a2-7d63c31473bb
Endpoint
binhngswh01067@fpt.edu.vn
Topic
NoStock
Subscription Principal
arn:aws:iam::263340255179:role/voclabs
Status
Pending confirmation
Protocol
EMAIL
Subscription filter policy
Redrive policy (dead-letter queue)
Subscription filter policy Info
This policy filters the messages that a subscriber receives.
No filter policy configured for this subscription.
To apply a filter policy, edit this subscription.
Edit
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

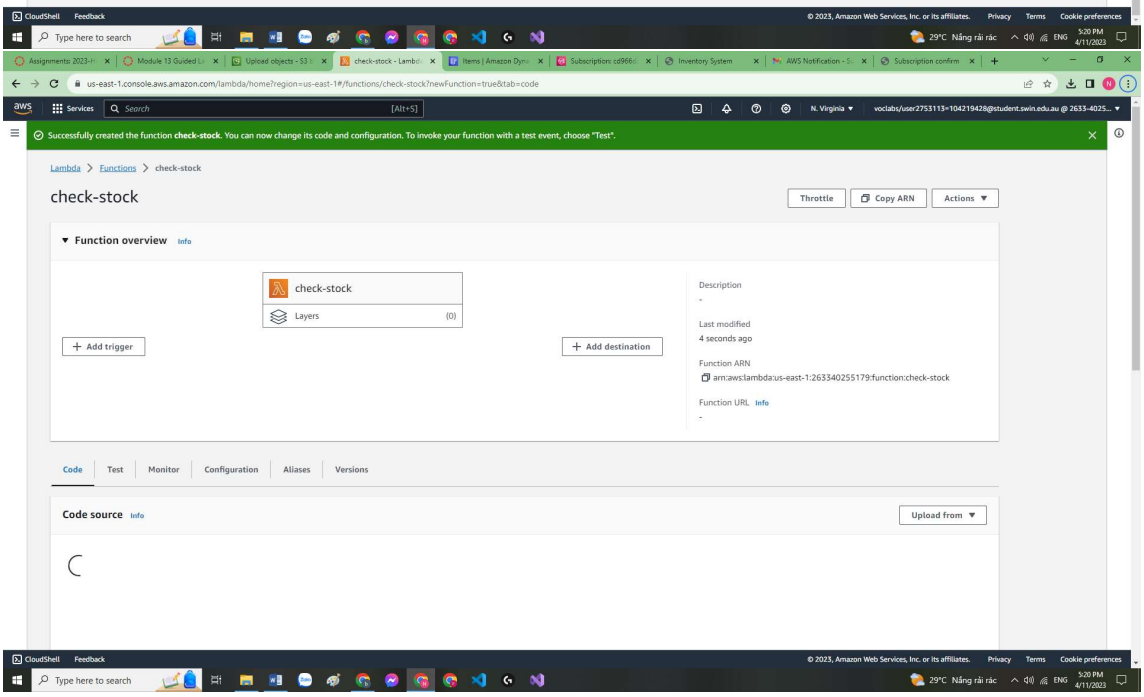

Gmail
Search in emails
Compose
Inbox 14
Starred
Snoozed
Sent
Drafts
More
Labels
AWS Notification - Subscription Confirmation
AWS Notifications <no-reply@sns.amazonaws.com>
to me
You have chosen to subscribe to the topic:
arn:aws:sns:us-east-1:263340255179:NoStock
To confirm this subscription, click or visit the link below (If this was in error no action is necessary):
Confirm subscription
Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to sns-opt-out
Reply
Forward



