

S3
Put
Create



Dynamo
DB
Trigger

SQS

Lambda

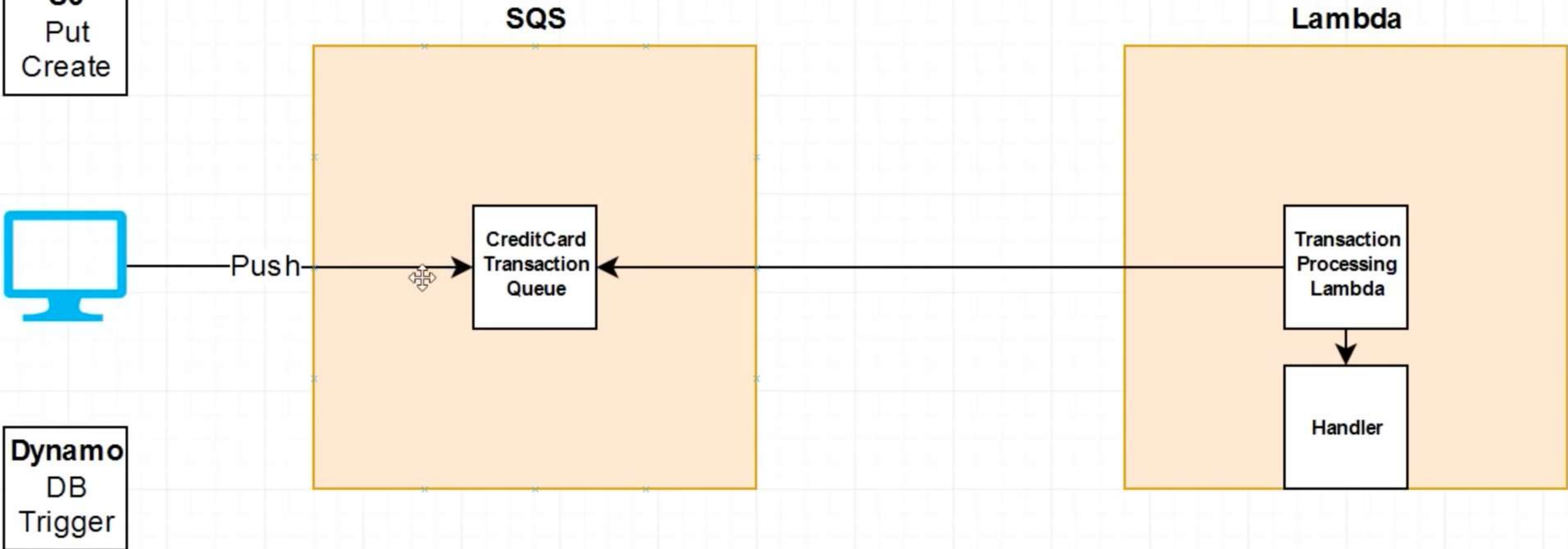
Push



CreditCard
Transaction
Queue

Transaction
Processing
Lambda

Handler



What do you want to name your queue?

Queue Name ⓘ

CreditCardTransactionQueue

Region ⓘ US East (N. Virginia)

What type of queue do you need?

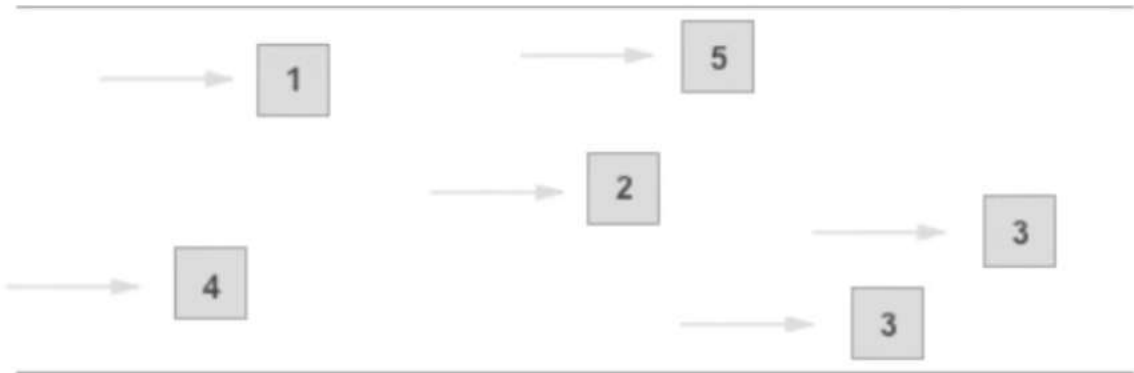
Standard Queue

FIFO Queue

Unlimited Throughput: Standard queues support a nearly unlimited number of transactions per second (TPS) per API action.

