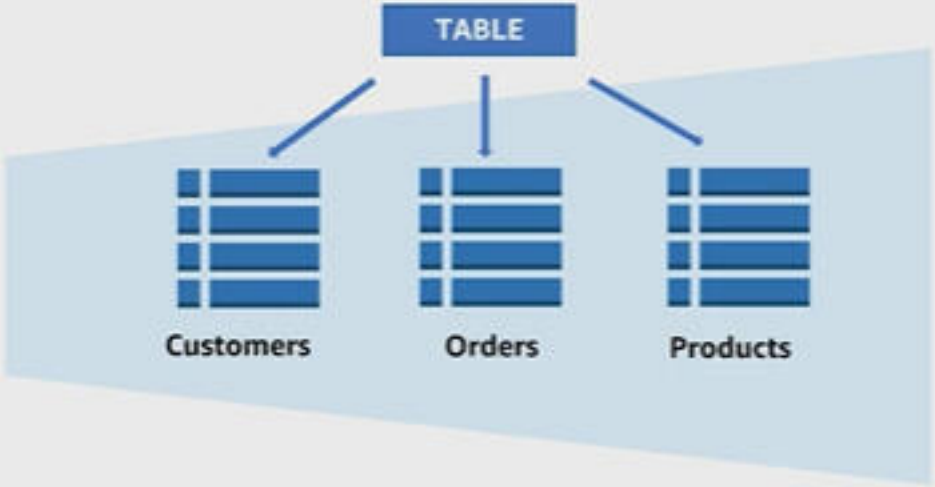
What is Amazon DynamoDB?

aws training and certification

Fully managed, NoSQL database service



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Amazon DynamoDB: Table

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Collection of data, called items.

1	Smith	John	USA	M	
2	Newton			M	
3	Curie	Marie	Poland	F	YES
4	Einstein		Germany		YES
5	Hawking				NO

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Amazon DynamoDB: Item, Attribute and Keys

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Querying Data

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Use hash key (and sort key) to get results

Get Items: 1

Get Items: 4

Get Items: 3 Curie

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Scanning Data

Use any attribute to get results.

Get Items: USA

Get Items: F YES

Get Items: Curie Marie

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Partition Example: Small Size & Low Throughput

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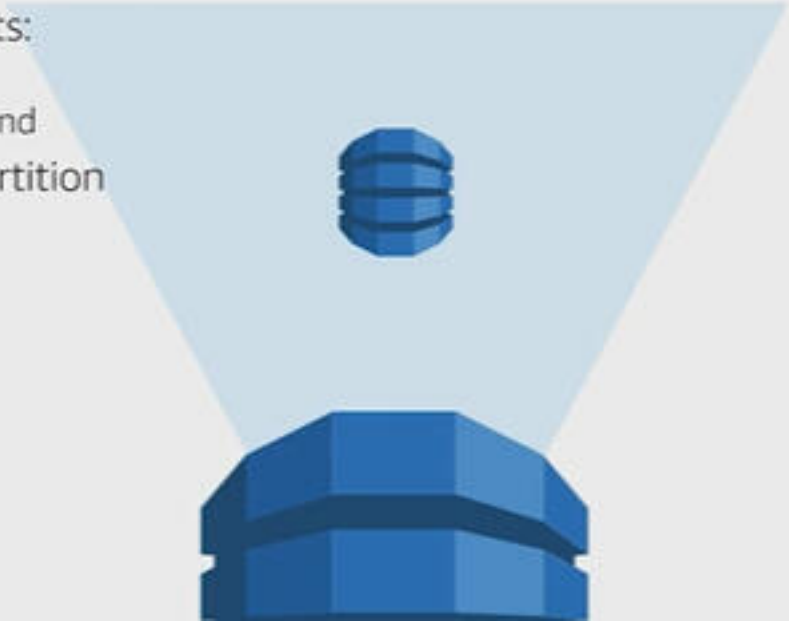
- Application requirements:
  - 10 GB of data
  - 5 Writes/Reads per second
- Result = 1 additional partition



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Partition Example: Large Size & High Throughput

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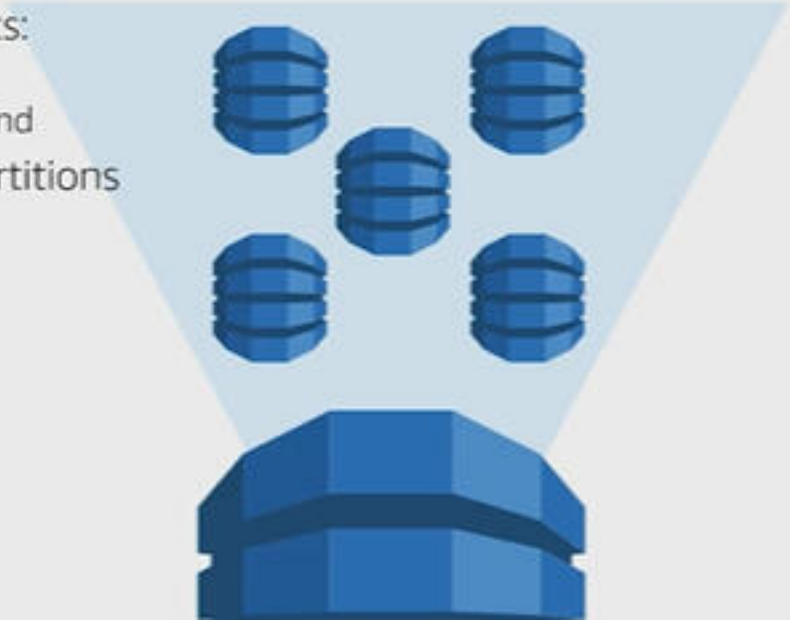
- Application requirements:
  - 10 TB of data
  - 5 Writes/Reads per second
- Result = 5 additional partitions



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Ice Cream Shop Use Case Summary: Benefits of using DynamoDB

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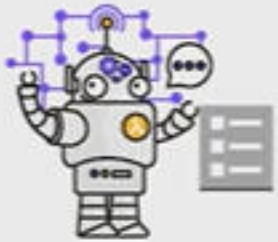
FACT:

Everything in Lex configuration is hard-coded

RESULT:

Hard to add and modify ice cream flavors



- Store data somewhere
- Easily, fully managed
- Scale as needed!
- Flexible

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What is AWS Lambda?

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A service that allows you to execute code without provisioning a server

AWS Lambda

```
var AWS = require('aws-sdk');
var s3 = new AWS.S3();

exports.handler = function(event, context) {
        var params = {
                Bucket: '[input bucket name here]'
                Key: '[insert keyname here]'
                Body: '[object body]'
        };
        s3.putObject(params)
        console.log('Object inserted')
};
```

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AWS Lambda Scalability

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Lambda automatically scales your application with the size of the workload.

AWS Lambda

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AWS Lambda Scalability: Scaling Down

When there is no work, no resources are consumed.

AWS Lambda

AWS Lambda: Pay-as-You-Go Model

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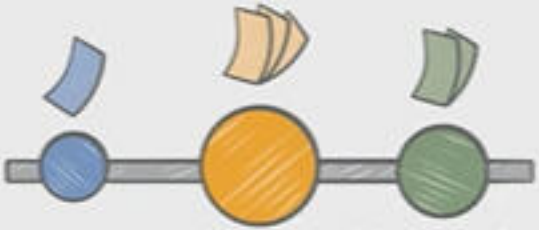
You are only charged for what you use.

AWS Lambda



Price compute time by 100 ms units, so even short jobs make sense

Free Tier

1 million requests and 400,000 GB-Seconds of compute time free every month

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Common Lambda Use Case Examples

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Web Applications

- Static websites
- Complex web apps
- Packages for Flask and Express

Backends

- Apps & services
- Mobile
- IoT

Data Processing

- Real time
- MapReduce
- Batch

Chatbots

- Powering chatbot logic

Amazon Alexa

- Powering voice-enabled apps
- Alexa Skills Kit

IT Automation

- Policy engines
- Extending AWS services
- Infrastructure management

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Lambda – DynamoDB Interaction: Using Database Streams and Triggers (1 of 2)

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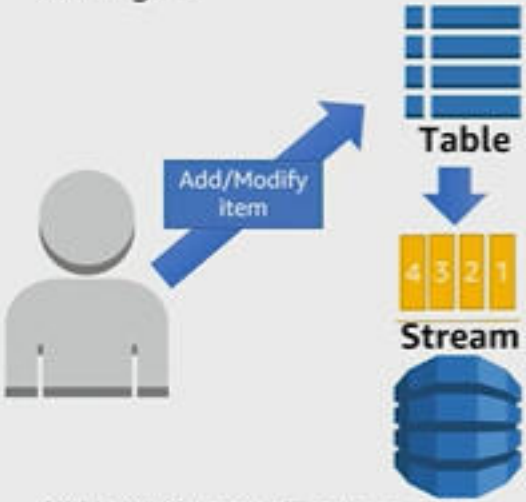
Enable the DynamoDB Streams feature to keep track of database changes.



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Lambda – Amazon Lex Interaction Examples

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Initialization

Run at the beginning of the conversion.

Example: Configure bot behavior based on session data.

Validation

Run after every interaction.

Example: Validate if the user has enough money to buy product.

Fulfillment

Run after the user provides all of the slot data required to fulfill the intent.
Example: Order product.

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Key Takeaways

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- Integrating an external configuration source can help make a chatbot more dynamic and agile.
  - Amazon DynamoDB is an example of a service which can quickly provide NoSQL database functionality.

- AWS Lambda can be seen as the business logic of the chatbot.
  - Contains logic which determine the behavior of the application.
  - Can be also used to "glue" together different AWS services.
    - For example, Amazon DynamoDB and Amazon Lex

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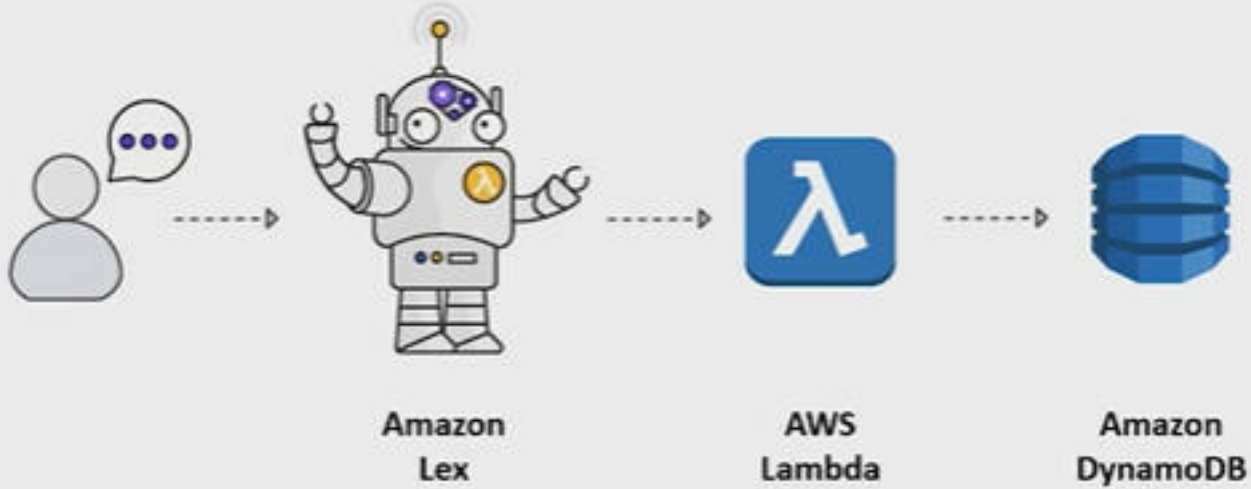
Demo 2 Goals

- Construct a product catalog with DynamoDB.
- Create a Lambda function to be used as Lex backend.
- Understand how a intent could be fulfilled with data queried from DynamoDB.



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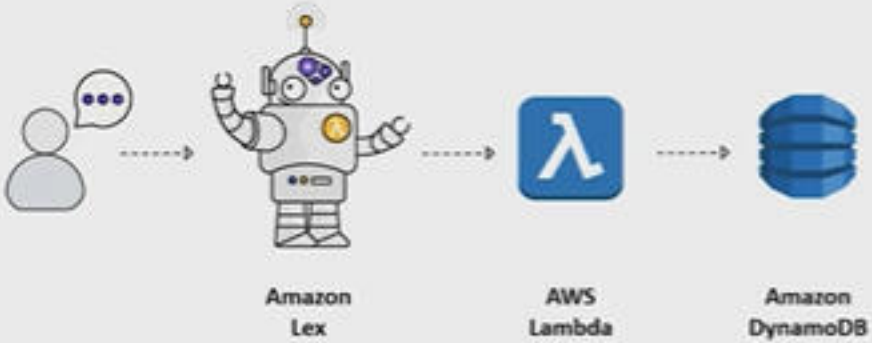

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History
Console Home
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Amazon Lex
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S3

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Group A-Z

Compute
EC2
Lightsail
Elastic Container Service
EKS
Lambda
Batch
Elastic Beanstalk

Storage
S3
EFS
Glacier
Storage Gateway

Database
RDS
DynamoDB
ElastiCache
Neptune
Amazon Redshift

Migration
AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
Snowball

Developer Tools
CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
Cloud9
X-Ray

Management Tools
CloudWatch
AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Systems Manager
Trusted Advisor
Managed Services

Media Services
Elastic Transcoder
Kinesis Video Streams
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor

Analytics
Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight
Data Pipeline
AWS Glue

Security, Identity & Compliance
IAM
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
CloudHSM
Directory Service
WAF & Shield
Artifact

Mobile Services
Mobile Hub
AWS AppSync
Device Farm
Mobile Analytics

Customer Engagement
Amazon Connect
Pinpoint
Simple Email Service

Business Productivity
Alexa for Business
Amazon Chime
WorkDocs
Worklink

Desktop & App Streaming
WorkSpaces
AppStream 2.0

Internet Of Things
IoT Core
IoT 1-Click
IoT Device Management
IoT Analytics
Greengrass
Amazon FreeRTOS
IoT Device Defender

Game Development
Amazon GameLift

Close

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Create table Delete table

Filter by table name

No Tables

Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption

DynamoDB is a fully managed NoSQL database service that provides fast and predictable performance with seamless scalability. DynamoDB allows you to create a database table that can store and retrieve any amount of data, and serve any level of request traffic. More info

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Create DynamoDB table

Tutorial

DynamoDB is a schema-less database that only requires a table name and primary key. The table's primary key is made up of one or two attributes that uniquely identify items, partition the data, and sort data within each partition.

Table name*

Primary key* Partition key

String

Add sort key

Table settings

Default settings provide the fastest way to get started with your table. You can modify these default settings now or after your table has been created.

Use default settings

- No secondary indexes.
- Provisioned capacity set to 5 reads and 5 writes.
- Basic alarms with 80% upper threshold using SNS topic "dynamodb".
- On-Demand Backup and Restore Enabled NEW!

You do not have the required role to enable Auto Scaling by default.
Please refer to documentation.

Additional charges may apply if you exceed the AWS Free Tier levels for CloudWatch or Simple Notification Service. Advanced alarm settings are available in the CloudWatch management console.

Cancel Create

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Table name* myProducts

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productId String

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Table name* myProducts

Primary key* Partition key

productId String

String
Binary
Number

Add sort key

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Create table Delete table

Filter by table name

Name
myProducts

myProducts Close

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Recent alerts

No CloudWatch alarms have been triggered for this table.

Stream details

Stream enabled	No
View type	-
Latest stream ARN	-

Manage Stream

Table details

Table name	myProducts
Primary partition key	productId (Number)
Primary sort key	-
Point-in-time recovery	DISABLED Enable
Encryption	DISABLED
Time to live attribute	DISABLED Manage TTL
Table status	Active
Creation date	September 4, 2018 at 4:36:44 PM UTC-7
Provisioned read capacity units	5 (Auto Scaling Enter)
Provisioned write capacity units	5 (Auto Scaling Enter)
Last decrease time	-
Last increase time	-
Storage size (in bytes)	0 bytes
Item count	0
Region	US East (N. Virginia)
Amazon Resource Name (ARN)	arn:aws:dynamodb:us-east-1: table/myProducts

Storage size and item count are not updated in real time. They are updated periodically, roughly every six hours.

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Create table Delete table

Filter by table name

Viewing 1 of 1 Tables

Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption
myProducts	Active	productId (Number)	-	0	5	5	ERROR	-

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Create table Delete table

Filter by table name:

Name

myProducts

myProducts Close

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Recent alerts

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Stream details

Stream enabled	No
View type	-
Latest stream ARN	-

Manage Stream

Table details

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Primary sort key	-
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Item count	0
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Encryption	DISABLED
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Creation date	September 4, 2018 at 4:39:44 PM UTC-7
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Provisioned write capacity units	5 (Auto Scaling Error)
Last decrease time	-
Last increase time	-
Storage size (in bytes)	0 bytes
Item count	0
Region	US East (N. Virginia)
Amazon Resource Name (ARN)	arn:aws:dynamodb:us-east-1: table/myProducts

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Filter by table name

Name

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myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create index Delete index

Name	Status	Type	Partition key	Sort key	Attributes	Read capacity	Write capacity	Size	Item count	Auto Scaling

Global Secondary Indexes (GSI) allow you to query efficiently over any field (attribute) in your DynamoDB table. GSIs can treat any table attribute as a key, even attributes not present in all items. More info

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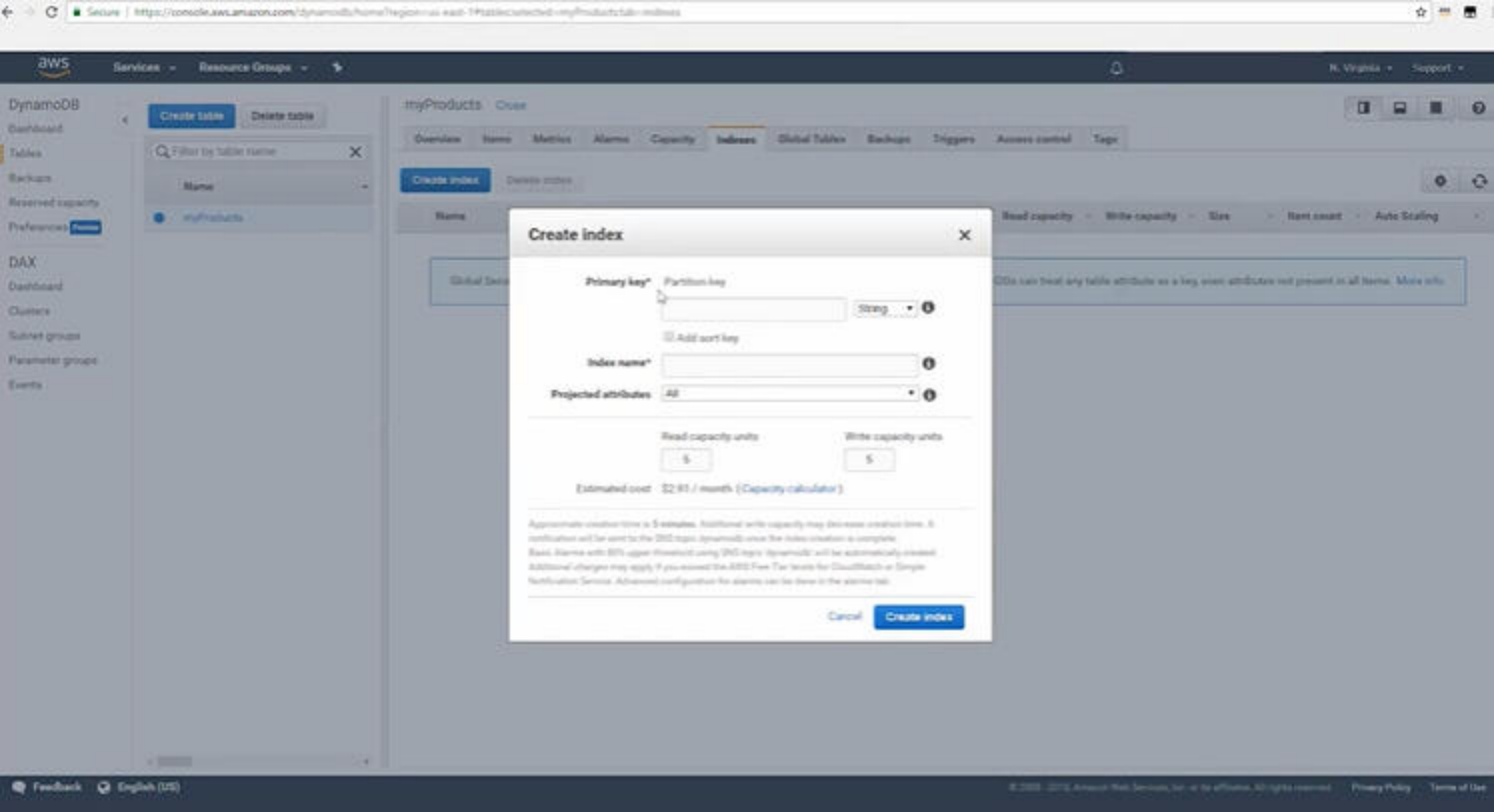
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Partition key
String
Add sort key
Index name*
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Write capacity units
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5
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Create table Delete table

Filter by table name

Name

myProducts

myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create index Delete index

Name Read capacity Write capacity Size Item count Auto Scaling

Global Secondary Indexes can treat any table attribute as a key, even attributes not present in all items. More info

Create index

Primary key* Partition key

product String

Add sort key

Index name* product-index

Projected attributes All

Read capacity units 5

Write capacity units 5

Estimated cost: $2.91 / month (Capacity calculator)

Approximate creation time is 5 minutes. Additional write capacity may decrease creation time. A notification will be sent to the SNS topic dynamodb once the index creation is complete. Basic Alarms with 80% upper threshold using SNS topic 'dynamodb' will be automatically created. Additional charges may apply if you exceed the AWS Free Tier levels for CloudWatch or Simple Notification Service. Advanced configuration for alarms can be done in the alarms tab.

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tablesselected=myProducts&tab=indexes

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Create table Delete table

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Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create index Delete index

Name Read capacity Write capacity Size Item count Auto Scaling

Global Secondary Indexes can treat any table attribute as a key, even attributes not present in all items. More info

Create index

Primary key* Partition key

productType String

Add sort key

Index name* productType-index

Projected attributes All

Read capacity units 5

Write capacity units 5

Estimated cost $2.81 / month (Capacity calculator)

Approximate creation time is 5 minutes. Additional write capacity may decrease creation time. A notification will be sent to the SNS topic dynamodb once the index creation is complete. Basic Alarms with 80% upper threshold using SNS topic dynamodb will be automatically created. Additional charges may apply if you exceed the AWS Free Tier levels for CloudWatch or Simple Notification Service. Advanced configuration for alarms can be done in the alarms tab.

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Create index Delete index

Name Read capacity Write capacity Size Item count Auto Scaling

Global Secondary Indexes can treat any table attribute as a key, even attributes not present in all items. More info

Create index

Primary key* Partition key

productType String

Add sort key

productID String

Index name* productType-product-index

Projected attributes All

Read capacity units 5

Write capacity units 5

Estimated cost $2.91 / month (Capacity calculator)

Approximate creation time is 5 minutes. Additional write capacity may decrease creation time. A notification will be sent to the SNS topic dynamodb once the index creation is complete. Basic Alarms with 80% upper threshold using SNS topic dynamodb will be automatically created. Additional charges may apply if you exceed the AWS Free Tier levels for CloudWatch or Simple Notification Service. Advanced configuration for alarms can be done in the alarms tab.

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Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create index Delete index

Name Read capacity Write capacity Size Item count Auto Scaling

Global Secondary Indexes can treat any table attribute as a key, even attributes not present in all items. More info

Create index

Primary key* Partition key

productType String

Add sort key

productFlavor String

Index name* productType-productFlavor-index

Projected attributes Keys only

Read capacity units 5

Write capacity units 5

Estimated cost $2.81 / month (Capacity calculator)

Approximate creation time is 5 minutes. Additional write capacity may decrease creation time. A notification will be sent to the SNS topic dynamodb once the index creation is complete. Basic Alarms with 80% upper threshold using SNS topic 'dynamodb' will be automatically created. Additional charges may apply if you exceed the AWS Free Tier limits for CloudWatch or Simple Notification Service. Advanced configuration for alarms can be done in the alarms tab.

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Primary key* Partition key

productType String

Add sort key

productFlavor String

Index name* productType-productFlavor-index

Projected attributes *Keys only

Read capacity units 5

Write capacity units 5

Estimated cost $2.91 / month (Capacity calculator)

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Filter by table name

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Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create index Delete index

Name	Status	Type	Partition key	Sort key	Attributes	Read capacity	Write capacity	Size	Item count	Auto Scaling
productType-productFlav	Creating	GSI	productType (String)	productFlavor (String	productId, pr	5	5	0	0	ERROR

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Filter by table name

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Create index Delete index

Name	Status	Type	Partition key	Sort key	Attributes	Read capacity	Write capacity	Size	Item count	Auto Scaling
productType-productFlav	Creating	GSI	productType (String)	productFlavor (String	productId, pr	5	5	0	0	ERROR

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#create-table

aws Services Resource Groups N. Virginia Support

Create DynamoDB table

Tutorial

DynamoDB is a schemaless database that only requires a table name and primary key. The table's primary key is made up of one or two attributes that uniquely identify items, partition the data, and sort data within each partition.

Table name*

Primary key* Partition key

String

Add sort key

Table settings

Default settings provide the fastest way to get started with your table. You can modify these default settings now or after your table has been created.

☑ Use default settings

- No secondary indexes.
- Provisioned capacity set to 5 reads and 5 writes.
- Basic alarms with 80% upper threshold using SNS topic "dynamodb".
- On-Demand Backup and Restore Enabled NEW!

You do not have the required role to enable Auto Scaling by default.
Please refer to documentation.

Additional charges may apply if you exceed the AWS Free Tier levels for CloudWatch or Simple Notification Service. Advanced alarm settings are available in the CloudWatch management console.

Cancel Create

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Create DynamoDB table

Tutorial

DynamoDB is a schemaless database that only requires a table name and primary key. The table's primary key is made up of one or two attributes that uniquely identify items, partition the data, and sort data within each partition.

Table name* myOrders

Primary key* Partition key

String

Add sort key

Table settings

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Create DynamoDB table

Tutorial

DynamoDB is a schemaless database that only requires a table name and primary key. The table's primary key is made up of one or two attributes that uniquely identify items, partition the data, and sort data within each partition.

Table name* myOrders

Primary key* Partition key

orderid String

Add sort key

Table settings

Default settings provide the fastest way to get started with your table. You can modify these default settings now or after your table has been created.

☑ Use default settings

- No secondary indexes.
- Provisioned capacity set to 5 reads and 5 writes.
- Basic alarms with 80% upper threshold using SNS topic "dynamodb".
- On Demand Backup and Restore Enabled NEW!

You do not have the required role to enable Auto Scaling by default.
Please refer to documentation.

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Create table Delete table

Filter by table name

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myProducts

myOrders Close

Overview

Table is being created

Recent alerts

No CloudWatch alarms have been triggered for this table.

Stream details

Stream enabled	No
View type	-
Latest stream ARN	-

Manage Stream

Table details

Table name	myOrders
Primary partition key	orderId (String)
Primary sort key	-
Point-in-time recovery	-
Encryption	DISABLED
Time to live attribute	-
Table status	Creating
Creation date	September 4, 2018 at 4:38:17 PM UTC-7
Provisioned read capacity units	5 (Auto Scaling Error)
Provisioned write capacity units	5 (Auto Scaling Error)
Last decrease time	-
Last increase time	-
Storage size (in bytes)	0 bytes
Item count	0
Region	US East (N. Virginia)
Amazon Resource Name (ARN)	arn:aws:dynamodb:us-east-1 table/myOrders

Storage size and item count are not updated in real-time. They are updated periodically, roughly every six hours.

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Filter by table name

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myProducts

myOrders Close

Overview

Table is being created

Recent alerts

No CloudWatch alarms have been triggered for this table.

Stream details

Stream enabled	No
View type	-
Latest stream ARN	-

Manage Stream

Table details

Table name	myOrders
Primary partition key	orderId (String)
Primary sort key	-
Point-in-time recovery	-
Encryption	DISABLED
Time to live attribute	-
Table status	Creating
Creation date	September 4, 2018 at 4:38:17 PM UTC-7
Provisioned read capacity units	5 (Auto Scaling Error)
Provisioned write capacity units	5 (Auto Scaling Error)
Last decrease time	-
Last increase time	-
Storage size (in bytes)	0 bytes
Item count	0
Region	US East (N. Virginia)
Amazon Resource Name (ARN)	arn:aws:dynamodb:us-east-1: table/myOrders

Storage size and item count are not updated in real-time. They are updated periodically, roughly every six hours.

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Create table Delete table

Filter by table name

Viewing 2 of 2 Tables

Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption
myOrders	Creating	orderId (String)	-	0	5	5	ERROR	-
myProducts	Updating	productId (Number)	-	1	10	10	ERROR	-

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Create table | Delete table

Filter by table name

Viewing 2 of 2 Tables

Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption
myOrders	Active	orderId (String)	-	0	5	5	ERROR	-
myProducts	Updating	productId (Number)	-	1	10	10	ERROR	-

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myOrders Close

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Recent alerts

No CloudWatch alarms have been triggered for this table.

Stream details

Stream enabled	No
View type	-
Latest stream ARN	-

Manage Stream

Table details

Table name	myOrders
Primary partition key	orderId (String)
Primary sort key	-
Point-in-time recovery	DISABLED Enable
Encryption	DISABLED
Time to live attribute	DISABLED Manage TTL
Table status	Active
Creation date	September 4, 2018 at 4:38:17 PM UTC-7
Provisioned read capacity units	5 (Auto Scaling Enter)
Provisioned write capacity units	5 (Auto Scaling Enter)
Last decrease time	-
Last increase time	-
Storage size (in bytes)	0 bytes
Item count	0
Region	US East (N. Virginia)
Amazon Resource Name (ARN)	arn:aws:dynamodb:us-east-1: table/myOrders

Storage size and item count are not updated in real time. They are updated periodically, roughly every six hours.

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Create index Delete index

Name	Status	Type	Partition key	Sort key	Attributes	Read capacity	Write capacity	Size	Item count	Auto Scaling

Global Secondary Indexes (GSI) allow you to query efficiently over any field (attribute) in your DynamoDB table. GSIs can treat any table attribute as a key, even attributes not present in all items. More info

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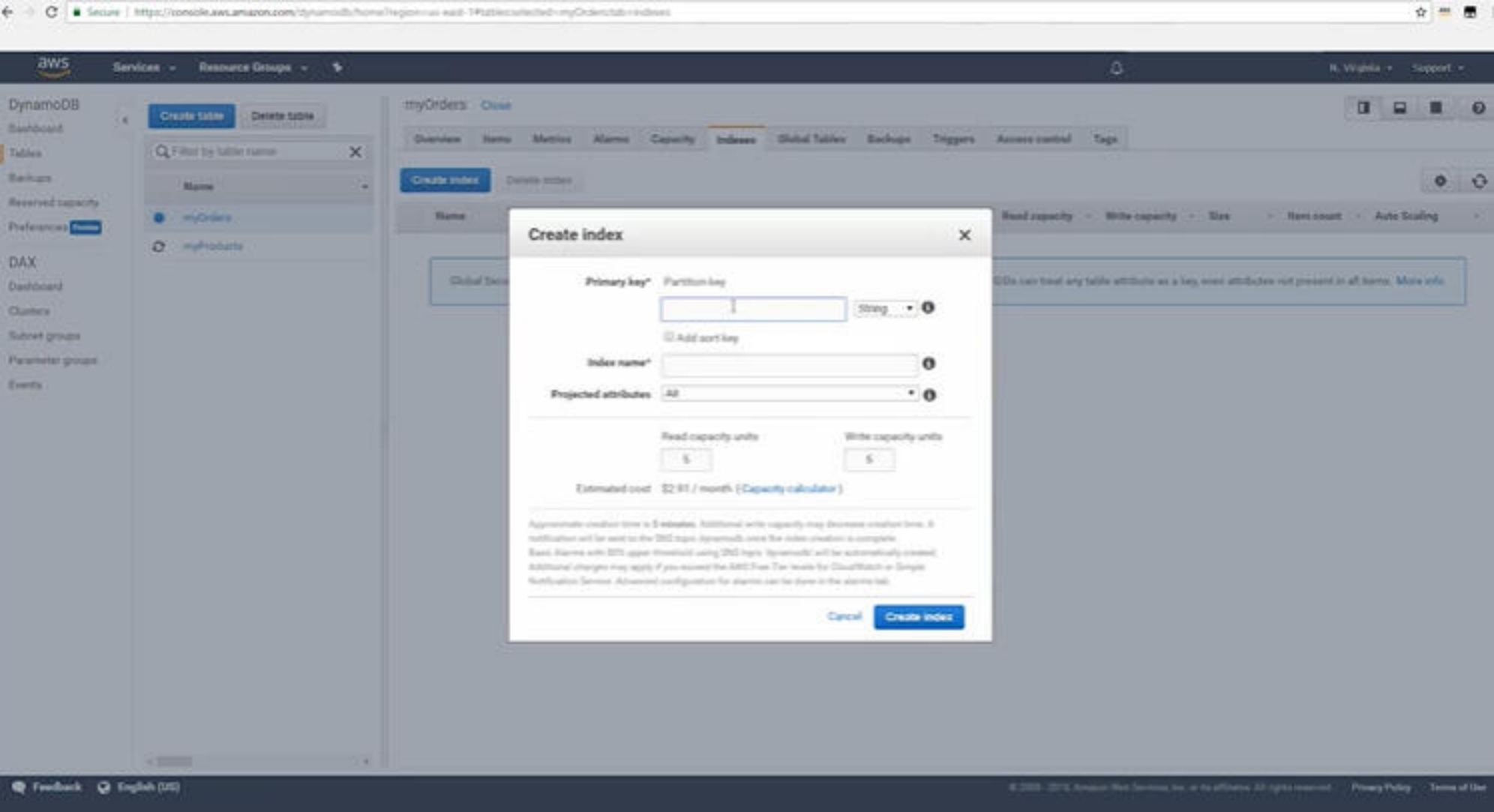
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Create index Delete index

Name Read capacity Write capacity Size Item count Auto Scaling

Global Secondary Indexes can treat any table attribute as a key, even attributes not present in all items. More info

Create index

Primary key* Partition key

userId String

Add sort key

Index name* userId-index

Projected attributes All

Read capacity units 5

Write capacity units 5

Estimated cost: $2.91 / month (Capacity calculator)

Approximate creation time is 5 minutes. Additional write capacity may decrease creation time. A notification will be sent to the SNS topic dynamodb once the index creation is complete. Basic Alarms with 80% upper threshold using SNS topic 'dynamodb' will be automatically created. Additional charges may apply if you exceed the AWS Free Tier levels for CloudWatch or Simple Notification Service. Advanced configuration for alarms can be done in the alarms tab.

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Create index Delete index

Name	Status	Type	Partition key	Sort key	Attributes	Read capacity	Write capacity	Size	Item count	Auto Scaling
userId-index	Creating	GSI	userId (String)	-	ALL	5	5	0	0	ERROR

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Create table | Delete table

Filter by table name

Viewing 2 of 2 Tables

Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption
myOrders	Updating	orderId (String)	-	1	10	10	ERROR	-
myProducts	Active	productId (Number)	-	1	10	10	ERROR	-

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Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption
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myProducts	Active	productId (Number)	-	1	10	10	ERROR	-

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Filter by table name

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Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption
myOrders	Active	orderId (String)	-	1	10	10	ERROR	-
myProducts	Active	productId (Number)	-	1	10	10	ERROR	-

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Filter by table name

Viewing 2 of 2 Tables

Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption
myOrders	Active	orderId (String)	-	1	10	10	ERROR	-
myProducts	Active	productId (Number)	-	1	10	10	ERROR	-

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AWS Lambda

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Functions

Lambda > Functions

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Delete

Create function

Filter by tags and attributes or search by keyword

1

Function name	Description	Runtime	Code size	Last Modified
DynamoDB-AddItems		Python 2.7	832 bytes	51 minutes ago
System_Provisioning		Python 2.7	6.7 kB	51 minutes ago
qls-121390-b945d14fk0ew57-ScrubCustomResourceLambd-6P9dMSTUH99S		Python 2.7	5.5 kB	51 minutes ago

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/DynamoDB-AddItems?tab=graph

aws Services Resource Groups N. Virginia Support

Lambda > Functions > DynamoDB-AddItems

ARN - arn:aws:lambda:us-east-1: function:DynamoDB-AddItems

DynamoDB-AddItems

Throttle Qualifiers Actions Select a test event... Test Save

This function belongs to the CloudFormation stack qls-121390-b945d149c0ee5711. Visit the CloudFormation console to manage this stack.

Configuration Monitoring

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A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.

Create new test event

Edit saved test events

Event template

Hello World

Event name

AddItems

```
{
  "key1": "value1",
  "key2": "value2",
  "key3": "value3"
}
```

Cancel

Create

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/DynamoDB-AddItems?tab=graph

aws Services Resource Groups N. Virginia Support

Lambda > Functions > DynamoDB-AddItems

ARN - arn:aws:lambda:us-east-1: function:DynamoDB-AddItems

DynamoDB-AddItems

Throttle | Qualifiers | Actions | AddItems | Test | Save

This function belongs to the CloudFormation stack qls-121390-b945d149c0ee5711. Visit the CloudFormation console to manage this stack.

Configuration | Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function

- API Gateway
- AWS IoT
- Alexa Skills Kit
- Alexa Smart Home
- CloudFront
- CloudWatch Events

Add triggers from the list on the left

DynamoDB-AddItems

Amazon CloudWatch Logs

Amazon DynamoDB

Resources the function's role has access to will be shown here

Function code info

Code entry type: Edit code inline

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/DynamoDB-AddItems?tab=graph

aws Services Resource Groups N. Virginia Support

Lambda > Functions > DynamoDB-AddItems

ARN - arn:aws:lambda:us-east-1: function:DynamoDB-AddItems

DynamoDB-AddItems

Throttle | Qualifiers | Actions | AddItems | Test | Save

This function belongs to the CloudFormation stack qls-121390-b945d149c0ee5711. Visit the CloudFormation console to manage this stack.

Configuration | Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function.