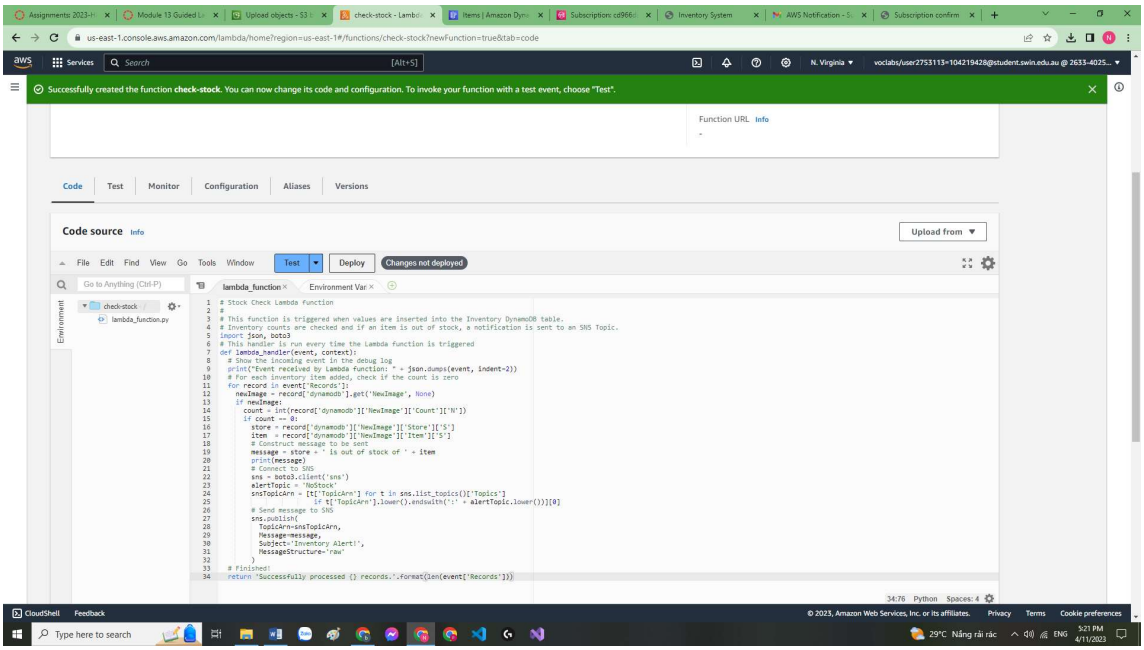
Step 4: Create check-stock lambda fucntion



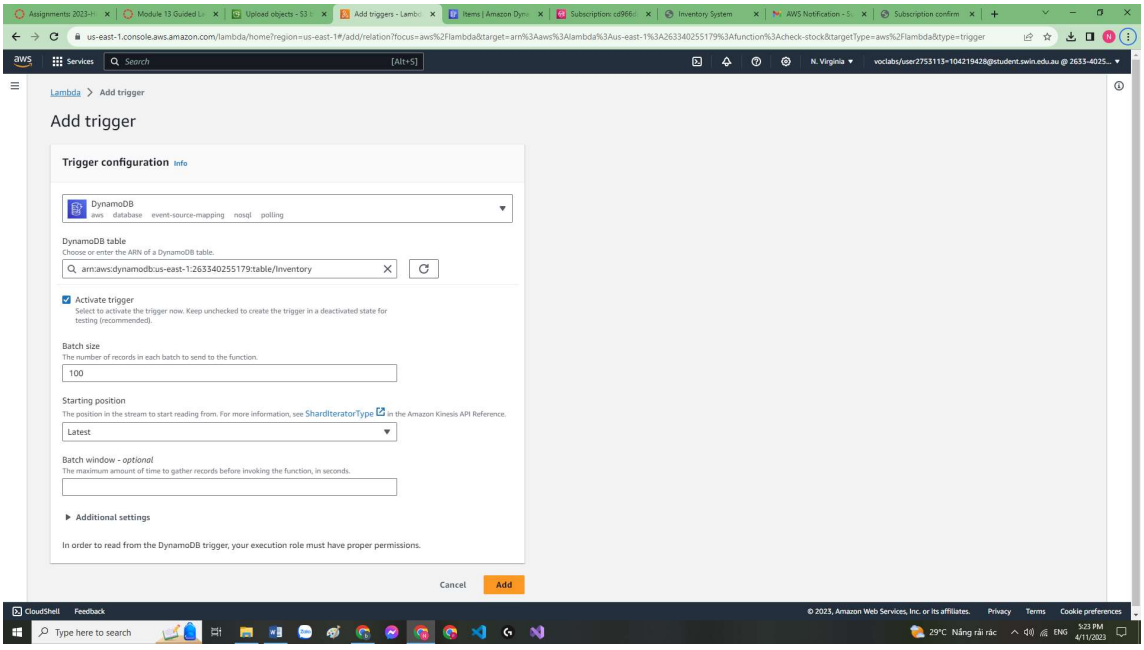

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function
Function name
Enter a name that describes the purpose of your function.
check-stock
Use only letters, numbers, hyphens, or underscores with no spaces.
Runtime Info
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.
Python 3.7
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
Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console.
Create a new role with basic Lambda permissions
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.
Lambda-Check-Stock-Role
View the Lambda-Check-Stock-Role role on the IAM console.
Advanced settings
Cancel
Create function