At-Least-Once Delivery: A message is delivered at least once, but occasionally more than one copy of a message is delivered.

Best-Effort Ordering: Occasionally, messages might be delivered in an order different from which they were sent.



High Throughput: FIFO queues support up to 300 messages per second (300 send, receive, or delete operations per second). When you batch 10 messages per operation (maximum), FIFO queues can support up to 3,000 messages per second. To request a limit increase, file a support request.

First-In-First-out Delivery: The order in which messages are sent and received is strictly preserved.

Exactly-Once Processing: A message is delivered once and remains available until a consumer processes and deletes it. Duplicates are not introduced into the queue.



You can change these default parameters.

Queue Attributes

Default Visibility Timeout ⓘ seconds ▼ Value must be between 0 seconds and 12 hours.

Message Retention Period ⓘ days ▼ Value must be between 1 minute and 14 days.

Maximum Message Size ⓘ KB Value must be between 1 and 256 KB.

Delivery Delay ⓘ seconds ▼ Value must be between 0 seconds and 15 minutes.

Receive Message Wait Time ⓘ seconds Value must be between 0 and 20 seconds.

Dead Letter Queue Settings

Use Redrive Policy ⓘ ☐

Dead Letter Queue ⓘ Value must be an existing queue name.

Maximum Receives ⓘ Value must be between 1 and 1000.

Server-Side Encryption (SSE) Settings

Use SSE ⓘ ☐

AWS KMS Customer Master Key (CMK) ⓘ

Data Key Reuse Period ⓘ minutes ▼ This value must be between 1 minute and 24 hours.

Cancel

Create Queue

Create New Queue

Queue Actions ▾

Filter by Prefix: 

1 to 1 of 1 items

<input type="checkbox"/>	Name	Queue Type	Content-Based Deduplication	Messages Available	Messages in Flight	Created
<input type="checkbox"/>	CreditCardTransactionQueue	Standard	N/A	0	0	2019-08-08 19:53:20 GMT-04:00

1 SQS Queue selected



Details

Permissions

Redrive Policy

Monitoring

Tags

Encryption

Lambda Triggers

Add a Permission

Edit Policy Document (Advanced)

[What's an SQS Queue Access Policy?](#)

Effect	Principals	Actions	Conditions
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This queue has an empty [SQS Queue Access Policy](#). This means that only the queue owner is allowed to use it. You can **Add a Permission** to grant another account access to this queue.

1 SQS Queue selected

Details

Permissions

Redrive Policy

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Tags

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Lambda Triggers

SQS metrics

Below are your CloudWatch metrics for the selected resources (maximum of 10). Click on a graph to see an expanded view. All times shown are in UTC. [View all CloudWatch metrics](#)

Legend: ■ CreditCardTransactionQueue

NumberOfMessagesSent (Count) ⓘ



NumberOfMessagesReceived (Count) ⓘ



NumberOfEmptyReceives (Count) ⓘ



NumberOfMessagesDeleted (Count) ⓘ



ApproximateNumberOfMessagesVisible (Count) ⓘ



ApproximateNumberOfMessagesNotVisible (Count) ⓘ



ApproximateNumberOfMessagesDelayed (Count) ⓘ



SendMessage Size (Bytes) ⓘ



ApproximateAgeOfOldestMessage (Seconds) ⓘ



Create function [Info](#)

Choose one of the following options to create your 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.



Browse serverless app repository

Deploy a sample Lambda application from the AWS Serverless Application Repository.



Blueprints [Info](#)

Filter by tags and attributes or search by keyword

?

