

Assignment 7

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Practice versioning and aliasing in lambda. Different versions will print out different logs. In the alias, do 50:50 routing (canary) to the lambda versions.

The image displays two screenshots of the AWS Lambda console interface, illustrating the process of creating and configuring a function version.

Top Screenshot: Function Overview

- URL:** `us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/myFunc?newFunction=true&tab=code`
- Notification:** "Successfully created the function myFunc. You can now change its code and configuration. To invoke your function with a test event, choose 'Test'."
- Function Overview:**
 - myFunc** (Function icon)
 - Layers:** (0)
 - + Add trigger** (Button)
 - + Add destination** (Button)
 - Description:** -
 - Last modified:** 12 seconds ago
 - Function ARN:** `arn:aws:lambda:us-east-1:871818405897:function:myFunc`
 - Function URL:** <https://ggrtuqaz7y3pna2j3r7hdqbitty0nsyhr.lambda-url.us-east-1.on.aws/>
- Tabs:** Code, Test, Monitor, Configuration, Aliases, Versions

Bottom Screenshot: Version Configuration

- URL:** `us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/myFunc/versions/1?tab=configuration`
- Notification:** "Successfully created version 1 of function myFunc."
- Version: 1** (Section header)
- Function Overview:**
 - myFunc:1** (Function icon)
 - Layers:** (0)
 - + Add trigger** (Button)
 - + Add destination** (Button)
 - Description:** myV1
 - Last modified:** 31 seconds ago
 - Function ARN:** `arn:aws:lambda:us-east-1:871818405897:function:myFunc:1`
- Tabs:** Code, Test, Monitor, **Configuration**
- Configuration Section:**
 - General configuration** (Tab)
 - Triggers** (Tab)
 - Permissions** (Tab)
 - Destinations** (Tab)
 - Execution role** (Section)
 - Role name:** [LabRole](#)

Successfully created version 2 of function myFunc.

Lambda > Functions > myFunc > Version: 2

Version: 2

Copy ARN Actions

Function overview Info

myFunc:2

Layers (0)

+ Add trigger

+ Add destination

Description
myV2

Last modified
1 minute ago

Function ARN
arn:aws:lambda:us-east-1:871818405897:function:myFunc:2

Code Test Monitor **Configuration**

General configuration
Triggers
Permissions
Destinations

Execution role

Role name
[LabRole](#)

Lambda > Functions > myFunc > Version: 2 > Create alias

Create alias

Alias configuration

An alias is a pointer to one or two versions. Choose each version that you want the alias to point to.

Name

Description - optional

Version Weight (%)
 50

Weighted alias

You can shift traffic between two versions, based on weights (%) that you assign. Click [here](#) to learn more.

Additional version - optional Weight (%)

Cancel Save

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/myFunc/aliases/myAlias?tab=configure

The alias myAlias was successfully created and is now pointing to versions 2 and 1.

Alias: myAlias

Copy ARN Actions

Function overview Info

myFunc:myAlias

+ Add trigger + Add destination

Description -

Version 2 - Weight: 50%

Additional version 1 - Weight: 50%

Function ARN arn:aws:lambda:us-east-1:871818405897:function:myFunc:myAlias

Function URL info

Test Monitor Configuration

General configuration

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/myFunc/aliases/myAlias?tab=configure

The alias myAlias was successfully created and is now pointing to versions 2 and 1.

Additional version 1 - Weight: 50%

Function ARN arn:aws:lambda:us-east-1:871818405897:function:myFunc:myAlias

Function URL info

Test Monitor Configuration

General configuration

Triggers Permissions Destinations Function URL Monitoring and operations tools Provisioned concurrency Asynchronous invocation

General configuration

Name myAlias

Description -

Version 2 - Weight: 50%

Additional version 1 - Weight: 50%

Edit

Synchronous trigger – Run ‘hello world’ lambda behind ALB in your AWS Academy account. You need to run your lambda in VPC. Do it in your default VPC.