API Gateway

AWS IoT

Alexa Skills Kit

Alexa Smart Home

CloudFront

CloudWatch Events

Add triggers from the list on the left

DynamoDB-AddItems

Select a function

Amazon CloudWatch Logs

Amazon DynamoDB

Resources the function's role has access to will be shown here

Function code

Code entry type: Edit code inline

Runtime: Python 2.7

Handler: lambda_function.lambda_handler

Feedback | English (US)

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/DynamoDB-AddItems?tab=graph

aws Services Resource Groups N. Virginia Support

Lambda > Functions > DynamoDB-AddItems

ARN - arn:aws:lambda:us-east-1: function:DynamoDB-AddItems

DynamoDB-AddItems

Throttle | Qualifiers | Actions | AddItems | Test | Save

This function belongs to the CloudFormation stack qls-121390-b945d149c0ee5711. Visit the CloudFormation console to manage this stack.

Execution result: succeeded (logs)

Details

Configuration | Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function.

API Gateway

AWS IoT

Alexa Skills Kit

Alexa Smart Home

CloudFront

CloudWatch Events

Add triggers from the list on the left

DynamoDB-AddItems

Related functions

Select a function

Amazon CloudWatch Logs

Amazon DynamoDB

Resources the function's role has access to will be shown here

Function code

Feedback English (US)

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/DynamoDB-AddItems?edit=newUI&tab=graph

aws Services Resource Groups N. Virginia Support

Lambda > Functions > DynamoDB-AddItems

ARN - arn:aws:lambda:us-east-1: function:DynamoDB-AddItems

DynamoDB-AddItems

Throttle | Qualifiers | Actions | AddItems | Test | Save

This function belongs to the CloudFormation stack qls-121390-b945d149c0ee5711. Visit the CloudFormation console to manage this stack.

Execution result: succeeded (logs)

Details

Configuration | Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function.

API Gateway

AWS IoT

Alexa Skills Kit

Alexa Smart Home

CloudFront

CloudWatch Events

DynamoDB-AddItems

Related functions

Select a function

Add triggers from the list on the left

Amazon CloudWatch Logs

Amazon DynamoDB

Resources the function's role has access to will be shown here

Function code

Feedback English (US)

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/DynamoDB-AddItem?edit=newfile&tab=graph

aws Services Resource Groups N. Virginia Support

History
Lambda
DynamoDB
Console Home
Amazon Lex
IAM
S3

Group A-Z

Compute
EC2
Lightsail
Elastic Container Service
EKS
Lambda
Batch
Elastic Beanstalk

Storage
S3
EFS
Glacier
Storage Gateway

Database
RDS
DynamoDB
ElastiCache
Neptune
Amazon Redshift

Migration
AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
Snowball

Analytics
Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight
Data Pipeline
AWS Glue

Security, Identity & Compliance
IAM
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
CloudHSM
Directory Service
WAF & Shield
Artifact

Mobile Services
Mobile Hub
AWS AppSync
Device Farm
Mobile Analytics

Developer Tools
CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
Cloud9
X-Ray

Management Tools
CloudWatch
AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Systems Manager
Trusted Advisor
Managed Services

Media Services
Elastic Transcoder
Kinesis Video Streams
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor

Customer Engagement
Amazon Connect
Pinpoint
Simple Email Service

Business Productivity
Alexa for Business
Amazon Chime
WorkDocs
Worklink

Desktop & App Streaming
WorkSpaces
AppStream 2.0

Internet Of Things
IoT Core
IoT 1-Click
IoT Device Management
IoT Analytics
Greengrass
Amazon FreeRTOS
IoT Device Defender

Game Development
Amazon GameLift

Close

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1

aws Services Resource Groups N. Virginia Support

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:

aws Services Resource Groups N. Virginia Support

DynamoDB
- Dashboard
- Tables
- Backups
- Reserved capacity
- Preferences Preview

DAX
- Dashboard
- Clusters
- Subnet groups
- Parameter groups
- Events

Create table | Delete table

Filter by table name

Viewing 2 of 2 Tables

Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption
myOrders	Active	orderId (String)	-	1	10	10	ERROR	-
myProducts	Active	productId (Number)	-	1	10	10	ERROR	-

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tablesselected=myProducts;tab=overview

aws Services Resource Groups N. Virginia Support

DynamoDB
Dashboard
Tables
Backups
Reserved capacity
Preferences Preview

DAX
Dashboard
Clusters
Subnet groups
Parameter groups
Events

Create table Delete table

Filter by table name

Name
myOrders
myProducts

myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Recent alerts

No CloudWatch alarms have been triggered for this table.

Stream details

Stream enabled	No
View type	-
Latest stream ARN	-

Manage Stream

Table details

Table name	myProducts
Primary partition key	productId (Number)
Primary sort key	-
Point-in-time recovery	DISABLED Enable
Encryption	DISABLED
Time to live attribute	DISABLED Manage TTL
Table status	Active
Creation date	September 4, 2018 at 4:36:44 PM UTC-7
Provisioned read capacity units	5 (Auto Scaling Error)
Provisioned write capacity units	5 (Auto Scaling Error)
Last decrease time	-
Last increase time	-
Storage size (in bytes)	0 bytes
Item count	0
Region	US East (N. Virginia)
Amazon Resource Name (ARN)	arn:aws:dynamodb:us-east-1: table/myProducts

Storage size and item count are not updated in real time. They are updated periodically, roughly every six hours.

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=myProducts;tab=items

aws Services Resource Groups N. Virginia Support

DynamoDB
Dashboard
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Preferences Preview

DAX
Dashboard
Clusters
Subnet groups
Parameter groups
Events

Create table Delete table

Filter by table name

Name
myOrders
myProducts

myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create item Actions

Scan: [Table] myProducts: productId

Viewing 1 to 5 items

Scan [Table] myProducts: productId

Add filter

Start search

productId	productFlavor	productType
1	chocolate	ice cream
2	strawberry	ice cream
3	vanilla	ice cream
4	mango	frozen yogurt
5	blueberry	frozen yogurt

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tablesselected=myProducts&tab=items

aws Services Resource Groups N. Virginia Support

DynamoDB
Dashboard
Tables
Backups
Reserved capacity
Preferences Preview

DAX
Dashboard
Clusters
Subnet groups
Parameter groups
Events

Create table Delete table

Filter by table name

Name
myOrders
myProducts

myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

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Viewing 1 to 5 items

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2	strawberry	ice cream
3	vanilla	ice cream
4	mango	frozen yogurt
5	blueberry	frozen yogurt

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tablesselected=myProducts&tab=items

aws Services Resource Groups N. Virginia Support

DynamoDB
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Preferences Preview

DAX
Dashboard
Clusters
Subnet groups
Parameter groups
Events

Create table Delete table

Filter by table name

Name
myOrders
myProducts

myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

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Scan: [Table] myProducts: productId

Viewing 1 to 5 items

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3	vanilla	ice cream
4	mango	frozen yogurt
5	blueberry	frozen yogurt

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tablesselected=myProducts&tab=items

aws Services Resource Groups N. Virginia Support

DynamoDB
Dashboard
Tables
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Reserved capacity
Preferences Preview

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Parameter groups
Events

Create table Delete table

Filter by table name

Name
myOrders
myProducts

myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create item Actions

Scan: [Table] myProducts: productId

Viewing 1 to 5 items

Scan [Table] myProducts: productId

Add filter

Start search

productId	productFlavor	productType
1	chocolate	ice cream
2	strawberry	ice cream
3	vanilla	ice cream
4	mango	frozen yogurt
5	blueberry	frozen yogurt

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tablecontent=myProducts;tab=items

aws Services Resource Groups N. Virginia Support

History
DynamoDB
Lambda
Console Home
Amazon Lex
IAM
S3

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Group A-Z

Compute
EC2
Lightsail
Elastic Container Service
EKS
Lambda
Batch
Elastic Beanstalk

Storage
S3
EFS
Glacier
Storage Gateway

Database
RDS
DynamoDB
ElastiCache
Neptune
Amazon Redshift

Migration
AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
Snowball

Developer Tools
CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
Cloud9
X-Ray

Management Tools
CloudWatch
AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Systems Manager
Trusted Advisor
Managed Services

Media Services
Elastic Transcoder
Kinesis Video Streams
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor

Analytics
Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight
Data Pipeline
AWS Glue

Security, Identity & Compliance
IAM
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
CloudHSM
Directory Service
WAF & Shield
Artifact

Mobile Services
Mobile Hub
AWS AppSync
Device Farm
Mobile Analytics

Customer Engagement
Amazon Connect
Pinpoint
Simple Email Service

Business Productivity
Alexa for Business
Amazon Chime
WorkDocs
WorkMail

Desktop & App Streaming
WorkSpaces
AppStream 2.0

Internet Of Things
IoT Core
IoT 1-Click
IoT Device Management
IoT Analytics
Greengrass
Amazon FreeRTOS
IoT Device Defender

Game Development
Amazon GameLift

Close

Viewing 1 to 5 items

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions

aws Services Resource Groups N. Virginia Support

AWS Lambda

Dashboard

Functions

Lambda > Functions

Functions (3)

Actions Create function

Filter by tags and attributes or search by keyword

1

Function name	Description	Runtime	Code size	Last Modified
DynamoDB-AddItems		Python 2.7	832 bytes	52 minutes ago
System_Provisioning		Python 2.7	6.7 kB	52 minutes ago
qs-121590-b945d14fk0ew57-ScrubCustomResourceLambd-6P9dMSTUH9ML		Python 2.7	5.5 kB	52 minutes ago

Feedback English (US)

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/create

aws Services Resource Groups N. Virginia Support

Lambda > Functions > Create function

Create function

Author from scratch
Start with a simple "hello world" example.

Blueprints
Choose a preconfigured template as a starting point for your Lambda function.

Serverless Application Repository
Find and deploy serverless apps published by developers, companies, and partners on AWS.

Author from scratch Info

Name
myFunctionName

Runtime
Node.js 6.10

Role
Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.
Choose an existing role

Existing role
You may use an existing role with this function. Note that the role must be assumable by Lambda and must have CloudWatch Logs permissions.

Cancel Create function

Feedback English (US)

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/create

aws Services Resource Groups N. Virginia Support

Lambda > Functions > Create function

Create function

Author from scratch
Start with a simple "hello world" example.

Blueprints
Choose a preconfigured template as a starting point for your Lambda function.

Serverless Application Repository
Find and deploy serverless apps published by developers, companies, and partners on AWS.

Author from scratch info

Name
lex-backend

Runtime
Node.js 6.10

Role
Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.
Choose an existing role

Existing role
You may use an existing role with this function. Note that the role must be assumable by Lambda and must have CloudWatch Logs permissions.

Cancel Create function

Feedback English (US)

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/create

aws Services Resource Groups N. Virginia Support

Lambda > Functions > Create function

Create function

Author from scratch
Start with a simple "hello-world" example.

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Choose a preconfigured template as a starting point for your Lambda function.

Serverless Application Repository
Find and deploy serverless apps published by developers, companies, and partners on AWS.

Author from scratch info

Name
lex-backend

Runtime
Node.js 6.10

Role
Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.

Choose an existing role

Choose an existing role
Create new role from template(s)
Create a custom role

Cancel Create function

Feedback English (US)

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Secure | https://console.aws.amazon.com/iam/home#/one_click_role/request=%7B"context"%3A"lambda"%2C"returnURI"%3A"https%3A%2F%2Fconsole.aws.amazon.com%2Flambda%2Fredirect"%2C"requestID"%3A"lambdarole"%2C"template"%3A"lambda_logs"%2C"params"%3A%7B"allowDenyLo...

aws Services Resource Groups Global Support

AWS Lambda requires access to your resources

AWS Lambda uses an IAM role that grants your custom code permissions to access AWS resources it needs.

Hide Details

Role Summary

Role Description Lambda execution role permissions

IAM Role Create a new IAM Role

Role Name lambda_basic_execution

View Policy Document

Cancel Allow

Secure | https://console.aws.amazon.com/iam/home#/one_click_role/request=%7B"context"%3A"lambda"%2C"returnURI"%3A"https%3A%2F%2Fconsole.aws.amazon.com%2Flambda%2Fredirect"%2C"requestS"%7B"lambdaRole"%7B"template"%3A"lambda_logs"%2C"params"%7B"allowDenyLo...

aws Services Resource Groups Global Support

AWS Lambda requires access to your resources

AWS Lambda uses an IAM role that grants your custom code permissions to access AWS resources it needs.

Hide Details

Role Summary

Role Description Lambda execution role permissions

IAM Role Create a new IAM Role

Role Name lex-backend

View Policy Document

Cancel Allow

Secure | https://console.aws.amazon.com/iam/home#/one_click_role/request=%7B"context":"lambda","returnURI":"https%3A%2Fconsole.aws.amazon.com%2Flambda%2Fredirect","requestIs":%7B"lambdaArn":%7B"template":"lambda_logs","params":%7B"allowDenyLo...

aws Services Resource Groups Global Support

AWS Lambda requires access to your resources

AWS Lambda uses an IAM role that grants your custom code permissions to access AWS resources it needs.

Hide Details

Role Summary

Role Description Lambda execution role permissions

IAM Role Create a new IAM Role

Role Name lex-backend

Hide Policy Document

```
{
 "Version": "2012-10-17",
 "Statement": [
  {
   "Effect": "Allow",
   "Action": [
    "logs:CreateLogGroup",
    "logs:CreateLogStream",
    "logs:PutLogEvents"
   ],
```

Cancel Allow

Secure | https://console.aws.amazon.com/iam/home#/one_click_role/request=%7B"context":"lambda","returnURI":"https%3A%2F console.aws.amazon.com%2Flambda%2Fredirect","requestc":%7B"lambdaarcle":%7B"template":"lambda_logs","params":%7B"allowDenyLis...

aws Services Resource Groups Global Support

AWS Lambda requires access to your resources

AWS Lambda uses an IAM role that grants your custom code permissions to access AWS resources it needs.

Hide Details

Role Summary

Role Description Lambda execution role permissions

IAM Role Create a new IAM Role

Role Name lex-backend

Hide Policy Document

Edit

```
{
 "Version": "2012-10-17",
 "Statement": [
  {
   "Effect": "Allow",
   "Action": [
    "logs:CreateLogGroup",
    "logs:CreateLogStream",
    "logs:PutLogEvents"
   ],
```

Cancel Allow

Secure | https://console.aws.amazon.com/iam/home#/one_click_role/request=%7B"context":"lambda","returnURI":"https%3A%2F%2Fconsole.aws.amazon.com%2Flambda%2Fredirect","requestIdentifier":%7B"lambdaArn":%7B"template":"lambda_logs","params":%7B"allowDenyLo...

aws Services Resource Groups Global Support

AWS Lambda requires access to your resources

AWS Lambda uses an IAM role that grants your custom code permissions to access AWS resources it needs.

Hide Details

Role Summary

Role Description Lambda execution role permissions

IAM Role Create a new IAM Role

Role Name lex-backend

Hide Policy Document

Edit

```
      "Effect": "Allow",
      "Action": [
        "dynamodb:putItem"
      ],
      "Resource": [
        "arn:aws:dynamodb:*:*:table/myOrders"
      ]
    }
  ]
}
```

Cancel Allow

Secure | https://console.aws.amazon.com/iam/home#/one_click_role/request=%7B"context":"lambda","returnURI":"https%3A%2F%2Fconsole.aws.amazon.com%2Flambda%2Fredirect","requests":%7B"lambdaRole":%7B"template":"lambda_logs","params":%7B"allowDenyLo...

aws Services Resource Groups Global Support

AWS Lambda requires access to your resources

AWS Lambda uses an IAM role that grants your custom code permissions to access AWS resources it needs.

Hide Details

Role Summary

Role Description Lambda execution role permissions

IAM Role Create a new IAM Role

Role Name lex-backend

Hide Policy Document

Edit


```
      "Effect": "Allow",
      "Action": [
        "dynamodb:putItem"
      ],
      "Resource": [
        "arn:aws:dynamodb:*:*:table/myOrders"
      ]
    }
  ]
}
```


Cancel Allow

Secure | https://console.aws.amazon.com/iam/home#/one_click_role/request=%7B"context":"lambda","returnURI":"https%3A%2F%2Fconsole.aws.amazon.com%2Flambda%2Fredirect","requests":%7B"lambdarole":%7B"template":"lambda_logs","params":%7B"allowDenyLo...

aws Services Resource Groups Global Support

AWS Lambda requires access to your resources

AWS Lambda uses an IAM role that grants your custom code permissions to access AWS resources it needs.

Hide Details

Role Summary

Successful

Cancel Allow

Waiting for console.aws.amazon.com...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/create

aws Services Resource Groups N. Virginia Support

Lambda > Functions > Create function

Create function

Author from scratch
Start with a simple "hello world" example.

Blueprints
Choose a preconfigured template as a starting point for your Lambda function.

Serverless Application Repository
Find and deploy serverless apps published by developers, companies, and partners on AWS.

Author from scratch info

Name
lex-backend

Runtime
Node.js 6.10

Role
Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.
Choose an existing role

Existing role
You may use an existing role with this function. Note that the role must be assumable by Lambda and must have CloudWatch Logs permissions.
lex-backend

Cancel Create function

Feedback English (US)

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/create

aws Services Resource Groups N. Virginia Support

Lambda > Functions > Create function

Create function

Author from scratch
Start with a simple "hello-world" example.

Blueprints
Choose a preconfigured template as a starting point for your Lambda function.

Serverless Application Repository
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Author from scratch info

Name
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Runtime
Node.js 6.10

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lex-backend

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Feedback English (US)

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/create

aws Services Resource Groups N. Virginia Support

Lambda > Functions > Create function

Create function

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Start with a simple "hello world" example.

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Choose a preconfigured template as a starting point for your Lambda function.

Serverless Application Repository
Find and deploy serverless apps published by developers, companies, and partners on AWS.

Author from scratch info

Name
lex-backend

Runtime
Node.js 6.10

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lex-backend

Cancel Create function

Feedback English (US)

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-backend?newFunction=true&tab=graph

aws Services Resource Groups N. Virginia Support

Lambda > Functions > lex-backend

ARN - arn:aws:lambda:us-east-1: :function:lex-backend

lex-backend

Throttle Qualifiers Actions Select a test event... Test Save

Congratulations! Your Lambda function "lex-backend" has been successfully created. You can now change its code and configuration. Click on the "Test" button to input a test event when you are ready to test your function.

Configuration Monitoring

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-backend?newFunction=true&tab=graph

aws Services Resource Groups N. Virginia Support

lex-backend

Throttle Qualifiers Actions Select a test event... Test Save

Alexa Skills Kit
Alexa Smart Home
CloudFront
CloudWatch Events

Amazon DynamoDB

Resources the function's role has access to will be shown here

Function code

Code entry type: Edit code inline

Runtime: Node.js 6.10

Handler: index.handler

File Edit Find View Goto Tools Window

lex-backend
index.js

index.js

```
exports.handler = (event, context, callback) => {
    // TODO implement
    const response = {
        statusCode: 200,
        body: JSON.stringify('Hello from Lambda!')
    };
    callback(null, response);
};
```

Feedback English (US)

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-backend?newFunction=true&tab=graph

aws Services Resource Groups N. Virginia Support

lex-backend

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Alexa Smart Home

CloudFront

CloudWatch Events

Resources the function's role has access to will be shown here

Function code info

Code entry type: Edit code inline

Runtime: Node.js 6.10

Handler info: index.handler

File Edit Find View Goto Tools Window

Environment

lex-backend

index.js

```
exports.handler = (event, context, callback) => {
    // TODO implement
    const response = {
        statusCode: 200,
        body: JSON.stringify('Hello from Lambda!')
    };
    callback(null, response);
};
```

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aws Services Resource Groups N. Virginia Support

lex-backend

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Alexa Smart Home

CloudFront

CloudWatch Events

Resources the function's role has access to will be shown here

Function code info

Code entry type: Edit code inline

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

File Edit Find View Goto Tools Window

lex-backend

index.js

```
exports.handler = (event, context, callback) => {
    // TODO implement
    const response = {
        statusCode: 200,
        body: JSON.stringify("Hello From Lambda!")
    };
    callback(null, response);
};
```

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This PC › Downloads ›

Organize New folder

Quick access
Creative Cloud F
Downloads
Desktop
Documents
Pictures
Building A Dynamic
Data KCs
Math KCs
Reg KCs
OneDrive
This PC
Network

Name	Date	Type	Size	Length
lab2-lambda-bot-backend	8/4/2018 4:12 PM	Compressed (zipp...	4 KB	

File name: lab2-lambda-bot-backend
All Files
Open
Cancel

N. Virginia
Support

Throttle
Qualifiers
Actions
Select a test event...
Test
Save

Resources the function's role has access to will be shown here

Handler Info
lambda_function.lambda_handler

Key
Value
Remove

Encryption configuration

Tags

You can use tags to group and filter your functions. A tag consists of a case-sensitive key-value pair. Learn more

Key
Value
Remove

Feedback
English (US)

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Throttle Qualifiers Actions Select a test event... Test Save

Alexa Smart Home
CloudFront
CloudWatch Events

Resources the function's role has access to will be shown here

Function code Info

Code entry type: Upload a .ZIP file

Runtime: Python 2.7

Handler Info: lambda_function.lambda_handler

Function package*: Upload lab2-lambda-bot-backend.zip (3.3 kB)

For files larger than 10 MB, consider uploading via S3.

Environment variables

You can define Environment Variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. Learn more

Key Value Remove

▸ Encryption configuration

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Key Value Remove

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lex-backend

Throttle Qualifiers Actions Select a test event... Test Save

Alexa Smart Home

CloudFront

CloudWatch Events

Amazon DynamoDB

Resources the function's role has access to will be shown here

Function code info

Code entry type: Upload a .ZIP file

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

Function package*: Upload lab2-lambda-bot-backend.zip (3.3 kB)

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Key | Value | Remove

Encryption configuration

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Key | Value | Remove

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lex-backend

Throttle Qualifiers Actions Select a test event... Test Save

Alexa Smart Home

CloudFront

CloudWatch Events

Resources the function's role has access to will be shown here

Function code info

Code entry type: Edit code inline

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

Loading your function...

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Throttle | Qualifiers | Actions | Select a test event... | Test | Save

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CloudWatch Events

Resources the function's role has access to will be shown here

Function code info

Code entry type: Edit code inline

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

File Edit Find View Goto Tools Window

lex-backend

lambda_function.py

lambda_function

```
    return orderid


""" --- Functions that control the bot's behavior (Dat Intent Handler) --- """

def i_product_flavor(intent_request):
    """
    Called when the user triggers the GetProductFlavor Intent.
    """

    source = intent_request['invocationSource']
    slots = get_slots(intent_request)

    #list validation
    if source == 'DialogCodeHook':
        productTypeVal = validate_product_type(slots['productType'])
        if not productTypeVal['isValid']:
            slots[productTypeVal['violatedSlot']] = None

            return elicit_slot(intent_request['sessionAttributes'],
                               intent_request['currentIntent']['name'],
                               slots,
                               productTypeVal['violatedSlot'],
                               productTypeVal['message'])

        output_session_attributes = intent_request['sessionAttributes'] if intent_request['sessionAttributes'] is not None else {}
        return delegate(output_session_attributes, get_slots(intent_request))

    #Intent Fulfillment
    productFlavorsList = convert_string_array_to_string(get_product_flavors(slots['productType']))

    return close(intent_request['sessionAttributes'],
```

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Throttle | Qualifiers | Actions | Select a test event... | Test | Save

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CloudWatch Events

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Function code info

Code entry type: Edit code inline

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

File Edit Find View Goto Tools Window

lex-backend

lambda_function.py

lambda_function

```
    return orderid


""" --- Functions that control the bot's behavior (Dot Intent Handler) --- """

def i_product_flavor(intent_request):
    """
    Called when the user triggers the GetProductFlavor Intent.
    """

    source = intent_request['invocationSource']
    slots = get_slots(intent_request)

    #list validation
    if source == 'DialogCodeHook':
        productTypeVal = validate_product_type(slots['productType'])
        if not productTypeVal['isValid']:
            slots[productTypeVal['violatedSlot']] = None

            return elicit_slot(intent_request['sessionAttributes'],
                               intent_request['currentIntent']['name'],
                               slots,
                               productTypeVal['violatedSlot'],
                               productTypeVal['message'])

        output_session_attributes = intent_request['sessionAttributes'] if intent_request['sessionAttributes'] is not None else {}
        return delegate(output_session_attributes, get_slots(intent_request))

    #Intent Fulfillment
    productFlavorsList = convert_string_array_to_string(get_product_flavors(slots['productType']))
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Throttle | Qualifiers | Actions | Select a test event... | Test | Save

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Function code info

Code entry type: Edit code inline

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

File Edit Find View Goto Tools Window

lex-backend

lambda_function.py

lambda_function

```
    if productId in menu:
        return close(intent_request['sessionAttributes'],
            'Fulfilled',
            {'contentType': 'PlainText',
            'content': 'Sorry your order of {} cups of {} {} has not been placed due to a system error. ' \
            'Please try it again later or contact us via info@reinvent.bootcamp.'.format(slots['orderQuantity'], slots['productFlavor'], slots['productType']))

    #place order into DynamoDB order table and receive orderId in exchange
    orderId = placeOrder(userId, productId, slots['orderQuantity'])

    return close(intent_request['sessionAttributes'],
                 'Fulfilled',
                 {'contentType': 'PlainText',
                  'content': 'Thank you for ordering through reInvent bootcamp app. ' \
                  'Your order of {} cups of {} {} has been placed and will be processed ' \
                  'immediately (Order ID: {}). Can I help you with anything else?'.format(slots['orderQuantity'], slots['productFlavor'], slots['productType'], orderId))


def I_help(intent_request):
    """
    Called when the user triggers the Help Intent.
    """

    #Intent fulfillment
    return close(intent_request['sessionAttributes'],
                 'Fulfilled',
                 {'contentType': 'PlainText',
                  'content': 'Hi this is lex, your personal assistant. ' \
                             '. would you like to order something? ' \
                             '. or should I show you a list of available flavors for ' \
                             'one of our products?'})
```


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aws Services Resource Groups N. Virginia Support

lex-backend

Throttle Qualifiers Actions Select a test event... Test Save

```
    Route the incoming request based on intent.
    The JSON body of the request is provided in the event slot.
    # By default, treat the user request as coming from the Pacific timezone.
    os.environ['TZ'] = 'America/Los_Angeles'
    time.tzset()
    logger.info("Received event: {}".format(event))

    return dispatch(event)
```

1:1 Python Spaces: 4

Environment variables

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Key Value Remove

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Services Resource Groups

-backend

Throttle Qualifiers Actions Select a

```
385         return i_help(intent_request)
386
387     raise Exception('Intent with name ' + intent_name + ' not supported')
388
389
390 *** --- Main handler --- ***
391
392 def lambda_handler(event, context):
393     """
394     Route the incoming request based on intent.
395     The JSON body of the request is provided in the event slot.
396     """
397     # By default, treat the user request as coming from the Pacific timezone.
398     os.environ['TZ'] = 'America/Los_Angeles'
399     time.tzset()
400     logger.info('Received event: {}'.format(event))
401
402     return dispatch(event)
403
```

vironment variables

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-backend?newFunction=true&tab=graph

Services Resource Groups

-backend

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        return i_help(intent_request)

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Services Resource Groups

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Services Resource Groups

-backend

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Services Resource Groups

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Services Resource Groups

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Services Resource Groups

-backend

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-backend?newFunction=true&tab=graph

Services Resource Groups

-backend

Throttle Qualifiers Actions Select a

```
347                 {'contentType': 'PlainText',
348                  'content': 'Thank you for ordering through reInvent bootcamp bot. ' \
349                  'You order of {} cups of {} {} has been placed and will be processed ' \
350                  'immediately (Order ID: {}). Can I help you with anything else?'.format(slots['orderQuantity'], slots['productFlavor'], slots['pro
351
352
353 def i_help(intent_request):
354     """
355     Called when the user triggers the Help intent.
356     """
357
358     #Intent fulfillment
359     return close(intent_request['sessionAttributes'],
360                  'Fulfilled',
361                  {'contentType': 'PlainText',
362                   'content': "Hi this is lex, your personal assistant. " \
363                              "- Would you like to order something? " \
364                              "- or should I show you a list of available flavors for "\
365                              "one of our products?"})
366
367
368 """ --- Dispatch Intents --- """
369
370 def dispatch(intent_request):
371     """
372     Called when the user specifies an intent for this bot.
373     """
374
```

vironment variables

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-backend?newFunction=true&tab=graph

Services Resource Groups

-backend

Throttle Qualifiers Actions Select a

```
                'fulfilled',
                {'contentType': 'PlainText',
                 'content': 'Thank you for ordering through reInvent bootcamp bot. ' \
                 'You order of {} cups of {} {} has been placed and will be processed ' \
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def dispatch(intent_request):
    """
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    """
```

vironment variables

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-backend?newFunction=true&tab=graph

Services Resource Groups

-backend

Throttle Qualifiers Actions Select a

```
    productFlavorsList = convert_string_array_to_string(get_product_flavors(slots['productType']))

    return close(intent_request['sessionAttributes'],
                 'Fulfilled',
                 {'contentType': 'PlainText',
                  'content': 'Our {} offering consists of the following flavors: {}.'.format(slots['productType'],productFlavorsList)})


def i_order_product(intent_request):
    """
    Called when the user triggers the OrderProduct intent.
    """
    source = intent_request['invocationSource']

    slots = get_slots(intent_request)
    userId = intent_request['userId'] if intent_request['userId'] is not None else '0'

    #Slot validation
    if source == 'DialogCodeHook':
        if slots['productType'] is None and slots['productFlavor'] is not None:
            slots['productType'] = slots['productFlavor']

        productTypeVal = validate_product_type(slots['productType'])
        if not productTypeVal['isValid']:
            slots[productTypeVal['violatedSlot']] = None

            return elicit_slot(intent_request['sessionAttributes'],
```

vironment variables

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-backend?newFunction=true&tab=graph

Services Resource Groups

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Throttle Qualifiers Actions Select a

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vironment variables

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Services Resource Groups

-backend

Throttle Qualifiers Actions Select a

```
    return orderId


""" --- Functions that control the bot's behavior (bot intent handler) --- """

def i_product_flavor(intent_request):
    """
    Called when the user triggers the GetProductFlavor intent.
    """

    source = intent_request['invocationSource']
    slots = get_slots(intent_request)

    #Slot validation
    if source == 'DialogCodeHook':
        productTypeVal = validate_product_type(slots['productType'])
        if not productTypeVal['isValid']:
            slots[productTypeVal['violatedSlot']] = None

            return elicit_slot(intent_request['sessionAttributes'],
                               intent_request['currentIntent']['name'],
                               slots,
                               productTypeVal['violatedSlot'],
                               productTypeVal['message'])

        output_session_attributes = intent_request['sessionAttributes'] if intent_request['sessionAttributes'] is not None else {}
```

vironment variables

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-backend?newFunction=true&tab=graph

Services Resource Groups

-backend

Throttle Qualifiers Actions Select a

```
244
245     return orderId
246
247
248 *** --- Functions that control the bot's behavior (bot intent handler) --- ***
249
250 def i_product_flavor(intent_request):
251     """
252     Called when the user triggers the GetProductFlavor intent.
253     """
254
255     source = intent_request['invocationSource']
256     slots = get_slots(intent_request)
257
258     #Slot validation
259     if source == 'DialogCodeHook':
260         productTypeVal = validate_product_type(slots['productType'])
261         if not productTypeVal['isValid']:
262             slots[productTypeVal['violatedSlot']] = None
263
264             return elicit_slot(intent_request['sessionAttributes'],
265                                intent_request['currentIntent']['name'],
266                                slots,
267                                productTypeVal['violatedSlot'],
268                                productTypeVal['message'])
269
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```

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Services Resource Groups

-backend

Throttle Qualifiers Actions Select a

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244
245     return orderId
246
247
248 *** --- Functions that control the bot's behavior (bot intent handler) --- ***
249
250 def i_product_flavor(intent_request):
251     """
252     Called when the user triggers the GetProductFlavor intent.
253     """
254
255     source = intent_request['invocationSource']
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257
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261         if not productTypeVal['isValid']:
262             slots[productTypeVal['violatedSlot']] = None
263
264             return elicit_slot(intent_request['sessionAttributes'],
265                                intent_request['currentIntent']['name'],
266                                slots,
267                                productTypeVal['violatedSlot'],
268                                productTypeVal['message'])
269
270         output_session_attributes = intent_request['sessionAttributes'] if intent_request['sessionAttributes'] is not None else {}
```

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Services Resource Groups

-backend

Throttle Qualifiers Actions Select a

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246
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aws Services Resource Groups N. Virginia Support

lex-backend

Throttle Qualifiers Actions Select a test event... Test Save

```
    return orderId


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def i_product_flavor(intent_request):
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    #Slot validation
    if source == 'DialogCodeHook':
        productTypeVal = validate_product_type(slots['productType'])
        if not productTypeVal['isValid']:
            slots[productTypeVal['violatedSlot']] = None

            return elicit_slot(intent_request['sessionAttributes'],
                               intent_request['currentIntent']['name'],
                               slots,
                               productTypeVal['violatedSlot'],
                               productTypeVal['message'])

    output_session_attributes = intent_request['sessionAttributes'] if intent_request['sessionAttributes'] is not None else {}
```

(17 Bytes) 250:1 Python Spaces: 4

Environment variables

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Key Value Remove

▸ Encryption configuration

Tags

You can use tags to group and filter your functions. A tag consists of a case-sensitive key-value pair. Learn more.

Key Value Remove

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aws Services Resource Groups N. Virginia Support

lex-backend

Throttle Qualifiers Actions Select a test event... Test Save

```
    return orderId

*** --- Functions that control the bot's behavior (bot intent handler) --- ***

def i_product_flavor(intent_request):
    """
    Called when the user triggers the GetProductFlavor intent.
    """

    source = intent_request['invocationSource']
    slots = get_slots(intent_request)

    #Slot validation
    if source == 'DialogCodeHook':
        productTypeVal = validate_product_type(slots['productType'])
        if not productTypeVal['isValid']:
            slots[productTypeVal['violatedSlot']] = None

            return elicit_slot(intent_request['sessionAttributes'],
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Throttle Qualifiers Actions Select a test event... Test Save

```
    return orderId


*** --- Functions that control the bot's behavior (but intent handler) --- ***

def i_product_flavor(intent_request):
    """
    Called when the user triggers the GetProductFlavor Intent.
    """

    source = intent_request['invocationSource']
    slots = get_slots(intent_request)

    #Slot validation
    if source == 'DialogCodeHook':
        productTypeVal = validate_product_type(slots['productType'])
        if not productTypeVal['isValid']:
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    Called when the user triggers the GetProductFlavor Intent.
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- Lightsail
- Elastic Container Service
- EKS
- Lambda
- Batch
- Elastic Beanstalk

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- EFS
- Glacier
- Storage Gateway

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- ElastiCache
- Neptune
- Amazon Redshift

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- Application Discovery Service
- Database Migration Service
- Server Migration Service
- Snowball

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- EMR
- CloudSearch
- Elasticsearch Service
- Kinesis
- QuickSight
- Data Pipeline
- AWS Glue

Security, Identity & Compliance
- IAM
- Cognito
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- Inspector
- Amazon Macie
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- Certificate Manager
- CloudHSM
- Directory Service
- WAF & Shield
- Artifact

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- Device Farm
- Mobile Analytics

Developer Tools
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- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline
- Cloud9
- X-Ray

Management Tools
- CloudWatch
- AWS Auto Scaling
- CloudFormation
- CloudTrail
- Config
- OpsWorks
- Service Catalog
- Systems Manager
- Trusted Advisor
- Managed Services

Media Services
- Elastic Transcoder
- Kinesis Video Streams
- MediaConvert
- MediaLive
- MediaPackage
- MediaStore
- MediaTailor

Customer Engagement
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- Pinpoint
- Simple Email Service

Business Productivity
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- Amazon Chime
- WorkDocs
- WorkMail

Desktop & App Streaming
- WorkSpaces
- AppStream 2.0

Internet Of Things
- IoT Core
- IoT 1-Click
- IoT Device Management
- IoT Analytics
- Greengrass
- Amazon FreeRTOS
- IoT Device Defender

Game Development
- Amazon GameLift

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Amazon Lex

- Bots
- Intents
- Slot types

Bots

Create Actions

Filter: Filter by Bot name

Name	Status	Last updated	Date Created
myBot	READY	September 4, 2018 at 4:20:09 PM UTC-7	September 4, 2018 at 3:56:56 PM UTC-7

Feedback English (US)

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myBot Build Publish

Editor Settings Channels Monitoring

Intents

No intents created

Slot types

No slots created

Error Handling

Feedback English (US)

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GetProductFlavor Latest

Sample utterances

e.g. I would like to book a flight

Show me a list of {productType} flavors

Give me a list of {productType} flavors

Which {productType} flavors do you offer

Which flavors do you offerWhich {productType} flavors do you have

Which flavors do you have

Lambda initialization and validation

Slots

Priority	Required	Name	Slot type	Version	Prompt
		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1.	✔	productType	ProductType	1	For which product would you like to get a list

Confirmation prompt

Fulfillment

AWS Lambda function Return parameters to client

Lambda function lex-backend

Feedback English (US)

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You are about to give Amazon Lex permission to invoke your Lambda Function.

Cancel OK

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Utterances and slots cannot be edited in Built-in intents.

Sample utterances

Built-in intents provide an extensive set of pre-built utterances. These utterances cannot be viewed or edited.

Lambda initialization and validation

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Lambda function lex-backend

View in Lambda console

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Response

Add Message

Enable response card

Wait for user reply

If the user says "no," the following message will be presented:

* Required Field

Save Intent Detach intent

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Utterances and slots cannot be edited in Built-in intents.

Sample utterances

Built-in intents provide an extensive set of pre-built utterances. These utterances cannot be viewed or edited.

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Sample utterances

e.g. I would like to book a flight

I would like to order {productType}

I would like to order {productFlavor} {productType}

Send me {orderQuantity} cups of {productFlavor} {productType}

I would like to order {orderQuantity} cups of {productFlavor} {productType}

Lambda initialization and validation

Slots

Priority	Required	Name	Slot type	Version	Prompt
		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1.	✓	productType	ProductType	1	What kind of product would you like to order?
2.	✓	productFlavor	ProductFlavors	1	Which {productType} flavor would you like to
3.	✓	orderQuantity	AMAZON.NUMBER	Built-in	How many cups of {productFlavor} {productT

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		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1.	✔	productType	ProductType	1	What kind of product would you like to order?
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Feedback English (US)

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		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1.	✔	productType	ProductType	1	What kind of product would you like to order?
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1.		✔	productType	ProductType	1	What kind of product would you like to order?	
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3.		✔	orderQuantity	AMAZON.NUMBER	Built-in	How many cups of {productFlavor} {productT	

Confirmation prompt

Fulfillment

AWS Lambda function Return parameters to client

Lambda function Lambda function name

Response

Add Message

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		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?	
1.		productType	ProductType	1	What kind of product would you like to order?	
2.		productFlavor	ProductFlavors	1	Which {productType} flavor would you like to	
3.		orderQuantity	AMAZON.NUMBER	Built-in	How many cups of {productFlavor} {productT	

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AWS Lambda function Return parameters to client

Lambda function Lambda function name

DynamoDB-AddItems
lex-backend
qlik-121618-3d47559b5a71ad8-ScrubCasts...
System_Provisioning

Response

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		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1	✓	productType	ProductType	1	For which product would you like to get a list

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Build your bot

You can continue editing your bot while the build is in progress. You can start testing your bot after the build completes.

Cancel Build

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myBot build was successful
The build is now complete. You can now test the bot in the test window

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		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1.	✓	productType	ProductType	1	For which product would you like

Test bot (Latest)

Ready. Build complete

You're now ready for testing. Type an utterance below to begin conversation with your chatbot.

Clear chat history

Chat with your bot...

Inspect response

When you chat with your bot, you can see the fulfillment state of your intent and the responses here.

Feedback English (US)

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		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
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Test bot (Latest)

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Clear chat history

Chat with your bot...

DIG-DO-CUR-CRNETW-10-EN

coachbtnt

ML Regression

ML Regression Demo

ML Multi

When you chat with your bot, you can see the fulfillment state of your intent and the response here.

Feedback English (US)

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Build Publish

Test bot (Latest)

Ready. Build complete

You're now ready for testing. Type an utterance below to begin conversation with your chatbot.

Clear chat history

Chat with your bot...

DIG-DD-CUR-CRNETW-10-EN

coachktest

ML Regression

ML Regression Demo

ML Math

When you chat with your bot, you can see the fulfillment state of your intent and the response here.

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Type} flavors

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and validation

ation code hook

backend

in Lambda console

test

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

Build Publish

> Test bot (Latest)

Ready. Build complete

Help

Hi this is lex, your personal assistant. - Would you like to order something? - or should I show you a list of available flavors for one of our products?

Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Hide

Summary Detail

est

flight.

Type} flavors

ype} flavors

rs do you offer

hich {productType} flavors do you have

and validation

ation code hook

backend

in Lambda console

test

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

Build Publish

> Test bot (Latest)

Ready. Build complete

Help

Hi this is lex, your personal assistant. - Would you like to order something? - or should I show you a list of available flavors for one of our products?

Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Hid

Summary Detail

Type} flavors

ype} flavors

rs do you offer

hich {productType} flavors do you have

and validation

ation code hook

backend

in Lambda console

test

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

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in Lambda console

test

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

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Test bot (Latest) Ready. Build complete

Help

Hi this is lex, your personal assistant. - Would you like to order something? - or should I show you a list of available flavors for one of our products?

Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled Hid

Summary Detail

flight

Type} flavors

ype} flavors

rs do you offer

hich {productType} flavors do you have

and validation

ation code hook

backend

in Lambda console

test

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

Build Publish

> Test bot (Latest)

Ready. Build complete

Help

Hi this is lex, your personal assistant. - Would you like to order something? - or should I show you a list of available flavors for one of our products?

Clear chat history

Which flavors do

Inspect response

Dialog State: Fulfilled

Hid

Summary Detail

est

flight

Type} flavors

ype} flavors

rs do you offer

hich {productType} flavors do you have

and validation

ation code hook

backend

in Lambda console

test

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

Build Publish

> Test bot (Latest) Ready. Build complete

Help

Hi this is lex, your personal assistant. - Would you like to order something? - or should I show you a list of available flavors for one of our products?

Which flavors do you have

For which product would you like to get a list of flavors?

Clear chat history

Chat with your bot...

Inspect response

Dialog State: ElicitSlot Hid

Summary Detail

Intent: GetProductFlavor

Slots (0/1)

productType null

est

flight.

Type} flavors

ype} flavors

rs do you offer

hich {productType} flavors do you have

and validation

ation code hook

backend

in Lambda console

test

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

Build Publish

Test bot (Latest) Ready. Build complete

Help

Hi this is lex, your personal assistant. - Would you like to order something? - or should I show you a list of available flavors for one of our products?

Which flavors do you have

For which product would you like to get a list of flavors?

Clear chat history

Chat with your bot...

Inspect response

Dialog State: ElicitSlot

Summary Detail

Intent: GetProductFlavor

Slots (0/1)

productType null

flight

Type} flavors

ype} flavors

rs do you offer

hich {productType} flavors do you have

and validation

ation code hook

backend

in Lambda console

test

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

Build Publish

Test bot (Latest)

Ready. Build complete

Help

Hi this is lex, your personal assistant. - Would you like to order something? - or should I show you a list of available flavors for one of our products?

Which flavors do you have

For which product would you like to get a list of flavors?

Clear chat history

ice cream

Inspect response

Dialog State: ElicitSlot

Summary Detail

RequestID: f4cd9d94-b09d-11e8-9315-cfdfa22c66c7