< 1 2 3 4 5 6 7 >

Export

kinesis-firehose-syslog-to-json

An Amazon Kinesis Firehose stream processor that converts input records from RFC3164 Syslog format to JSON.

nodejs8.10 · kinesis-firehose

logicmonitor-send-cloudwatch-events

Creates LogicMonitor OpsNotes for CloudWatch Events, thereby enabling correlation between events and performance data.

python · cloudwatch-events · monitoring · eventstream · ext-libraries

batch-get-job-python27

Returns the current status of an AWS Batch Job.

python2.7 · batch

cloudfront-modify-response-header

Blueprint for modifying CloudFront response header implemented in NodeJS.

nodejs · cloudfront · response header

s3-get-object-python

An Amazon S3 trigger that retrieves metadata for the object that has been updated.

python3.7 · s3

config-rule-change-triggered

An AWS Config rule that is triggered by configuration changes to EC2 instances.

lex-book-trip-python

Book details of a visit, using Amazon Lex to perform natural language understanding

dynamodb-process-stream

An Amazon DynamoDB trigger that logs the updates made to a table.

microservice-http-endpoint

A simple backend (read/write to DynamoDB) with a RESTful API endpoint using Amazon

kinesis-analytics-output

Deliver output records from Kinesis Analytics application to custom destination.

Basic information [Info](#)

Function name

TransactionProcessor

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

 Role creation might take a few minutes. The new role will be scoped to the current function. To use it with other functions, you can modify it in the IAM console.

Lambda will create an execution role named TransactionProcessor-role-h8o4g6d9, with permission to upload logs to Amazon CloudWatch Logs.

SQS trigger

Remove

SQS queue

Select an SQS queue to listen for updates on.

arn:aws:sqs:us-east-1:398447858632:CreditCardTransactionQueue

Batch size

The largest number of records that will be read from your queue at once.

10

In order to read from the SQS trigger, your execution role must have proper permissions.

☐ Enable trigger

Enable the trigger now, or create it in a disabled state for testing (recommended).

SQS trigger

[Remove](#)

SQS queue

Select an SQS queue to listen for updates on.

arn:aws:sqs:us-east-1:398447858632:CreditCardTransactionQueue



Batch size

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In order to read from the SQS trigger, your execution role must have proper permissions.

Enable trigger

Enable the trigger now, or create it in a disabled state for testing (recommended).

Lambda function code

Code is pre-configured by the chosen blueprint. You can configure it after you create the function. [Learn more](#) about deploying Lambda functions.

Runtime

Node.js 8.10

```
1 console.log('Loading function');
2
3 exports.handler = async (event) => {
4     //console.log('Received event:', JSON.stringify(event, null, 2));
5     for (const { messageId, body } of event.Records) {
6         console.log('SQS message %s: %j', messageId, body);
7     }
8     return `Successfully processed ${event.Records.length} messages.`;
9 };
10
```


TransactionProcessor

[View the SQSRole role](#) on the IAM console.

[Throttle](#)[Qualifiers ▼](#)[Actions ▼](#)[Select a test event ▼](#)[Test](#)[Save](#)

Timeout [Info](#)



min



sec

Network

Virtual Private Cloud (VPC) [Info](#)

Choose a VPC for your function to access.

No VPC



Debugging and error handling

DLQ resource [Info](#)

Choose the AWS service to send the event payload to after maximum retries are exceeded.

None



Enable AWS X-Ray [Info](#)

Enable AWS X-Ray to trace and monitor capabilities for your Lambda function

☐

Concurrency

Unreserved account concurrency **1000**

☒ Use unreserved account concurrency

☐ Reserve concurrency



Auditing and compliance

AWS CloudTrail can log this function's invocations for operational and risk auditing, governance, and compliance. [Get started](#) on the CloudTrail console.