The screenshot shows the AWS Management Console interface for a target group named 'lab7-tg'. The left sidebar contains navigation links for EC2 Dashboard, Global View, Events, Tags, Limits, Instances, Images, and Elastic Block Store. The main content area displays the 'Details' tab for the target group, showing its ARN and target type as 'Lambda'. Below this, the 'Registered target' section shows a single target named 'myFunc' with a health status of 'unused'. The 'Targets' tab is selected, and the 'Registered target' section provides details about the target, including its Lambda function, version (\$LATEST), and ARN.

The screenshot shows the 'Create Application Load Balancer' wizard in the AWS Management Console. The wizard is titled 'Create Application Load Balancer' and includes a brief description of the service. The 'Basic configuration' section is visible, showing the 'Load balancer name' field with the value 'lab7-alb'. The 'Scheme' section has 'Internet-facing' selected, and the 'IP address type' section has 'IPv4' selected. The 'Dualstack' option is also visible but not selected.

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LoadBalancers:search=lab7-alb;sort=loadBalancerName

Services lamda

N. Virginia voclabs/user2243830=subhra @ 8718-1840-5897

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances New

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMIs New

AMI Catalog

Elastic Block Store

Volumes

Create Load Balancer Actions

search : lab7-alb Add filter

1 to 1 of 1

Name	DNS name	State	VPC ID	Availability Zones	Type
lab7-alb	lab7-alb-102605938.us-east-1.elb.amazonaws.com	Provisioning	vpc-08e3596ff0baaa07e	us-east-1a, us-east-1b	application

Load balancer: lab7-alb

DescriptionListenersMonitoringIntegrated servicesTags

Basic Configuration

Name

lab7-alb

ARN

arn:aws:elasticloadbalancing:us-east-1:871818405897:loadbalancer/app/lab7-alb/5283e6f5a7843f7a

DNS name

lab7-alb-102605938.us-east-1.elb.amazonaws.com (A Record)

State

Provisioning

Type

application

Scheme

internet-facing

IP address type

ipv4

Feedback Looking for language selection? Find it in the new Unified Settings

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qgrtuqz7y3pnq2j3r7bdqbitty0nsyhr.lambda-url.us-east-1.on.aws

"Hello from Lambda V2!"

Facebook

bapli...

Inbox

Inbox

Mail

WhatsApp

Chat

Power

MUM

Assign

Learn

Load

Clo

Target

Alias

https://

us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#logsV2:log-groups/log-group/\$252Faws\$252...

Other Bookmarks

Services

Search

[Option+S]

N. Virginia

voclabs/user2243830=subhra @ 8718-1840-5897

CloudWatch

Favorites and recents

Dashboards

Alarms

In alarm

All alarms

Billing

Logs

Log groups

Logs Insights

Metrics

X-Ray traces

Events

Rules

Event Buses

Application monitoring

Insights

Settings

Getting Started

CloudWatch > Log groups > /aws/lambda/myFunc > 2022/11/14/[\$LATEST]72cfc8f46c334fc0ae0b4ea1ebaeb16f