```
{
  "dialogState": "ElicitSlot",
  "intentName": "GetProductFlavor",
  "message": "For which product would you like to get a list
  "messageFormat": "PlainText",
  "responseCard": null,
  "sessionAttributes": {},
  "slotToElicit": "productType",
  "slots": {
```


flight

Type} flavors

ype} flavors

rs do you offer

hich {productType} flavors do you have

and validation

ation code hook

backend

in Lambda console

test

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

Build Publish

Test bot (Latest)

Ready. Build complete

Which flavors do you have

For which product would you like to get a list of flavors?

ice cream

Our ice cream offering consists of the following flavors: chocolate, strawberry and vanilla.

Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Hid

Summary Detail

RequestID: 045a7b94-b09e-11e8-85fc-ef5df96db9a1


```
{
  "dialogState": "Fulfilled",
  "intentName": "GetProductFlavor",
  "message": "Our ice cream offering consists of the followi
  "messageFormat": "PlainText",
  "responseCard": null,
  "sessionAttributes": {},
  "slotToElicit": null,
  "slots": {
```


flight.

Type} flavors

ype} flavors

rs do you offer

hich {productType} flavors do you have

and validation

ation code hook

backend

in Lambda console

test

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

aws Services Resource Groups N. Virginia Support

myBot Latest

Build Publish

Editor Settings Channels Monitoring

Intents

GetProductFlavor

Help

OrderProduct

Slot types

ProductType

Error Handling

GetProductFlavor Latest

Sample utterances

e.g. I would like to book a flight

Show me a list of {productType} flavors

Give me a list of {productType} flavors

Which {productType} flavors do you offer

Which flavors do you offerWhich {productType} flavors do you have

Which flavors do you have

Lambda initialization and validation

Initialization and validation code hook

Lambda function: ice-backend

View in Lambda console

Version or alias: Latest

Slots

Priority	Required	Name	Slot type	Version	Prompt
		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1	✓	productType	ProductType	1	For which product would you like

Test bot (Latest)

Ready. Build complete

Which flavors do you have

For which product would you like to get a list of flavors?

ice cream

Our ice cream offering consists of the following flavors: chocolate, strawberry and vanilla.

Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Summary Detail

RequestID: 045a7b84-b09e-11e8-85fc-ef5d9bdb9a1


```
{
  "dialogState": "Fulfilled",
  "intentName": "GetProductFlavor",
  "message": "Our ice cream offering consists of the follow
  "messageFormat": "PlainText",
  "responseCard": null,
  "sessionAttributes": {},
  "sentiment": null,
  "slots": {
    "productType": "ice cream"
  }
}
```


Feedback English (US)

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aws Services Resource Groups N. Virginia Support

myBot Latest

Build Publish

Editor Settings Channels Monitoring

Intents

GetProductFlavor

Help

OrderProduct

Slot types

ProductType

Error Handling

GetProductFlavor Latest

Sample utterances

e.g. I would like to book a flight

Show me a list of {productType} flavors

Give me a list of {productType} flavors

Which {productType} flavors do you offer

Which flavors do you offerWhich {productType} flavors do you have

Which flavors do you have

Lambda initialization and validation

Initialization and validation code hook

Lambda function: ice-backend

View in Lambda console

Version or alias: Latest

Slots

Priority	Required	Name	Slot type	Version	Prompt
		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1	✓	productType	ProductType	1	For which product would you like

Test bot (Latest)

Ready. Build complete

Which flavors do you have

For which product would you like to get a list of flavors?

ice cream

Our ice cream offering consists of the following flavors: chocolate, strawberry and vanilla.

Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Summary Detail

RequestID: 045a7b84-b09e-11e8-85fc-ef5df96d6a1


```
{
  "dialogState": "Fulfilled",
  "intentName": "GetProductFlavor",
  "message": "Our ice cream offering consists of the follow
  "messageFormat": "PlainText",
  "responseCard": null,
  "sessionAttributes": {},
  "slotToElicit": null,
  "slots": {
    "productType": "ice cream"
  }
}
```


Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1

aws Services Resource Groups N. Virginia Support

DynamoDB
- Dashboard
- Tables
- Backups
- Reserved capacity
- Preferences Preview

DAX
- Dashboard
- Clusters
- Subnet groups
- Parameter groups
- Events

Create table

Amazon DynamoDB is a fully managed non-relational database service that provides fast and predictable performance with seamless scalability.

Create table

Recent alerts

No CloudWatch alarms have been triggered.

View all in CloudWatch

Total capacity for US East (N. Virginia)

Not Authorized

Provisioned read capacity	20
Provisioned write capacity	20

Service health

Current Status	Details
Amazon DynamoDB (N. Virginia)	Service is operating normally

View complete service health details

Learn more

What's new

- Point-in-time Recovery
- Encryption At Rest
- On-Demand Backup and Restore
- Global Tables

Related services

- Amazon DynamoDB Accelerator (DAX)
- Amazon ElastiCache

Additional resources

- Getting started guide
- FAQ
- Developer guide
- Report an issue
- Getting started hands-on lab
- Forums

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Create table Delete table

Filter by table name

Viewing 2 of 2 Tables

Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption

Feedback English (US)

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DAX
- Dashboard
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- Subnet groups
- Parameter groups
- Events

Create table | Delete table

Filter by table name

Viewing 2 of 2 Tables

Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption
myOrders	Active	orderId (String)	-	1	10	10	ERROR	-
myProducts	Active	productId (Number)	-	1	10	10	ERROR	-

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=myProducts;tab=overview

aws Services Resource Groups N. Virginia Support

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Create table Delete table

Filter by table name

Name

myOrders

myProducts

myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=myProducts;tab=items

aws Services Resource Groups N. Virginia Support

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Create table Delete table

Filter by table name

Name
myOrders
myProducts

myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create item Actions

Scan: [Table] myProducts: productId Pause Searching

Scan [Table] myProducts: productId

Add filter

Start search

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=myProducts;tab=items

aws Services Resource Groups N. Virginia Support

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Parameter groups
Events

myProducts Close

Showing 1 to 5 items

Create item

Tree

Item {3}

productId Number

productType String

productFlavor String

Cancel Save

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myProducts Close

Create item

Tree

Item {3}

productId Number :

productType String :

productFlavor String :

myProducts Close

Create item

Tree

Text

Tree

Number :

productType String :

productFlavor String :

myProducts Close

Create item

Text DynamoDB JSON

```
1 {
2   "productId": 0,
3   "productType": "",
4   "productFlavor": ""
5 }
```

myProducts Close

Create item

Text DynamoDB JSON

```
{
  "productId": 0,
  "productType": "",
  "productFlavor": ""
}
```

myProducts Close

Create item

Text DynamoDB JSON

1

myProducts Close

Create item

Text DynamoDB JSON

```
{
    "productId": 6,
    "productType": "ice cream",
    "productFlavor": "FLAVOR"
}
```

myProducts Close

Create item

Text DynamoDB JSON

```
{
    "productId": 6,
    "productType": "ice cream",
    "productFlavor": "FLAVOR"
}
```

myProducts Close

Create item

Text DynamoDB JSON

```
{
    "productId": 6,
    "productType": "ice cream",
    "productFlavor": "FLAVOR"
}
```

myProducts Close

Create item

Text DynamoDB JSON

```
1 {
2     "productId": 6,
3     "productType": "ice cream",
4     "productFlavor": "FLAVOR"
5 }
```

myProducts Close

Create item

Text DynamoDB JSON

```
1 {
2     "productId": 6,
3     "productType": "ice cream",
4     "productFlavor": "vanilla
5 }
```

Create item

