

Task 2

The Project

Amazon SNS > Topics > Create topic

New Feature
Amazon SNS now supports High Throughput FIFO topics. [Learn more](#)

Create topic

Details

Type [Info](#)

Topic type cannot be modified after topic is created

☐ FIFO (first-in, first-out)

- Strictly-preserved message ordering
- Exactly-once message delivery
- Subscription protocols: SQS

☒ Standard

- Best-effort message ordering
- At-least-once message delivery
- Subscription protocols: SQS, Lambda, Data Firehose, HTTP, SMS, email, mobile application endpoints

Name

SendN bNotification

Maximum 256 characters. Can include alphanumeric characters, hyphens (-) and underscores (_).

Display name - optional [Info](#)

To use this topic with SMS subscriptions, enter a display name. Only the first 10 characters are displayed in an SMS message.

My Topic

Maximum 100 characters.

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Amazon SNS > Topics > SendNotification

Amazon SNS

Dashboard

Topics

Subscriptions

▼ Mobile

- Push notifications
- Text messaging (SMS)

New Feature
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Topic SendNotification created successfully.
You can create subscriptions and send messages to them from this topic. [Publish message](#)

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

SendNotification

Details

Name
SendNotification

ARN
arn:aws:sns:eu-north-1:789382030387:SendNotification

Type
Standard

Display name
-

Topic owner
789382030387

< Subscriptions Access policy Data protection policy Delivery policy (HTTP/S) Delivery status logging Encryption Tags >

Subscriptions (0)

Search

[Edit](#) [Delete](#) [Request confirmation](#) [Confirm subscription](#) [Create subscription](#)

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Amazon SQS > Queues > MySQSQueue > Subscribe to Amazon SNS topic

Subscribe to Amazon SNS topic [Info](#)

Amazon SNS topic
To allow your queue to receive messages from an Amazon SNS topic, subscribe it to an Amazon SNS topic.
Specify an Amazon SNS topic available for this queue.

arn:aws:sns:eu-north-1:789382030387:SendNotification

[Cancel](#) [Save](#)

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CloudShellLambdaEC2VPCS3API GatewayIAM Identity CenterRoute S3CloudFormationDynamoDBIAM

Lambda > Functions > MyServerlessFunction

Successfully updated the function MyServerlessFunction.

CodeTestMonitorConfigurationAliasesVersions

Code sourceInfoUpload from

EXPLORER

MYSERVERLESSFUNCTION

lambda_function.py

DEPLOY

Deploy (⇧⌘U)

Test (⇧⌘I)

lambda_function.py

1import json

2

3def lambda_handler(event, context):

4 for record in event.get("Records", []):

5 try:

6 body = record.get("body", "")

7 print(f"Received message body: {body}")

8 except Exception as e:

9 print(f"Error processing record: {e}")

10

11 return {"statusCode": 200, "body": "Processed successfully"}

12

13

Amazon Q Tip 1/3: Start typing to get suggestions ([ESC] to exit)

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CloudShellLambdaEC2VPCS3API GatewayIAM Identity CenterRoute S3CloudFormationDynamoDBIAM

IAM > Roles > MyServerlessFunction-role-552gwtzf > Add permissions

Attach policy to MyServerlessFunction-role-552gwtzf

Current permissions policies (1)

Other permissions policies (1/1039)

Filter by Type			
Q sqs		All types	4 matches
<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AmazonSQSFullAccess	AWS managed	Provides full access to Amazon SQS vi...
<input type="checkbox"/>	AmazonSQSReadOnlyAccess	AWS managed	Provides read only access to Amazon S...
<input checked="" type="checkbox"/>	AWSLambdaSQSQueueExecutionRole	AWS managed	Provides receive message, delete mess...
<input type="checkbox"/>	SQSUnlockQueuePolicy	AWS managed	Provides access required to unlock a S...

CancelAdd permission

CloudShellLambdaEC2VPCS3API GatewayIAM Identity CenterRoute S3CloudFormationDynamoDBIAM

Amazon SQS > Queues > MySQSQueue

MySQSQueue

Standard

arn:aws:sqs:us-east-1:831926624779:MySQSQueue

Encryption

Amazon SQS key (SSE-SQS)

URL

https://sqs.us-east-1.amazonaws.com/831926624779/MySQSQueue

Dead-letter queue

-

More

SNS subscriptions

Lambda triggers

EventBridge Pipes

Dead-letter queue

Monitoring

Tagging

Queue policies

Encryption

Lambda triggers (0)Info

View in Lambda

Delete

Configure Lambda function trigger

Search triggers

UUID

ARN

Status

Last modified

No AWS Lambda triggers

Set incoming messages to trigger a Lambda function.