Log events

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

Actions

Create metric filter

Filter events

Clear

1m

30m

1h

12h

Custom

Display

Timestamp	Message
There are older events to load. Load more.	
2022-11-14T17:42:53.752-06:00	END RequestId: 5a5ce34e-6d21-43a6-98bc-b4a9d27279ec
2022-11-14T17:42:53.752-06:00	REPORT RequestId: 5a5ce34e-6d21-43a6-98bc-b4a9d27279ec Duration: 1.11 ms Billed Duration: 2 ms Memory S...
2022-11-14T17:42:54.094-06:00	START RequestId: fe2c626f-d0dc-47e2-b862-6914cd27675f Version: \$LATEST
2022-11-14T17:42:54.096-06:00	END RequestId: fe2c626f-d0dc-47e2-b862-6914cd27675f
2022-11-14T17:42:54.096-06:00	REPORT RequestId: fe2c626f-d0dc-47e2-b862-6914cd27675f Duration: 1.18 ms Billed Duration: 2 ms Memory S...
2022-11-14T17:42:54.950-06:00	START RequestId: a8d8882a-04ab-4d8f-b43f-0d83702cf6bb Version: \$LATEST
2022-11-14T17:42:54.951-06:00	END RequestId: a8d8882a-04ab-4d8f-b43f-0d83702cf6bb
2022-11-14T17:42:54.951-06:00	REPORT RequestId: a8d8882a-04ab-4d8f-b43f-0d83702cf6bb Duration: 1.03 ms Billed Duration: 2 ms Memory S...
2022-11-14T17:42:55.270-06:00	START RequestId: 77e4ddd9-058d-46af-95f2-0668642ac940 Version: \$LATEST
2022-11-14T17:42:55.271-06:00	END RequestId: 77e4ddd9-058d-46af-95f2-0668642ac940
2022-11-14T17:42:55.271-06:00	REPORT RequestId: 77e4ddd9-058d-46af-95f2-0668642ac940 Duration: 1.33 ms Billed Duration: 2 ms Memory S...
2022-11-14T17:42:55.440-06:00	START RequestId: 6b94acc5-e6bb-4491-a72a-275fff994d91 Version: \$LATEST
2022-11-14T17:42:55.441-06:00	END RequestId: 6b94acc5-e6bb-4491-a72a-275fff994d91
2022-11-14T17:42:55.441-06:00	REPORT RequestId: 6b94acc5-e6bb-4491-a72a-275fff994d91 Duration: 1.11 ms Billed Duration: 2 ms Memory S...
2022-11-14T17:42:55.847-06:00	START RequestId: d63a2d42-5dcf-4261-9837-b9e301f28082 Version: \$LATEST
2022-11-14T17:42:55.848-06:00	END RequestId: d63a2d42-5dcf-4261-9837-b9e301f28082

Feedback

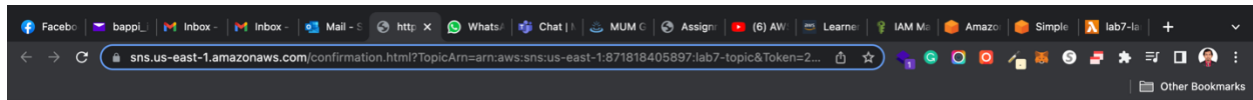
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Subscription confirmed!

You have successfully subscribed.

Your subscription's id is:
`arn:aws:sns:us-east-1:871818405897:lab7-topic:ca6365bb-d247-4c79-87e8-db903309f5c2`

If it was not your intention to subscribe, [click here to unsubscribe](#).

lab7-lambda

Layers (0)

SQS

+ Add trigger

+ Add destination

Description

-

Last modified

4 minutes ago

Function ARN

arn:aws:lambda:us-east-1:871818405897:function:lab7-lambda

Function URL [Info](#)

-

Code Test Monitor **Configuration** Aliases Versions

General configuration

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

Triggers (1) [Info](#)

Find triggers

Trigger

SQS: lab7-sqs

arn:aws:sqs:us-east-1:871818405897:lab7-sqs

state: **Creating**

[Details](#)

Fix errors Edit Delete Add trigger

1

CloudWatch

Log events

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

Filter events

2022-11-14T20:00:05.214-06:00 START RequestId: 4a46c624-d996-5fa6-adca-9dc82d414c65 Version: \$LATEST