```
{
    "productId": 4,
    "producttype": "ice cream",
    "productflavor": "vanilla"
}
```

Cancel Save

Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=myProducts;tab=items

aws Services Resource Groups N. Virginia Support

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Create table Delete table

Filter by table name

Name
myOrders
myProducts

myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create item Actions

Scan: [Table] myProducts: productId

Viewing 1 to 6 items

Scan [Table] myProducts: productId

Add filter

Start search

productId	productFlavor	productType
1	chocolate	ice cream
2	strawberry	ice cream
3	vanilla	ice cream
4	mango	frozen yogurt
5	blueberry	frozen yogurt
6	vanilla	ice cream

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=myProducts;tab=items

aws Services Resource Groups N. Virginia Support

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Dashboard
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Events

Create table Delete table

Filter by table name

Name
myOrders
myProducts

myProducts Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create item Actions

Scan: [Table] myProducts: productId

Viewing 1 to 6 items

Scan [Table] myProducts: productId

Add filter

Start search

productId	productFlavor	productType
1	chocolate	ice cream
2	strawberry	ice cream
3	vanilla	ice cream
4	mango	frozen yogurt
5	blueberry	frozen yogurt
6	vanilla	ice cream

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#table:selected=myProductTable;tab=items

aws Services Resource Groups N. Virginia Support

History
DynamoDB
Amazon Lex
IAM
Lambda
Console Home
S3

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Group A-Z

Compute
EC2
Lightsail
Elastic Container Service
EKS
Lambda
Batch
Elastic Beanstalk

Developer Tools
CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
Cloud9
X-Ray

Analytics
Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight
Data Pipeline
AWS Glue

Customer Engagement
Amazon Connect
Pinpoint
Simple Email Service

Business Productivity
Alexa for Business
Amazon Chime

Subnet groups
Parameter groups
Events

Viewing 1 to 6 items

productId	productFlavor	productType
1	chocolate	ice cream
2	strawberry	ice cream
3	vanilla	ice cream
4	mango	frozen yogurt
5	blueberry	frozen yogurt
6	vanilla	ice cream

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#table:selected=myProductTable;tab=items

aws Services Resource Groups N. Virginia Support

History
DynamoDB
Amazon Lex
IAM
Lambda
Console Home
S3

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Group A-Z

Compute
EC2
Lightsail
Elastic Container Service
EKS
Lambda
Batch
Elastic Beanstalk

Storage
S3
EFS
Glacier
Storage Gateway

Database
RDS
DynamoDB
ElastiCache
Neptune
Amazon Redshift

Migration
AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
Snowball

Developer Tools
CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
Cloud9
X-Ray

Management Tools
CloudWatch
AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Systems Manager
Trusted Advisor
Managed Services

Media Services
Elastic Transcoder
Kinesis Video Streams
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor

Analytics
Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight
Data Pipeline
AWS Glue

Security, Identity & Compliance
IAM
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
CloudHSM
Directory Service
WAF & Shield
Artifact

Mobile Services
Mobile Hub
AWS AppSync
Device Farm
Mobile Analytics

Customer Engagement
Amazon Connect
Pinpoint
Simple Email Service

Business Productivity
Alexa for Business
Amazon Chime
WorkDocs
WorkMail

Desktop & App Streaming
WorkSpaces
AppStream 2.0

Internet Of Things
IoT Core
IoT 1-Click
IoT Device Management
IoT Analytics
Greengrass
Amazon FreeRTOS
IoT Device Defender

Game Development
Amazon GameLift

Close

Viewing 1 to 6 items

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tableselected=myProductsTab=items

aws Services Resource Groups N. Virginia Support

History
DynamoDB
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IAM
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Console Home
S3

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Group A-Z

S3
EFS
Glacier
Storage Gateway

Database
RDS
DynamoDB
ElastiCache
Neptune
Amazon Redshift

Migration
AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
Snowball

Networking & Content Delivery
VPC
CloudFront
Route 53
API Gateway
Direct Connect

CloudWatch
AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Systems Manager
Trusted Advisor
Managed Services

Media Services
Elastic Transcoder
Kinesis Video Streams
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor

Machine Learning
Amazon SageMaker
Amazon Comprehend
AWS DeepLens
Amazon Lex
Machine Learning
Amazon Polly
Rekognition
Amazon Transcribe
Amazon Translate

Security, Identity & Compliance
IAM
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
CloudHSM
Directory Service
WAF & Shield
Artifact

Mobile Services
Mobile Hub
AWS AppSync
Device Farm
Mobile Analytics

AR & VR
Amazon Sumerian

Application Integration
Step Functions
Amazon MQ
Simple Notification Service
Simple Queue Service
SWF

Desktop & App Streaming
WorkSpaces
AppStream 2.0

Internet Of Things
IoT Core
IoT 1-Click
IoT Device Management
IoT Analytics
Greengrass
Amazon FreeRTOS
IoT Device Defender

Game Development
Amazon GameLift

Close

Viewing 1 to 6 items

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Secure | https://console.aws.amazon.com/lex/home?region=us-east-1

aws Services Resource Groups N. Virginia Support

Amazon Lex

- Bots
- Intents
- Slot types

Bots

Create Actions

Filter: Filter by Bot name

Name	Status	Last updated	Date Created
myBot	READY	September 4, 2018 at 4:20:06 PM UTC-7	September 4, 2018 at 3:56:56 PM UTC-7

Feedback English (US)

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Secure | https://console.aws.amazon.com/lex/home?region=us-east-1

aws Services Resource Groups N. Virginia Support

Amazon Lex

- Bots
- Intents
- Slot types

Bots

Create Actions

Filter: Filter by Bot name

Name	Status	Last updated	Date Created
myBot	READY	September 4, 2018 at 4:20:09 PM UTC-7	September 4, 2018 at 3:56:56 PM UTC-7

Feedback English (US)

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Secure | https://console.aws.amazon.com/lex/home?region=us-east-1#bot-editor/bot=myBot

aws Services Resource Groups N. Virginia Support

myBot

Build Publish

Editor Settings Channels Monitoring

Intents

No intents created

Slot types

No slots created

Error Handling

Feedback English (US)

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Secure | https://console.aws.amazon.com/lex/home?region=us-east-1#bot-editor/bot/myBot

aws Services Resource Groups N. Virginia Support

myBot Latest

Build Publish

Editor Settings Channels Monitoring

Intents

GetProductFlavor

Help

OrderProduct

Slot types

No slots created

Error Handling

GetProductFlavor

Sample utterances

Built-in intents provide an extensive set of pre-built utterances. These utterances cannot be viewed or edited.

e.g. I would like to book a flight

Lambda initialization and validation

Slots

Priority	Required	Name	Slot type	Version	Prompt
		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

Confirmation prompt

Fulfilment

AWS Lambda function Return parameters to client

Response

Save Intent Detach Intent

Feedback English (US)

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Secure | https://console.aws.amazon.com/lex/home?region=us-east-1#bot-editor:bot=myBot

aws Services Resource Groups N. Virginia Support

myBot Latest

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Intents

GetProductFlavor

Help

OrderProduct

Slot types

ProductType

Error Handling

GetProductFlavor Latest

Sample utterances

e.g. I would like to book a flight

Show me a list of {productType} flavors

Give me a list of {productType} flavors

Which {productType} flavors do you offer

Which flavors do you offerWhich {productType} flavors do you have

Which flavors do you have

Lambda initialization and validation

Slots

Priority	Required	Name	Slot type	Version	Prompt
		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1.	✔	productType	ProductType	1	For which product would you like to get a list

Confirmation prompt

Fulfilment

AWS Lambda function Return parameters to client

Lambda function lex-backend

Feedback English (US)

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Services Resource Groups N. Virginia Support

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Channels Monitoring

GetProductFlavor Latest

Sample utterances

e.g. I would like to book a flight

Show me a list of {productType} flavors

Give me a list of {productType} flavors

Which {productType} flavors do you offer

Which flavors do you offerWhich {productType} flavors do you have

Which flavors do you have

Lambda initialization and validation

Slots

Priority	Required	Name	Slot type	Version	Prompt
		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1	✓	productType	ProductType	1	For which product would you like

Confirmation prompt

Fulfillment

AWS Lambda function Return parameters to client

Lambda function lex-backend

Test bot (Latest) Ready. Build complete

You're now ready for testing. Type an utterance below to begin conversation with your chatbot.

Clear chat history

Chat with your bot...

Inspect response

When you chat with your bot, you can see the fulfillment state of your intent and the response here.

Build Publish

Test bot (Latest)

Ready. Build complete

flight

Type} flavors

ype} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

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Ready. Build complete

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Clear chat history

DIG-DD-CUR-CRNETW-10-EN
coachktest
ML Regression
ML Regression Demo
ML Math

When you chat with your bot, you can see the fulfillment state of your intent and the response here.

flight

Type} flavors

ype} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

Test bot (Latest)

Ready. Build complete

est

flight.

Type} flavors

ype} flavors

es do you offer

hich {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

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Clear chat history

Give me a list of ic

Inspect response

When you chat with your bot, you can see the fulfillment state of your intent and the response here.

Build Publish

Test bot (Latest)

Ready. Build complete

est

flight

Type} flavors

ype} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

You're now ready for testing. Type an utterance below to begin conversation with your chatbot.

Clear chat history

Give me a list of ice cream flavors

Inspect response

When you chat with your bot, you can see the fulfillment state of your intent and the response here.

Build Publish

Test bot (Latest) Ready. Build complete

Give me a list of ice cream flavors

Our ice cream offering consists of the following flavors: chocolate, strawberry, vanilla and vanilla.

Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled Hide

Summary Detail

Intent: GetProductFlavor

Slots (1/1)

productType ice cream

flight

{Type} flavors

{ype} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

Test bot (Latest) Ready. Build complete

Give me a list of ice cream flavors

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Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled Hide

Summary Detail

Intent: GetProductFlavor

Slots (1/1)

productType ice cream

flight

{Type} flavors

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Which {productType} flavors do you have

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Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

Test bot (Latest) Ready. Build complete

Give me a list of ice cream flavors

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Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled Hide

Summary Detail

Intent: GetProductFlavor

Slots (1/1)

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{Type} flavors

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Which {productType} flavors do you have

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Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

flight

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Which {productType} flavors do you have

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Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Test bot (Latest)

Ready. Build complete

Give me a list of ice cream flavors

Our ice cream offering consists of the following flavors: chocolate, strawberry, vanilla and vanilla.

Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Hide

Summary Detail

Intent: GetProductFlavor

Slots (1/1)

productType ice cream

Build Publish

Test bot (Latest) Ready. Build complete

Give me a list of ice cream flavors

Our ice cream offering consists of the following flavors: chocolate, strawberry, vanilla and vanilla.

Clear chat history

Chat with your bot ...

Inspect response

Dialog State: Fulfilled Hide

Summary Detail

Intent: GetProductFlavor

Slots (1/1)

productType ice cream

flight

{Type} flavors

{ype} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

Test bot (Latest)

Ready. Build complete

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Our ice cream offering consists of the following flavors: chocolate, strawberry, vanilla and vanilla.

Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Hide

Summary Detail

Intent: GetProductFlavor

Slots (1/1)

productType ice cream

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Type} flavors

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and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

Test bot (Latest) Ready. Build complete

Give me a list of ice cream flavors

Our ice cream offering consists of the following flavors: chocolate, strawberry, vanilla and vanilla.

Clear chat history

I w

Inspect response

Dialog State: Fulfilled Hide

Summary Detail

Intent: GetProductFlavor

Slots (1/1)

productType ice cream

flight

{Type} flavors

{ype} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

Test bot (Latest) Ready. Build complete

Give me a list of ice cream flavors

Our ice cream offering consists of the following flavors: chocolate, strawberry, vanilla and vanilla.

Clear chat history

I would like to order fo

Inspect response

Dialog State: Fulfilled Hid

Summary Detail

Intent: GetProductFlavor

Slots (1/1)

productType ice cream

flight

{productType} flavors

{productType} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

Test bot (Latest)

Ready. Build complete

Give me a list of ice cream flavors

Our ice cream offering consists of the following flavors: chocolate, strawberry, vanilla and vanilla.

I would like to order frozen yogurt

Which frozen yogurt flavor would you like to order?

Clear chat history

Chat with your bot...

flavors

flavors

do you offer

{productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Inspect response

Dialog State: ElicitSlot

Hide

Summary Detail

Intent: OrderProduct

Slots	(1/3)
orderQuantity	null
productFlavor	null
productType	frozen yogurt

Build Publish

Test bot (Latest) Ready. Build complete

vanilla and vanilla.

I would like to order frozen yogurt

Which frozen yogurt flavor would you like to order?

mango

How many cups of mango frozen yogurt would you like to order?

Clear chat history

Chat with your bot...

Inspect response

Dialog State: ElicitSlot Hide

Summary Detail

Intent: OrderProduct

Slots	(2/3)
orderQuantity	null
productFlavor	mango
productType	frozen yogurt

flight

{Type} flavors

{Type} flavors

ers do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

Test bot (Latest) Ready. Build complete

vanilla and vanilla.

I would like to order frozen yogurt

Which frozen yogurt flavor would you like to order?

mango

How many cups of mango frozen yogurt would you like to order?

Clear chat history

Chat with your bot...

Inspect response

Dialog State: ElicitSlot Hide

Summary Detail

Intent: OrderProduct

Slots	(2/3)
orderQuantity	null
productFlavor	mango
productType	frozen yogurt

flight

{Type} flavors

{ype} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

Test bot (Latest)

Ready. Build complete

vanilla and vanilla.

I would like to order frozen yogurt

Which frozen yogurt flavor would you like to order?

mango

How many cups of mango frozen yogurt would you like to order?

Clear chat history

Chat with your bot...

Inspect response

Dialog State: ElicitSlot

Hide

Summary Detail

Intent: OrderProduct

Slots	(2/3)
orderQuantity	null
productFlavor	mango
productType	frozen yogurt

flight

{Type} flavors

{Type} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Build Publish

flight

Type} flavors

ype} flavors

es do you offer

hich {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Test bot (Latest)

Ready. Build complete

cups. How many would you like to order?

yes

How many cups of mango frozen yogurt would you like to order?

5

Are you sure you want to order 5 cups of mango frozen yogurt?

Clear chat history

Chat with your bot

Inspect response

Dialog State: ConfirmIntent

Hide

Summary Detail

Intent: OrderProduct

Slots	(3/3)
orderQuantity	5
productFlavor	mango
productType	frozen yogurt

Build Publish

Test bot (Latest) Ready. Build complete

cups. How many would you like to order?

yes

How many cups of mango frozen yogurt would you like to order?

5

Are you sure you want to order 5 cups of mango frozen yogurt?

Clear chat history

Chat with your bot

flight

Type} flavors

ype} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Inspect response

Dialog State: ConfirmIntent Hide

Summary Detail

Intent: OrderProduct

Slots	(3/3)
orderQuantity	5
productFlavor	mango
productType	frozen yogurt

Build Publish

Test bot (Latest) Ready. Build complete

flight

Type} flavors

ype} flavors

es do you offer

hich {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

cups. How many would you like to order?

yes

How many cups of mango frozen yogurt would you like to order?

5

Are you sure you want to order 5 cups of mango frozen yogurt?

Clear chat history

Chat with your bot

Inspect response

Dialog State: ConfirmIntent Hide

Summary Detail

Intent: OrderProduct

Slots	(3/3)
orderQuantity	5
productFlavor	mango
productType	frozen yogurt

Build | Publish

flight

Type} flavors

ype} flavors

es do you offer

hich {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

Test bot (Latest)

Ready. Build complete

mango frozen yogurt?

yes

Thank you for ordering through reinvent bootcamp bot. You order of 5 cups of mango frozen yogurt has been placed and will be processed immediately (Order ID: 651c0f12-d626-40b9-a6e1-7fdcb43e6a74). Can I help you with anything else?

Clear chat history

Chat with your bot

Inspect response

Dialog State: Fulfilled

Hide

Summary | Detail

Intent: OrderProduct

Slots	(3/3)
orderQuantity	5
productFlavor	mango
productType	frozen yogurt

Build Publish

Test bot (Latest) Ready. Build complete

flight

{Type} flavors

{ype} flavors

es do you offer

Which {productType} flavors do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you like

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Clear chat history

Chat with your bot

Inspect response

Dialog State: Fulfilled Hide

Summary Detail

Intent: OrderProduct

Slots	(3/3)
orderQuantity	5
productFlavor	mango
productType	frozen yogurt

aws Services Resource Groups N. Virginia Support

myBot Latest

Build Publish

Editor Settings Channels Monitoring

Intents

GetProductFlavor

Help

OrderProduct

Slot types

ProductType

Error Handling

GetProductFlavor Latest

Sample utterances

e.g. I would like to book a flight

Show me a list of {productType} flavors

Give me a list of {productType} flavors

Which {productType} flavors do you offer

Which flavors do you offerWhich {productType} flavors do you have

Which flavors do you have

Lambda initialization and validation

Slots

Priority	Required	Name	Slot type	Version	Prompt
		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1.	✔	productType	ProductType	1	For which product would you like

Confirmation prompt

Fulfillment

AWS Lambda function Return parameters to client

Lambda function lex-backend

Test bot (Latest) Ready. Build complete

mango frozen yogurt?

yes

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Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Summary Detail

Intent: OrderProduct

Slots	(3/3)
orderQuantity	5
productFlavor	mango
productType	frozen yogurt

Feedback English (US)

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Secure | https://console.aws.amazon.com/lex/home?region=us-east-1#bot-editor/bot/myBot

aws Services Resource Groups N. Virginia Support

myBot Latest

Build Publish

Editor Settings Channels Monitoring

Intents

GetProductFlavor

Help

OrderProduct

Slot types

ProductType

Error Handling

GetProductFlavor Latest

Sample utterances

e.g. I would like to book a flight

Show me a list of {productType} flavors

Give me a list of {productType} flavors

Which {productType} flavors do you offer

Which flavors do you offerWhich {productType} flavors do you have

Which flavors do you have

Lambda initialization and validation

Slots

Priority	Required	Name	Slot type	Version	Prompt
		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
1.	✔	productType	ProductType	1	For which product would you like

Confirmation prompt

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Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Summary Detail

Intent: OrderProduct

Slots	(3/3)
orderQuantity	5
productFlavor	mango
productType	frozen yogurt

Feedback English (US)

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Secure | https://console.aws.amazon.com/lex/home?region=us-east-1#bot-editor:bot=myBot

aws Services Resource Groups N. Virginia Support

History
Amazon Lex
DynamoDB
IAM
Lambda
Console Home
S3

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Group A-Z

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EC2
Lightsail
Elastic Container Service
EKS
Lambda
Batch
Elastic Beanstalk

Developer Tools
CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
Cloud9
X-Ray

Analytics
Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight
Data Pipeline
AWS Glue

Customer Engagement
Amazon Connect
Pinpoint
Simple Email Service

Storage
S3
EFS
Glacier
Storage Gateway

Management Tools
CloudWatch
AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Systems Manager
Trusted Advisor
Managed Services

Security, Identity & Compliance
IAM
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
CloudHSM
Directory Service
WAF & Shield
Artifact

Business Productivity
Alexa for Business
Amazon Chime
WorkDocs
WorkMail

Desktop & App Streaming
WorkSpaces
AppStream 2.0

Database
RDS
DynamoDB
ElastiCache
Neptune
Amazon Redshift

Media Services
Elastic Transcoder
Kinesis Video Streams
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor

Internet Of Things
IoT Core
IoT 1-Click
IoT Device Management
IoT Analytics
Greengrass
Amazon FreeRTOS
IoT Device Defender

Migration
AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
Snowball

Mobile Services
Mobile Hub
AWS AppSync
Device Farm
Mobile Analytics

Game Development
Amazon GameLift

close

Test bot (Latest) Ready. Build complete

mango frozen yogurt?

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Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Summary Detail

Intent: OrderProduct

Slots	(3/3)
orderQuantity	5
productFlavor	mango
productType	frozen yogurt

Feedback English (US)

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aws Services Resource Groups N. Virginia Support

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Amazon Lex
DynamoDB
IAM
Lambda
Console Home
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Find a service by name or feature (for example, EC2, S3 or VM, storage).

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EC2
Lightsail
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Elastic Beanstalk

Developer Tools
CodeStar
CodeCommit
CodeBuild
CodeDeploy
CodePipeline
Cloud9
X-Ray

Analytics
Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight
Data Pipeline
AWS Glue

Customer Engagement
Amazon Connect
Pinpoint
Simple Email Service

Storage
S3
EFS
Glacier
Storage Gateway

Management Tools
CloudWatch
AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Systems Manager
Trusted Advisor
Managed Services

Security, Identity & Compliance
IAM
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
CloudHSM
Directory Service
WAF & Shield
Artifact

Business Productivity
Alexa for Business
Amazon Chime
WorkDocs
WorkMail

Desktop & App Streaming
WorkSpaces
AppStream 2.0

Database
RDS
DynamoDB
ElastiCache
Neptune
Amazon Redshift

Media Services
Elastic Transcoder
Kinesis Video Streams
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor

Internet Of Things
IoT Core
IoT 1-Click
IoT Device Management
IoT Analytics
Greengrass
Amazon FreeRTOS
IoT Device Defender

Migration
AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
Snowball

Mobile Services
Mobile Hub
AWS AppSync
Device Farm
Mobile Analytics

Game Development
Amazon GameLift

Close

Test bot (Latest) Ready. Build complete

Are you sure you want to order 5 cups of mango frozen yogurt?

yes

Thank you for ordering through reinvent bootcamp bot. You order of 5 cups of mango frozen yogurt has been placed and will be processed immediately (Order ID: 651c0f12-d626-40b9-a6e1-7fdcb43e6a74). Can I help you with anything else?

Clear chat history

Chat with your bot...

Inspect response

Dialog State: Fulfilled

Summary Detail

Intent: OrderProduct

Slots	(3/3)
orderQuantity	5
productFlavor	mango
productType	frozen yogurt

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:

aws Services Resource Groups N. Virginia Support

DynamoDB
Dashboard
Tables
Backups
Reserved capacity
Preferences Preview

DAX
Dashboard
Clusters
Subnet groups
Parameter groups
Events

Create table

Amazon DynamoDB is a fully managed non-relational database service that provides fast and predictable performance with seamless scalability.

Create table

Recent alerts

No CloudWatch alarms have been triggered.

View all in CloudWatch

Total capacity for US East (N. Virginia)

Not Authorized

Provisioned read capacity	20
Provisioned write capacity	20

Service health

Current Status	Details
Amazon DynamoDB (N. Virginia)	Service is operating normally

View complete service health details

Learn more

What's new

- Point-in-time Recovery
- Encryption At Rest
- On-Demand Backup and Restore
- Global Tables

Related services

- Amazon DynamoDB Accelerator (DAX)
- Amazon ElastiCache

Additional resources

- Getting started guide
- FAQ
- Developer guide
- Report an issue
- Getting started hands-on lab
- Forums

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=myOrders;tab=overview

aws Services Resource Groups N. Virginia Support

DynamoDB
- Dashboard
- Tables
- Backups
- Reserved capacity
- Preferences Preview

DAX
- Dashboard
- Clusters
- Subnet groups
- Parameter groups
- Events

Create table | Delete table

Filter by table name

Viewing 2 of 2 Tables

Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity	Auto Scaling	Encryption
myOrders	Active	orderId (String)	-	1	10	10	ERROR	-
myProducts	Active	productId (Number)	-	1	10	10	ERROR	-

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=myOrders;tab=overview

aws Services Resource Groups N. Virginia Support

DynamoDB
Dashboard
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Reserved capacity
Preferences Preview

DAX
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Parameter groups
Events

Create table Delete table

Filter by table name

Name
myOrders
myProducts

myOrders Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Recent alerts

No CloudWatch alarms have been triggered for this table.

Stream details

Stream enabled	No
View type	-
Latest stream ARN	-

Manage Stream

Table details

Table name	myOrders
Primary partition key	orderId (String)
Primary sort key	-
Point-in-time recovery	DISABLED Enable
Encryption	DISABLED
Time to live attribute	DISABLED Manage TTL
Table status	Active
Creation date	September 4, 2018 at 4:38:17 PM UTC-7
Provisioned read capacity units	5 (Auto Scaling Error)
Provisioned write capacity units	5 (Auto Scaling Error)
Last decrease time	-
Last increase time	-
Storage size (in bytes)	0 bytes
Item count	0
Region	US East (N. Virginia)
Amazon Resource Name (ARN)	arn:aws:dynamodb:us-east-1: table/myOrders

Storage size and item count are not updated in real time. They are updated periodically, roughly every six hours.

Feedback English (US)

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Secure | https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=myOrders;tab=items

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DynamoDB
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Events

Create table Delete table

Filter by table name

Name
myOrders
myProducts

myOrders Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups Triggers Access control Tags

Create item Actions

Scan: [Table] myOrders: orderId Pause Searching

Scan [Table] myOrders: orderId

Add filter

Start search

Feedback English (US)

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Scan: [Table] myOrders: orderId

Viewing 1 to 1 items

Scan [Table] myOrders: orderId

Add filter

Start search

orderId	orderQuantity	productId	userId
651c0f12-d626-42b9-a8e1-7fdcb43e6a74	5	4	yk8f0qawOzOPlqp3m8ul0gunmad7go

Feedback English (US)

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b51c0f12-d626-40b9-a8e1-7fdcb43efa74	5	4	yk8f0gawOzOPlqp3mBuI0gunmaG7go

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Bot Deployment Considerations

aws training and certification

- Amazon Lex API
  - Used into integrate the bot into custom applications
- Versioning
  - Provides change management as modifications are made and deployed
- Deployment
  - Offers choice of targets including custom applications and existing channels
- Security
  - Enables secure access to the bot using authentication methods
- Monitoring
  - Keeps track of key health and performance metrics

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Amazon Lex API

The Amazon Lex API is composed of two services:

Amazon Lex Runtime API

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Amazon Lex Runtime API

- Used for integrating bots in applications
- Sends user input to Amazon Lex
- Contains two actions:
  - PostContent
  - PostText

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Amazon Lex Runtime API

- Used for integrating bots in applications
- Sends user input to Amazon Lex
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  - PostContent
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Amazon Lex Runtime API

aws training and certification

- Used for integrating bots in applications
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- Contains two actions:
  - PostContent
  - PostText

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Amazon Lex Runtime API: PostContent

aws training and certification

- Allows you to send text or speech to Amazon Lex.
  - Text: UTF-8
  - Speech:
    - 16 or 8 KHz
    - 1 channel
- Returns the next message to convey to the user (if any).
  - Comes from bot configuration or code hook (AWS Lambda function).
  - Text or audio
    - Text: UTF-8
    - Audio: MPEG, OGG, PCM

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Amazon Lex Runtime API: PostText

- Allows you to send text only to Amazon Lex.
- Returns the next message to convey to the user (if any).
  - Comes from bot configuration or code hook (AWS Lambda function).
  - Text only Message or Response Card

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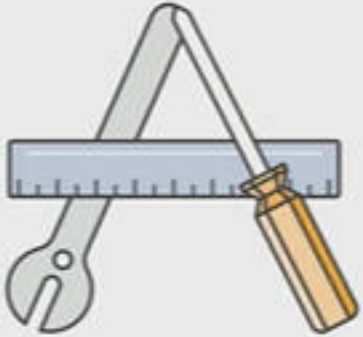
Amazon Lex Model Building API

aws training and certification

- Used for programmatically building bots
- Automated deployment
- Gather information about bots
  - Current configuration
  - Utterances view
- Dynamically change bots
  - Add/remove intents
  - Modify slot types, etc.



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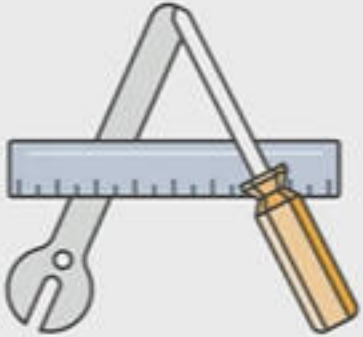

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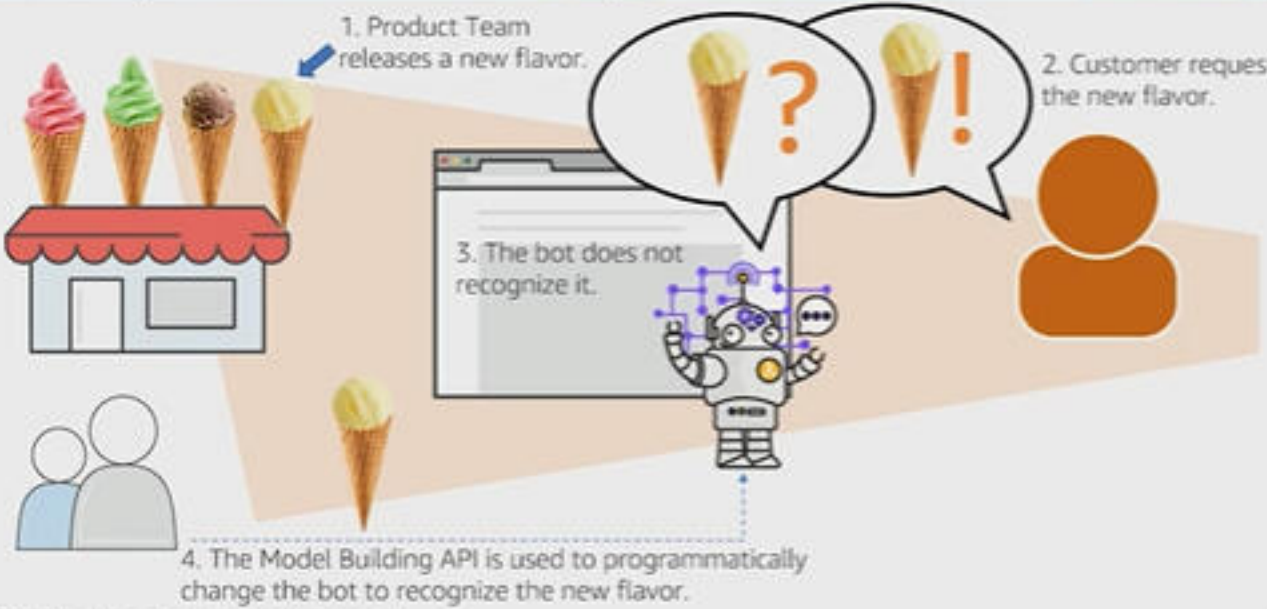
Amazon Lex Model Building API Example: Ice Cream Shop Use Case

aws training and certification



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Amazon Lex Model Building API Example: Ice Cream Shop Use Case

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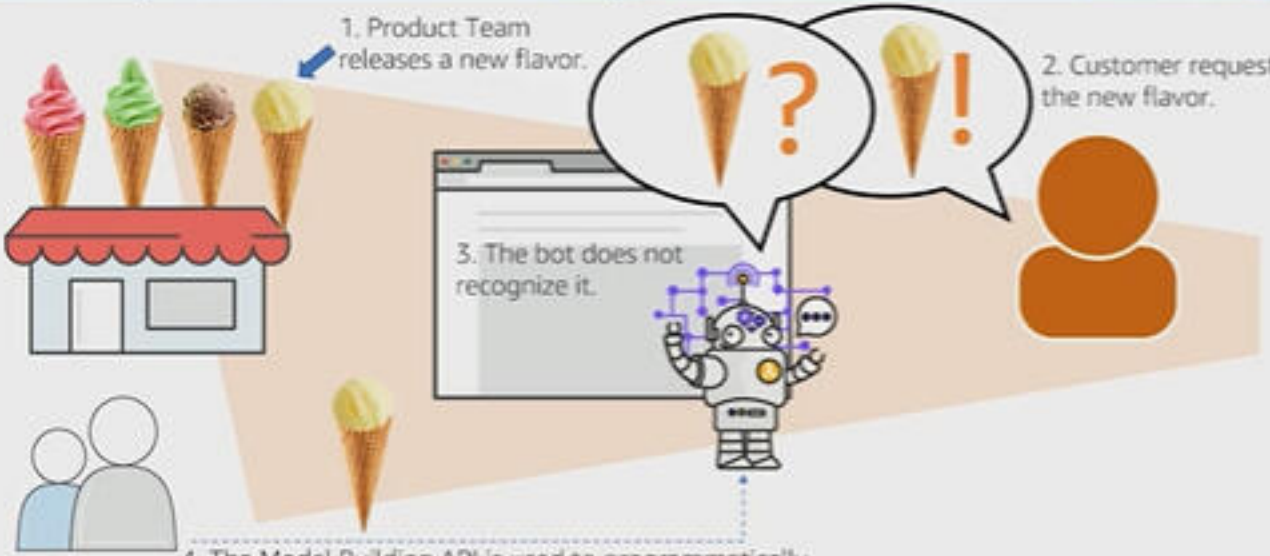

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Versioning and Alias Support

aws training and certification

A version is a numbered snapshot of your work that you can publish.

- Supported for Intents, Slots, and Bots
- Enables multi-developer environment
- Rollback to previous versions

Versioning

An alias is a pointer to a specific version of a bot.

- Deploy different aliases to different platforms
- Run different stacks for dev, stage and prod environments
- Target different user groups with different aliases

Alias

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Amazon Lex Built-in Channels

aws training and certification

Amazon Lex includes integration with third party channels, such as Facebook, Slack, and Twilio.

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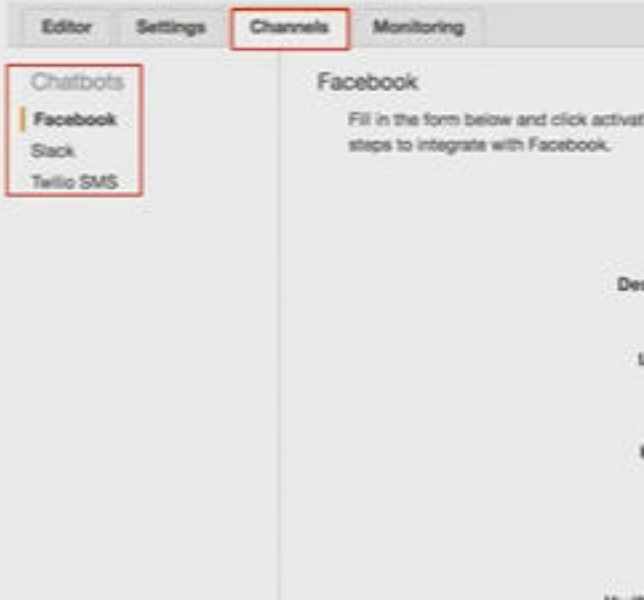
Deploying a Bot to a Channel

Use the AWS Management Console

- Select the Channels tab.
- Select the target channel.
- Fill-in the required fields.
- Click Activate.



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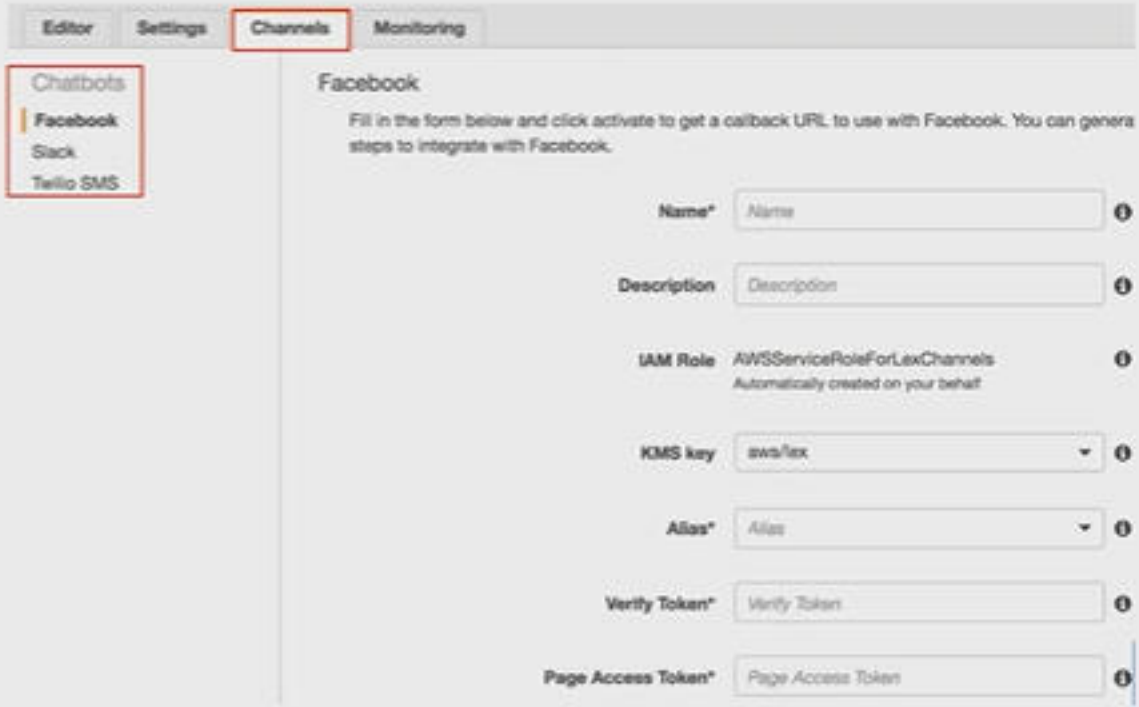

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Amazon Lex and Amazon Connect

aws training and certification

Amazon Lex chatbots can integrate with Amazon Connect.

- Adds natural conversation to contact center interactions.

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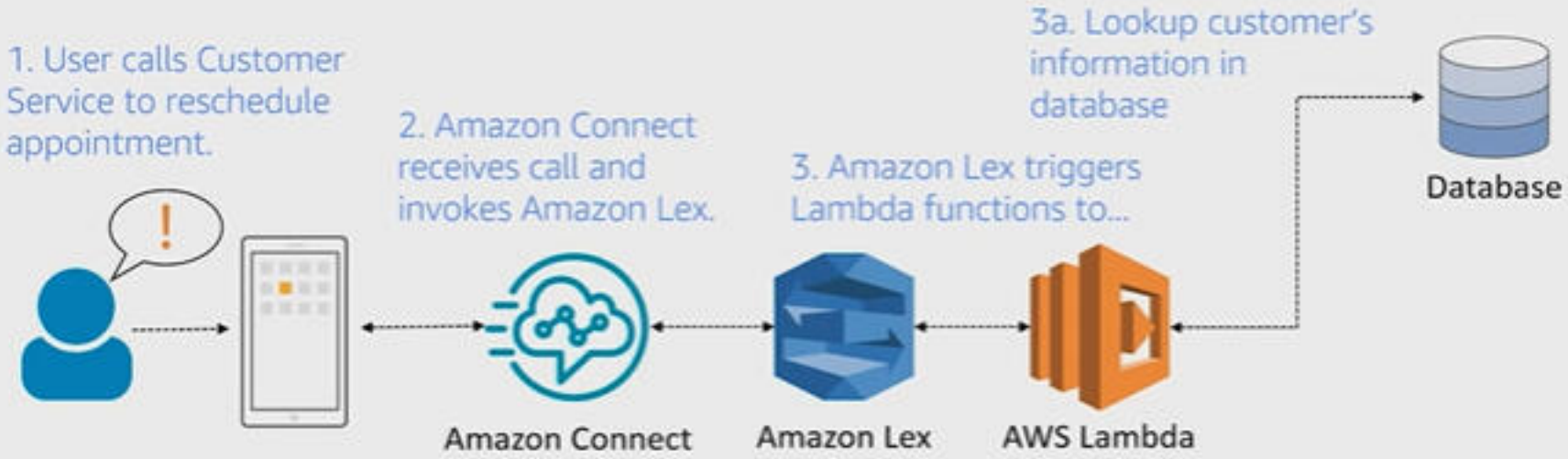
Amazon Lex and Amazon Connect Integration Example



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Amazon Lex and Amazon Connect Integration Example

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Amazon Lex and Amazon Connect Integration Example

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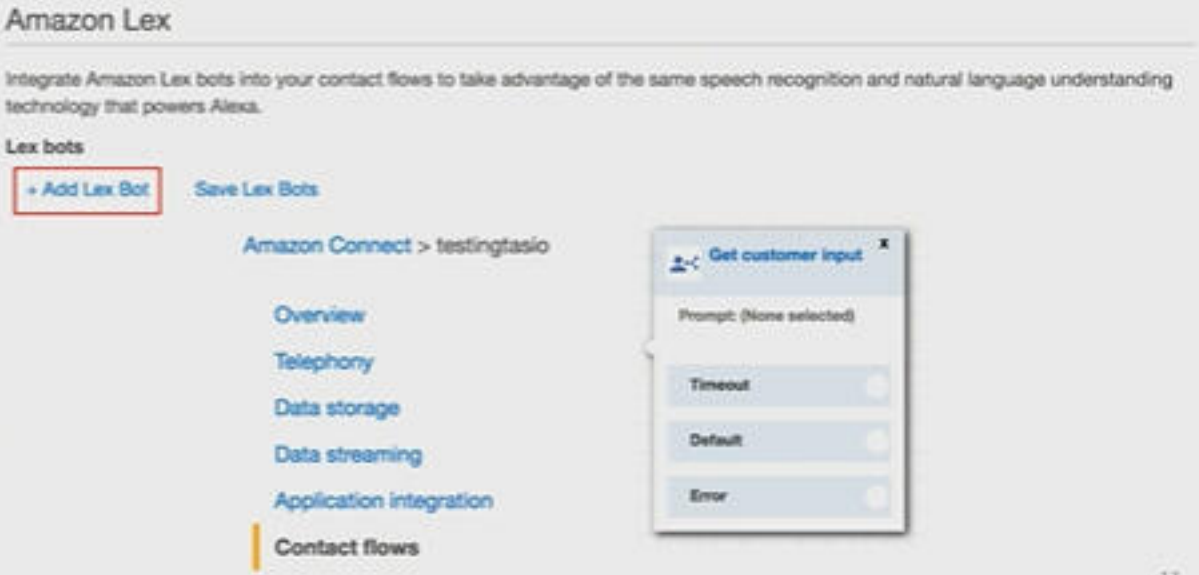
Integrating a Bot into Amazon Connect

aws training and certification

Use the AWS Management Console

- Select Amazon Connect instance.
- Add Lex bot to a contact flow.
- Configure flow to use bot.



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Amazon Lex and AWS Mobile Hub

aws training and certification

You can use a bot in a mobile application by integrating Amazon Lex with AWS Mobile Hub.

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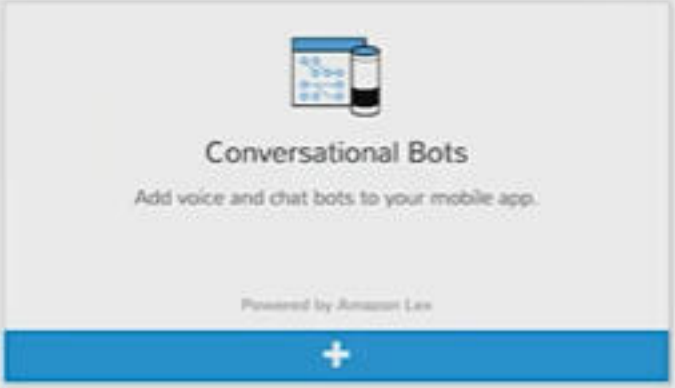
Importing a Bot using AWS Mobile Hub (1 of 3)

aws training and certification

Select the Conversational Bots feature when building the mobile application using AWS Mobile Hub.



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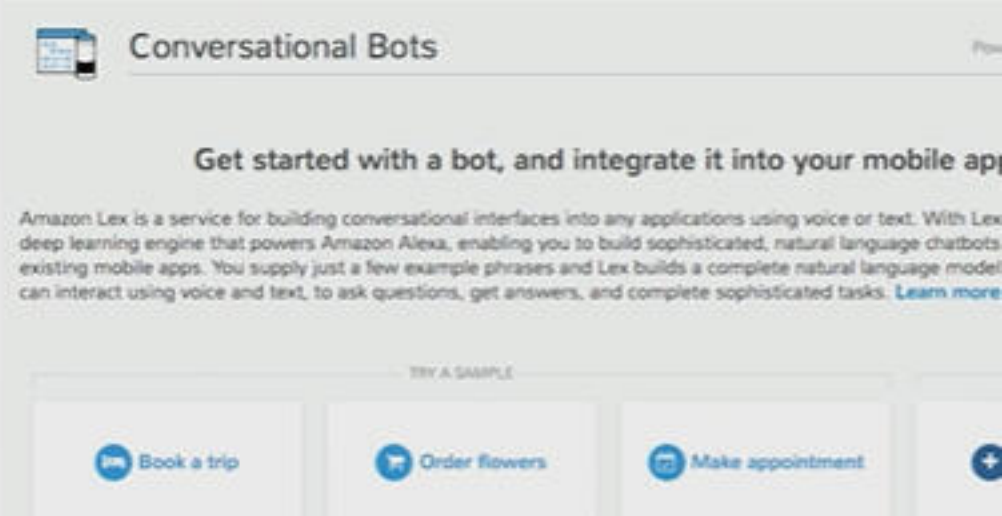
Importing a Bot using AWS Mobile H
(2 of 3)

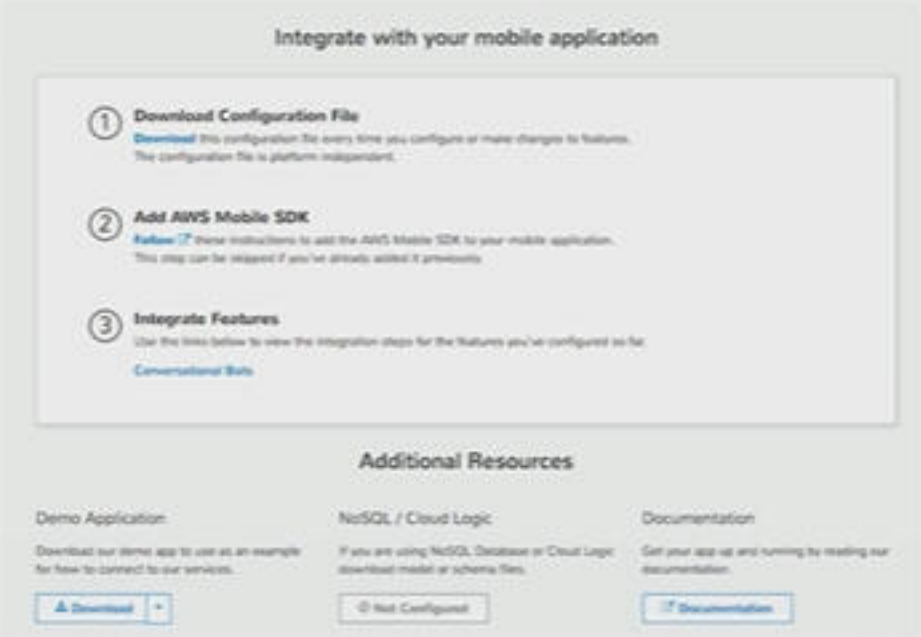
You can choose to import one of the sample bots o
created.



Importing a Bot using AWS Mobile Hub (3 of 3)

aws training and certification

Mobile Hub provides guidance and assets to integrate the selected features within your application.



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Securing Your Bot

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Amazon Cognito

- Allows you to add user sign-up, sign-in, and access control to web and mobile applications quickly and easily
  - Role-based model that be used to secure calls to Amazon Lex Runtime API
- Provides three main capabilities
  - User pools
  - Federated identities
  - Sync

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Amazon Cognito User Pools

aws training and certification

- Manage your own user directory.
- Easily define sign-up and sign-in for your application.
- Highly scalable

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Amazon Cognito Federated Identities

aws training and certification

- Create unique identities for users (identity pool).
- Federate with identity providers.
  - Public
  - Amazon Cognito User Pools
  - Open ID
  - SAML
  - Developer Authenticated

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Amazon Lex and Amazon CloudWatch

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Amazon Lex Metrics in Amazon CloudWatch

- Runtime
  - Metrics about events and errors while using deployed bots
    - ie- RuntimeLambdaErrors
    - ie- MissedUtteranceCount
  - Can be grouped by several dimensions.
    - ie- BotName, BotAlias, Operation, InputMode
    - ie- BotName, BotVersion, Operation, InputMode
- Channel Associations
  - Metrics about events that occur on bots deployed in messaging ch
    Facebook
  - Can be grouped by one dimension.
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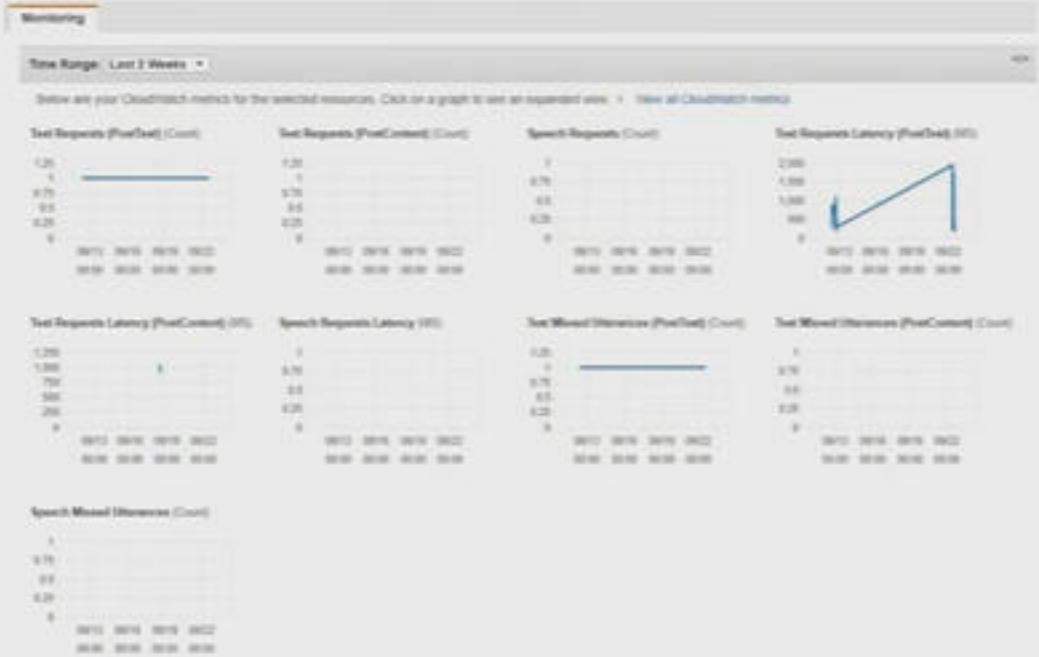
    - ie- BotName, BotVersion, Operation, InputMode

Viewing Amazon Lex Metrics

Use the Monitoring tab on the Amazon Lex console to view collected metrics.



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  - Can be grouped by one dimension.
    - ie- BotName, BotAlias, Operation, InputMode
    - ie- BotName, BotVersion, Operation, InputMode

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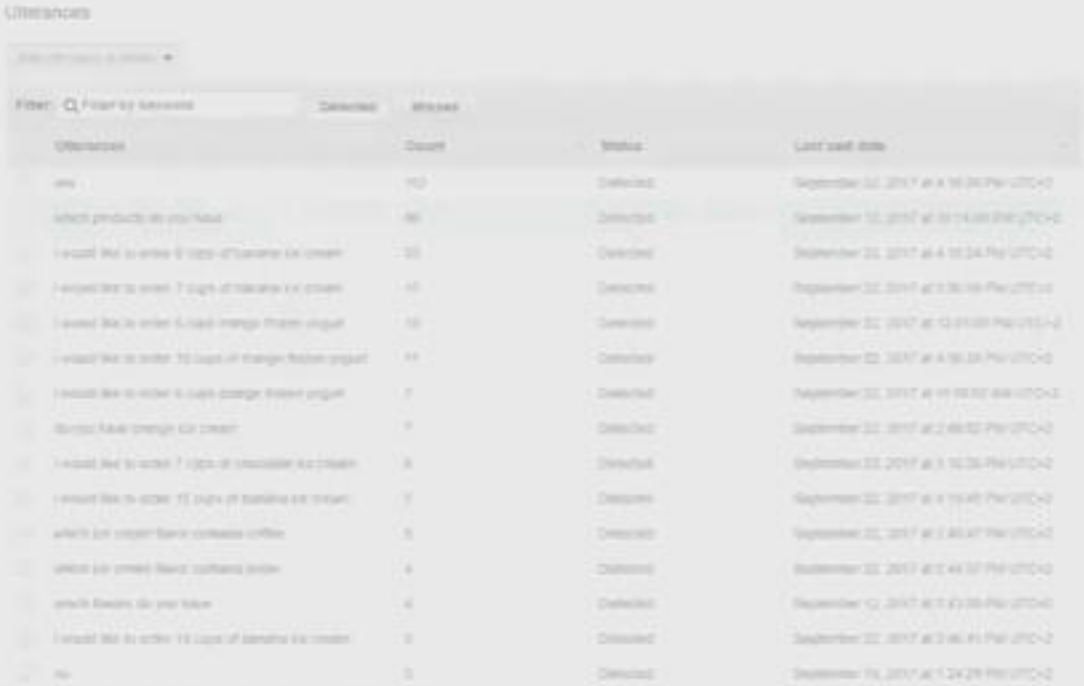
Amazon Lex Console Utterances View

Shows the utterances that users have been using to interact with the bot.



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Amazon Lex Console Utterances View

Shows the utterances that users have been using to interact with the bot.

Utterances

Add utterance to intent

Filter: Filter by keyword | Detected | Missed

Utterances	Count	Status	Last said date
yes	112	Detected	September 22, 2017 at 4:16:50 PM UTC+2
which products do you have	86	Detected	September 12, 2017 at 10:14:08 PM UTC+2
I would like to order 8 cups of banana ice cream	30	Detected	September 22, 2017 at 4:15:24 PM UTC+2
I would like to order 7 cups of banana ice cream	17	Detected	September 22, 2017 at 3:58:09 PM UTC+2
I would like to order 6 cups mango frozen yogurt	10	Detected	September 22, 2017 at 12:01:05 PM UTC+2
I would like to order 15 cups of mango frozen yogurt	11	Detected	September 22, 2017 at 4:16:35 PM UTC+2
I would like to order 6 cups orange frozen yogurt	7	Detected	September 22, 2017 at 11:38:02 AM UTC+2
do you have orange ice cream	7	Detected	September 22, 2017 at 2:49:52 PM UTC+2
I would like to order 7 cups of chocolate ice cream	6	Detected	September 22, 2017 at 3:10:26 PM UTC+2
I would like to order 15 cups of banana ice cream	5	Detected	September 22, 2017 at 4:15:40 PM UTC+2
which ice cream flavor contains coffee	5	Detected	September 22, 2017 at 2:40:47 PM UTC+2
which ice cream flavor contains lemon	4	Detected	September 22, 2017 at 2:44:57 PM UTC+2
which flavors do you have	4	Detected	September 12, 2017 at 7:40:20 PM UTC+2
I would like to order 14 cups of banana ice cream	3	Detected	September 22, 2017 at 3:46:41 PM UTC+2
no	3	Detected	September 18, 2017 at 1:24:29 PM UTC+2

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Amazon Lex Console Utterances View

aws training and certification

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I would like to order 6 cups mango frozen yogurt	13		
I would like to order 10 cups of mango frozen yogurt	11		
I would like to order 6 cups orange frozen yogurt	7		
do you have orange ice cream	7		
I would like to order 7 cups of chocolate ice cream	6		
I would like to order 13 cups of banana ice cream	5		
which ice cream flavor contains coffee	5		
which ice cream flavor contains lester	4		
which flavors do you have	4		
I would like to order 14 cups of banana ice cream	3		
no	3	Detected	September 10, 2017 at 1:24:29 PM UTC+2

Utterances

Add utterance to intent

Filter: Filter by keyword | Detected | Missed

Utterances	Count	Status	Last said date
yes	5	Missed	September 22, 2017 at 4:16:32 PM UTC+2
I like to order 5 cups of tomate soup	1	Missed	September 12, 2017 at 12:46:22 PM UTC+2
frozen yogurt	1	Missed	September 12, 2017 at 7:07:31 PM UTC+2
I would like to order 6 cups orang frozen yogurt	1	Missed	September 22, 2017 at 11:57:51 AM UTC+2
ice cream	1	Missed	September 12, 2017 at 7:07:23 PM UTC+2

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Key Takeaways

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- Amazon Lex chatbots can be dynamically adapted to changes.
- Amazon Lex chatbots can be deployed on existing channels or custom applications easily.
- Amazon Cognito can be used to secure and customize access to Amazon Lex chatbots.
- Amazon Lex leverages Amazon CloudWatch for monitoring.

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Further Reading

aws training and certification

- AWS Machine Learning Blog
  - "Greetings, visitor!" – Engage Your Web Users with Amazon Lex
    - https://aws.amazon.com/blogs/machine-learning/greetings-visitor-engage-your-web-users-with-amazon-lex/
  - Capturing Voice Input in a Browser and Sending it to Amazon Lex
    - https://aws.amazon.com/blogs/machine-learning/capturing-voice-input-in-a-browser/

-0:21 1.5x

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Improving Your Bot with Insight Functions

aws training and certification

- Your bot currently:
  - Stores data in a DynamoDB database.
  - Allows customers to order new products.
- Can you improve it with analytics functions to provide business insight?

Amazon DynamoDB

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Amazon Elasticsearch

aws training and certification

- Analytics and search engine based on open source Elasticsearch project
- Benefits include:
  - Fast execution
    - By using distributed inverted indices, Elasticsearch quickly finds the best matches for your full-text searches from even very large data sets.

Amazon Elasticsearch Service

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  - Near real-time index updates
    - Elasticsearch index updates, such as adding a new document, usually take one second or less before the updated data is available for search.
  - Managed service
    - Elasticsearch is a fully managed service, so you don't need to spend time to install anything.

Amazon Elasticsearch Service

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Amazon Elasticsearch Service Features

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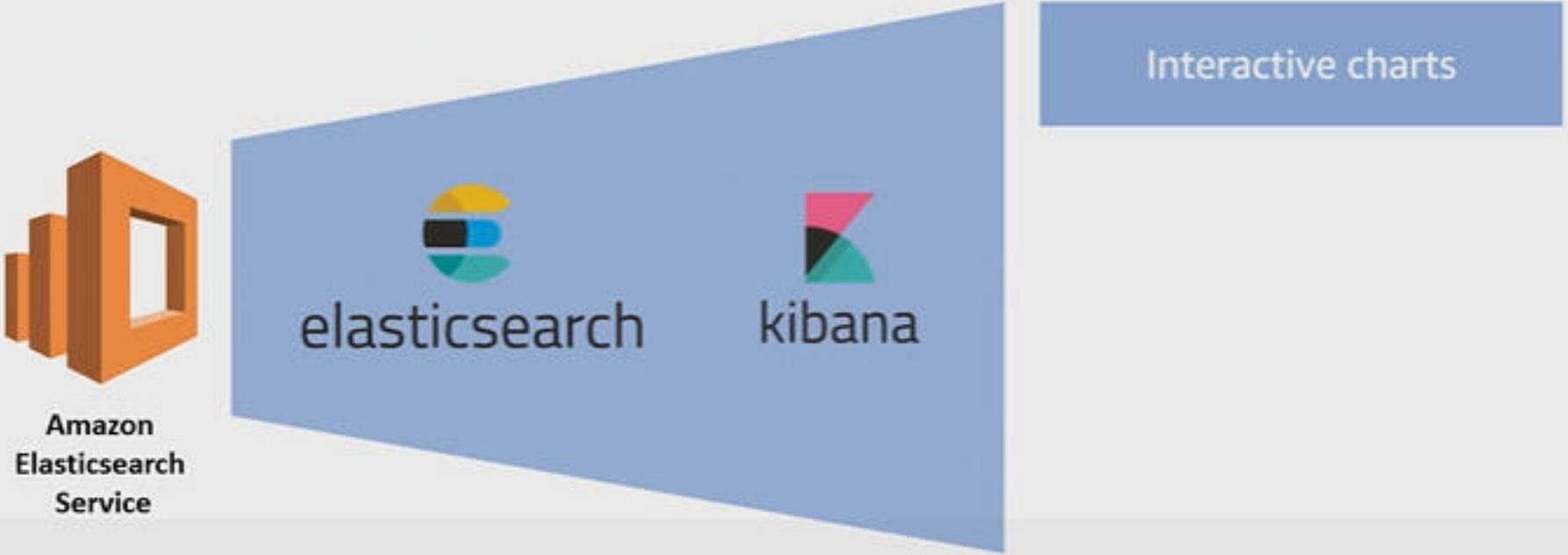
Integrates with Kibana for data visualization and exploration



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Amazon Elasticsearch Service Features

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Integrates with Kibana for data visualization and exploration

Amazon Elasticsearch Service

- Interactive charts
- Mapping support
- Pre-built aggregations and filters
- Easy distribution of dashboards

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Where to Put Amazon Elasticsearch Service

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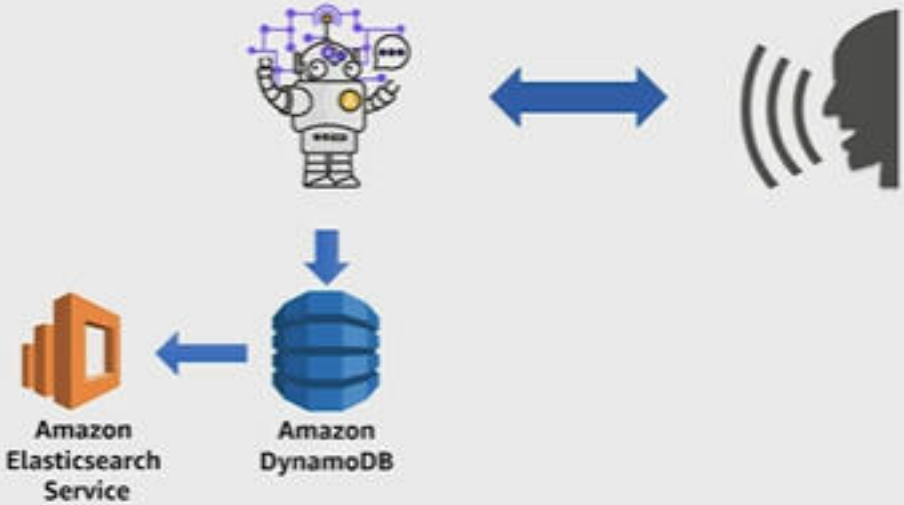
- Transfer data from DynamoDB into Amazon Elasticsearch Service (ES).



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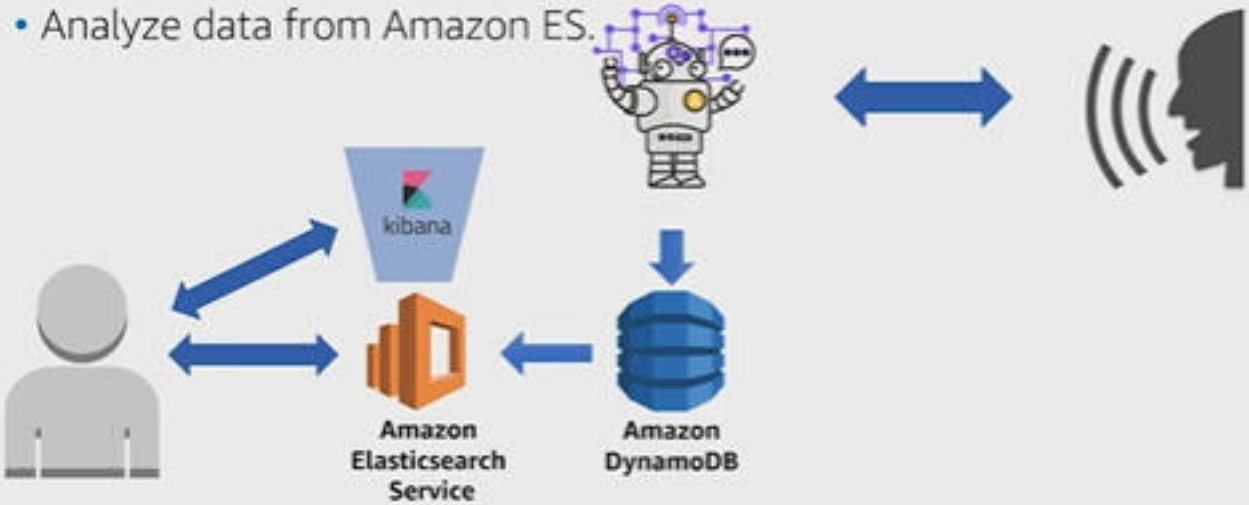
Where to Put Amazon Elasticsearch Service

aws training and certification

- Transfer data from DynamoDB into Amazon Elasticsearch Service (ES).
- Analyze data from Amazon ES.



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Kibana Dashboard Example

CloudWatch Logs Subscription Consumer + Elasticsearch + Kibana Dashboards:
https://aws.amazon.com/blogs/aws/cloudwatch-logs-subscription-consumer-elasticsearch-kibana-dashboards/

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Kibana Limitations

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- Kibana with Elasticsearch can be a good solution when you want to analyze data which you have collected.
- However, at an enterprise level, a Business Intelligence (BI) solution is preferable to allow you to more easily analyze data and perform BI tasks on them.
- Amazon QuickSight can help in this situation.

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What is Amazon QuickSight?

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Amazon QuickSight is a Business Analytics Service that lets business users quickly and easily visualize, explore, and share insights from their data.

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Who Should Use Amazon QuickSight?

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Who Should Use Amazon QuickSight?

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Amazon QuickSight: Analysis Features

- Fast, easy ad-hoc analysis
- Elegant, easy-to-use interface
- Blazing fast performance powered by a robust in-memory engine (SPICE) to get users from data to insights.

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Amazon QuickSight: Integration Features

- QuickSight is deeply integrated with:
- AWS data sources such as:
  - Amazon RDS, Aurora
  - Amazon Redshift
  - Amazon Athena
  - Amazon S3
- Third-party sources such as:
  - Excel
  - Salesforce
  - On-premises databases

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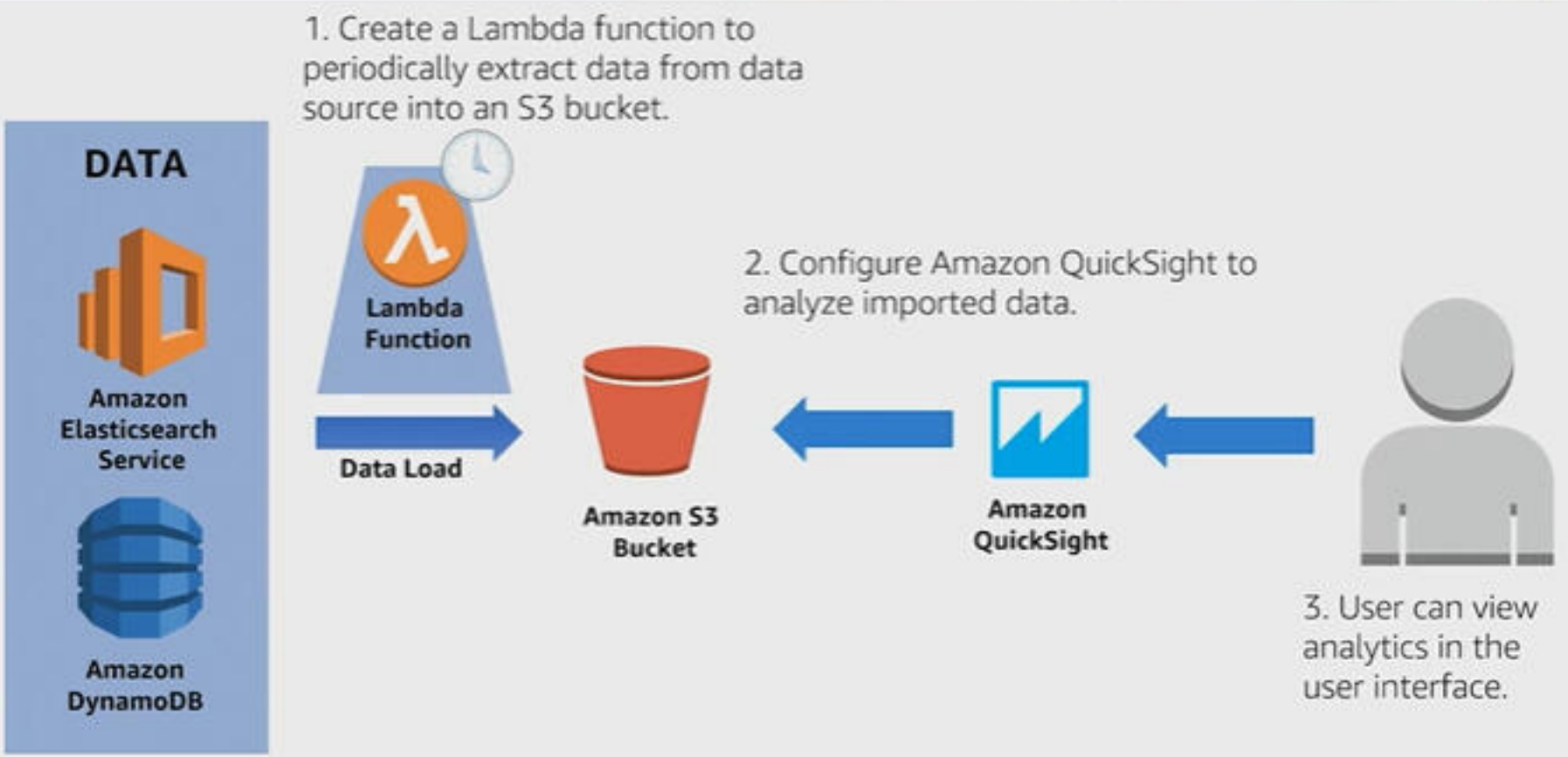

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Introduction to Amazon Machine Learning

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Improving Your Bot with Predictive Functions

- Your bot currently:
  - Stores data in a DynamoDB database.
  - Allows customers to order new products.
  - Provides analytics functions to give business insight.
- Can you improve it with functions that allow you to predict the future?

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What is Amazon Machine Learning?

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- Machine Learning (ML) is a technology that:
  - Automatically finds patterns in your data.
  - Uses them to make predictions for new data points as they become available.

- Amazon Machine Learning provides:
  - Visualization tools and wizards that guide you in the creation of ML models
  - APIs to obtain predictions from your models

Benefit of Amazon Machine Learning

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Machine Learning + your data = smart applications

-20:31 1.5x

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Examples of Smart Application Capabilities

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- A smart application can answer questions such as:
- Who is your customer?
- What characteristics mark your target customer?
- Will this product be bought?
- What are characteristics of a good product?

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-20:29 1.5x

Other Smart Application Capabilities

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Fraud detection	Detecting fraudulent transactions, filtering spam emails, flagging suspicious reviews…
Personalization	Recommending content, predictive content loading, improving user experience…
Targeted marketing	Matching customers and offers, choosing marketing campaigns, cross-selling and up-selling…
Content classification	Categorizing documents, matching hiring managers and resumes…
Churn prediction	Finding customers who are likely to stop using the service, upgrade targeting…
Customer support	Predictive routing of customer emails, social media listening…

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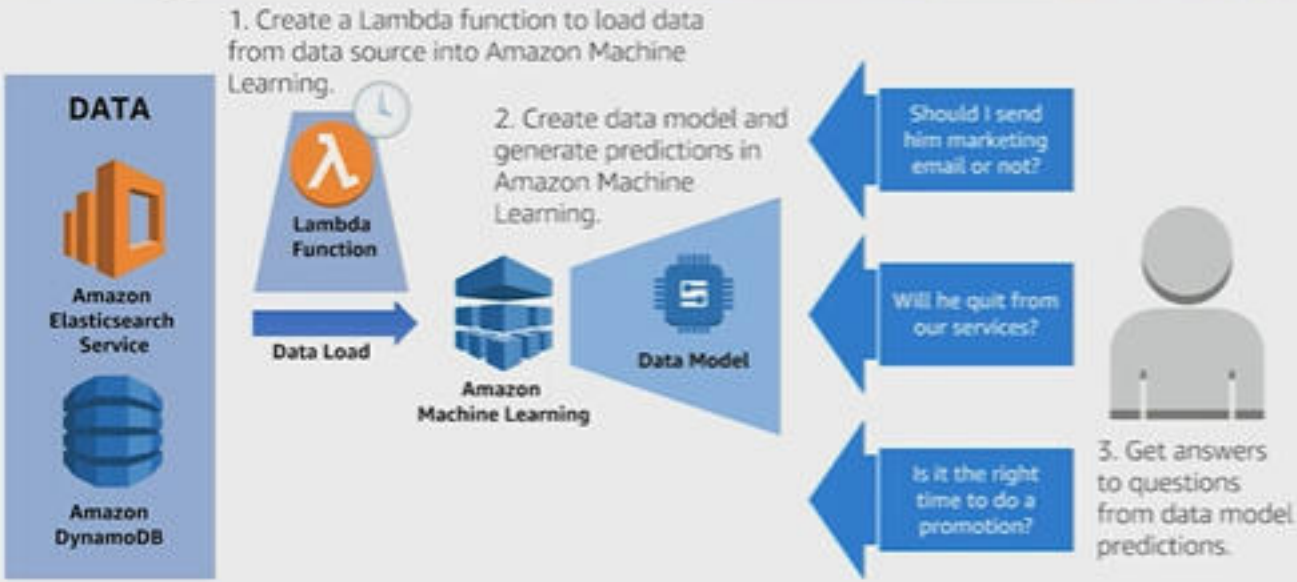
Where to Put Amazon Machine Learning



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Other Smart Chatbot Use Cases (1 of 2)

Use a chatbot with Amazon Echo.

Echo

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Other Smart Chatbot Use Cases (1 of 2)

aws training and certification

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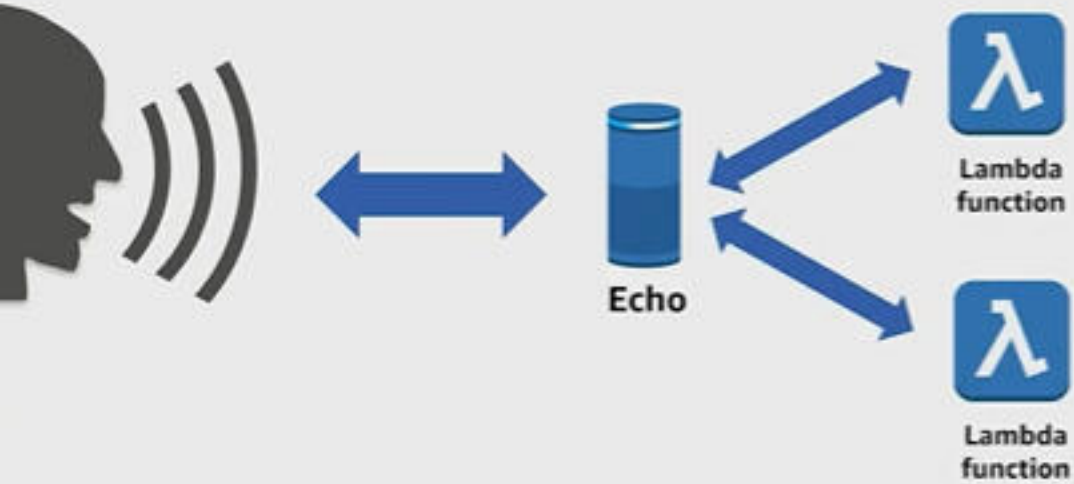

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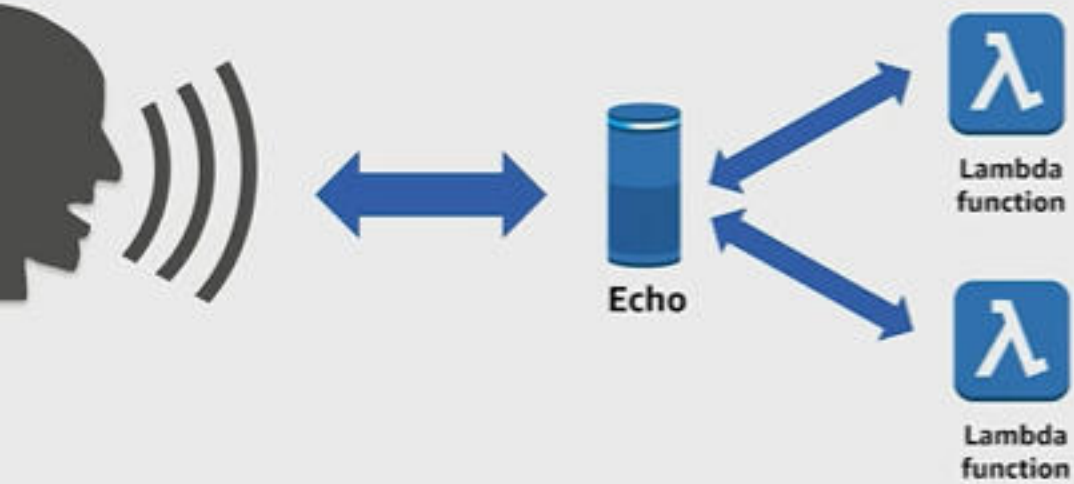

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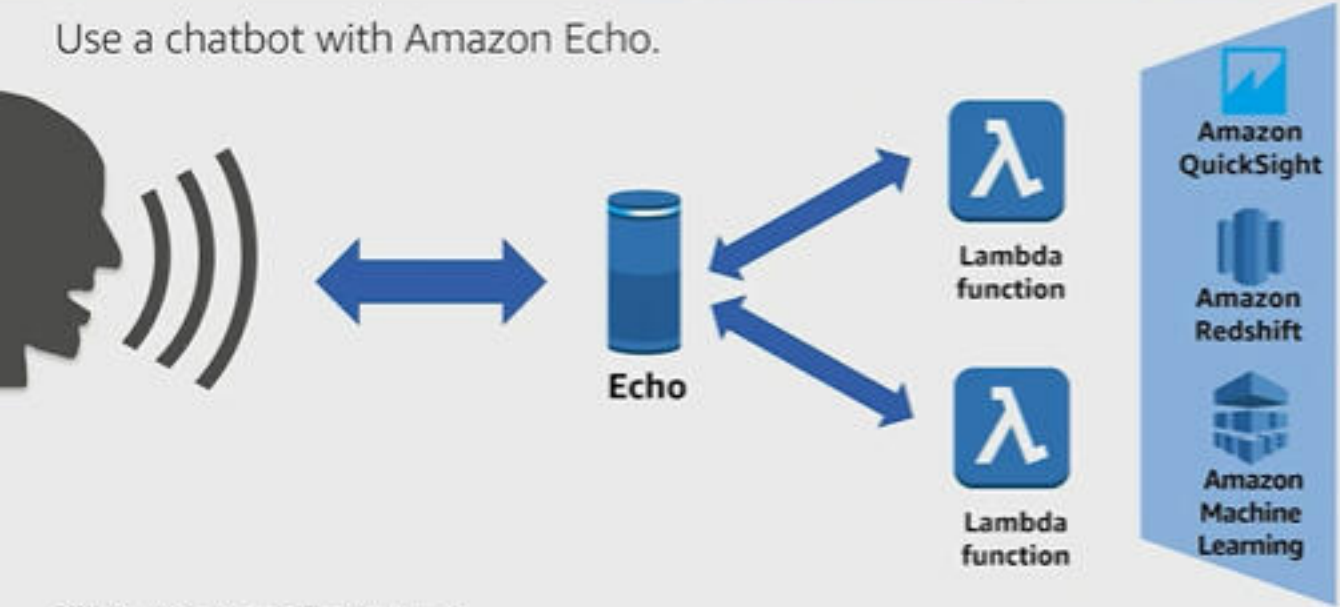

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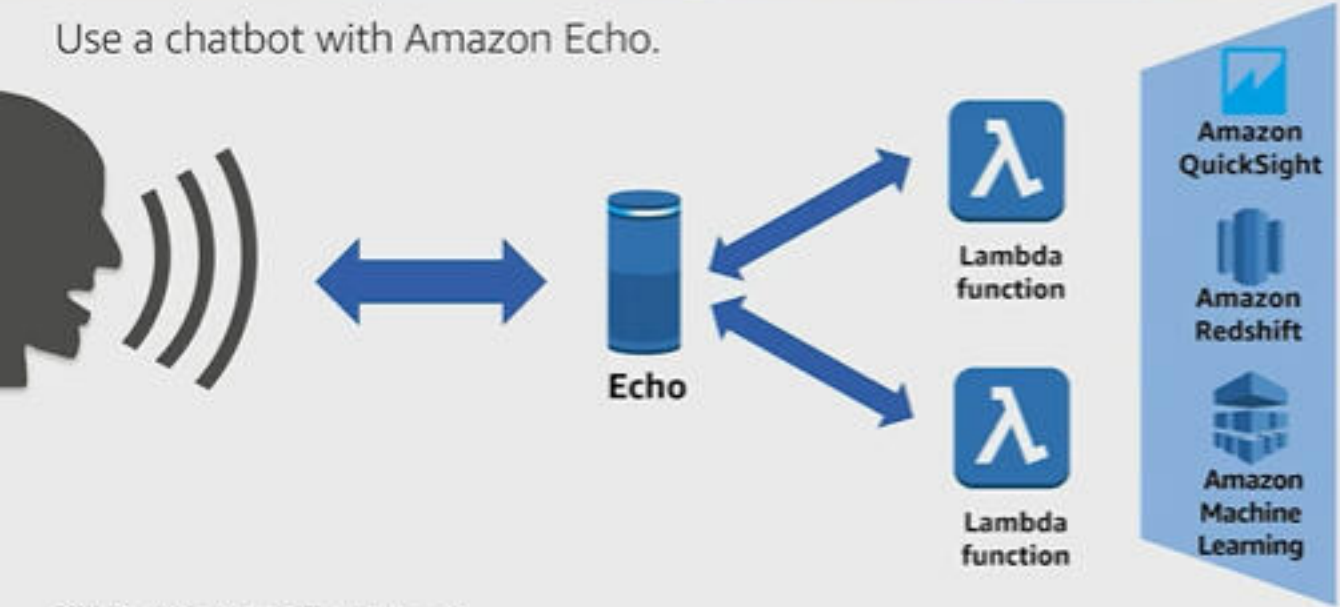

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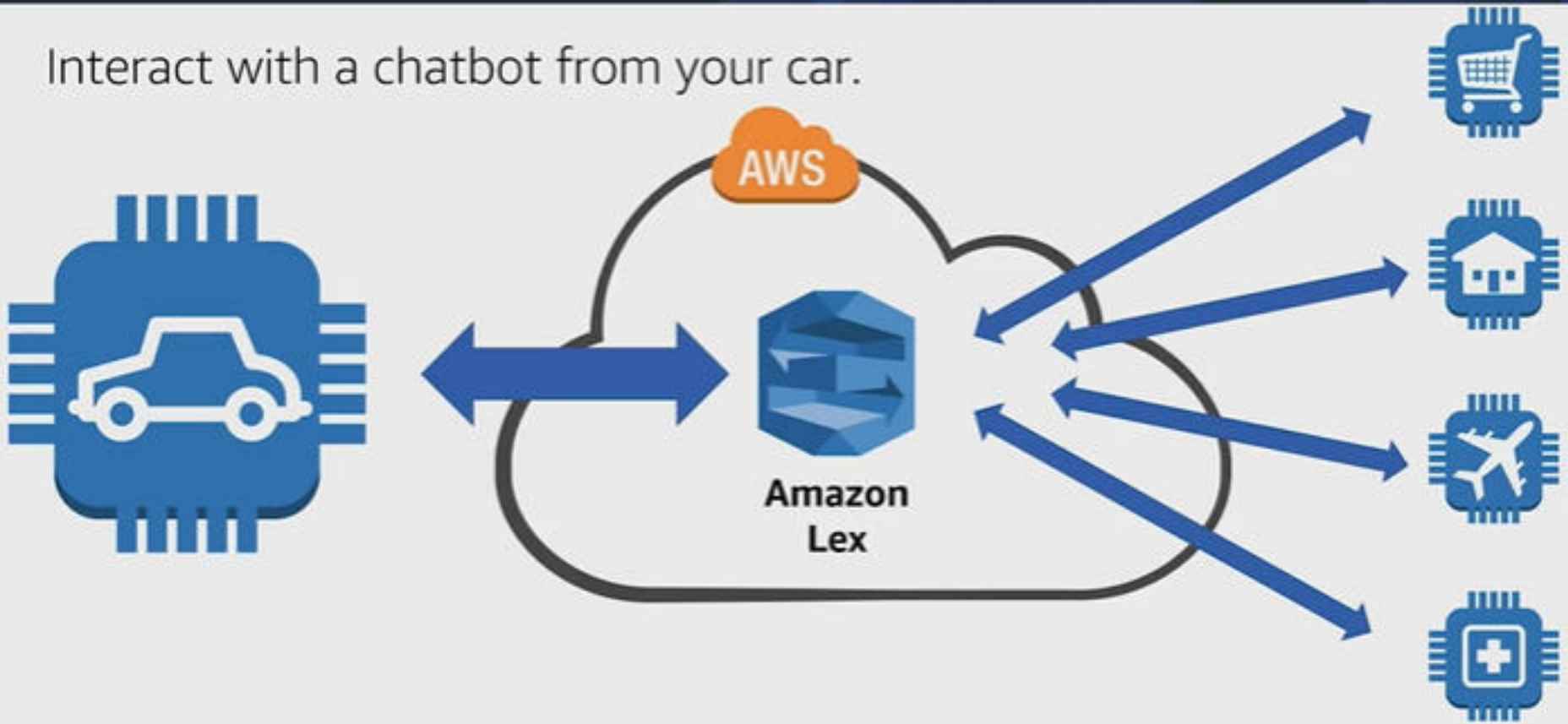
Other Smart Chatbot Use Cases (2 of 2)

aws training and certification

Interact with a chatbot from your car.



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Conclusion

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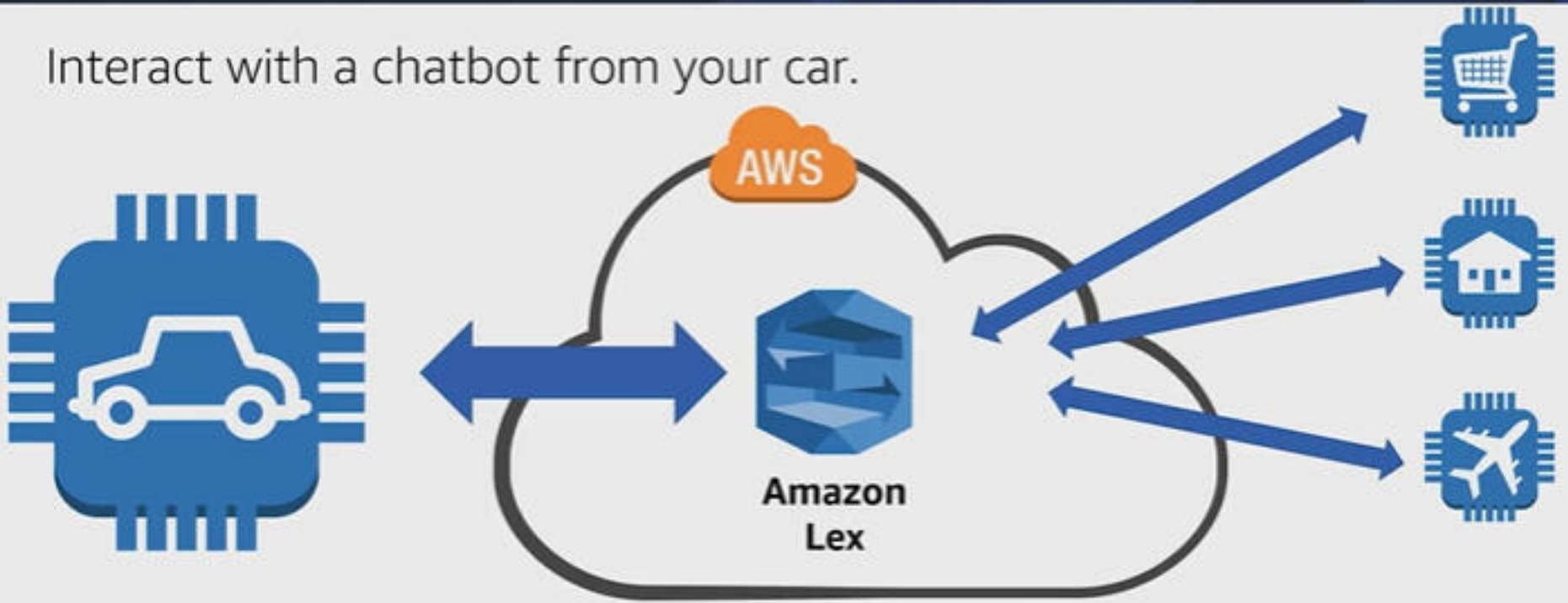

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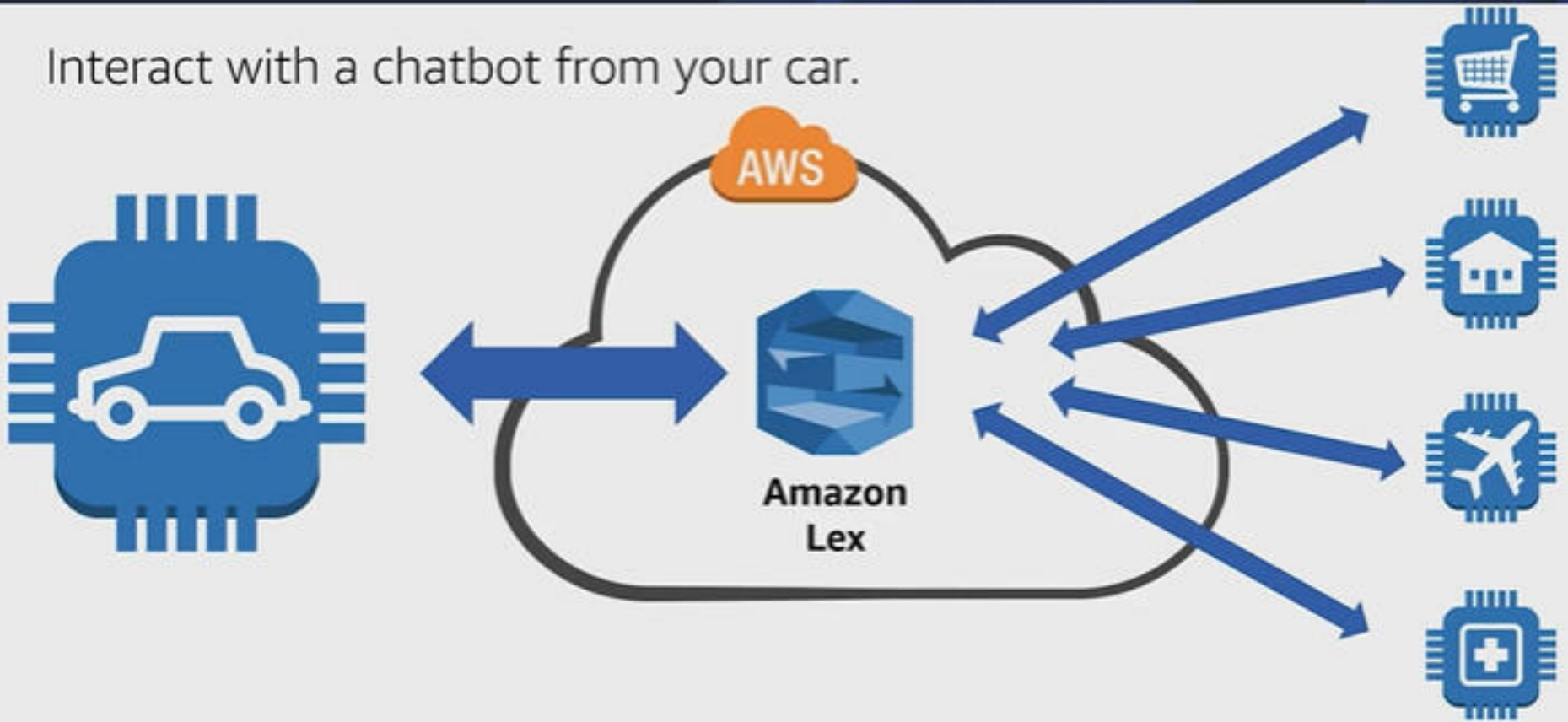

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Key Takeaways

aws training and certification

- AWS provides services (building blocks) that can help gather new insights about customers and extend a chatbot's capabilities.
- Services that can be used to analyze collected data:
  - Amazon Elasticsearch:
    - Quick and easy way to analyze data
    - Integrated with Kibana for creating dashboards for end-users.
  - Amazon QuickSight:
    - Business Intelligence tool for enterprise end-users
    - Integration with different data sources.
- Machine Learning service
  - Amazon Machine Learning can be used to build models which will help to predict the future (who will buy what? Should we send him an offer? etc.)

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Demonstration 3: Automating Bot Build Process and Deployment

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Demo 3 Goals

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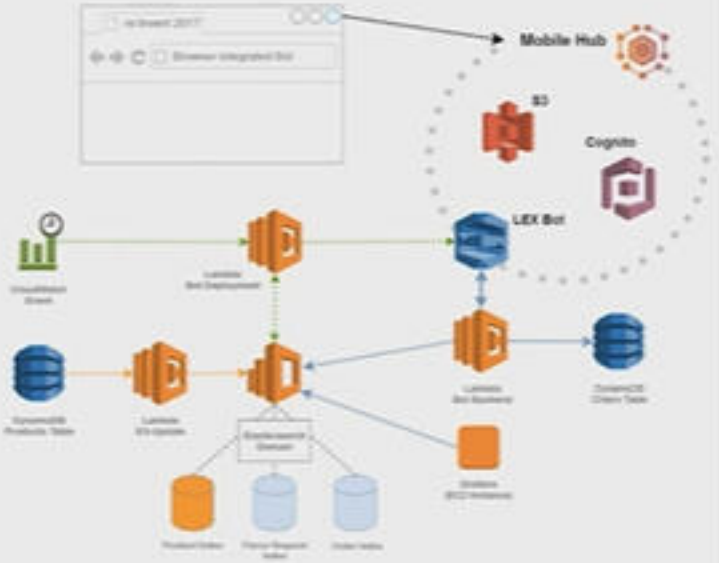
- Make use of DynamoDB streams to update an Elasticsearch domain.
- Configure a CloudWatch event.
- Automate the build process of a bot via API.
- Leverage Mobile Hub to configure authentication and hosting services.
- Deploy your bot on a web page.



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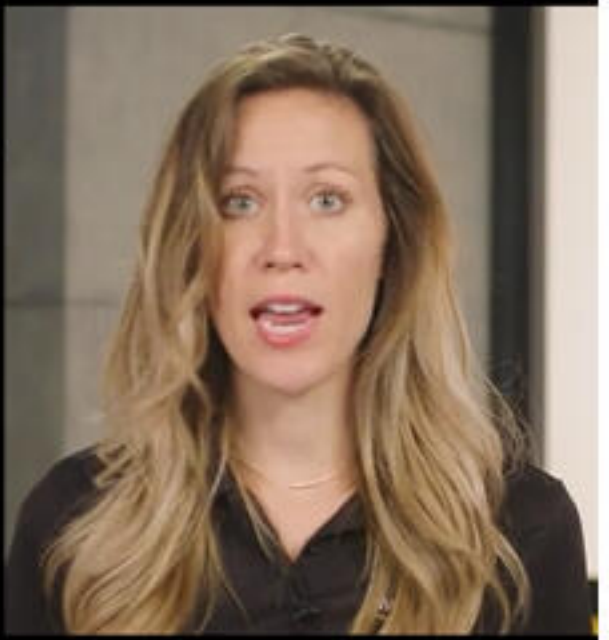

AWS Management Conso

Secure | https://console.aws.amazon.com/console/home?region=us-east-1#

aws | Services | Resource Groups | N. Virginia | Support

AWS services

Find a service by name or feature (for example, EC2, S3 or VM, storage).

Recently visited services

- Elasticsearch Service
- Lambda
- Mobile Hub
- Amazon Lex
- CloudWatch

All services

Build a solution

Get started with simple wizards and automated workflows.

- Launch a virtual machine — With EC2 — ~2-3 minutes
- Build a web app — With Elastic Beanstalk — ~6 minutes
- Build using virtual servers — With Lightsail — ~1-2 minutes
- Connect an IoT device — With AWS IoT — ~5 minutes
- Start a development project — With CodeStar — ~5 minutes
- Register a domain — With Route 53 — ~3 minutes

See more

Learn to build

See all

Learn to deploy your solutions through step-by-step guides, labs, and videos.

Websites	DevOps	Backup and recovery
3 videos, 3 tutorials, 3 labs	6 videos, 2 tutorials, 3 labs	3 videos, 2 tutorials, 3 labs

Helpful tips

Manage your costs

Monitor your AWS costs, usage, and reservations using AWS Budgets. Start now

Create an organization

Use AWS Organizations for policy-based management of multiple AWS accounts. Start now

Explore AWS

Machine Learning with Amazon SageMaker

The fastest way to build, train, and deploy machine learning models. Learn more

Amazon Relational Database Service (RDS)

RDS manages and scales your database for you. RDS supports Aurora, MySQL, PostgreSQL, MariaDB, Oracle, and SQL Server. Learn more

AWS Fargate Runs Containers for You

AWS Fargate works with Amazon ECS to run and scale your containers for you. Pay only for the compute resources you need, scale quickly, and run any size application. Learn more

AWS Marketplace

Find, buy, and deploy popular software products that run on AWS. Learn more

AWS Management Conso

Secure | https://console.aws.amazon.com/console/home?region=us-east-1#

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Amazon Relational Database Service (RDS)

RDS manages and scales your database for you. RDS supports Aurora, MySQL, PostgreSQL, MariaDB, Oracle, and SQL Server. Learn more.

AWS Fargate Runs Containers for You

AWS Fargate works with Amazon ECS to run and scale your containers for you. Pay only for the compute resources you need, scale quickly, and run any size application. Learn more.

AWS Marketplace

Find, buy, and deploy popular software products that run on AWS. Learn more.

AWS Management Console

Secure | https://console.aws.amazon.com/console/home?region=us-east-1#

aws | Services | Resource Groups | N. Virginia | Support

History

- Console Home
- Elasticsearch Service
- Lambda
- Mobile Hub
- Amazon Lex
- CloudWatch

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Group | A-Z

Compute
- EC2
- Lightsail
- Elastic Container Service
- EKS
- Lambda
- Batch
- Elastic Beanstalk

Storage
- S3
- EFS
- Glacier
- Storage Gateway

Database
- RDS
- DynamoDB
- ElastiCache
- Neptune
- Amazon Redshift

Migration
- AWS Migration Hub
- Application Discovery Service
- Database Migration Service
- Server Migration Service
- Snowball

Developer Tools
- CodeStar
- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline
- Cloud9
- X-Ray

Management Tools
- CloudWatch
- AWS Auto Scaling
- CloudFormation
- CloudTrail
- Config
- OpsWorks
- Service Catalog
- Systems Manager
- Trusted Advisor
- Managed Services

Media Services
- Elastic Transcoder
- Kinesis Video Streams
- MediaConvert
- MediaLive
- MediaPackage
- MediaStore
- MediaTailor

Analytics
- Athena
- EMR
- CloudSearch
- Elasticsearch Service
- Kinesis
- QuickSight
- Data Pipeline
- AWS Glue

Security, Identity & Compliance
- IAM
- Cognito
- Secrets Manager
- GuardDuty
- Inspector
- Amazon Macie
- AWS Single Sign-On
- Certificate Manager
- CloudHSM
- Directory Service
- WAF & Shield
- Artifact

Mobile Services
- Mobile Hub
- AWS AppSync
- Device Farm
- Mobile Analytics

Customer Engagement
- Amazon Connect
- Pinpoint
- Simple Email Service

Business Productivity
- Alexa for Business
- Amazon Chime
- WorkDocs
- WorkMail

Desktop & App Streaming
- WorkSpaces
- AppStream 2.0

Internet Of Things
- IoT Core
- IoT 1-Click
- IoT Device Management
- IoT Analytics
- Greengrass
- Amazon FreeRTOS
- IoT Device Defender

Game Development
- Amazon GameLift

Close

Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions

aws | Services | Resource Groups | N. Virginia | Support

AWS Lambda

Dashboard

Functions

Lambda > Functions

Functions (5)

Actions | Create function

Filter by tags and attributes or search by keyword

1

Function name	Description	Runtime	Code size	Last Modified
dynamodb-to-s3-items		Python 2.7	1.5 kB	15 minutes ago
lex-backend		Python 2.7	8.8 MB	2 minutes ago
S3-deploy-page		Python 2.7	1.6 kB	15 minutes ago
qls-121723-26cffd651d460a-ScrubCustomResourceLambd-TUEFREKRLDCE		Python 2.7	5.5 kB	15 minutes ago
System_Provisioning		Python 2.7	9.6 MB	2 minutes ago

Feedback | English (US)

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/create

aws Services Resource Groups N. Virginia Support

Lambda > Functions > Create function

Create function

Author from scratch
Start with a simple "hello world" example.

Blueprints
Choose a preconfigured template as a starting point for your Lambda function.

Serverless Application Repository
Find and deploy serverless apps published by developers, companies, and partners on AWS.

Author from scratch info

Name

myFunctionName

Runtime

Node.js 6.10

Role

Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.

Choose an existing role

Existing role

You may use an existing role with this function. Note that the role must be assumable by Lambda and must have CloudWatch Logs permissions.

Cancel Create function

Feedback English (US)

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Author from scratch info

Name

es-

es-update

Runtime

Node.js 6.10

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es-update

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ES
ES-Update
qls-121723-26cff0631d460a-LambdaExecutionRoleSPDep-MSBLTHSOLCJ6
qls-121723-26cff0631d460a-LambdaExecutionRoleSysPr-1N91J5SRS44TP
qls-121723-26cff0631d460a5-ScrubCustomResourceRole-CD4E2SQAD51B

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ES-Update

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws | Services | Resource Groups | N. Virginia | Support

Lambda > Functions > es-update

ARN - arn:aws:lambda:us-east-1: function:es-update

es-update

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Congratulations! Your Lambda function "es-update" has been successfully created. You can now change its code and configuration. Click on the "Test" button to input a test event when you are ready to test your function.

Configuration | Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function.

API Gateway

AWS IoT

Alexa Skills Kit

Alexa Smart Home

CloudFront

CloudWatch Events

CloudWatch Logs

es-update

Add triggers from the list on the left

Amazon CloudWatch Logs

Amazon DynamoDB

Amazon Elasticsearch Service

Resources the function's role has access to will be shown here

Function code info

Code entry type

Runtime

Handler info

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws | Services | Resource Groups | N. Virginia | Support

es-update

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Alexa Smart Home
CloudFront
CloudWatch Events
CloudWatch Logs

Amazon Elasticsearch Service

Resources the function's role has access to will be shown here

Function code

Code entry type: Edit code inline

Runtime: Node.js 6.10

Handler: index.handler

Loading your function...

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Lambda Management C...

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aws Services Resource Groups N. Virginia Support

es-update

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

CloudWatch Events

CloudWatch Logs

Resources the function's role has access to will be shown here

Function code info

Code entry type: Edit code inline

Runtime: Node.js 6.10

Handler info: index.handler

File Edit Find View Goto Tools Window

Environment

es-update

index.js

index.js