SQS metrics

Below are your CloudWatch metrics for the selected resources (maximum of 10). Click on a graph to see an expanded view. All times shown are in UTC. [View all CloudWatch metrics](#)

Legend: ■ CreditCardTransactonQueue

NumberOfMessagesSent (Count) ⓘ



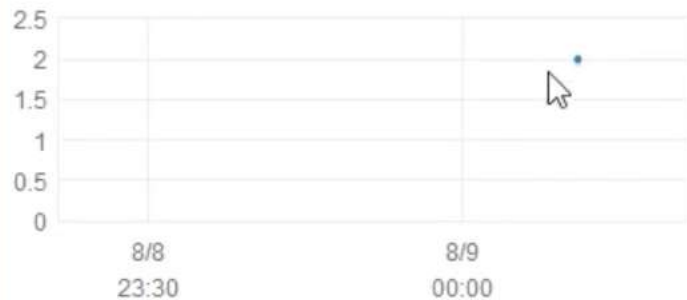
NumberOfMessagesReceived (Count) ⓘ



NumberOfEmptyReceives (Count) ⓘ



NumberOfMessagesDeleted (Count) ⓘ



ApproximateNumberOfMessagesVisible (Count) ⓘ



ApproximateNumberOfMessagesNotVisible (Count) ⓘ



ApproximateNumberOfMessagesDelayed (Count) ⓘ

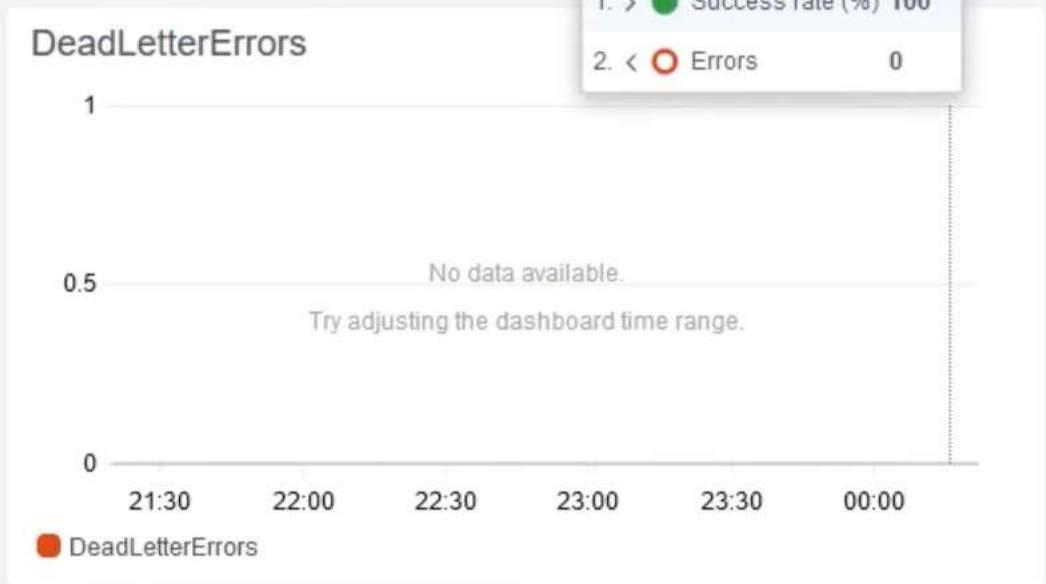
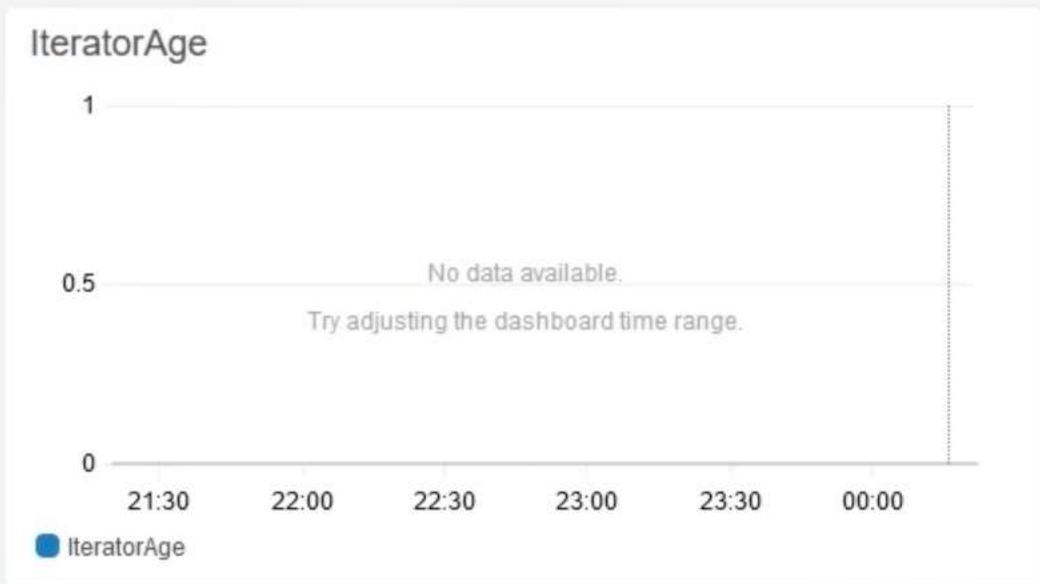
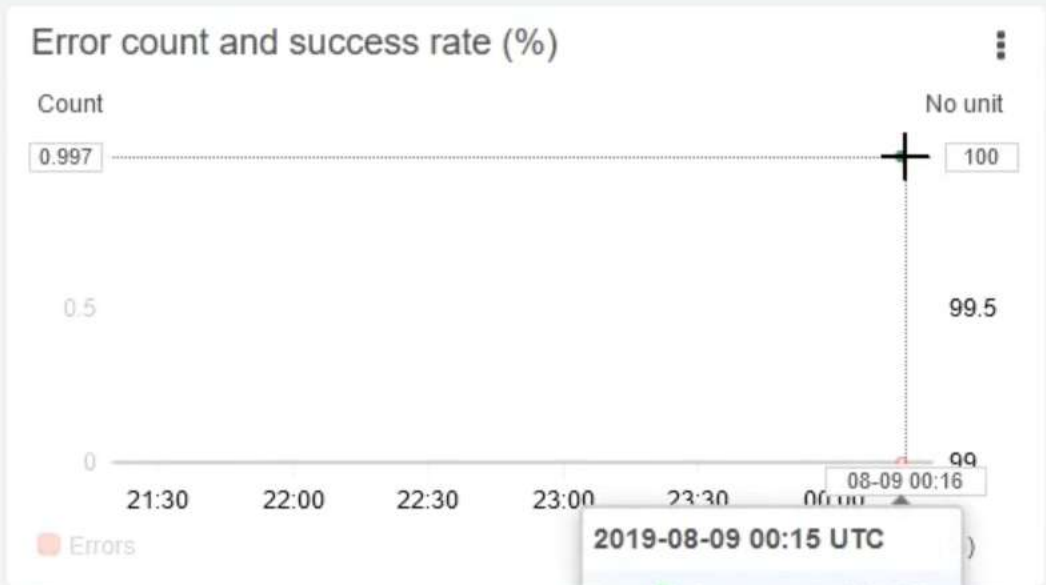