2022-11-14T20:00:05.250-06:00 2022-11-15T02:00:05.250Z 4a46c624-d996-5fa6-adca-9dc82d414c65 INFO { Records: [{ messageId: '47965154-...

```
{
  "messageId": "47965154-45f2-4293-9858-1a486067217a",
  "receiptHandle": "AQEBmDgl+jNdnKVXN/h7Q3GzNikSvQLjW5SgVbEo5zZ9Gb90D37WbYwsfWRGMH+BU8s91E490RYdLmvOU2NO1HFuTF4QFsC0kXYT+M+EAE+CV/s+KqS57hFrtOIMbmM1DYyEKVt3iZRLVc4s1HdW+MF2+3SoUoacTPRnWkg/dNRSV+3YfBmYmtnIH9VqknTLaiE2pZ208xG0bkmPUPZ295y51znSokdIHv4XBj8FH1j8K11QIFxcB83qviPLj5WbXWJFJDVT9P+gTcYpfqbX8Rz9B8eSxCTB+Uxyks31+9zeJhaRUfflr4PF19FI9dyU/yBqGokgm85ysZrvIdLaqM50LkQKQexcl6A/+RRE+frsEfazdPCkMhtNjONRsoavFA",
  "body": "{\n  +\n    \"subject\": \"LAB7\",\n    \"email\": \"boppi_ifci@yahoo.com\",\n    \"message\": \"Test message\"\n  }",
  "attributes": [Object],
  "messageAttributes": {},
  "md5OfBody": "817738573b1048190f162313f54c6e5e",
  "eventSource": "aws:sqs",
  "eventSourceARN": "arn:aws:sqs:us-east-1:871818405897:lab7-sqs",
  "awsRegion": "us-east-1"
}
```

lab7-lambda

Function overview

SQS

Triggers (1)

Find triggers

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lab7-lambda?tab=configure

Services Search [Option+S]

N. Virginia voclabs/user2243830=subhra @ 8718-1840-5897

Your changes have been saved.

Environment variables

Tags

VPC

Monitoring and operations tools

Concurrency

Asynchronous invocation

Code signing

Database proxies

File systems

State machines

State: **Updating**

▼ Details

Authentication:

```
[
  {}
]
```

Batch size: **1**

Batch window: **None**

Concurrent batches per shard: **None**

Enable trigger: **No**

Filter criteria:

```
[
  {
    "key": "{ \"body\":{ \"subject\": [\"LAB7\"] }}"
  }
]
```

Last processing result: **None**

Maximum age of record: **None**

On-failure destination: **None**

Report batch item failures: **No**

Retry attempts: **None**

Split batch on error: **None**

Starting position: **None**

Tumbling window duration: **None**

UUID: **1a081097-e2fc-45fc-a606-5afb72a084cb**

Feedback Looking for language selection? Find it in the new Unified Settings

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outlook.office.com/mail/inbox/id/AAQkADImMTJlODgwLWMzNzQlNDhiY05NTVlTM2YmRkODc4YzI3ZQAQADQQ...

Outlook Search Teams call

Home View

New mail

Quick steps Read / Unread

Favorites

- Inbox 1
- Sent Items
- Drafts
- Add favorite

Folders

- Inbox 1
- Drafts
- Sent Items
- Deleted Items
- Junk Email 4
- Archive
- Notes
- Conversation ...
- Create new fol...

Groups

Focused Other Filter

- MS FREE English Classes Beg...
- Important - Information on usi...
- CW Your Infosys Credentials
- CP Updated power poi...
- Sakai- Login Credentials

Today

- AWS Notifications LAB7 8:33 PM ("subject":"LAB7","email":"bap...")
- AWS Notifications LAB7 8:26 PM ("subject":"LAB7","email":"bap...")
- AWS Notifications AWS Notification Message 8:22 PM () If you wish to stop receiving noti...
- AWS Notifications AWS Notification Message 8:19 PM () If you wish to stop receiving noti...

Yesterday

LAB7

AWS Notifications <no-reply@sns.amazonaws.com>

To: Subhra Dey Mon 11/14/2022 8:33 PM

("subject":"LAB7","email":"bap...@yahoo.com","message":"Test message")

--

If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe: <https://sns.us-east-1.amazonaws.com/subscribe.html?SubscriptionArn=arn:aws:sns:us-east-1:871818405897:lab7-topic-ca6365bb-d247-4c79-87e8-d6503309f5c2&Endpoint=subhra.dey@miu.edu>

Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at <https://aws.amazon.com/support>

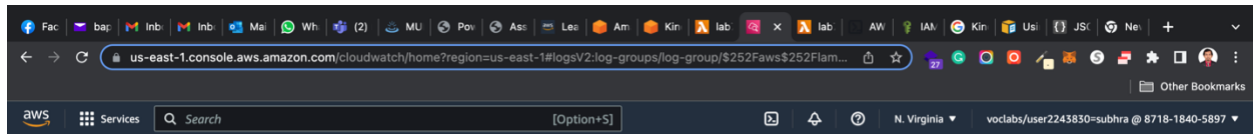
Reply Forward

Event Source Mapping – Implement event source mapping that lets lambda read data from Kinesis data stream and logs that event out in CloudWatch.