```
exports.handler = (event, context, callback) => {
    // TODO implement
    const response = {
        statusCode: 200,
        body: JSON.stringify("Hello from Lambda!")
    };
    callback(null, response);
};
```

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws Services Resource Groups N. Virginia Support

es-update

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CloudWatch Events

CloudWatch Logs

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Code entry type: Edit code inline

Runtime: Node.js 6.10

Handler info: index.handler

File Edit Find View Goto Tools Window

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws | Services | Resource Groups | N. Virginia | Support

es-update

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aws Services Resource Groups N. Virginia Support

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CloudWatch Logs

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aws Services Resource Groups N. Virginia Support

es-update

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

CloudWatch Logs

Resources the function's role has access to will be shown here

Function code info

Code entry type: Edit code inline

Runtime: Node.js 6.10

- C# (.NET Core 1.0)
- C# (.NET Core 2.0)
- C# (.NET Core 2.1)
- Go 1.x
- Java 8
- Node.js 4.3
- Node.js 6.10
- Node.js 8.10
- Python 2.7
- Python 3.6

Handler info: index.handler

File Edit Find View Goto Tools Window

Environment

es-update

index.js

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1 exports.handler = (event, context, c
2     // TODO implement
3     const response = {
4         statusCode: 200,
5         body: JSON.stringify("Hello
6     };
7     callback(null, response);
8 };
```

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Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws | Services | Resource Groups | N. Virginia | Support

es-update

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

CloudWatch Events

CloudWatch Logs

Resources the function's role has access to will be shown here

Function code info

Code entry type: Upload a .ZIP file

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

Function package*

Upload

For files larger than 10 MB, consider uploading via S3.

