

Get the access key and secret key from IAM

```
public static final String AWS_ACCESS_KEY = "aws.accessKeyId";
public static final String AWS_SECRET_KEY = "aws.secretKey";
```

```
static {
    //add your AWS account access key and secret key
```

```
System.setProperty(AWS_ACCESS_KEY, "");
System.setProperty(AWS_SECRET_KEY, "");
```

```
}
```

Create a Kinesis Data stream: **OrderStream**

Amazon Kinesis Data streams

New on-demand mode for Kinesis data streams
On-demand mode eliminates the requirement to manually provision and scale your data streams. With on-demand mode, your data streams automatically scale their write capacity of up to 200 MiB/second. [Learn more](#)

Data streams (1) Info

Process data in real time | Create a Firehose delivery stream | Actions | **Create data stream**

Find data streams

	Name	Status	Capacity mode	Provisioned shards	Data retention period	Encryption
<input type="checkbox"/>	OrderStream	Active	On-demand	-	1 day	Disabled

Create a Lambda

orders-lambda Throttle | Copy ARN | Actions

Function overview Info

orders-lambda

Layers (0)

Description
-

Last modified
2 days ago

Edit runtime settings

Runtime settings [Info](#)

Runtime
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Java 8 on Amazon Linux 1

New runtime available
A new runtime is available for your function's language: Java 11 (Corretto)

Handler [Info](#)
com.Kinesis.OrdersLambda:handleRequest

Architecture [Info](#)
Choose the instruction set architecture you want for your function code.

☒ x86_64
☐ arm64

You can change either the function's runtime or the instruction set architecture in one update. To update both, you must repeat the update process.

Cancel Save

orders-lambda-jar-with-dependencies.jar	8/3/2022 5:03 PM	JAR File	8,690 KB
---	------------------	----------	----------

Upload above jar in your lambda (Jar is going to generate from mvn clean install Kinesis-Lambda-DynamoDb)

orders-lambda [Throttle](#) [Copy ARN](#) [Actions](#)

Function overview [Info](#)

orders-lambda
Layers (0)

Kinesis
[+ Add trigger](#)

[+ Add destination](#)

Description
-

Last modified
2 days ago

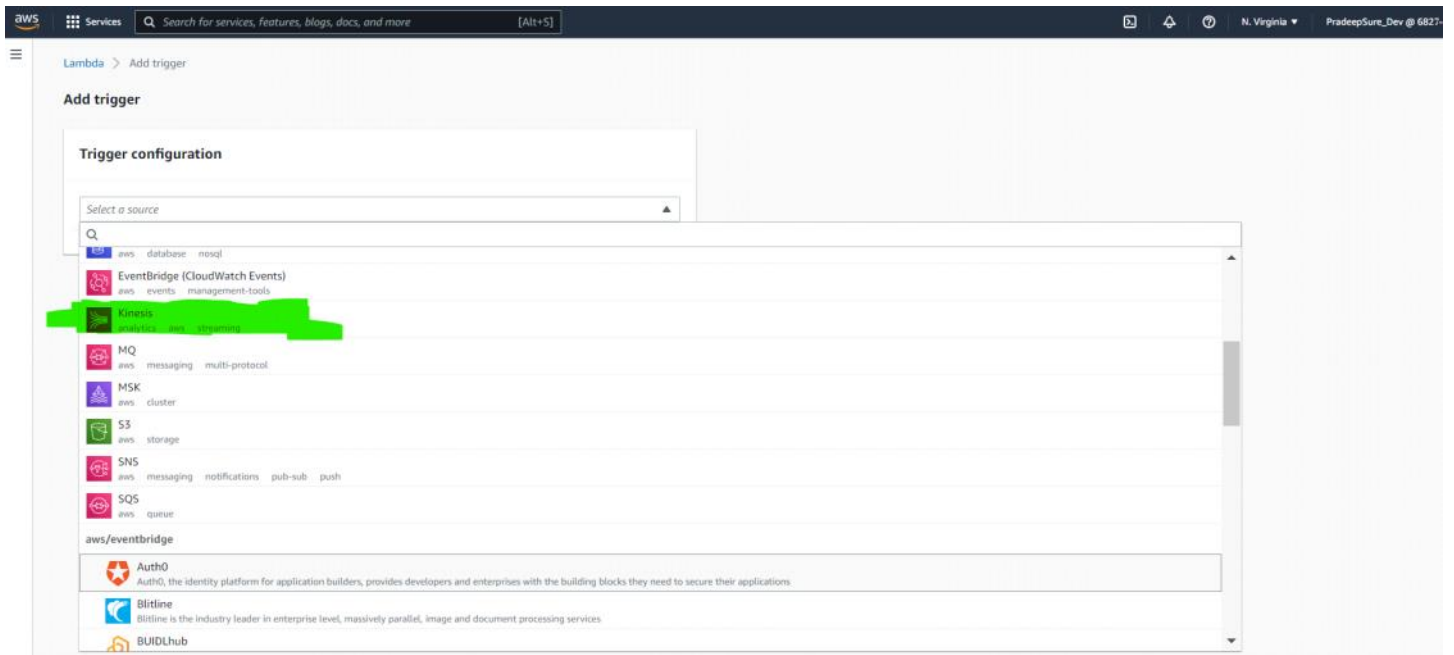
Function ARN
arn:aws:lambda:us-east-1:682781514081:function:orders-lambda

Function URL [Info](#)
-

Code source [Info](#)

The deployment package of your Lambda function "orders-lambda" is too large to enable inline code editing. However, you can still invoke your function.