The screenshot shows the Amazon Kinesis console in the us-east-1 region. A green banner at the top indicates "Data stream lab7-Kinesis successfully created." The left sidebar shows the navigation menu with "Data streams" selected. The main content area displays the details for the "lab7-Kinesis" data stream. The "Data stream summary" section shows the status as "Active", capacity mode as "Provisioned", ARN as "arn:aws:kinesis:us-east-1:871818405897:stream/lab7-Kinesis", and creation time as "November 15, 2022 at 13:35 CST". Below this, there are tabs for "Applications", "Monitoring", "Configuration", "Data viewer", and "Enhanced fan-out (0)". The "Producers" section lists three options: "Amazon Kinesis Agent", "AWS SDK", and "Amazon Kinesis Producer Library (KPL)", each with a "View in Github" link.

The screenshot shows the AWS IAM console in the us-east-1 region, specifically the "Edit lab7-policy" page. The page has two tabs: "Visual editor" and "JSON". The "JSON" tab is selected, showing the policy document in a code editor. The policy is a JSON object with a "Version" of "2012-10-17" and a "Statement" array containing one statement with "Sid" "VisualEditor0", "Effect" "Allow", and "Action" permissions for various Kinesis and SQS actions. The bottom of the page shows a status bar with "Security: 0", "Errors: 0", "Warnings: 0", and "Suggestions: 0".

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "VisualEditor0",
6       "Effect": "Allow",
7       "Action": [
8         "sqs:GetQueueUrl",
9         "kinesis:SubscribeToShard",
10        "sns:Publish",
11        "kinesis:DescribeStreamSummary",
12        "sqs:ReceiveMessage",
13        "kinesis:DescribeStreamConsumer",
14        "kinesis:GetShardIterator",
15        "kinesis:GetRecords",
16        "sqs:GetQueueAttributes",
17        "kinesis:DescribeStream",
18        "kinesis:ListTasksForStream"
19      ]
20    }
21  ]
22 }
```



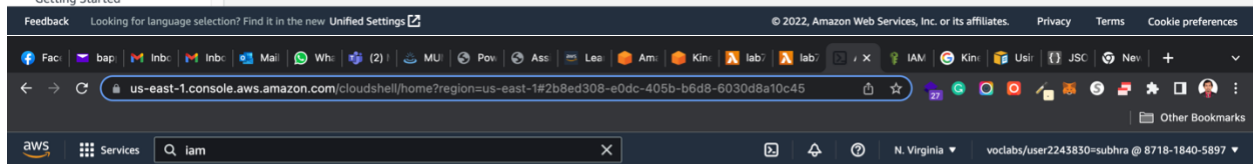
CloudWatch > Log groups > /aws/lambda/lab7-kinesis-data > 2022/11/15/[LATEST]cedad6751dac422aaa053d03694bf31a

Log events

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

1m 30m 1h 12h Custom

Timestamp	Message
No older events at this moment. Retry	
2022-11-15T14:20:57.549-06:00	START RequestId: 500dc93b-ca6c-4e0e-973d-3eef9a0aa067 Version: \$LATEST
2022-11-15T20:20:57.568Z	2022-11-15T20:20:57.568Z 500dc93b-ca6c-4e0e-973d-3eef9a0aa067 INFO { Records: [{ kinesis: [Object], eventSource: 'aws:kinesis', eventVersion: '1.0', eventID: 'shardId-000000000000:4963521260798130413564697199301868620163572251621892098', eventName: 'aws:kinesis:record', invokeIdentityArn: 'arn:aws:iam::871818405897:role/LabRole', awsRegion: 'us-east-1', eventSourceARN: 'arn:aws:kinesis:us-east-1:871818405897:stream/Lab7-Kinesis' }
2022-11-15T14:20:57.608-06:00	END RequestId: 500dc93b-ca6c-4e0e-973d-3eef9a0aa067
2022-11-15T14:20:57.608-06:00	REPORT RequestId: 500dc93b-ca6c-4e0e-973d-3eef9a0aa067 Duration: 59.86 ms Billed Duration: 60 ms Memory...
No newer events at this moment. Auto retry paused. Resume	



AWS CloudShell

us-east-1