Environment variables

You can define Environment Variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. Learn more

Key | Value | Remove

▸ Encryption configuration

Tags

You can use tags to group and filter your functions. A tag consists of a case-sensitive key-value pair. Learn more

Key | Value | Remove

Feedback | English (US)

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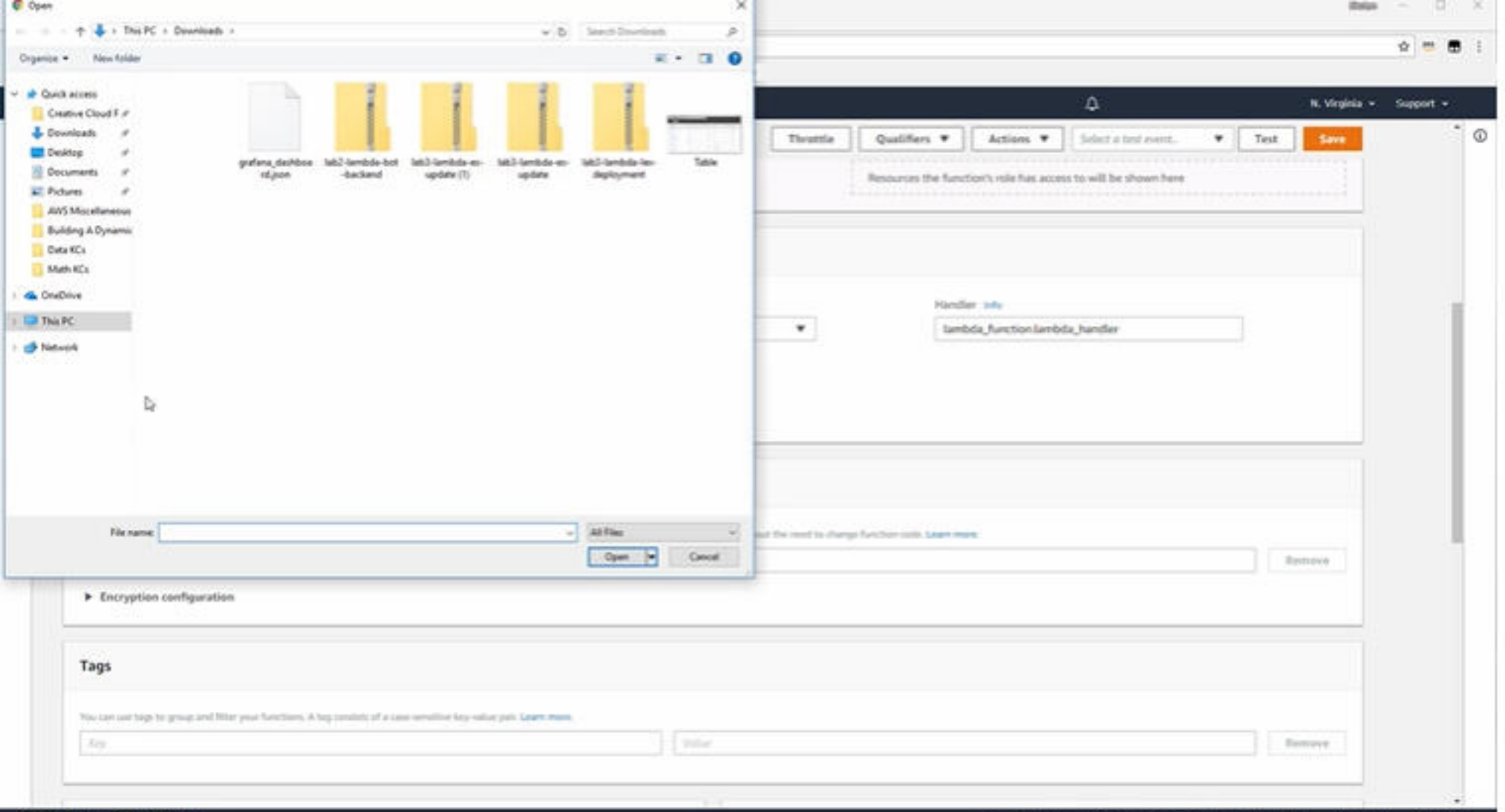
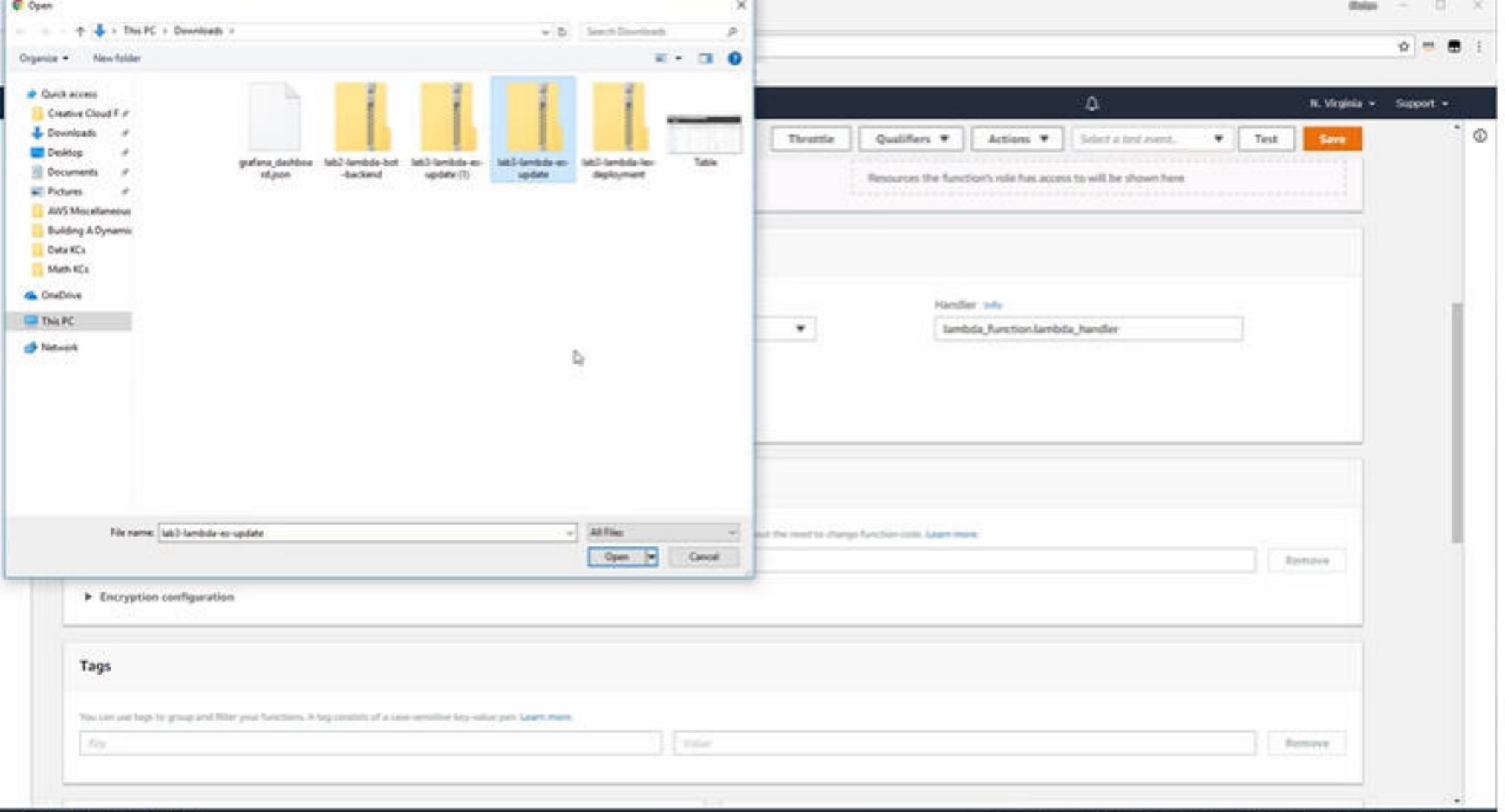

Open
This PC › Downloads ›
Organize
New folder
Quick access
Creative Cloud F
Downloads
Desktop
Documents
Pictures
AWS Miscellaneous
Building A Dynamic
Data KCs
Math KCs
OneDrive
This PC
Network
grafana_dashboard.json
lab2-lambda-bot-backend
lab3-lambda-es-update (1)
lab3-lambda-es-update
lab2-lambda-lex-deployment
Table
File name:
All Files
Open
Cancel
N. Virginia
Support
Throttle
Qualifiers
Actions
Select a test event...
Test
Save
Resources the function's role has access to will be shown here
Handler
lambda_function.lambda_handler
Encryption configuration
Tags
Feedback
English (US)


Open
This PC › Downloads
Organize
New folder
Quick access
Creative Cloud F
Downloads
Desktop
Documents
Pictures
AWS Miscellaneous
Building A Dynamic
Data KCs
Math KCs
OneDrive
This PC
Network
grafana_dashboard.json
lab2-lambda-bot-backend
lab3-lambda-es-update (1)
lab3-lambda-es-update
lab2-lambda-lex-deployment
Table
File name: lab3-lambda-es-update
All Files
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Feedback
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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws | Services | Resource Groups | N. Virginia | Support

es-update

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

CloudWatch Logs

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Function code info

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Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

Function package*

Upload | lab5-lambda-es-update.zip (8.8 MB)

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ES_ENDPOIN

ES_ENDPOINT

Value | Remove

Value | Remove

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Handler info: lambda_function.lambda_handler

Function package*

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You can define Environment Variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. Learn more

ES_ENDPOINT	search-mydomain-fkbkzq[illegible]424ocqevsiqeh3ef5q.us-east-1.es.amazonaws.com	Remove
Key	Value	Remove

▸ Encryption configuration

Tags

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Key	Value	Remove

Feedback English (US)

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws Services Resource Groups N. Virginia Support

es-update

Throttle Qualifiers Actions Select a test event... Test Save

CloudWatch Events

CloudWatch Logs

CodeCommit

Resources the function's role has access to will be shown here

Function code info

Code entry type: Upload a .ZIP file

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

Function package*: Upload lab3-lambda-es-update.zip (8.8 MB)

For files larger than 10 MB, consider uploading via S3.

Environment variables

You can define Environment Variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. Learn more.

ES_ENDPOINT	search-mydomain-fkbbzxdi424gcqwyvs6qeh3w5q.us-east-1.es.amazonaws.com	Remove
Key	Value	Remove

▸ Encryption configuration

Tags

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Key	Value	Remove

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aws Services Resource Groups N. Virginia Support

es-update

Throttle Qualifiers Actions Select a test event... Test Save

Tags

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Key Value Remove

Execution role

Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.

Choose an existing role

Existing role

You may use an existing role with this function. Note that the role must be assumable by Lambda and must have Cloudwatch Logs permissions.

ES-Update

Basic settings

Description

Memory (MB) Info

Your function is allocated CPU proportional to the memory configured.

128 MB

Timeout Info

0 min 1 sec

Network

VPC Info

Select a VPC that your function will access.

No VPC

Debugging and error handling

DLQ Resource Info

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

None

Feedback English (US)

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws Services Resource Groups N. Virginia Support

es-update

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Tags

You can use tags to group and filter your functions. A tag consists of a case-sensitive key-value pair. Learn more

Key | Value | Remove

Execution role

Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.

Choose an existing role

Existing role

You may use an existing role with this function. Note that the role must be assumable by Lambda and must have Cloudwatch Logs permissions.

ES-Update

Basic settings

Description

Memory (MB) Info

Your function is allocated CPU proportional to the memory configured.

128 MB

Timeout Info

0 min 12 sec

Network

VPC Info

Select a VPC that your function will access.

No VPC

Debugging and error handling

DLQ Resource Info

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

None

Feedback English (US)

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Lambda Management C...

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aws | Services | Resource Groups | N. Virginia | Support

es-update

Configuration | Monitoring

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Designer

CloudFront
CloudWatch Events
CloudWatch Logs
CodeCommit
Cognito Sync Trigger
DynamoDB
Kinesis
S3
SNS

es-update
Saved

DynamoDB
Configuration required

Add triggers from the list on the left

Amazon CloudWatch Logs
Amazon DynamoDB
Amazon Elasticsearch Service

Resources the function's role has access to will be shown here

Configure triggers

DynamoDB table
Select a DynamoDB table to listen for updates on.

myOrders

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

100

Feedback | English (US)

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws Services Resource Groups N. Virginia Support

es-update

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Cognito Sync Trigger
DynamoDB
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Starting position
The position in the stream to start reading from. For more information, see ShardIteratorType in the Amazon DynamoDB Streams API Reference.

Latest

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

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

Cancel | Add

Feedback | English (US)

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aws Services Resource Groups N. Virginia Support

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DynamoDB
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aws | Services | Resource Groups | N. Virginia | Support

es-update

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aws Services Resource Groups N. Virginia Support

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The largest number of records that will be read from your table's update stream at once.

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Starting position
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Latest

Trim horizon

Latest

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

Cancel | Add

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws | Services | Resource Groups | N. Virginia | Support

Lambda > Functions > es-update

ARN - arn:aws:lambda:us-east-1: function:es-update

es-update

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Congratulations! Your Lambda function "es-update" has been successfully created. You can now change its code and configuration. Click on the "Test" button to input a test event when you are ready to test your function.

Configuration | Monitoring

Designer

CloudFront
CloudWatch Events
CloudWatch Logs
CodeCommit
Cognito Sync Trigger
DynamoDB
Kinesis
S3
SNS

es-update
Saved

DynamoDB
Saving

Add triggers from the list on the left

Amazon CloudWatch Logs
Amazon DynamoDB
Amazon Elasticsearch Service

Resources the function's role has access to will be shown here

DynamoDB

New trigger 1

Delete

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/es-update?newFunction=true&tab=graph

aws | Services | Resource Groups | N. Virginia | Support

Lambda > Functions > es-update

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S3
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es-update

DynamoDB
Saved

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Amazon CloudWatch Logs
Amazon DynamoDB
Amazon Elasticsearch Service

Resources the function's role has access to will be shown here

DynamoDB

myProducts
arn:aws:dynamodb:us-east-1:565627162605:table/myProducts

Creating (~ 1 minute) | Delete

Feedback | English (US)

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aws Services Resource Groups N. Virginia Support

History

Lambda

Console Home

Elasticsearch Service

Mobile Hub

Amazon Lex

CloudWatch

Group A-Z

Compute
- EC2
- Lightsail
- Elastic Container Service
- EKS
- Lambda
- Batch
- Elastic Beanstalk

Storage
- S3
- EFS
- Glacier
- Storage Gateway

Database
- RDS
- DynamoDB
- ElastiCache
- Neptune
- Amazon Redshift

Migration
- AWS Migration Hub
- Application Discovery Service
- Database Migration Service
- Server Migration Service

Analytics
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- EMR
- CloudSearch
- Elasticsearch Service
- Kinesis
- QuickSight
- Data Pipeline
- AWS Glue

Security, Identity & Compliance
- IAM
- Cognito
- Secrets Manager
- GuardDuty
- Inspector
- Amazon Macie
- AWS Single Sign-On
- Certificate Manager
- CloudHSM
- Directory Service
- WAF & Shield
- Artifact

Mobile Services
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- AWS AppSync
- Device Farm

Developer Tools
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- CodeBuild
- CodeDeploy
- CodePipeline
- Cloud9
- X-Ray

Management Tools
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- CloudFormation
- CloudTrail
- Config
- OpsWorks
- Service Catalog
- Systems Manager
- Trusted Advisor
- Managed Services

Media Services
- Elastic Transcoder
- Kinesis Video Streams
- MediaConvert
- MediaLive
- MediaPackage
- MediaStore

Customer Engagement
- Amazon Connect
- Pinpoint
- Simple Email Service

Business Productivity
- Alexa for Business
- Amazon Chime
- WorkDocs
- WorkMail

Desktop & App Streaming
- WorkSpaces
- AppStream 2.0

Internet Of Things
- IoT Core
- IoT 1-Click
- IoT Device Management
- IoT Analytics
- Greengrass
- Amazon FreeRTOS
- IoT Device Defender

Game Development
- Amazon GameLift

close

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aws Services Resource Groups N. Virginia Support

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Game Development
- Amazon GameLift

close

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Lambda Management C...

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aws Services Resource Groups N. Virginia Support

AWS Lambda

Dashboard

Functions

Lambda > Functions

Functions (6)

Actions Create function

Filter by tags and attributes or search by keyword

1

Function name	Description	Runtime	Code size	Last Modified
es-update		Python 2.7	8.8 MB	1 minute ago
dynamodb-add-items		Python 2.7	1.3 kB	18 minutes ago
lex-backend		Python 2.7	8.8 MB	5 minutes ago
S3-deploy-page		Python 2.7	1.6 kB	18 minutes ago
qls-121723-26cffd6E31d460a-ScrubCustomResourceLambd-TUEFREXRLDCE		Python 2.7	5.5 kB	18 minutes ago
System_Provisioning		Python 2.7	9.6 MB	5 minutes ago

Feedback English (US)

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Lambda Management C...

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aws | Services | Resource Groups | N. Virginia | Support

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aws | Services | Resource Groups | N. Virginia | Support

AWS Lambda

Dashboard

Functions

Lambda > Functions

Functions (6)

Actions | Create function

View Details

Test

Delete

Filter by tags and attributes or search by keyword

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dynamodb-add-items		Python 2.7	1.3 kB	18 minutes ago
lex-backend		Python 2.7	8.8 MB	5 minutes ago
S3-deploy-page		Python 2.7	1.6 kB	18 minutes ago
qls-121723-26cffd6E31d460a-ScrubCustomResourceLambd-TUEFREXRLDCE		Python 2.7	5.5 kB	18 minutes ago
System_Provisioning		Python 2.7	9.6 MB	5 minutes ago

Feedback | English (US)

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions

aws | Services | Resource Groups | N. Virginia | Support

AWS Lambda

Dashboard

Functions

Lambda > Functions

Functions (6)

Actions | Create function

View details

Test

Delete

Filter by tags and attributes or search by keyword

1

Function name	Description	Runtime	Code size	Last Modified
es-update		Python 2.7	8.8 MB	1 minute ago
dynamodb-add-items		Python 2.7	1.3 kB	18 minutes ago
lex-backend		Python 2.7	8.8 MB	5 minutes ago
S3-deploy-page		Python 2.7	1.6 kB	18 minutes ago
qls-121723-26cffd6631d460a-ScrubCustomResourceLambda-TUEFREXRLDCE		Python 2.7	5.5 kB	18 minutes ago
System_Provisioning		Python 2.7	9.6 MB	5 minutes ago

Feedback | English (US)

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/dynamodb-add-items/edit?newMbdal=openMbdal=graph

aws | Services | Resource Groups | N. Virginia | Support

Lambda > Functions > dynamodb-add-items

ARN - arn:aws:lambda:us-east-1: :function:dynamodb-add-items

dynamodb-add-items

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

This function belongs to the CloudFormation stack **qls-121723-26cff0631d460a5e**. Visit the CloudFormation console to manage this stack.

Configuration | Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function.

- API Gateway
- AWS IoT
- Alexa Skills Kit
- Alexa Smart Home
- CloudFront
- CloudWatch Events

dynamodb-add-items

Related functions: Select a function

Resources the function's role has access to will be shown here

Function code info

Code entry type: Edit code inline

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

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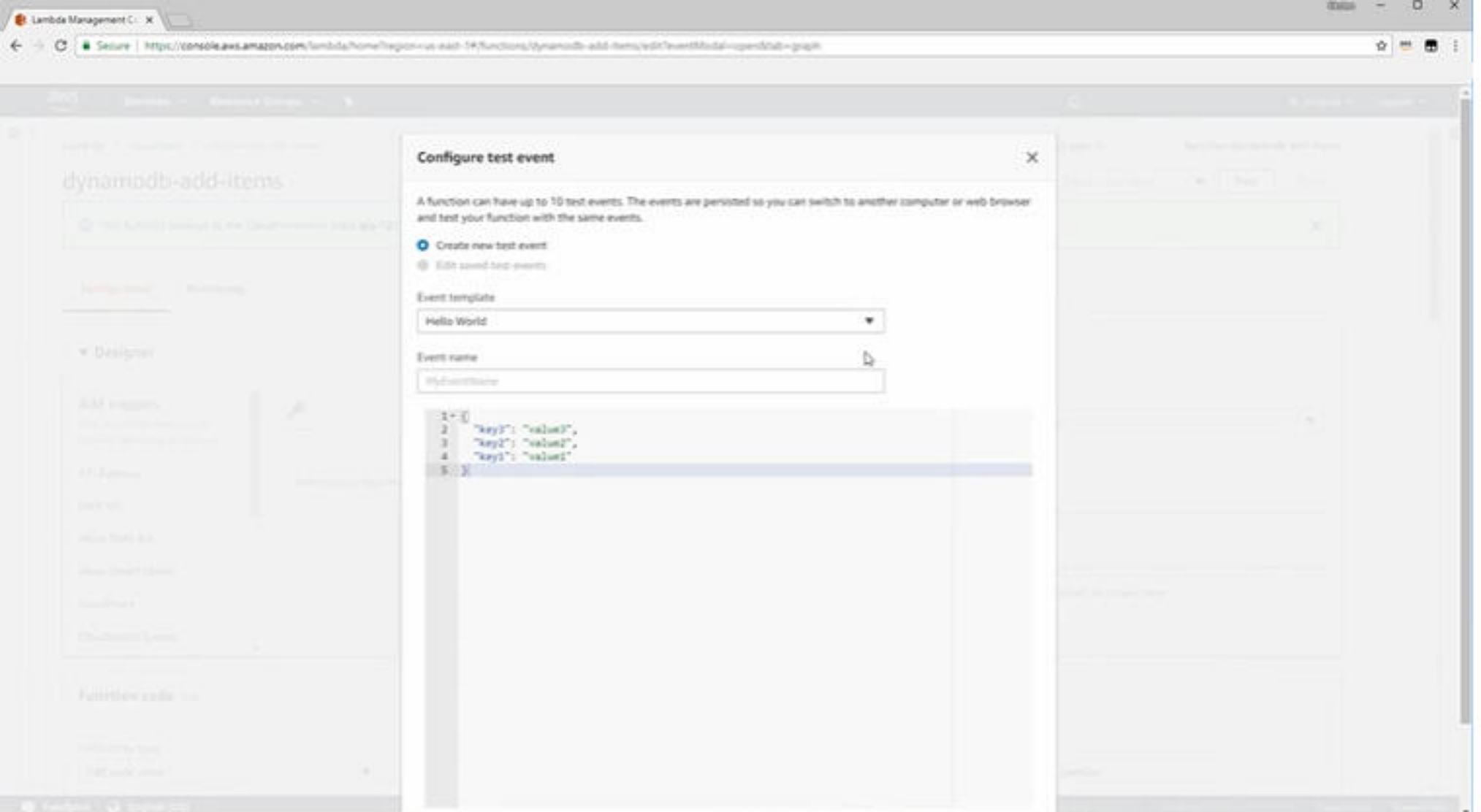
Lambda Management C...
Secure
dynamodb-add-items
Configure test event
A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.
Create new test event
Edit saved test events
Event template
Hello World
Event name
{
"key3": "value3",
"key2": "value2",
"key1": "value1"
}
Designer
Function code

Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/dynamodb-add-items/edit?eventModal=openModal&tab=graph

dynamodb-add-items

Configure test event

A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.

- Create new test event
- Edit saved test events

Event template

Hello World

Event name

AddB

```
1 {
2   "key3": "value3",
3   "key2": "value2",
4   "key1": "value1"
5 }
```

A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.

Create new test event

Edit saved test events

Event template

Hello World

Event name

AddItems

```
{
  "key3": "value3",
  "key2": "value2",
  "key1": "value1"
}
```

Cancel

Create

A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.

- (•) Create new test event
- ( ) Edit saved test events

Event template

Hello World

Event name

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1 {
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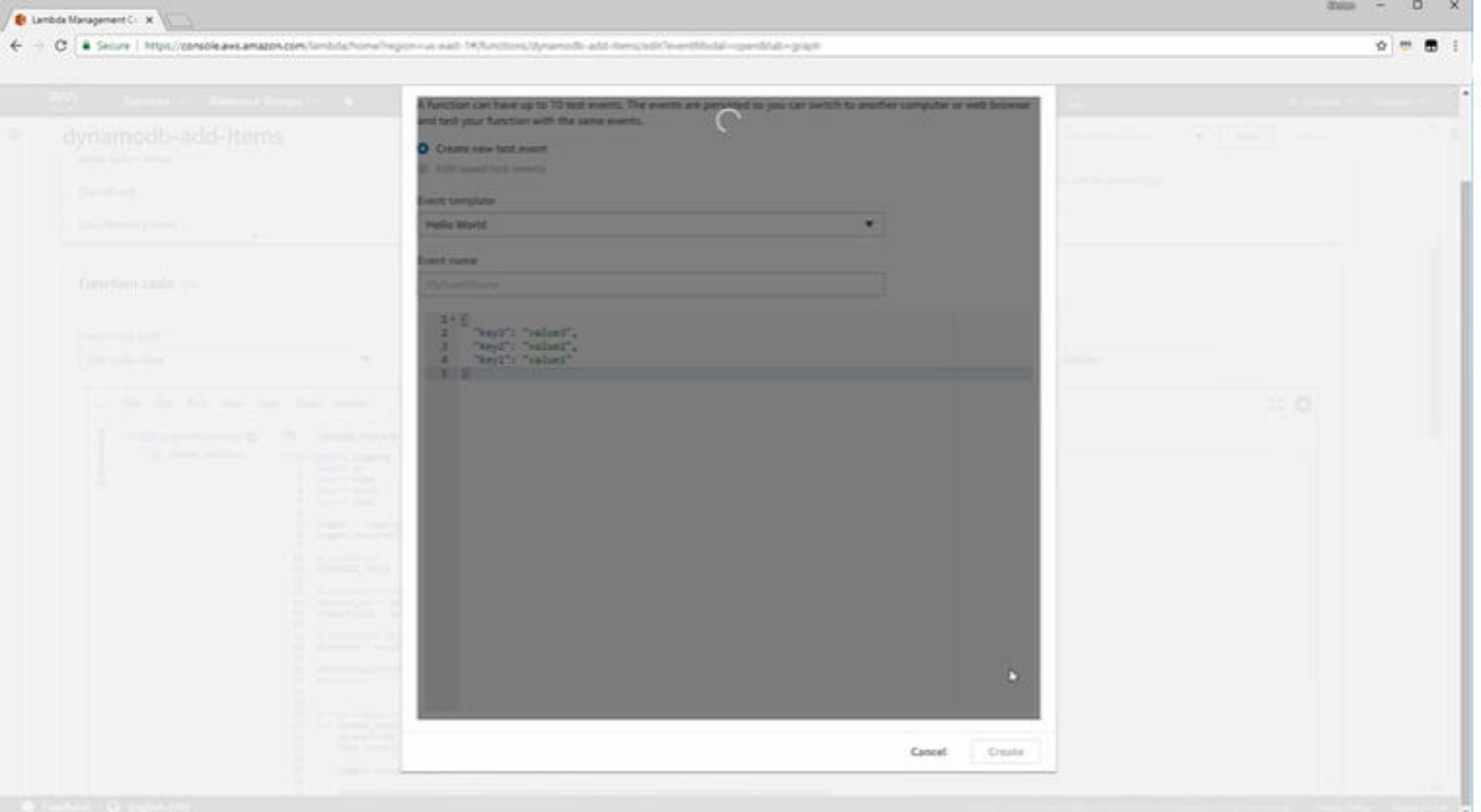
```

Cancel | Create


Lambda Management C...
Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/dynamodb-add-items/edit?eventModal=openModal=graph
dynamodb-add-items
A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.
Create new test event
Edit saved test events
Event template
Hello World
Event name
MyTestEvent
{
"key3": "value3",
"key2": "value2",
"key1": "value1"
}
Cancel
Create

Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/dynamodb-add-items/edit?eventModal=openEdit&tab=graph

aws Services Resource Groups N. Virginia Support

dynamodb-add-items

Throttle | Qualifiers | Actions | AddItems | Test | Save

Alexa Smart Home

CloudFront

CloudWatch Events

Resources the function's role has access to will be shown here

Function code info

Code entry type: Edit code inline

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

File Edit Find View Goto Tools Window

Environment

dynamodb-add-items

lambda_function.py

lambda_function

```
import logging
import os
import time
import boto3
import json

logger = logging.getLogger()
logger.setLevel(logging.INFO)

# Parameters
DYNAMODB_TABLE = "myProducts"

# Establish credentials
session_var = boto3.session.Session()
credentials = session_var.get_credentials()

# Initialize DynamoDB client
dynamodb = boto3.client('dynamodb')

==========================================================================
#Functions


# Main function (Lambda Handler)
def lambda_handler(event, context):
    os.environ['TZ'] = 'America/Los_Angeles'
    time.tzset()

    logger.debug('Received event: {}'.format(event))

    ==========================================================================
```

Feedback | English (US)

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/dynamodb-add-items/edit?eventModal=openEdit&tab=graph

aws Services Resource Groups N. Virginia Support

dynamodb-add-items

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Alexa Smart Home

CloudFront

CloudWatch Events

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Runtime: Python 2.7

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Environment

dynamodb-add-items

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```

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/dynamodb-add-items/edit?eventModal=open&tab=graph

aws Services Resource Groups N. Virginia Support

dynamodb-add-items

Throttle | Qualifiers | Actions | AddItems | Test | Save

Alexa Smart Home

CloudFront

CloudWatch Events

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/dynamodb-add-items/edit?eventModal=open&tab=graph

aws Services Resource Groups N. Virginia Support

dynamodb-add-items

Throttle | Qualifiers | Actions | AddItems | Test | Save

This function belongs to the CloudFormation stack qls-121723-26cffd631d460a5e. Visit the CloudFormation console to manage this stack.

Execution result: succeeded (logs)

Details

Configuration | Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function

API Gateway

AWS IoT

Alexa Skills Kit

Alexa Smart Home

CloudFront

CloudWatch Events

Add triggers from the list on the left

dynamodb-add-items

Related functions:

Select a function

Amazon CloudWatch Logs

Amazon DynamoDB

Resources the function's role has access to will be shown here

Function code info

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/dynamodb-add-items?editTriggerModal=open&tab=graph

aws Services Resource Groups N. Virginia Support

dynamodb-add-items

Throttle | Qualifiers | Actions | AddItems | Test | Save

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Configuration | Monitoring

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Lambda Management C...

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aws Services Resource Groups N. Virginia Support

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Execution result: succeeded (logs)

Details

The area below shows the result returned by your function execution.

```
"DynamoDB Items added"
```

Summary

Code SHA-256 29QO83FG/1XQETfnpZ4GqORBer245UUeHHUeHTNYSiQ=	Request ID 0fcb9721-b528-11e8-af10-b97fc94bcd42
Duration 639.01 ms	Billed duration 700 ms
Resources configured 128 MB	Max memory used 39 MB

Log output

The area below shows the logging calls in your code. These correspond to a single row within the CloudWatch log group corresponding to this Lambda function. Click here to view the CloudWatch log group.

```
START RequestId: 0fcb9721-b528-11e8-af10-b97fc94bcd42 Version: $LATEST
[INFO]  2018-09-10T18:33:50.958Z        0fcb9721-b528-11e8-af10-b97fc94bcd42    Starting new HTTPS connection (1): dynamodb.us-east-1.amazonaws.com
END RequestId: 0fcb9721-b528-11e8-af10-b97fc94bcd42
REPORT RequestId: 0fcb9721-b528-11e8-af10-b97fc94bcd42  Duration: 639.01 ms    Billed Duration: 700 ms        Memory Size: 128 MB    Max Memory Used: 39 MB
```

Configuration | Monitoring

Feedback | English (US)

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Lambda Management C...

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aws Services Resource Groups N. Virginia Support

dynamodb-add-items

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Configuration | Monitoring

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Lambda Management C...

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aws Services Resource Groups N. Virginia Support

dynamodb-add-items

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Configuration | Monitoring

Feedback | English (US)

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Lambda Management C...

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aws Services Resource Groups N. Virginia Support

dynamodb-add-items

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Configuration | Monitoring

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aws Services Resource Groups N. Virginia Support

dynamodb-add-items

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Duration 639.01 ms	Billed duration 700 ms
Resources configured 128 MB	Max memory used 39 MB

Log output

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[INFO]  2018-09-10T18:33:50.958Z        0fcb9721-b528-11e8-af10-b07fc94bcd42    Starting new HTTPS connection (1): dynamodb.us-east-1.amazonaws.com
END RequestId: 0fcb9721-b528-11e8-af10-b07fc94bcd42
REPORT RequestId: 0fcb9721-b528-11e8-af10-b07fc94bcd42  Duration: 639.01 ms    Billed Duration: 700 ms        Memory Size: 128 MB     Max Memory Used: 39 MB
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Configuration | Monitoring

Feedback | English (US)

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Lambda Management C...

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aws Services Resource Groups N. Virginia Support

dynamodb-add-items

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Configuration | Monitoring

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/dynamodb-add-items/edit?eventModal=openStab=graph

aws Services Resource Groups N. Virginia Support

History

Lambda

Console Home

Elasticsearch Service

Mobile Hub

Amazon Lex

CloudWatch

Group A-Z

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- EC2
- Lightsail
- Elastic Container Service
- EKS
- Lambda
- Batch
- Elastic Beanstalk

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- EFS
- Glacier
- Storage Gateway

Database
- RDS
- DynamoDB
- ElastiCache
- Neptune
- Amazon Redshift

Migration
- AWS Migration Hub
- Application Discovery Service
- Database Migration Service
- Server Migration Service

Analytics
- Athena
- EMR
- CloudSearch
- Elasticsearch Service
- Kinesis
- QuickSight
- Data Pipeline
- AWS Glue

Security, Identity & Compliance
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- GuardDuty
- Inspector
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- AWS Single Sign-On
- Certificate Manager
- CloudHSM
- Directory Service
- WAF & Shield
- Artifact

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- AWS AppSync
- Device Farm

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- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline
- Cloud9
- X-Ray

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- CloudWatch
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- CloudTrail
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- Systems Manager
- Trusted Advisor
- Managed Services

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- MediaLive
- MediaPackage
- MediaStore

Customer Engagement
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- Pinpoint
- Simple Email Service

Business Productivity
- Alexa for Business
- Amazon Chime
- WorkDocs
- WorkMail

Desktop & App Streaming
- WorkSpaces
- AppStream 2.0

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- IoT Core
- IoT 1-Click
- IoT Device Management
- IoT Analytics
- Greengrass
- Amazon FreeRTOS
- IoT Device Defender

Game Development
- Amazon GameLift

Close

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/dynamodb-add-items/edit?eventModal=openStub=graph

aws Services Resource Groups N. Virginia Support

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CloudWatch

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Glacier
Storage Gateway

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ElastiCache
Neptune
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IoT Device Defender

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Amazon GameLift

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Amazon Elasticsearch Se

Secure | https://console.aws.amazon.com/es/home?region=us-east-1#

aws Services Resource Groups N. Virginia Support

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Amazon Elasticsearch Service dashboard

Create a new domain

My Elasticsearch domains

Domain	Elasticsearch version	Endpoint	Searchable documents	Cluster health	Free storage space	Minimum free storage space	Configuration state
mydomain	5.5	Internet	1	Yellow	10.91 GB	10.91 GB	Active

More Info

New feature announcements
Service overview
Documentation
Discussion forums

Stream data into Elasticsearch in near real-time using Amazon Kinesis Firehose. Learn more

Create Firehose Delivery Stream

Feedback English (US)

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Overview | Cluster health | Indices | Monitoring | Logs | Upgrade history

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  - Count 0
  - Size in bytes 810 B
  - Query total 0
  - Mappings product
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Domain status	Active
Elasticsearch version	5.5
Endpoint	https://search-mydomain-f6blcxd424gcqpeysdbgeh3w5q.us-east-1.es.amazonaws.com
Domain ARN	arn:aws:es:us-east-1: domain/mydomain
Kibana	https://search-mydomain-f6blcxd424gcqpeysdbgeh3w5q.us-east-1.es.amazonaws.com/_plugin/kibana/
Instance type	t2.medium.elasticsearch
Instance count	1
Dedicated master	Disabled
Zone awareness	Disabled
Storage type	EBS
EBS volume type	General Purpose (SSD)
EBS volume size	15 GB
Encryption at rest	Disabled
Upgrade status	-
Start hour for the daily automated snapshot	00:00 UTC (default)
Amazon Cognito for authentication	Disabled
Advanced options	Elasticsearch parameters rest.action.multi.allow_explicit_index: true

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AWS Lambda

Dashboard

Functions

Lambda > Functions

Functions (6)

Actions | Create function

Filter by tags and attributes or search by keyword

1

Function name	Description	Runtime	Code size	Last Modified
es-update		Python 2.7	8.8 MB	4 minutes ago
dynamodb-add-items		Python 2.7	1.3 kB	21 minutes ago
lex-backend		Python 2.7	8.8 MB	8 minutes ago
S3-deploy-page		Python 2.7	1.6 kB	21 minutes ago
qls-121723-26cffd6311d460a-ScrubCustomResourceLambd-TUEFREKXRLDCE		Python 2.7	5.5 kB	21 minutes ago
System_Provisioning		Python 2.7	9.6 MB	8 minutes ago

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Lambda Management C...

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aws | Services | Resource Groups | N. Virginia | Support

Lambda > Functions > Create function

Create function

Author from scratch
Start with a simple "hello world" example.

Blueprints
Choose a preconfigured template as a starting point for your Lambda function.

Serverless Application Repository
Find and deploy serverless apps published by developers, companies, and partners on AWS.

Author from scratch info

Name
myFunctionName

Runtime
Node.js 6.10

Role
Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.
Choose an existing role

Existing role
You may use an existing role with this function. Note that the role must be assumable by Lambda and must have CloudWatch Logs permissions.

Cancel | Create function

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lex-deployment

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ES-Update

Lex-Backend

Lex-Deployment

qls-121723-26cffd631d460a-LambdaExecutionRoleDynam-1BH44KIDZIFF2S

qls-121723-26cffd631d460a-LambdaExecutionRoleSPDep-MSBLTHSOLCJ6

qls-121723-26cffd631d460a-LambdaExecutionRoleSysPr-1N93JSSRS44TP

qls-121723-26cffd631d460a5-ScrubCustomResourceRole-CD4E25QADS1B

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Blueprints
Choose a preconfigured template as a starting point for your Lambda function.

Serverless Application Repository
Find and deploy serverless apps published by developers, companies, and partners on AWS.

Author from scratch info

Name
lex-deployment

Runtime
Node.js 6.10

Role
Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.
Choose an existing role

Existing role
You may use an existing role with this function. Note that the role must be assumable by Lambda and must have Cloudwatch Logs permissions.
Lex-Deployment

Cancel | Create function

Feedback | English (US)

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-deployment?newFunction=true&tab=graph

aws | Services | Resource Groups | N. Virginia | Support

Lambda > Functions > lex-deployment

ARN - arn:aws:lambda:us-east-1: function:lex-deployment

lex-deployment

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Congratulations! Your Lambda function "lex-deployment" has been successfully created. You can now change its code and configuration. Click on the "Test" button to input a test event when you are ready to test your function.

Configuration | Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function

- API Gateway
- AWS IoT
- Alexa Skills Kit
- Alexa Smart Home
- CloudFront
- CloudWatch Events

lex-deployment

Add triggers from the list on the left

Resources the function's role has access to will be shown here

Function code info

Code entry type: Edit code inline

Runtime: Node.js 6.10

Handler info: index.handler

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Lambda Management C...

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aws | Services | Resource Groups | N. Virginia | Support

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- API Gateway
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- Alexa Skills Kit
- Alexa Smart Home
- CloudFront
- CloudWatch Events
- CloudWatch Logs
- CodeCommit
- Cognito Sync Trigger

lex-deployment

Add triggers from the list on the left

- AWS Lambda
- Amazon CloudWatch Logs
- Amazon Elasticsearch Service
- Amazon Lex

Resources the function's role has access to will be shown here

Function code info

Feedback | English (US)

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aws Services Resource Groups N. Virginia Support

lex-deployment

Throttle Qualifiers Actions Select a test event... Test Save

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Click on a trigger from the list below to add it to your function.

API Gateway

AWS IoT

Alexa Skills Kit

Alexa Smart Home

CloudFront

CloudWatch Events

CloudWatch Logs

CodeCommit

lex-deployment

Add triggers from the list on the left

AWS Lambda

Amazon CloudWatch Logs

Amazon Elasticsearch Service

Amazon Lex

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Function code info

Code entry type

Edit code inline

Runtime

Node.js 6.10

Handler info

index.handler

File Edit Find View Goto Tools Window

Environment

lex-deployment

Feedback English (US)

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aws Services Resource Groups N. Virginia Support

lex-deployment

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Function code info

Code entry type: Edit code inline

Runtime: Node.js 6.10

Handler info: index.handler

File Edit Find View Goto Tools Window

Environment

lex-deployment

index.js

index.js