[Upload from](#)
zip or jar file
Amazon S3 location



Kinesis stream
Select a Kinesis stream to listen for updates on.

order-stream

Consumer
Select an optional consumer of your stream to listen for updates on.

No consumer

Batch size
The largest number of records that will be read from your stream at once.

100

Batch window - optional
The maximum amount of time to gather records before invoking the function, in seconds.

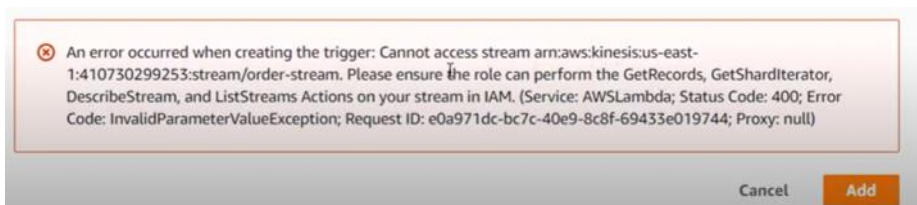
Starting position
The position in the stream to start reading from. For more information, see [ShardIteratorType](#) in the Amazon Kinesis API Reference.

Latest

Additional settings

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

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



Once you create the lambda automatically One Role (orders-lambda) is created, go to the role and attach (AmazonKinesisFullAccess (to read data from kinesis) and AmazonDynamoDB (to save data to DynamoDB)) policies

Services

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Global

PradeepSure_Dev @ 6827-8151-4081

Identity and Access Management (IAM)

Dashboard

Access management

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Related consoles

IAM Identity Center

Now

IAM > Roles

Roles (4) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Search

< 1 >

<input type="checkbox"/>	Role name	Trusted entities	Last activity
<input type="checkbox"/>	AWSServiceRoleForApplicationAutoScaling_DynamoDBTable	AWS Service: dynamodb.application-autoscaling (Service-Linked Role)	35 minutes ago
<input type="checkbox"/>	AWSServiceRoleForSupport	AWS Service: support (Service-Linked Role)	-
<input type="checkbox"/>	AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service-Linked Role)	-
<input type="checkbox"/>	orders-lambda-role-l1hbd0y3	AWS Service: lambda	41 minutes ago

Roles Anywhere Info

Authenticate your non AWS workloads and securely provide access to AWS services.

Manage

Access AWS from your non AWS workloads

Operate your non AWS workloads using the same authentication and authorization strategy that you use within AWS.

X.509 Standard

Use your own existing PKI infrastructure or use [AWS Certificate Manager Private Certificate Authority](#) to authenticate identities.

Temporary credentials

Use temporary credentials with ease and benefit from the enhanced security they provide.

Services

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Related consoles

IAM Identity Center

Now

Creation date

July 18, 2022, 16:41 (UTC+05:30)

ARN

[arn:aws:iam:682781514081:role/service-role/orders-lambda-role-l1hbd0y3](#)

Last activity

48 minutes ago

Maximum session duration

1 hour

Permissions

Trust relationships

Tags

Access Advisor

Revoke sessions

Permissions policies (3)

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter

< 1 >

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AWSLambdaBasicExecutionRole-f5032b64-aaac-47ad-a53f-892812bd1e9f	Customer managed	
<input type="checkbox"/>	AmazonDynamoDBFullAccess	AWS managed	Provides full access to Amazon DynamoDB via the AWS Management Console.
<input type="checkbox"/>	AmazonKinesisFullAccess	AWS managed	Provides full access to all streams via the AWS Management Console.

Permissions boundary - (not set)

Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting but can be used to delegate permission management to others.

Set permissions boundary

AWSConfig-Kinesis-Lambda-DynamoDb Page 4

orders-lambda

Layers (0)

Kinesis

+ Add trigger

+ Add destination

Description

-

Last modified

2 days ago

Function ARN

arn:aws:lambda:us-east-1:682781514081:function:orders-lambda

Function URL [Info](#)

-

Code | Test | Monitor | **Configuration** | Aliases | Versions

General configuration

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

VPC

Triggers (1)

Find triggers

Trigger

Kinesis: OrderStream

arn:aws:kinesis:us-east-1:682781514081:stream/OrderStream

state: **Enabled**

Details

Fix errors | Edit | Delete | Add trigger

Create a DynamoDB table Name: orders

aws Services Search for services, features, blogs, docs, and more [Alt+S]

N. Virginia PradeepSure_Dev @ 6827-8151-4081

DynamoDB

Dashboard

Tables

Update settings

Explore items

PartiQL editor [New](#)

Backups

Exports to S3

Reserved capacity

Settings [New](#)

DAX

Clusters

Subnet groups

Parameter groups

DynamoDB > Tables

Tables (1) Info

Find tables by table name

Any table tag

Create table

	Na...	Status	Partition key	Sort key	Indexes	Read capacity mode	Write ca
	orders	Active	orderId (N)	-	0	Provisioned with auto scaling (1)	Provision

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

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Run the Kinesis producer application(will go the data to kinesis Stream), it is going to save the data to DynamoDB using AWS lambda(Lambda will read the data from kinesis stream and save the data in DynamoDB)