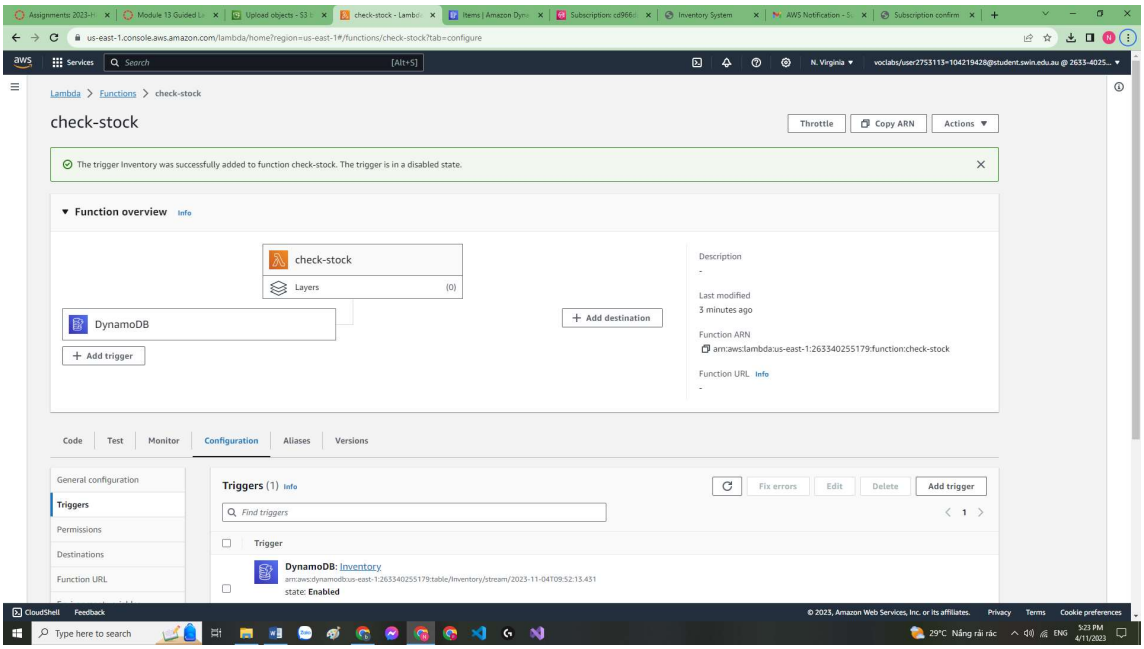

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/check-stock?newFunction=true&tab=code
Successfully created the function check-stock. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
Lambda > Functions > check-stock
check-stock
Throttle
Copy ARN
Actions
Function overview Info
check-stock
Layers (0)
Add trigger
Add destination
Description
-
Last modified
4 seconds ago
Function ARN
arn:aws:lambda:us-east-1:263340255179:function:check-stock
Function URL Info
-
Code
Test
Monitor
Configuration
Aliases
Versions
Code source Info
Upload from