```
exports.handler = (event, context, callback) => {
    // TODO implement
    const response = {
        statusCode: 200,
        body: JSON.stringify("Hello From Lambda!")
    };
    callback(null, response);
};
```

1:1 Javascript Spaces: 4

Feedback English (US)

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aws Services Resource Groups N. Virginia Support

lex-deployment

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

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Code entry type: Edit code inline

Runtime: Node.js 6.10

Handler info: index.handler

File Edit Find View Goto Tools Window

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lex-deployment

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aws | Services | Resource Groups | N. Virginia | Support

lex-deployment

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aws Services Resource Groups N. Virginia Support

lex-deployment

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Cognito Sync Trigger

Function code info

Code entry type: Edit code inline

Runtime: Python 2.7

Handler info: lambda_function.lambda_handler

File Edit Find View Goto Tools Window

Environment

lex-deployment

index.js

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lex-deployment

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Function package*

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Environment variables

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Key | Value | Remove

▸ Encryption configuration

Tags

You can use tags to group and filter your functions. A tag consists of a case-sensitive key-value pair. Learn more.

Key | Value | Remove

Execution role

Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.

Choose an existing role

Existing role

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Lex-Deployment

Basic settings

Description

Memory (MB) Info

Your function is allocated CPU proportional to the memory configured.

128 MB

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Lambda Management C...

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aws Services Resource Groups N. Virginia Support

lex-deployment

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aws Services Resource Groups N. Virginia Support

lex-deployment

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Key	Value	
ES_ENDPOINT		Remove
		Remove

▸ Encryption configuration

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Environment variables

You can define Environment Variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. Learn more.

ES_ENDPOINT	search-mydomain-fkblzxdi424gcqpeysliqeh3w5q.us-east-1.es.amazonaws.com	Remove
Key	search-mydomain-fkblzxdi424gcqpeysliqeh3w5q.us-east-1.es.amazonaws.com	Remove

Encryption configuration

Tags

You can use tags to group and filter your functions. A tag consists of a case-sensitive key-value pair. Learn more.

Key	Value	Remove

Execution role

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Existing role

Basic settings

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Key	Value	
ES_ENDPOINT	search-mydomain-fkbizxdi424gcqpeyp6qeh3w5q.us-east-1.es.amazonaws.com	Remove
Key	Value	Remove

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lex-deployment

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Function package*

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ES_ENDPOINT	search-mydomain-fkblzxdi424gcqwysliqeh3w5q.us-east-1.es.amazonaws.com	Remove
DIAL	Value	Remove
Key	Value	Remove

▸ Encryption configuration

Tags

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Basic settings

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Key	Value	
ES_ENDPOINT	search-mydomain-fkblzxdi424gcqwysliqeh3w5q.us-east-1.es.amazonaws.com	Remove
DIALOG	Value	Remove
Key	Value	Remove

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Key	Value	
ES_ENDPOINT	search-mydomain-fkblzxdi424gcqwysliqeh3w5q.us-east-1.es.amazonaws.com	Remove
DIALOGCODEHOOK		Remove
		Remove

▸ Encryption configuration

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Key	Value	
		Remove

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Basic settings

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ES_ENDPOINT	search-mydomain-fkbizxdi424gcqwyqdiqxh3w5q.us-east-1.es.amazonaws.com	Remove
DIALOGCODEHOOK_URI	Value	Remove
Key	Value	Remove

▸ Encryption configuration

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DIALOGCODEHOOK_URI	arn:aws:lambda:us-east-1:[redacted]:function:lex-backend	Remove
Key	Value	Remove

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Lambda Management C...

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/lex-deployment?newFunction=true&tab=graph

aws Services Resource Groups N. Virginia Support

lex-deployment

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Function package*

Upload | lab5-lambda-lex-deployment.zip (7.1 MB)

For files larger than 10 MB, consider uploading via S3.

Environment variables

You can define Environment Variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. Learn more.

ES_ENDPOINT	search-mydomain-fkbizwdi424gcqwyslqqh3w5q.us-east-1.es.amazonaws.com	Remove
DIALOGCODEHOOK_URI	arn:aws:lambda:us-east-1:[redacted]:function:lex-backend	Remove
Key	Value	Remove

▸ Encryption configuration

Tags

You can use tags to group and filter your functions. A tag consists of a case-sensitive key-value pair. Learn more.

Key	Value	Remove

Execution role

Defines the permissions of your function. Note that new roles may not be available for a few minutes after creation. Learn more about Lambda execution roles.

Choose an existing role

Basic settings

Description

Feedback | English (US)

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Choose an existing role

Existing role

You may use an existing role with this function. Note that the role must be assumable by Lambda and must have Cloudwatch Logs permissions.

Lex-Deployment

Basic settings

Description

Memory (MB) Info

Your function is allocated CPU proportional to the memory configured.

128 MB

Timeout Info

0 min 3 sec

Network

VPC Info

Select a VPC that your function will access.

Debugging and error handling

DLQ Resource Info

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

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Lambda Management C...

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aws Services Resource Groups N. Virginia Support

Lambda > Functions > lex-deployment

ARN - arn:aws:lambda:us-east-1: function:lex-deployment

lex-deployment

Throttle | Qualifiers | Actions | Select a test event... | Test | Save

Congratulations! Your Lambda function "lex-deployment" has been successfully created. You can now change its code and configuration. Click on the "Test" button to input a test event when you are ready to test your function.

Configuration | Monitoring

Designer

Add triggers

Click on a trigger from the list below to add it to your function

- API Gateway
- AWS IoT
- Alexa Skills Kit
- Alexa Smart Home
- CloudFront
- CloudWatch Events
- CloudWatch Logs
- CodeCommit
- Cognito Sync Trigger

lex-deployment

Unsaved changes

Saving

Add triggers from the list on the left

- AWS Lambda
- Amazon CloudWatch Logs
- Amazon Elasticsearch Service
- Amazon Lex

Resources the function's role has access to will be shown here

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aws | Services | Resource Groups | N. Virginia | Support

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History

- Lambda
- Elasticsearch Service
- Console Home
- Mobile Hub
- Amazon Lex
- CloudWatch

Group A-Z

Compute
- EC2
- Lightsail
- Elastic Container Service
- EKS
- Lambda
- Batch
- Elastic Beanstalk

Storage
- S3
- EFS
- Glacier
- Storage Gateway

Database
- RDS
- DynamoDB
- ElastiCache
- Neptune
- Amazon Redshift

Migration
- AWS Migration Hub
- Application Discovery Service
- Database Migration Service
- Server Migration Service

Analytics
- Athena
- EMR
- CloudSearch
- Elasticsearch Service
- Kinesis
- QuickSight
- Data Pipeline
- AWS Glue

Security, Identity & Compliance
- IAM
- Cognito
- Secrets Manager
- GuardDuty
- Inspector
- Amazon Macie
- AWS Single Sign-On
- Certificate Manager
- CloudHSM
- Directory Service
- WAF & Shield
- Artifact

Mobile Services
- Mobile Hub
- AWS AppSync
- Device Farm

Developer Tools
- CodeStar
- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline
- Cloud9
- X-Ray

Management Tools
- CloudWatch
- AWS Auto Scaling
- CloudFormation
- CloudTrail
- Config
- OpsWorks
- Service Catalog
- Systems Manager
- Trusted Advisor
- Managed Services

Media Services
- Elastic Transcoder
- Kinesis Video Streams
- MediaConvert
- MediaLive
- MediaPackage
- MediaStore

Customer Engagement
- Amazon Connect
- Pinpoint
- Simple Email Service

Business Productivity
- Alexa for Business
- Amazon Chime
- WorkDocs
- WorkMail

Desktop & App Streaming
- WorkSpaces
- AppStream 2.0

Internet Of Things
- IoT Core
- IoT 1-Click
- IoT Device Management
- IoT Analytics
- Greengrass
- Amazon FreeRTOS
- IoT Device Defender

Game Development
- Amazon GameLift

Close

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CloudWatch Managemo

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#

aws | Services | Resource Groups | N. Virginia | Support

- CloudWatch
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  - ALARM
  - INSUFFICIENT
  - OK
- Billing
- Events
  - Rules
  - Event Buses
- Logs
- Metrics

Favorites

Introducing new graph options: Vertical annotations

Amazon CloudWatch launches vertical annotations. Add vertical annotations to mark the beginning and end of an operational event, or highlight a deployment time. You may also format your text with Markdown. Learn more.

Metric Summary

Amazon CloudWatch monitors operational and performance metrics for your AWS cloud resources and applications. You currently have 126 CloudWatch metrics available in the US East (N. Virginia) region.

Browse or search your metrics to get started graphing data and creating alarms.

Browse Metrics | Search Metrics

Additional Info

- Getting Started Guide
- Monitoring Scripts Guide
- Overview and Features
- Documentation
- Forums
- Report an Issue

Alarm Summary

You do not have any alarms created in the US East (N. Virginia) region. Alarms allow you to send notifications or execute AutoScaling actions in response to any CloudWatch metric.

Create Alarm

You can now use Amazon CloudWatch alarms to monitor the estimated charges on your AWS bill and receive email alerts whenever charges exceed a threshold you define.

You can set up billing alarms to receive e-mail alerts when your AWS charges exceed a threshold you choose. To get started, visit the Account Billing console, click Preferences in the left navigation pane and check the Receive Billing Alerts box, then return here to the CloudWatch console.

Service Health

Current Status	Details
Amazon CloudWatch Service	Service is operating normally

View complete service health details

Feedback | English (US)

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CloudWatch Managem

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#

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CloudWatch Managem

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Favorites

Welcome to CloudWatch Events

CloudWatch Events helps you to respond to state changes in your AWS resources. When your resources change state they automatically send events into an event stream. You can create rules that match selected events in the stream and route them to targets to take action. You can also use rules to take action on a pre-determined schedule. For example, you can configure rules to:

- Automatically invoke an AWS Lambda function to update DNS entries when an event notifies you that Amazon EC2 instance enters the Running state
- Direct specific API records from CloudTrail to a Kinesis stream for detailed analysis of potential security or availability risks
- Take a snapshot of an Amazon EBS volume on a schedule

Create rule

Start Responding to CloudWatch Events

Determine events of interest in the CloudWatch Events stream

Create rules to select events of interest

Specify actions to take when a rule matches an event

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Favorites

Step 1: Create rule

Create rules to invoke Targets based on Events happening in your AWS environment.

Event Source

Build or customize an Event Pattern or set a Schedule to invoke Targets.

Event Pattern Schedule

Build event pattern to match events by service

Service Name Select or type to search...

Event Type Select or type to search...

Event Pattern Preview Copy to clipboard Edit

{}

Show sample event(s)

Targets

Select Target to invoke when an event matches your Event Pattern or when schedule is triggered.

Add target*

* Required

Cancel Configure details

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Event Pattern Schedule

Fixed rate of 5 Minutes

Cron expression 0/5 * * * 1 *

Learn more about CloudWatch Events schedules

Show sample event(s)

Targets

Select Target to invoke when an event matches your Event Pattern or when schedule is triggered.

Add target

Add at most 1 targets

* Required

Cancel Configure details

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Event Pattern Schedule

Fixed rate of 5 Minutes

Cron expression 0/5 * * * ? *

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Show sample event(s)

Targets

Select Target to invoke when an event matches your Event Pattern or when schedule is triggered.

Lambda function

Function*

Configure version/a

Configure input

Add target*

- es-update
- dynamodb-add-items
- lex-backend
- lex-deployment
- S3-deploy-page
- qle-121723-26cffd631-d460a-ScrubCusto...
- System_Provisioning

* Required

Cancel Configure details

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Event Pattern | Schedule

Fixed rate of 5 Minutes

Cron expression 0/5 * * * ? *

Learn more about CloudWatch Events schedules

Show sample event(s)

Targets

Select Target to invoke when an event matches your Event Pattern or when schedule is triggered.

Lambda function

Function* lex

lex backend

lex deployment

Configure version/alias

Configure input

Add target*

* Required

Cancel | Configure details

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Show sample event(s)

Targets

Select Target to invoke when an event matches your Event Pattern or when schedule is triggered.

Lambda function

Function* lex-deployment

Configure version/alias

Configure input

Add target*

* Required

Cancel Configure details

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Step 2: Configure rule details

Rule definition

Name* Lex Deployment

Description

State Enabled

CloudWatch Events will add necessary permissions for target(s) so they can be invoked when this rule is triggered.

* Required

Cancel Back Create rule

Feedback English (US)

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Step 2: Configure rule details

Rule definition

Name* Lex-Deployment-Trigger

Description

State ☑ Enabled

CloudWatch Events will add necessary permissions for target(s) so they can be invoked when this rule is triggered.

* Required

Cancel Back Create rule

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CloudWatch Managem

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Success
Rule **Lex-Deployment-Trigger** was created.

Rules

Rules route events from your AWS resources for processing by selected targets. You can create, edit, and delete rules.

Create rule Actions

Status All Name

Viewing 1 to 1 of 1 Rules

	Status	Name	Description
		Lex-Deployment-Trigger	

Feedback English (US)

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CloudWatch Managemo

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logs

aws | Services | Resource Groups | N. Virginia | Support

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CloudWatch > Log Groups

Create Metric Filter | Actions

Filter: Log Group Name Prefix

Log Groups 1-4

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/ec-update	Never Expire	0 filters	None
/aws/lambda/qls-121723-26cf8631d460a-ScrubCustomResourceLambd-TUEFREKRL0CE	Never Expire	0 filters	None

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CloudWatch Managem

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logs

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Create Metric Filter | Actions

Filter: Log Group Name Prefix

Log Groups 1-4

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/es-update	Never Expire	0 filters	None
/aws/lambda/qls-121723-26cfd6631d460a-ScrubCustomResourceLambda-TUEFREKRLDCE	Never Expire	0 filters	None

Feedback | English (US)

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CloudWatch Managemo

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CloudWatch > Log Groups

Create Metric Filter | Actions

Filter: Log Group Name Prefix

Log Gr | Refresh

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/ec-update	Never Expire	0 filters	None
/aws/lambda/qls-121723-26cf86316460a-ScrubCustomResourceLambd-TUEFREXRL0CE	Never Expire	0 filters	None

Feedback | English (US)

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CloudWatch Managemu

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aws Services Resource Groups N. Virginia Support

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CloudWatch > Log Groups

Create Metric Filter Actions

Filter: Log Group Name Prefix

Log Groups 1-4

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/es-update	Never Expire	0 filters	None
/aws/lambda/qls-121723-26cf8631d460a-ScrubCustomResourceLambd-TUEFREKRLDCE	Never Expire	0 filters	None

Feedback English (US)

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CloudWatch Managem

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Create Metric Filter | Actions

Filter: Log Group Name Prefix

Log Groups 1-4

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/es-update	Never Expire	0 filters	None
/aws/lambda/qls-121723-26cfd6316460a-ScrubCustomResourceLambda-TUEFREKRL0CE	Never Expire	0 filters	None

Feedback | English (US)

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Log Groups 1-4

Log Groups	Expire Events After	Metric Filters	Subscriptions
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CloudWatch Managemi

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logs

aws Services Resource Groups N. Virginia Support

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CloudWatch > Log Groups

Create Metric Filter Actions

Filter: Log Group Name Prefix

Log Groups 1-4

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/es-update	Never Expire	0 filters	None
/aws/lambda/qla-121723-26cf86316460a-ScrubCustomResourceLambd-TUEFREXRLDCE	Never Expire	0 filters	None

Feedback English (US)

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CloudWatch Managemi

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logs

aws Services Resource Groups N. Virginia Support

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Filter: Log Group Name Prefix

Log Groups 1-4

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/es-update	Never Expire	0 filters	None
/aws/lambda/qlo-121723-26cfd6631d460a-ScrubCustomResourceLambd-TUEFREKRL0CE	Never Expire	0 filters	None

Feedback English (US)

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Filter: Log Group Name Prefix

Log Groups 1-4

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/es-update	Never Expire	0 filters	None
/aws/lambda/qls-121723-26cf86316460a-ScrubCustomResourceLambda-TUEFREKRLDCE	Never Expire	0 filters	None

Feedback | English (US)

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CloudWatch Managemi

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aws Services Resource Groups N. Virginia Support

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CloudWatch > Log Groups

Create Metric Filter Actions

Filter: Log Group Name Prefix

No Log Groups

Log Groups	Expire Events After	Metric Filters	Subscriptions

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CloudWatch Managemi

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aws Services Resource Groups N. Virginia Support

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CloudWatch > Log Groups

Create Metric Filter Actions

Filter: Log Group Name Prefix

Log Groups 1-5

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/es-update	Never Expire	0 filters	None
/aws/lambda/lex-deployment	Never Expire	0 filters	None
/aws/lambda/qle-121723-06cff9631d460a-ScrubCustomResourceLambda-TUEFREKRLOCE	Never Expire	0 filters	None

Feedback English (US)

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CloudWatch Managemi

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logs

aws Services Resource Groups N. Virginia Support

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Create Metric Filter Actions

Filter: Log Group Name Prefix

Log Groups 1-5

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/es-update	Never Expire	0 filters	None
/aws/lambda/lex-deployment	Never Expire	0 filters	None
/aws/lambda/qle-121723-06cf9d31d46da-ScrubCustomResourceLambda-TUEFREARLOCE	Never Expire	0 filters	None

Feedback English (US)

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CloudWatch Managem

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logs

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CloudWatch > Log Groups

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Log Groups 1-5

Log Groups	Expire Events After	Metric Filters	Subscriptions
/aws/lambda/System_Provisioning	Never Expire	0 filters	None
/aws/lambda/dynamodb-add-items	Never Expire	0 filters	None
/aws/lambda/es-update	Never Expire	0 filters	None
/aws/lambda/lex-deployment	Never Expire	0 filters	None
/aws/lambda/qlv-121723-06f9f8631d460a-ScrubCustomResourceLambda-TUEFREARLOCE	Never Expire	0 filters	None

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CloudWatch Managem

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logStreams:group=/aws/lambda/lex-deployment

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CloudWatch > Log Groups > Streams for /aws/lambda/lex-deployment

Search Log Group | Create Log Stream | Delete Log Stream

Filter: Log Stream Name Prefix

Log Streams 1-1

Log Streams	Last Event Time
2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348	2018-09-10 11:39 UTC-7

Feedback | English (US)

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CloudWatch Managem

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logEventViewer:group=/aws/lambda/lex-deployment;stream=2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348;start=2018-09-09T18:29:45Z

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CloudWatch > Log Groups > /aws/lambda/lex-deployment > 2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348

Expand all | Row | Text

Filter events | all | 2018-09-09 (18:29:45)

Time (UTC +00:00) | Message

Feedback | English (US)

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CloudWatch Managemo

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logEventViewer:group=/aws/lambda/lex-deployment;stream=2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348;start=2018-09-09T18:29:45Z

aws Services Resource Groups N. Virginia Support

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CloudWatch > Log Groups > /aws/lambda/lex-deployment > 2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348

Expand all Row Text

Filter events all 2018-09-09 (18:39:45)

Time (UTC +00:00)	Message
2018-09-10	
	No older events found at the moment. Retry.
18:39:45	START RequestId: e31bf67b-b528-11e8-93d9-7d2c3a4ed3cb Version: $LATEST
18:39:45	Unable to import module 'lambda_function': No module named 'lambda_function'
18:39:45	END RequestId: e31bf67b-b528-11e8-93d9-7d2c3a4ed3cb
18:39:45	REPORT RequestId: e31bf67b-b528-11e8-93d9-7d2c3a4ed3cb Duration: 0.49 ms Billed Duration: 100 ms Memory Size: 128 MB Max Memory Used: 18 MB
	No newer events found at the moment. Retry.

Feedback English (US)

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CloudWatch Managemo

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logEventViewer:group=/aws/lambda/lex-deployment;stream=2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348;start=2018-09-09T18:29:45Z

aws | Services | Resource Groups | N. Virginia | Support

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CloudWatch > Log Groups > /aws/lambda/lex-deployment > 2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348

Expand all | Row | Text

Filter events | all | 2018-09-09 (18:39:45)

Time (UTC +00:00)	Message
2018-09-10	
	No older events found at the moment. Retry.
18:39:45	START RequestId: e31bf67b-b528-11e8-93d9-7d2c3a4ed3cb Version: $LATEST
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Feedback | English (US)

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CloudWatch Managem

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logEventViewer:group=/aws/lambda/lex-deployment;stream=2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348;start=2018-09-09T18:39:45Z

aws Services Resource Groups N. Virginia Support

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CloudWatch > Log Groups > /aws/lambda/lex-deployment > 2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348

Expand all Row Text

Filter events all 2018-09-09 (18:39:45)

Time (UTC +00:00)	Message
2018-09-10	
	No older events found at the moment. Retry.
18:39:45	START RequestId: e31bf67b-b528-11e8-93d9-7d2c3a4ed3cb Version: $LATEST
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18:39:45	REPORT RequestId: e31bf67b-b528-11e8-93d9-7d2c3a4ed3cb Duration: 0.48 ms Billed Duration: 100 ms Memory Size: 128 MB Max Memory Used: 18 MB
	No newer events found at the moment. Retry.

Feedback English (US)

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CloudWatch Managemi

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logEventViewer:group=/aws/lambda/lex-deployment;stream=2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348;start=2018-09-09T18:39:45Z

aws Services Resource Groups N. Virginia Support

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CloudWatch > Log Groups > /aws/lambda/lex-deployment > 2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348

Expand all Row Text

Filter events all 2018-09-09 (18:39:45)

Time (UTC +00:00)	Message
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Feedback English (US)

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CloudWatch Managemo

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logEventViewer:group=/aws/lambda/lex-deployment;stream=2018/09/10/[$LATEST]e181e14547dc43a5949a19ac42595348;start=2018-09-09T18:39:45Z

aws | Services | Resource Groups | N. Virginia | Support

History

- CloudWatch
- Lambda
- Elasticsearch Service
- Console Home
- Mobile Hub
- Amazon Lex

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Group | A-Z

Compute
- EC2
- Lightsail
- Elastic Container Service
- EKS
- Lambda
- Batch
- Elastic Beanstalk

Storage
- S3
- EFS
- Glacier
- Storage Gateway

Database
- RDS
- DynamoDB
- ElastiCache
- Neptune
- Amazon Redshift

Migration
- AWS Migration Hub
- Application Discovery Service
- Database Migration Service
- Server Migration Service
- Snowball

Developer Tools
- CodeStar
- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline
- Cloud9
- X-Ray

Management Tools
- CloudWatch
- AWS Auto Scaling
- CloudFormation
- CloudTrail
- Config
- OpsWorks
- Service Catalog
- Systems Manager
- Trusted Advisor
- Managed Services

Media Services
- Elastic Transcoder
- Kinesis Video Streams
- MediaConvert
- MediaLive
- MediaPackage
- MediaStore
- MediaTailor

Analytics
- Athena
- EMR
- CloudSearch
- Elasticsearch Service
- Kinesis
- QuickSight
- Data Pipeline
- AWS Glue

Security, Identity & Compliance
- IAM
- Cognito
- Secrets Manager
- GuardDuty
- Inspector
- Amazon Macie
- AWS Single Sign-On
- Certificate Manager
- CloudHSM
- Directory Service
- WAF & Shield
- Artifact

Mobile Services
- Mobile Hub
- AWS AppSync
- Device Farm
- Mobile Analytics

Customer Engagement
- Amazon Connect
- Pinpoint
- Simple Email Service

Business Productivity
- Alexa for Business
- Amazon Chime
- WorkDocs
- Worklist

Desktop & App Streaming
- WorkSpaces
- AppStream 2.0

Internet Of Things
- IoT Core
- IoT 1-Click
- IoT Device Management
- IoT Analytics
- Greengrass
- Amazon FreeRTOS
- IoT Device Defender

Game Development
- Amazon GameLift

Close

Expand all | Row | Text

all | 2018-09-09 (18:39:45)

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CloudWatch Managem

Secure | https://console.aws.amazon.com/cloudwatch/home?region=us-east-1#logEvent:viewer:group=/aws/lambda/lex-deployment;stream=2018/09/10/$LATEST/a181e14547da43a5949e19ac425f5348;start=2018-09-09T18:29:45Z

aws Services Resource Groups N. Virginia Support

History

- CloudWatch
- Lambda
- Elasticsearch Service
- Console Home
- Mobile Hub
- Amazon Lex

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Group A-Z

EFS
Glacier
Storage Gateway

Database
RDS
DynamoDB
ElastiCache
Neptune
Amazon Redshift

Migration
AWS Migration Hub
Application Discovery Service
Database Migration Service
Server Migration Service
Snowball

Networking & Content Delivery
VPC
CloudFront
Route 53
API Gateway
Direct Connect

AWS Auto Scaling
CloudFormation
CloudTrail
Config
OpsWorks
Service Catalog
Systems Manager
Trusted Advisor
Managed Services

Media Services
Elastic Transcoder
Kinesis Video Streams
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor

Machine Learning
Amazon SageMaker
Amazon Comprehend
AWS DeepLens
Amazon Lex
Machine Learning
Amazon Polly
Rekognition
Amazon Transcribe
Amazon Translate

IAM
Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
CloudHSM
Directory Service
WAF & Shield
Artifact

Mobile Services
Mobile Hub
AWS AppSync
Device Farm
Mobile Analytics

AR & VR
Amazon Sumerian

Application Integration
Step Functions
Amazon MQ
Simple Notification Service
Simple Queue Service
SWF

Desktop & App Streaming
WorkSpaces
AppStream 2.0

Internet Of Things
IoT Core
IoT 1-Click
IoT Device Management
IoT Analytics
Greengrass
Amazon FreeRTOS
IoT Device Defender

Game Development
Amazon GameLift

Close

Expand all Row Text

all 2018-09-09 (18:29:45)

Feedback English (US)

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Amazon Lex

Secure | https://console.aws.amazon.com/lex/home?region=us-east-1

aws Services Resource Groups N. Virginia Support

Amazon Lex

- Bots
- Intents
- Slot types

Bots

Create Actions

Filter: Filter by Bot name

Name	Status	Last updated	Date Created
myBot	READY	September 10, 2018 at 11:48:35 AM UTC-7	September 10, 2018 at 11:48:03 AM UTC-7

Feedback English (US)

Amazon Lex

Secure | https://console.aws.amazon.com/lex/home?region=us-east-1

aws Services Resource Groups N. Virginia Support

Amazon Lex

- Bots
- Intents
- Slot types

Bots

Create Actions

Filter: Filter by Bot name

Name	Status	Last updated	Date Created
mdbot	READY	September 10, 2018 at 11:48:35 AM UTC-7	September 10, 2018 at 11:48:03 AM UTC-7

Feedback English (US)

Amazon Lex

Secure | https://console.aws.amazon.com/lex/home?region=us-east-1#bot-editor:bot=myBot

aws Services Resource Groups N. Virginia Support

myBot Latest

Build Publish

Editor Settings Channels Monitoring

Intents

GetProductFlavor
Help
OrderProduct
ProductCatalog
ProductIngredients
VerifyProduct

Slot types

ProductType

Error Handling

GetProductFlavor

Sample utterances

Built-in intents provide an extensive set of pre-built utterances. These utterances cannot be viewed or edited.

e.g. I would like to book a flight

Lambda initialization and validation

Slots

Priority	Required	Name	Slot type	Version	Prompt
		e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?

Confirmation prompt

Fulfillment

AWS Lambda function Return parameters to client

Response

Save Intent Detach intent

Test Chatbot

Feedback English (US)

Amazon Lex

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Which {productType} flavors do you have

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Confirmation prompt

Fulfillment

AWS Lambda function Return parameters to client

Lambda function lex-backend

View in Lambda console

Add permission to Lambda Function

You are about to give Amazon Lex permission to invoke your Lambda Function.

Cancel OK

Feedback English (US)

Amazon Lex

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AWS Lambda function | Return parameters to client

Lambda function: lex-backend

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Lambda function: lex-backend

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Confirmation prompt

Fulfillment

AWS Lambda function Return parameters to client

Lambda function lex-backend

View in Lambda console

Test bot (Latest) Ready. Build complete.

You're now ready for testing. Type an utterance below to begin conversation with your chatbot.

Clear chat history

Chat with your bot...

Inspect response

Hide

When you chat with your bot, you can see the fulfillment state of your intent and the response here.

Feedback English (US)

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Build Publish

Test bot (Latest)

Ready. Build

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do you have

and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
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ML Regression

ML Regression Demo

ML Math

When you chat with your bot, you can see th
fulfillment state of your intent and the response

You're now ready t
to begin co

Which products

Inspect respons

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	Slot type	Version	Prompt
n	e.g. AMAZON.US_CITY		e.g. What city?
pe	ProductType	1	For which product would you li

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e.g. AMAZON.US_CITY

e.g. What city?

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Slot type

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Slot type Version Prompt

Slot type

Version

Prompt

e.g. AMAZON.US_CITY

e.g. What city?

Test bot (Latest)

Do you have raspberry frozen yo

We do not have raspberry
please select one of the
yogurt flavors. cinnamon
blueberry, orange, chocol

Do you have banana ice cream?

Yes we do have banana i
you like to order some?

Clear chat histo

Chat with your bot...

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	Slot type	Version	Prompt
Location	e.g. AMAZON.US_CITY		e.g. What city?
ductType	ProductType	1	For which product would you li

Inspect response

Dialog State: ConfirmIntent

Summary Detail

Intent: VerifyProduct

Slots (2/2)

productFlavor banan

productType ice cre

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Type} flavors

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n and validation

Name	Slot type	Version	Prompt
e.g. Location	e.g. AMAZON.US_CITY		e.g. What city?
productType	ProductType	1	For which product would you li

ot

Test bot (Latest)

Ready. Build complete

Do you have raspberry frozen yogurt?

We do not have raspberry frozen yogurt, please select one of the following frozen yogurt flavors. cinnamon, black cherry, blueberry, orange, chocolate and mango

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Dialog State: ConfirmIntent

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Summary Detail

Intent: VerifyProduct

Slots	(2/2)
productFlavor	banana
productType	ice cream

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Dialog State: ConfirmIntent Hide

Summary Detail

Intent: VerifyProduct

Slots	(2/2)
productFlavor	banana
productType	ice cream

Feedback English (US)

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Slots	(2/2)
productFlavor	banana
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Feedback English (US)

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Summary Detail

Intent: VerifyProduct

Slots	(2/2)
productFlavor	banana
productType	ice cream

Feedback English (US)

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Dialog State: ConfirmIntent Hide

Summary Detail

Intent: VerifyProduct

Slots (2/2)

productFlavor: banana

productType: ice cream

Feedback English (US)

Amazon Lex

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History

- Amazon Lex
- CloudWatch
- Lambda
- Elasticsearch Service
- Console Home
- Mobile Hub

Find a service by name or feature (for example, EC2, S3 or VM, storage). Group A-Z

Compute
EC2
Lightsail
Elastic Container Service
EKS
Lambda
Batch
Elastic Beanstalk

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S3
EFS
Glacier
Storage Gateway

Database
RDS
DynamoDB
ElastiCache
Neptune
Amazon Redshift

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Database Migration Service
Server Migration Service
Snowball

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CodeDeploy
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Trusted Advisor
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Kinesis Video Streams
MediaConvert
MediaLive
MediaPackage
MediaStore
MediaTailor

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Athena
EMR
CloudSearch
Elasticsearch Service
Kinesis
QuickSight
Data Pipeline
AWS Glue

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Cognito
Secrets Manager
GuardDuty
Inspector
Amazon Macie
AWS Single Sign-On
Certificate Manager
CloudHSM
Directory Service
WAF & Shield
Artifact

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Mobile Hub
AWS AppSync
Device Farm
Mobile Analytics

Customer Engagement
Amazon Connect
Pinpoint
Simple Email Service

Business Productivity
Alexa for Business
Amazon Chime
WorkDocs
WorkMail

Desktop & App Streaming
WorkSpaces
AppStream 2.0

Internet Of Things
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IoT 1-Click
IoT Device Management
IoT Analytics
Greengrass
Amazon FreeRTOS
IoT Device Defender

Game Development
Amazon GameLift

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Test bot (Latest) Ready. Build complete.

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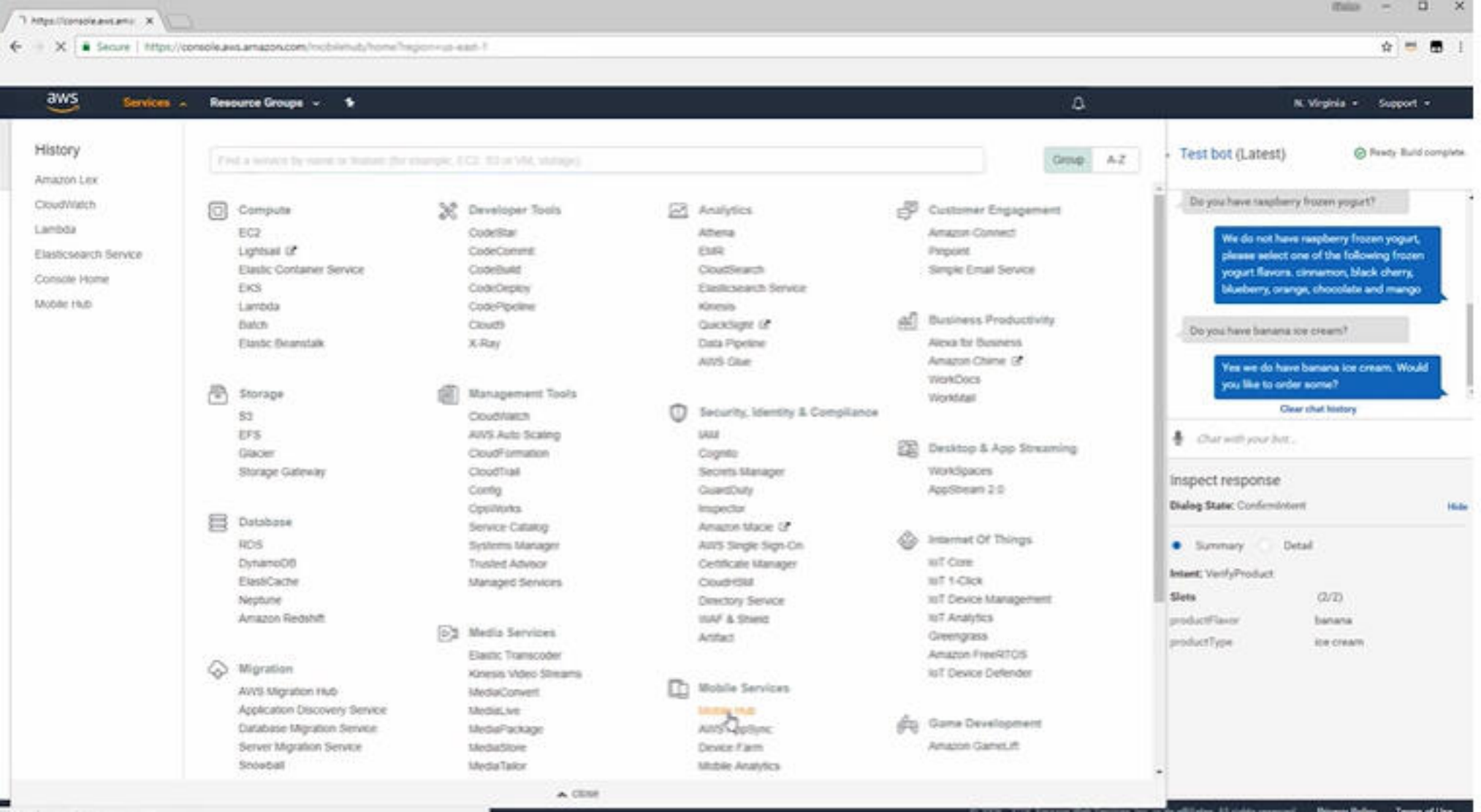
Intent: VerifyProduct

Slots	(2/2)
productFlavor	banana
productType	ice cream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Alexa for Business
Amazon Chime
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GuardDuty
Inspector
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Neptune
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Media Services
Elastic Transcoder
Kinesis Video Streams
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MediaPackage
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IoT Core
IoT 1-Click
IoT Device Management
IoT Analytics
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Server Migration Service
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productFlavor
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AWS Mobile Hub

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AWS Mobile Hub

Tools that enable you to quickly configure AWS services and integrate them into your mobile app

Documentation Support

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Create Import

+ Create Project

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No app? Kick the tires with one of our cloud enabled starter kits. Or follow a step-by-step tutorial to cloud enable a sample app yourself.

Pet Tracker
Starter Kit

Use React Native to build an iOS and Android app where users can upload pictures of their pet.

Restaurant Ordering
Starter Kit

Use React.js to build an app where users can view different restaurant menus, select items and place orders.

Notes App
Tutorial

A Notes App for Android demonstrating analytics, user sign-in and storing notes in the cloud.

Notes App
Tutorial

A Notes App for iOS demonstrating analytics, user sign-in and storing notes in the cloud.

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Use React.js to build an app where users can view different restaurant menus, select items and place orders.

Notes App
Tutorial

A Notes App for Android demonstrating analytics, user sign-in and storing notes in the cloud.

Notes App
Tutorial

A Notes App for iOS demonstrating analytics, user sign-in and storing notes in the cloud.

Feedback English (US)

AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/create/card/

aws Mobile Hub awsstudent Support

Cloud enable your app

1. Create a project
2. Select app platform
3. Set up your backend
4. Connect to your backend

Create a project for free

A project is a single place for you to manage your app's cloud resources.

myBo

Whenever possible project resources will be created in **US East (Virginia)** region.* Edit

Cancel Next

* If your selected region is unavailable, your resources will be created in another country/region as set forth here.

Feedback English (US)

AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/create/card/

aws Mobile Hub awsstudent Support

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Feedback English (US)

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1. Create a project
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4. Connect to your backend

Select app platform

Add AWS cloud services to your app. Select a platform:

iOS Android Web React Native

Cancel Add

AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45ee0a-14ed-4f0f-b474-31a58a8ee0f/build

aws Mobile Hub > myBot

awsstudent Support

myBot

Analytics | Resources

Apps

A list of apps you can cloud enable with the AWS features you have configured in your backend.

Add new app

Add App

Backend

A list of backend features you have enabled in your project.

Messaging and Analytics

Engage users with mobile push, emails, or SMS messages and analyze app usage.

Powered by Amazon Pinpoint

Feedback English (US)

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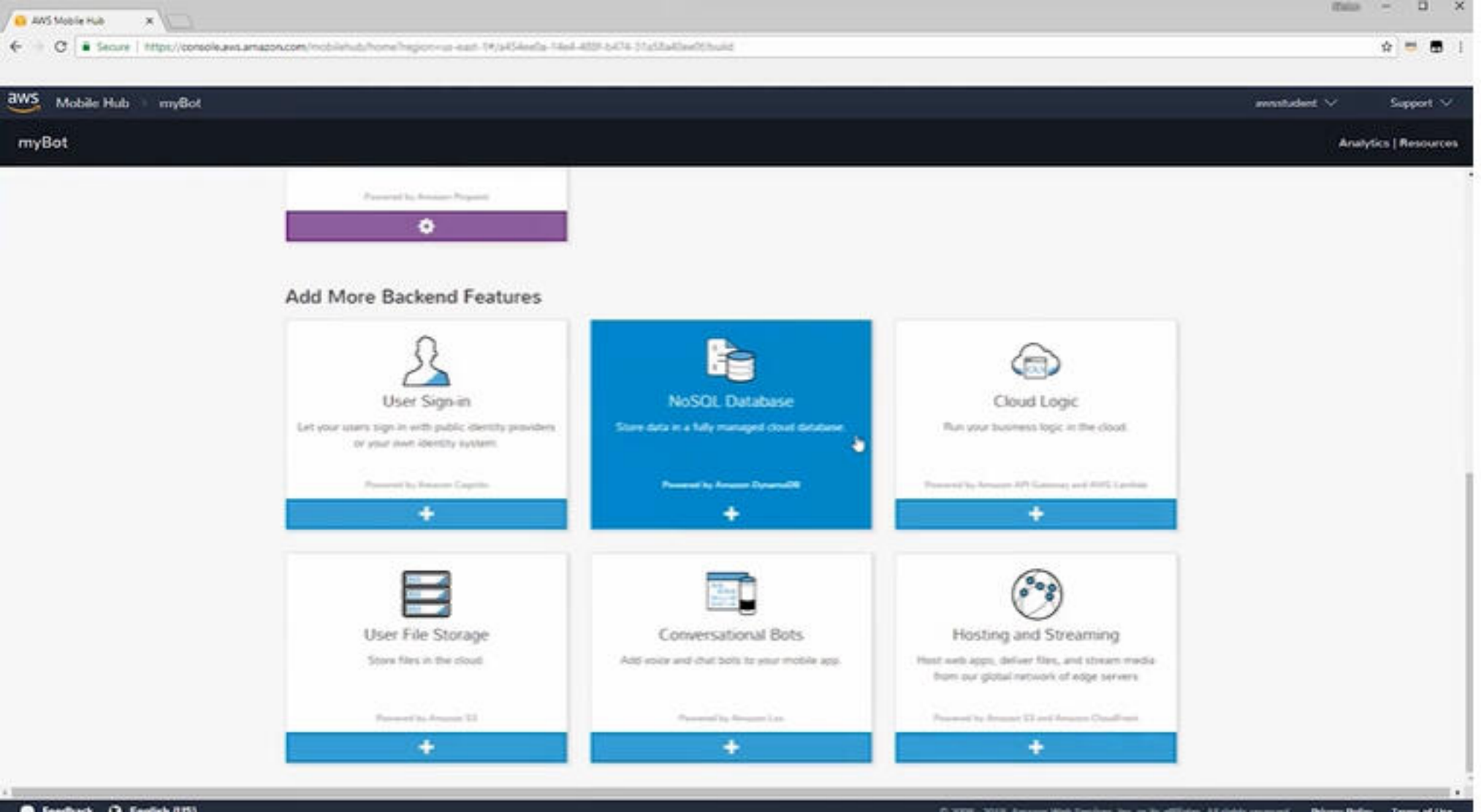
AWS Mobile Hub
Secure
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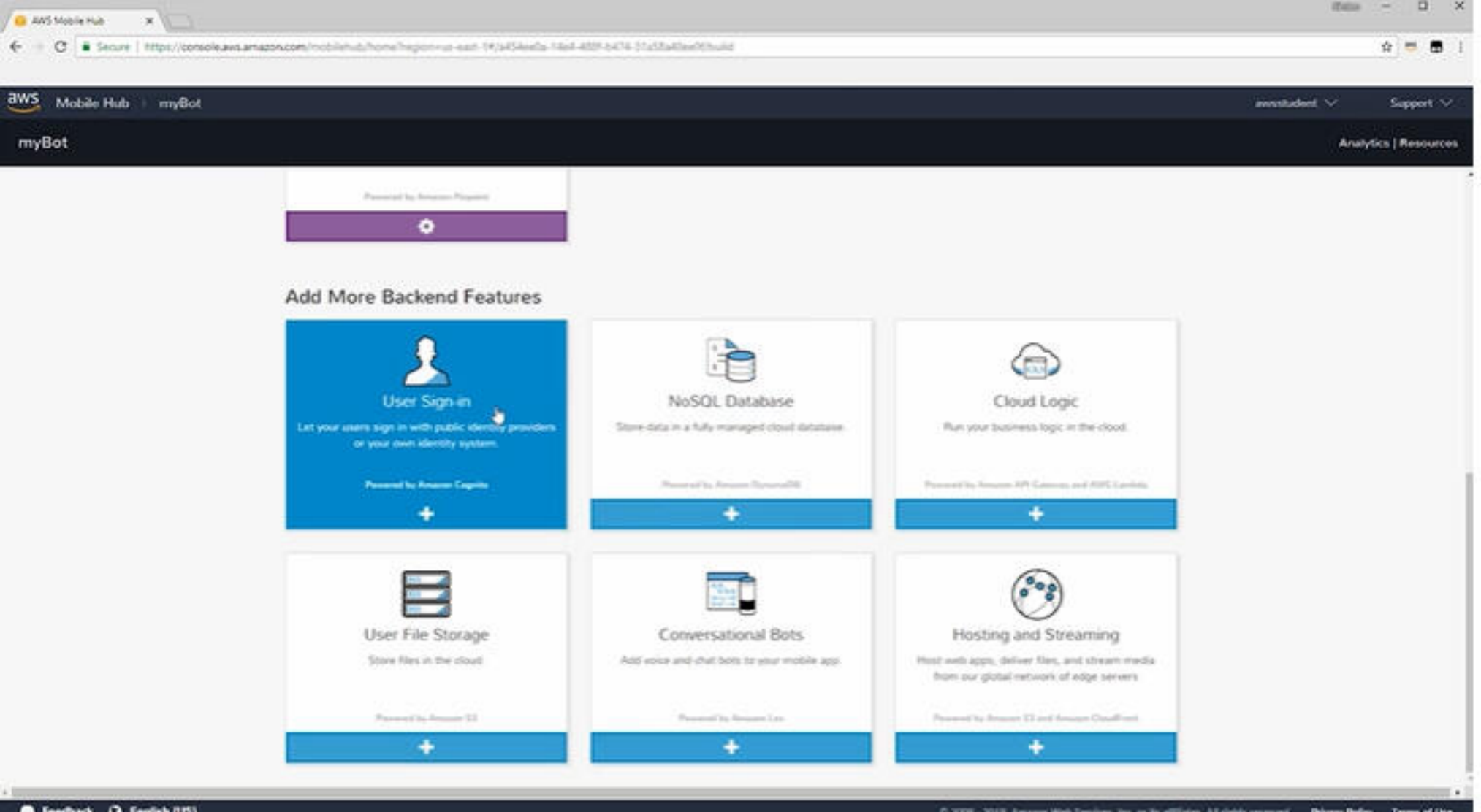
Mobile Hub
myBot
awsstudent
Support
myBot
Analytics | Resources
Add More Backend Features
User Sign-in
Let your users sign in with public identity providers or your own identity system.
NoSQL Database
Store data in a fully managed cloud database.
Cloud Logic
Run your business logic in the cloud.
User File Storage
Store files in the cloud.
Conversational Bots
Add voice and chat bots to your mobile app.
Hosting and Streaming
Host web apps, deliver files, and stream media from our global network of edge servers.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Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45ee0a-14ed-4f0f-b474-31a58a40ee06/build/signin

aws Mobile Hub > myBot > User Sign-in

awsstudent | Support

myBot

Analytics | Resources

Email

Username

Phone

Email address or phone number: (Users can sign-in/up with an email or phone # as their "username")

Email

Phone

Multi-factor authentication

Disabled

Optional

Required

Password minimum length

8

Password character requirements

Uppercase letters

Lowercase letters

Numbers

Special characters

Which standard attributes are required? - optional

Require user sign-in?

Select whether or not you would like to allow users who have not signed in to access AWS resources. You can change this setting at any time.

NO - Users are not required to signin to access AWS resources

Cancel | Create user pool

Feedback | English (US)

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AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45dee0a-14ed-4f0f-b474-31a58a40ee06/build/signin

aws Mobile Hub > myBot > User Sign-in awsstudent Support

myBot Analytics | Resources

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YES - Users must sign-in to access AWS resources

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Feedback English (US)

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Email
Phone

Multi-factor authentication

Disabled
Optional
Required

Password minimum length

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Uppercase letters
Lowercase letters
Numbers
Special characters

▶ **Which standard attributes are required?** - *optional*

Require user sign-in?

Select whether or not you would like to allow users who have not signed in to access AWS resources. You can change this setting at any time.

YES - Users must sign in to access AWS resources.

Cancel | Creating user pool...

Feedback | English (US)

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aws Mobile Hub > myBot > User Sign-in

awsstudent | Support

myBot

Analytics | Resources

Your backend has been updated. Choose this banner to return to the project details page, then choose **Add new app** to create an app and begin integrating.

User sign-in

Add user sign-up, sign-in, and access control to your apps quickly with Amazon Cognito

✔ "Email and Password" has been updated. You can enable additional providers.

Add sign-in Providers

Email and Password | Facebook Login | Google Sign-In | SAML Federation

Settings

Action

How do you want your end users to sign in?

Username: (Users can sign-in/up with a username and optionally multiple alternatives)

Multi-factor authentication

Disabled

Password minimum length: 8

Password character requirements

Uppercase letters

Lowercase letters

Numbers

▸ Which standard attributes are required? - optional

AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45ae0a-14ed-4f0f-b474-31a58a8ee06/build/signin

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aws Mobile Hub > myBot

awsstudent Support

myBot

Analytics | Resources

Your backend has been updated. You can still add more features or add an app to your project to begin integrating with your backend features.

Apps

A list of apps you can cloud enable with the AWS features you have configured in your backend.

Add new app

Add App

Backend

A list of backend features you have enabled in your project.

Messaging and Analytics

User Sign-in

Feedback English (US)

AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45dee0a-14ed-4f09-b474-31a58a40ee06/build

aws Mobile Hub > myBot awsstudent Support

myBot Analytics | Resources

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aws Mobile Hub > myBot awsstudent Support

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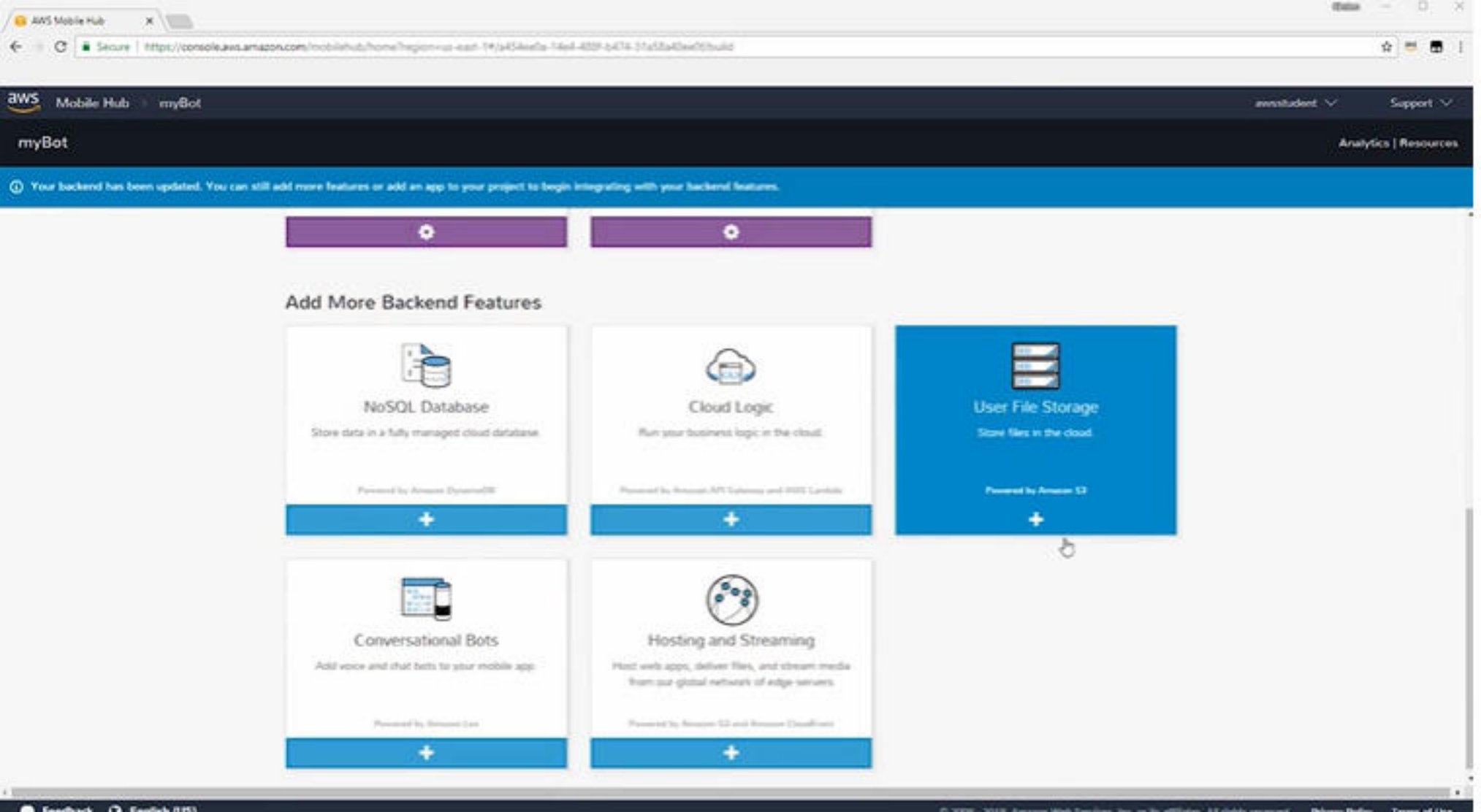
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Secure
aws Mobile Hub
myBot
awsstudent
Support
myBot
Analytics | Resources
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Add More Backend Features
NoSQL Database
Store data in a fully managed cloud database.
Cloud Logic
Run your business logic in the cloud.
User File Storage
Store files in the cloud.
Powered by Amazon S3
Conversational Bots
Add voice and chat bots to your mobile app.
Hosting and Streaming
Host web apps, deliver files, and stream media from our global network of edge servers.

AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45ee0a-14ed-4f0f-b474-31a58a40ee06/build

aws Mobile Hub > myBot

awsstudent | Support

myBot

Analytics | Resources

Your backend has been updated. You can still add more features or add an app to your project to begin integrating with your backend features.

Add More Backend Features

NoSQL Database

Store data in a fully managed cloud database.

Powered by Amazon DynamoDB

Cloud Logic

Run your business logic in the cloud.

Powered by Amazon API Gateway and AWS Lambda

User File Storage

Store files in the cloud.

Powered by Amazon S3

Conversational Bots

Add voice and chat bots to your mobile app.

Powered by Amazon Lex

Hosting and Streaming

Host web apps, deliver files, and stream media from our global network of edge servers.

Powered by Amazon S3 and Amazon CloudFront

Feedback | English (US)

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AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45ee0a-14e4-4f0f-b474-31a58a40ee06/build/bots

aws Mobile Hub > myBot > Conversational Bots awsstudent Support

myBot Analytics | Resources

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Conversational Bots

Powered by Amazon Lex

Get started with a bot, and integrate it into your mobile app.

Amazon Lex is a service for building conversational interfaces into any applications using voice or text. With Lex, you get the same deep learning engine that powers Amazon Alexa, enabling you to build sophisticated, natural language chatbots into your new and existing mobile apps. You supply just a few example phrases and Lex builds a complete natural language model through which bot can interact using voice and text, to ask questions, get answers, and complete sophisticated tasks. Learn more...

TRY A SAMPLE

Book a trip

Order flowers

Make appointment

CUSTOM

Import a bot

Feedback English (US)

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AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45dee0a-14ed-4f09-b474-31a58a48ee06/build/bots

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Import a bot

Import a bot

You can easily integrate existing bots created on Amazon Lex with your Android and iOS apps using this feature.

Choose which Amazon Lex bot you want to import, or create a new bot in Amazon Lex

Bots

Loading...

Cancel | Import

Feedback | English (US)

AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45dea0a-14ad-4f0f-b474-31a58a8ee06b/build/bots

aws Mobile Hub > myBot > Conversational Bots awsstudent Support

myBot Analytics | Resources

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Book a trip | Order flowers | Make appointment | Import a bot

Import a bot

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Simply choose which bot you would like to import from the adjoining list. Mobile Hub then simplifies integrating your bot with your mobile app including setting up security policies in Amazon Identity and Access management, and generating boiler plate UX code for voice and chat interactions with your bot.

After you have imported a bot, click on the integrate tab in the left hand menu.

Learn More:
Amazon Lex Developer Guide
Mobile Hub developer guide for Amazon Lex

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Bots
myBot

Cancel | Import

Feedback | English (US)

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awsstudent | Support

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Bot	Description	
myBot		Edit ✖

Create a new bot

Feedback English (US)

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User Sign-in

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AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45dee0a-14ed-4f0f-b474-31a58a40ee06/build

aws Mobile Hub > myBot awsstudent Support

myBot Analytics | Resources

Your backend has been updated. You can still add more features or add an app to your project to begin integrating with your backend features.

Apps

A list of apps you can cloud enable with the AWS features you have configured in your backend.

Add new app

Add App

Backend

A list of backend features you have enabled in your project.

Messaging and Analytics

User Sign-in

Conversational Bots

AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45dee0a-14ed-4859-b474-51a58a48ee06/build

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Add More Backend Features

NoSQL Database

Store data in a fully managed cloud database

Powered by Amazon DynamoDB

Cloud Logic

Run your business logic in the cloud

Powered by Amazon API Gateway and AWS Lambda

User File Storage

Store files in the cloud

Powered by Amazon S3

Hosting and Streaming

Host web apps, deliver files, and stream media from our global network of edge servers

Powered by Amazon S3 and Amazon CloudFront

Feedback English (US)

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AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45dee0a-14ed-4f0f-b474-31a58a40ee00/build/cdn

aws Mobile Hub > myBot > Hosting and Streaming

awsstudent | Support

myBot

Analytics | Resources

Your backend has been updated. Choose this banner to return to the project details page, then choose **Add new app** to create an app and begin integrating.

Hosting And Streaming

Powered by Amazon S3 and Amazon CloudFront

Host your files or web app through a global CDN that serves content and streams media from the location nearest to the user.

Global CDN

Your files are hosted in **Amazon S3** in the US East (Virginia) region, and distributed by **Amazon CloudFront**, our global network of edge cache servers.

Media files, such as audio or video files, will automatically be streamed to compatible clients. **Learn more about streaming**

When you enable Hosting and Streaming, AWS Mobile Hub creates resources to store and distribute your static web assets. A sample web app will be created based on your project configuration. You can easily view, update or replace the assets after the resources have been created.

☐ **I agree that files placed in Hosting & Streaming are publicly readable on the Internet. Learn more about security considerations for Mobile Hub users of Amazon S3 and Amazon CloudFront.**

Enable

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AWS Mobile Hub

Secure | https://console.aws.amazon.com/mobilehub/home?region=us-east-1#/a45dee0a-14ed-4f0f-b474-31a58a40ee00/build/cdn

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Launch my web app

View from S3

Use this when developing. Content is updated immediately. No Caching or HTTPS support.

Amazon S3 URL (Testing Only)

http://mybot-hosting-mobilehub-1911393665.s3-website-us-east-1.amazonaws.com

View from CloudFront

Distribute your app to your users. Content will be available within 1 hour.

Amazon CloudFront

https://d12nb4t8bgk29.cloudfront.net/

Manage files and hosting

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AWS Mobile Hub

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AWS Management Cons... | Hosting and Streaming

Secure | https://console.aws.amazon.com/console/home?region=us-east-1

aws | Services | Resource Groups | N. Virginia | Support

AWS services

Find a service by name or feature (for example, EC2, S3 or VM, storage)

Recently visited services

- Mobile Hub
- Amazon Lex
- CloudWatch
- Lambda
- Elasticsearch Service

All services

Build a solution

Get started with simple wizards and automated workflows.

- Launch a virtual machine — With EC2 — ~2-3 minutes
- Build a web app — With Elastic Beanstalk — ~6 minutes
- Build using virtual servers — With Lightsail — ~1-2 minutes
- Connect an IoT device — With AWS IoT — ~5 minutes
- Start a development project — With CodeStar — ~5 minutes
- Register a domain — With Route 53 — ~3 minutes

See more

Learn to build

See all

Learn to deploy your solutions through step-by-step guides, labs, and videos.

Websites	DevOps	Backup and recovery
2 videos, 3 tutorials, 2 labs	6 videos, 2 tutorials, 3 labs	3 videos, 2 tutorials, 2 labs

Helpful tips

Manage your costs

Monitor your AWS costs, usage, and reservations using AWS Budgets. Start now

Create an organization

Use AWS Organizations for policy-based management of multiple AWS accounts. Start now

Explore AWS

Machine Learning with Amazon SageMaker

The fastest way to build, train, and deploy machine learning models. Learn more.

Amazon Relational Database Service (RDS)

RDS manages and scales your database for you. RDS supports Aurora, MySQL, PostgreSQL, MariaDB, Oracle, and SQL Server. Learn more.

AWS Fargate Runs Containers for You

AWS Fargate works with Amazon ECS to run and scale your containers for you. Pay only for the compute resources you need, scale quickly, and run any size application. Learn more.

AWS Marketplace

Find, buy, and deploy popular software products that run on AWS. Learn more.

AWS Management Conc... | Hosting and Streaming

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History

- Console Home
- Mobile Hub
- Amazon Lex
- CloudWatch
- Lambda
- Elasticsearch Service

Find a service by name or feature (for example, EC2, S3 or VM, storage).

Group | A-Z

Compute
- EC2
- Lightsail
- Elastic Container Service
- EKS
- Lambda
- Batch
- Elastic Beanstalk

Storage
- S3
- EFS
- Glacier
- Storage Gateway

Database
- RDS
- DynamoDB
- ElastiCache
- Neptune
- Amazon Redshift

Migration
- AWS Migration Hub
- Application Discovery Service
- Database Migration Service
- Server Migration Service
- Snowball

Developer Tools
- CodeStar
- CodeCommit
- CodeBuild
- CodeDeploy
- CodePipeline
- Cloud9
- X-Ray

Management Tools
- CloudWatch
- AWS Auto Scaling
- CloudFormation
- CloudTrail
- Config
- OpsWorks
- Service Catalog
- Systems Manager
- Trusted Advisor
- Managed Services

Media Services
- Elastic Transcoder
- Kinesis Video Streams
- MediaConvert
- MediaLive
- MediaPackage
- MediaStore
- MediaTailor

Analytics
- Athena
- EMR
- CloudSearch
- Elasticsearch Service
- Kinesis
- QuickSight
- Data Pipeline
- AWS Glue

Security, Identity & Compliance
- IAM
- Cognito
- Secrets Manager
- GuardDuty
- Inspector
- Amazon Macie
- AWS Single Sign-On
- Certificate Manager
- CloudHSM
- Directory Service
- WAF & Shield
- Artifact

Mobile Services
- Mobile Hub
- AWS AppSync
- Device Farm
- Mobile Analytics

Customer Engagement
- Amazon Connect
- Pinpoint
- Simple Email Service

Business Productivity
- Alexa for Business
- Amazon Chime
- WorkDocs
- WorkMail

Desktop & App Streaming
- WorkSpaces
- AppStream 2.0

Internet Of Things
- IoT Core
- IoT 1-Click
- IoT Device Management
- IoT Analytics
- Greengrass
- Amazon FreeRTOS
- IoT Device Defender

Game Development
- Amazon GameLift

Close

Lambda Management C... | Hosting and Streaming

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions

aws | Services | Resource Groups | N. Virginia | Support

AWS Lambda

Dashboard

Functions

Lambda > Functions

Functions (7)

Actions | Create function

Filter by tags and attributes or search by keyword

1

Function name	Description	Runtime	Code size	Last Modified
s3-update		Python 2.7	8.8 MB	21 minutes ago
dynamodb-add-items		Python 2.7	1.5 kB	58 minutes ago
lex-backend		Python 2.7	8.8 MB	5 minutes ago
lex-deployment		Python 2.7	7.1 MB	7 minutes ago
S3-deploy-page		Python 2.7	1.6 kB	38 minutes ago
qls-121723-26cffd631d4fd3a-ScrubCustomResourceLambd-TUEFREKRLDCE		Python 2.7	5.5 kB	58 minutes ago
System_Provisioning		Python 2.7	9.6 MB	26 minutes ago

Feedback | English (US)

Lambda Management C... | Hosting and Streaming

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions

aws | Services | Resource Groups | N. Virginia | Support

AWS Lambda

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Lambda > Functions

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Function name	Description	Runtime	Code size	Last Modified
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dynamodb-add-items		Python 2.7	1.5 kB	58 minutes ago
lex-backend		Python 2.7	8.8 MB	5 minutes ago
lex-deployment		Python 2.7	7.1 MB	7 minutes ago
S3-deploy-page		Python 2.7	1.6 kB	38 minutes ago
qls-121723-26cffd631d4fd2a-ScrubCustomResourceLambd-TUEFREKRJCE		Python 2.7	5.5 kB	58 minutes ago
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Lambda Management (... | Hosting and Streaming

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lex-backend		Python 2.7	8.8 MB	5 minutes ago
lex-deployment		Python 2.7	7.1 MB	7 minutes ago
S3-deploy-page		Python 2.7	1.6 kB	38 minutes ago
qls-121723-26cffd631d46Ga-ScrubCustomResourceLambd-TUEFRKRLOCE		Python 2.7	5.5 kB	58 minutes ago
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lex-deployment		Python 2.7	7.1 MB	7 minutes ago
S3-deploy-page		Python 2.7	1.6 kB	38 minutes ago
qls-121723-26cffd631d46Ga-ScrubCustomResourceLambd-TUEFRKRLOCE		Python 2.7	5.5 kB	58 minutes ago
System_Provisioning		Python 2.7	9.6 MB	26 minutes ago

Feedback | English (US)

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AWS Lambda

Dashboard

Functions

Lambda > Functions

Functions (7)

Actions | Create function

Filter by tags and attributes or search by keyword

1

Function name	Description	Runtime	Code size	Last Modified
es-update		Python 2.7	8.8 MB	21 minutes ago
dynamodb-add-items		Python 2.7	1.5 kB	58 minutes ago
lex-backend		Python 2.7	8.8 MB	5 minutes ago
lex-deployment		Python 2.7	7.1 MB	7 minutes ago
S3-deploy-page		Python 2.7	1.6 kB	38 minutes ago
qls-121723-26cffd631d46Ga-ScrubCustomResourceLambd-TUEFWEK9L0CE		Python 2.7	5.5 kB	58 minutes ago
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Functions (7)

Filter by tags and attributes or search by keyword

Actions | Create function

View details

Test

Delete

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Feedback | English (US)

Configure test event

A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.

- Create new test event
- Edit saved test events

Event template

Hello World

Event name