SentMessage Size (Bytes) ⓘ



ApproximateAgeOfOldestMessage (Seconds) ⓘ







Try CloudWatch Logs Insights

CloudWatch Logs Insights allows you to search and analyze your logs using a new, purpose-built query language. Click [here](#) to experience it. If you want to learn more, read [the AWS](#)

Time (UTC +00:00)	Message
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2019-08-09

No older events found at the moment. [Retry](#).

▶ 00:17:14	2019-08-09T00:17:14.452Z 91cdd413-143a-5d03-ac6f-81d5a9f0a7a3 Loading function
▶ 00:17:14	START RequestId: 91cdd413-143a-5d03-ac6f-81d5a9f0a7a3 Version: \$LATEST
▶ 00:17:14	2019-08-09T00:17:14.454Z 91cdd413-143a-5d03-ac6f-81d5a9f0a7a3 SQS message 9dfbb38c-1515-4dea-b0c0-2fe9e673397d: "12345"
▶ 00:17:14	END RequestId: 91cdd413-143a-5d03-ac6f-81d5a9f0a7a3
▶ 00:17:14	REPORT RequestId: 91cdd413-143a-5d03-ac6f-81d5a9f0a7a3 Duration: 38.86 ms Billed Duration: 100 ms Memory Size: 128 MB Max Memory Used: 56 MB

No newer events found at the moment. [Retry](#).