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Trigger AWS Lambda function Info

Lambda function

Set incoming messages to trigger a Lambda function.

Region

us-east-1

Specify an AWS Lambda function available for this queue.

Choose a function

Search AWS Lambda function.

Enter AWS Lambda function ARN

Use existing resource

arn:aws:lambda:us-east-1:831926624779:function:MyServerlessFunction

End of results

Cancel

Save

Amazon SNS

Dashboard

Topics

Subscriptions

▼ Mobile

Push notifications

Text messaging (SMS)

New Feature

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SendNotification

Edit

Delete

Publish message

Details

Name

SendNotification

Display name

-

ARN

arn:aws:sns:us-east-1:831926624779:SendNotification

Topic owner

831926624779

Type

Standard

< Subscriptions Access policy Data protection policy Delivery policy (HTTP/S) Delivery status log

Subscriptions (1)

Edit

Delete

Request confirmation

Confirm subscription

Create subscription

CloudShell

Lambda

EC2

VPC

S3

API Gateway

IAM Identity Center

Route 53

CloudFormation

DynamoDB

IAM

Amazon SNS

Topics

SendNotification

Publish message

New Feature

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Publish message to topic

Message details

Topic ARN
arn:aws:sns:us-east-1:831926624779:SendNotification

Subject - *optional*

My Serverless App

Maximum 100 printable ASCII characters

Time to Live (TTL) - *optional* | [Info](#)
This setting applies only to mobile application endpoints. The number of seconds that the push notification service has to deliver the message to the endpoint.

Message body

Message structure

CloudShell

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CloudShell

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Amazon SNS

Topics

SendNotification

Publish message

Message body

Message structure

☒ Identical payload for all delivery protocols.
The same payload is sent to endpoints subscribed to the topic, regardless of their delivery protocol.

☐ Custom payload for each delivery protocol.
Different payloads are sent to endpoints subscribed to the topic, based on their delivery protocol.

Message body to send to the endpoint

1 Sending a message from SNS!

CloudShell

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The screenshot shows the Amazon SNS console. The left sidebar contains navigation links: Dashboard, Topics, Subscriptions, Mobile, Push notifications, and Text messaging (SMS). The main content area displays the 'SendNotification' topic details. A green banner at the top indicates a successful message publication with the following details: Message ID: 64061aa1-8c08-5da5-9206-7ae7ec766cc0 and Request ID: 1db4809a-7bdb-58f4-91ed-e0dc1ba5c991. Below the banner, the 'Details' section shows the Name (SendNotification), ARN (arn:aws:sns:us-east-1:831926624779:SendNotification), Type (Standard), Display name (-), and Topic owner (831926624779). Buttons for 'Edit', 'Delete', and 'Publish message' are visible.

The screenshot shows the CloudWatch console. The left sidebar contains navigation links: Favorites and recents, Dashboards, AI Operations, Alarms, and Logs. The main content area displays the logs for the 'MyServerlessFunction'. The logs show a sequence of events: INIT_START, START, Received message body, and a series of log entries for the message content. The message content is a JSON object with fields: Type (Notification), MessageId (64061aa1-8c08-5da5-9206-7ae7ec766cc0), TopicArn (arn:aws:sns:us-east-1:831926624779:SendNotification), Subject (My Serverless App), and Message (Sending a message from SNS!). The logs also show the END event and the REPORT event. A 'Back to top' button is visible at the bottom right of the log entries.

Uses and Application

1. Automatic Backend Processing

Serverless functions are ideal for automating tasks such as data processing, file conversions, image resizing, or sending notifications—without the need to manage backend servers.

2. Cost-Efficient Infrastructure

Since you only pay for the compute time your function consumes, serverless architectures help significantly reduce cloud infrastructure costs, especially for infrequent or unpredictable workloads.

3. Scalability Without Management

AWS automatically scales Lambda functions in response to the incoming workload, handling thousands of requests per second without manual intervention.