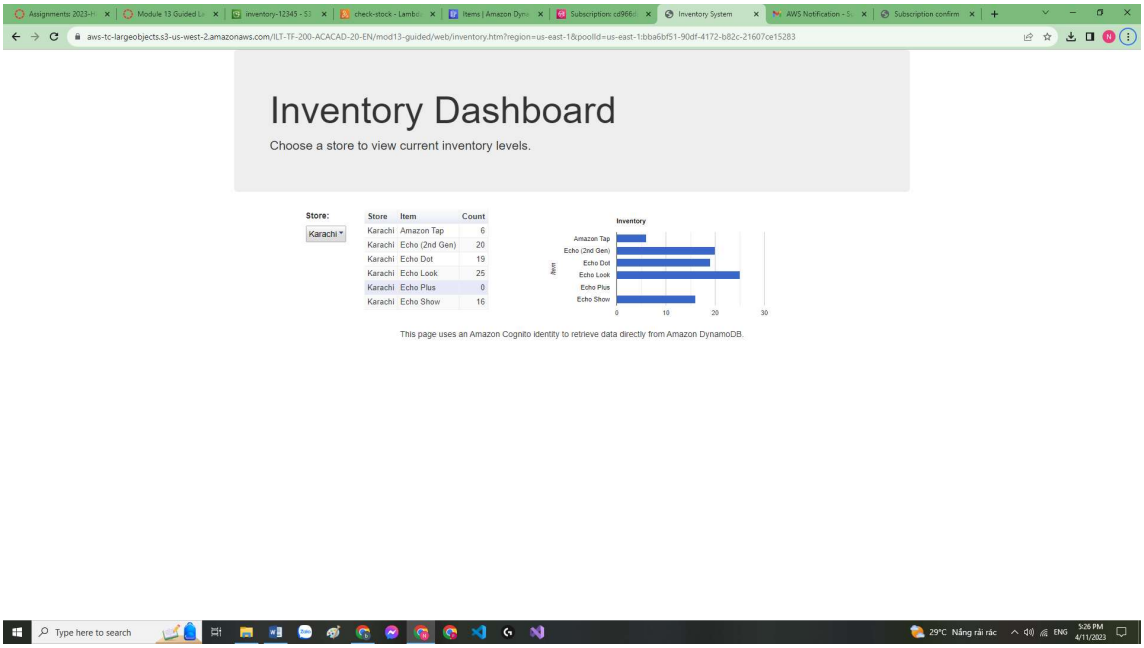
4.2: Use the check-stock code provided

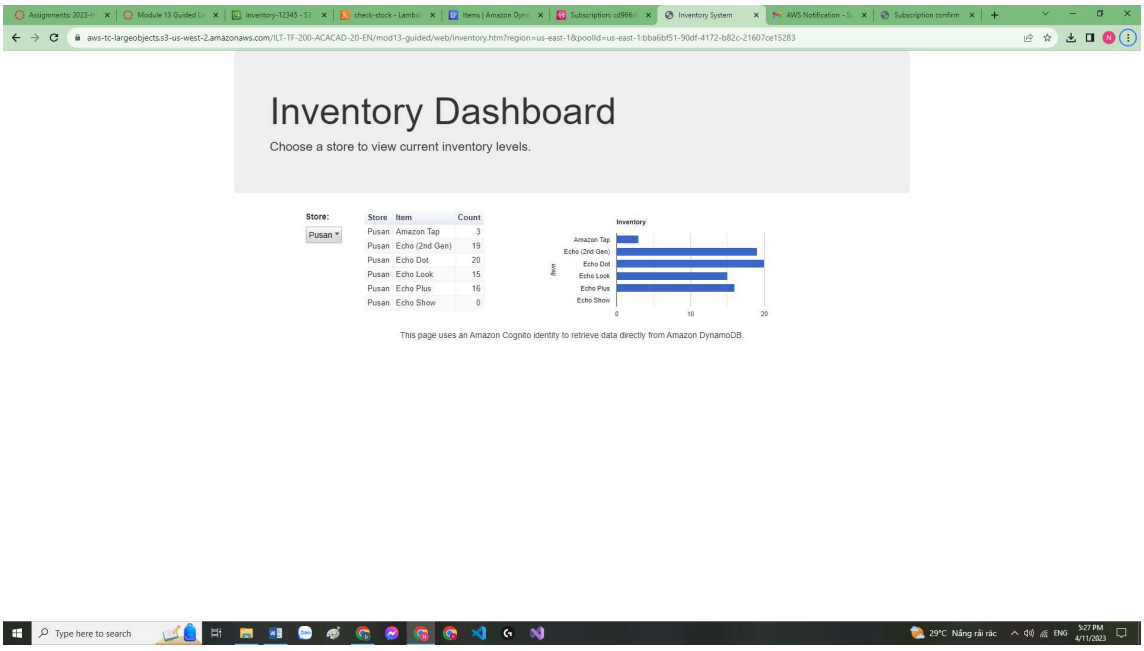


4.3: add trigger




us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/check-stock?tab=configure
Lambda > Functions > check-stock
check-stock
Throttle
Copy ARN
Actions
The trigger Inventory was successfully added to function check-stock. The trigger is in a disabled state.
Function overview Info
check-stock
Layers (0)
DynamoDB
Add trigger
Add destination
Description
-
Last modified
3 minutes ago
Function ARN
arn:aws:lambda:us-east-1:263340255179:function:check-stock
Function URL Info
-
Code
Test
Monitor
Configuration
Aliases
Versions
General configuration
Triggers
Permissions
Destinations
Function URL
Triggers (1) Info
Find triggers
Fix errors
Edit
Delete
Add trigger
Trigger
DynamoDB: Inventory
arn:aws:dynamodb:us-east-1:263340255179:table/Inventory/stream/2023-11-04T09:52:13.431
state: Enabled
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
29°C Nắng rải rác
ENG
5:23 PM
4/11/2023


aws-tc-largeobjects.s3-us-west-2.amazonaws.com/ILT-TF-200-ACACAD-20-EN/mod13-guided/web/inventory.htm?region=us-east-1&poolId=us-east-1:bba6bf51-90df-4172-b82c-21607ce15283
Inventory Dashboard
Choose a store to view current inventory levels.
Store:
Karachi
Store Item Count
Karachi Amazon Tap 6
Karachi Echo (2nd Gen) 20
Karachi Echo Dot 19
Karachi Echo Look 25
Karachi Echo Plus 0
Karachi Echo Show 16
Inventory
Amazon Tap
Echo (2nd Gen)
Echo Dot
Echo Look
Echo Plus
Echo Show
Item
0
10
20
30
This page uses an Amazon Cognito identity to retrieve data directly from Amazon DynamoDB.
Type here to search
29°C Nắng rải rác
ENG
5:26 PM
4/11/2023



And so on

After 10 minutes there were no notification so I'll end it here