```
bash: arn:aws:kinesis:us-east-1:871818405897:stream/lab7-kinesis: No such file or directory
[cloudshell-user@ip-10-1-133-140 ~]$ aws lambda create-event-source-mapping --function-name lab7-kinesis-data --event-source arn:aws:kinesis:us-east-1:871818405897:stream/lab7-kinesis --batch-size 100 --starting-position LATEST
{
  "UUID": "58910402-51ac-4ee3-9aee-05958784cefa",
  "StartingPosition": "LATEST",
  "BatchSize": 100,
  "MaximumBatchingWindowInSeconds": 0,
  "ParallelizationFactor": 1,
  "EventSourceArn": "arn:aws:kinesis:us-east-1:871818405897:stream/lab7-kinesis",
  "FunctionArn": "arn:aws:lambda:us-east-1:871818405897:function:lab7-kinesis-data",
  "LastModified": "2022-11-15T20:12:13.009000+00:00",
  "LastProcessingResult": "No records processed",
  "State": "Creating",
  "StateTransitionReason": "User action",
  "DestinationConfig": {
    "OnFailure": {}
  },
  "MaximumRecordAgeInSeconds": -1,
  "BisectBatchOnFunctionError": false,
  "MaximumRetryAttempts": -1,
  "TumblingWindowInSeconds": 0,
  "FunctionResponseType": {}
}
[cloudshell-user@ip-10-1-133-140 ~]$ aws kinesis put-record --stream-name lab7-kinesis-data --partition-key 1 --data "hello first record"
An error occurred (ResourceNotFoundException) when calling the PutRecord operation: Stream lab7-kinesis-data under account 871818405897 not found.
[cloudshell-user@ip-10-1-133-140 ~]$ aws kinesis put-record --stream-name lab7-kinesis-data --partition-key 1 --data "hello first record"
An error occurred (ResourceNotFoundException) when calling the PutRecord operation: Stream lab7-kinesis-data under account 871818405897 not found.
[cloudshell-user@ip-10-1-133-140 ~]$ aws kinesis put-record --stream-name lab7-kinesis --partition-key 1 --data "hello first record"
An error occurred (ResourceNotFoundException) when calling the PutRecord operation: Stream lab7-kinesis under account 871818405897 not found.
[cloudshell-user@ip-10-1-133-140 ~]$ aws kinesis put-record --stream-name lab7-kinesis --partition-key 1 --data "hello first record"
{
  "ShardId": "shardId-000000000000",
  "SequenceNumber": "4963521260798130413564697199301868620163572251621892098"
}
[cloudshell-user@ip-10-1-133-140 ~]$
```

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lab7-kinesis-data?tab=configure

ServicesSearch[Option+S]

N. Virginiavoclabs/user2243830=subhra@8718-1840-5897

lab7-kinesis-data

Layers(0)

Kinesis

+ Add trigger

+ Add destination

Description-

Last modified45 minutes ago

Function ARNarn:aws:lambda:us-east-1:871818405897:function:lab7-kinesis-data

Function URLInfo-

CodeTestMonitorConfigurationAliasesVersions

General configuration

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

URC

Triggers (1) Info

Find triggers

1

☐ Trigger

Kinesis: lab7-Kinesis

arn:aws:kinesis:us-east-1:871818405897:stream/lab7-Kinesis

state: Enabled

Details

Fix errors

Edit

Delete

Add trigger

Feedback

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