```
{
  "key3": "value3",
  "key2": "value2",
  "key1": "value1"
}
```

Lambda Management C... | Hosting and Streaming

Secure | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/S3-deploy-page/edit?eventModal=open&tab=graph

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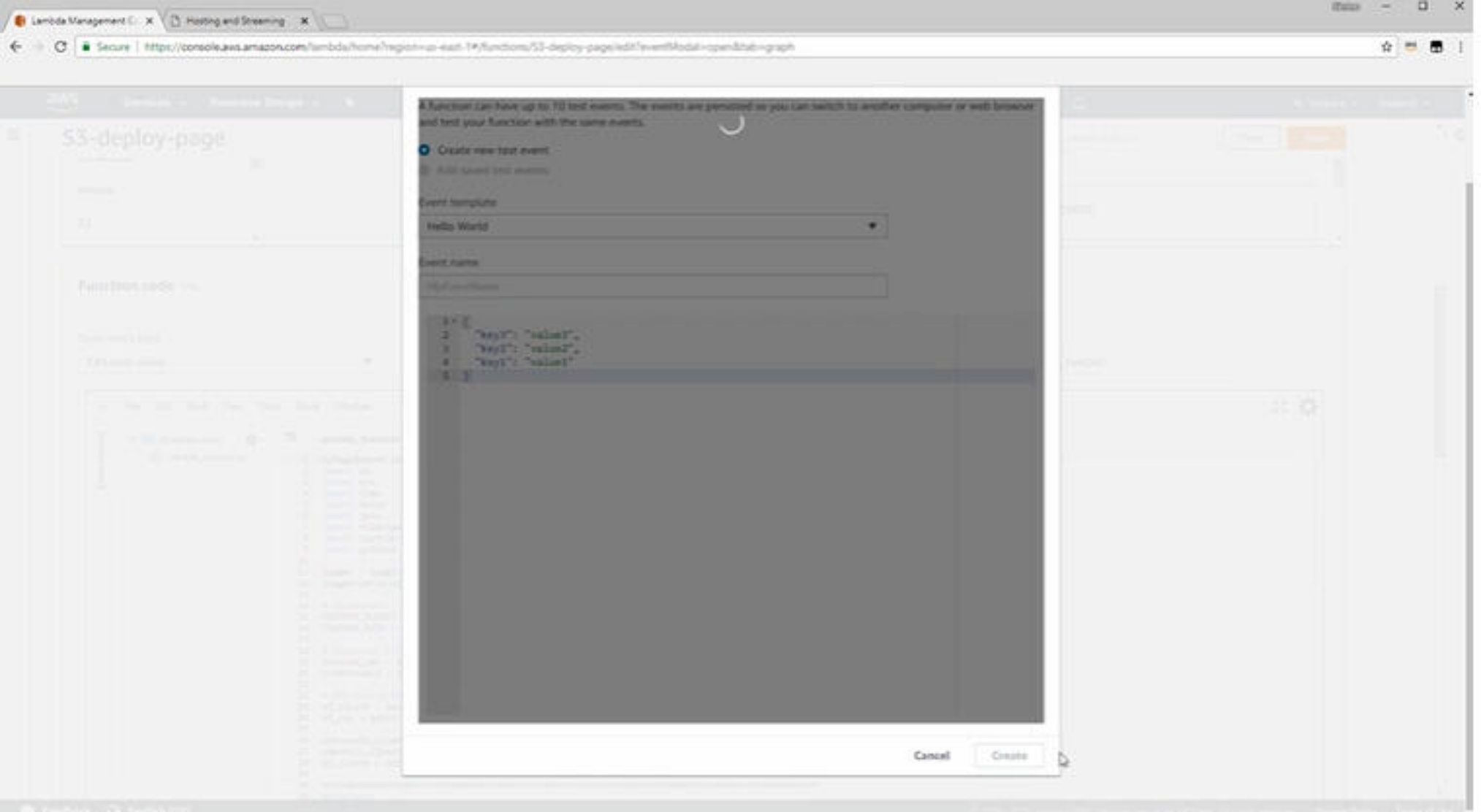
5 }
```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Cancel
Create

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S3-deploy-page

Throttle | Qualifiers | Actions | DeployPage | Test | Save

Kinesis

S3

Identity And Access Management

Function code

Code entry type: Edit code inline

Runtime: Python 2.7

Handler: lambda_function.lambda_handler

File Edit Find View Goto Tools Window

S3-deploy-page

lambda_function.py

lambda_function

```
myPageImport logging
import os
import sys
import time
import boto3
import json
import fileinput
import zipfile
import urllib2

logger = logging.getLogger()
logger.setLevel(logging.INFO)

# Parameters
CONTENT_BUCKET = os.getenv('CONTENT_BUCKET')
CONTENT_PATH = os.getenv('CONTENT_PATH')

# Initialize credentials
session_var = boto3.session.Session()
credentials = session_var.get_credentials()

# Initialize DynamoDB client
s3_client = boto3.client('s3')
s3_res = boto3.resource('s3')

userpools_client = boto3.client('cognito-idp')
identity_client = boto3.client('cognito-identity')
s3_client = boto3.client('s3')

==========
#Functions
```

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```

1:7 Python Spaces: 4

Execution Result

Execution results

Response:
"Static page has been deployed on to myBot-hosting-mobilehub-1912303603 (S3 bucket)"

Request ID:
"dd1cdc2c-052a-11e8-9082-f9548ee09656"

Function Logs:
START RequestId: dd1cdc2c-052a-11e8-9082-f9548ee09656 Version: $LATEST
[INFO] 2018-09-10T18:53:55.332Z dd1cdc2c-052a-11e8-9082-f9548ee09656 Starting new HTTPS connection (1): cognito-idp.us-east-1.amazonaws.com

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AWS Mobile Hub Sample Web App

myBot project is being hosted in the **us-east-1** region.

The temporary AWS ID of the current user is:

Unauthenticated access is not supported for this identity pool.

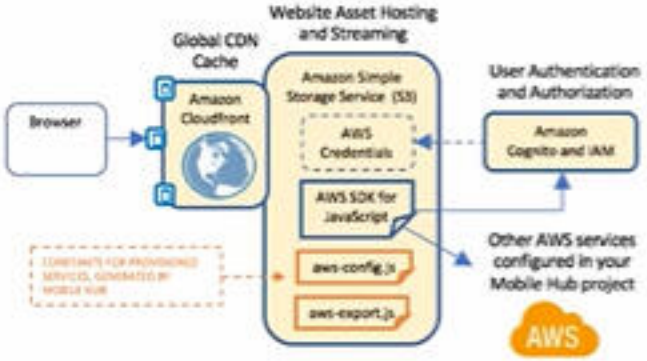
On this page

- JavaScript for AWS Web Apps
- Managing Your Web App Assets

This page is delivered by a sample web app created with the AWS Mobile Hub Hosting and Streaming feature.

Hosting and Streaming uses the Amazon Simple Storage Service (Amazon S3) ability to statically host web content. Your website is distributed through a global CDN using Amazon Cloudfront.

The configuration files generated for this Mobile Hub project can support JavaScript calls to AWS services from a hybrid web/native app. The project can also produce iOS and Android apps that uses the same assets as this web app. Learn more about the Hosting and Streaming feature.



JavaScript for AWS Web Apps

The AWS SDK for JavaScript allows your web app to use a range of powerful AWS services including, database, serverless logic, push notification and more.

Upon page load, the sample web app uses this SDK to establish a temporary unauthenticated AWS identity for the user by calling the Amazon Cognito service. Constants for the AWS services you configured in your Mobile Hub project are stored for use by your web app in the aws-config.js file in the root folder of this web app, and also aws-exports.js is generated to support the integration of your AWS Services using JavaScript ES6 export syntax.

Lambda Management C... | Hosting and Streaming

Lambda Management Console | obilehub-1913393665.s3-website-us-east-1.amazonaws.com

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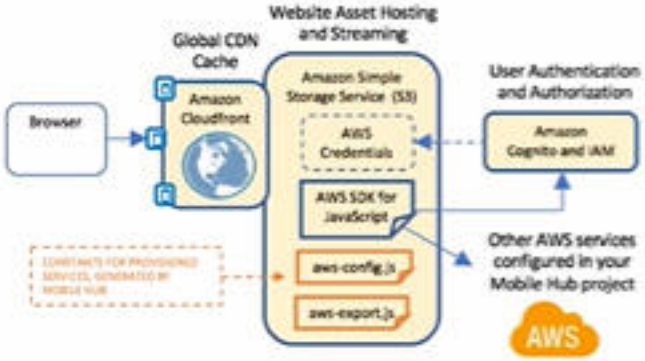

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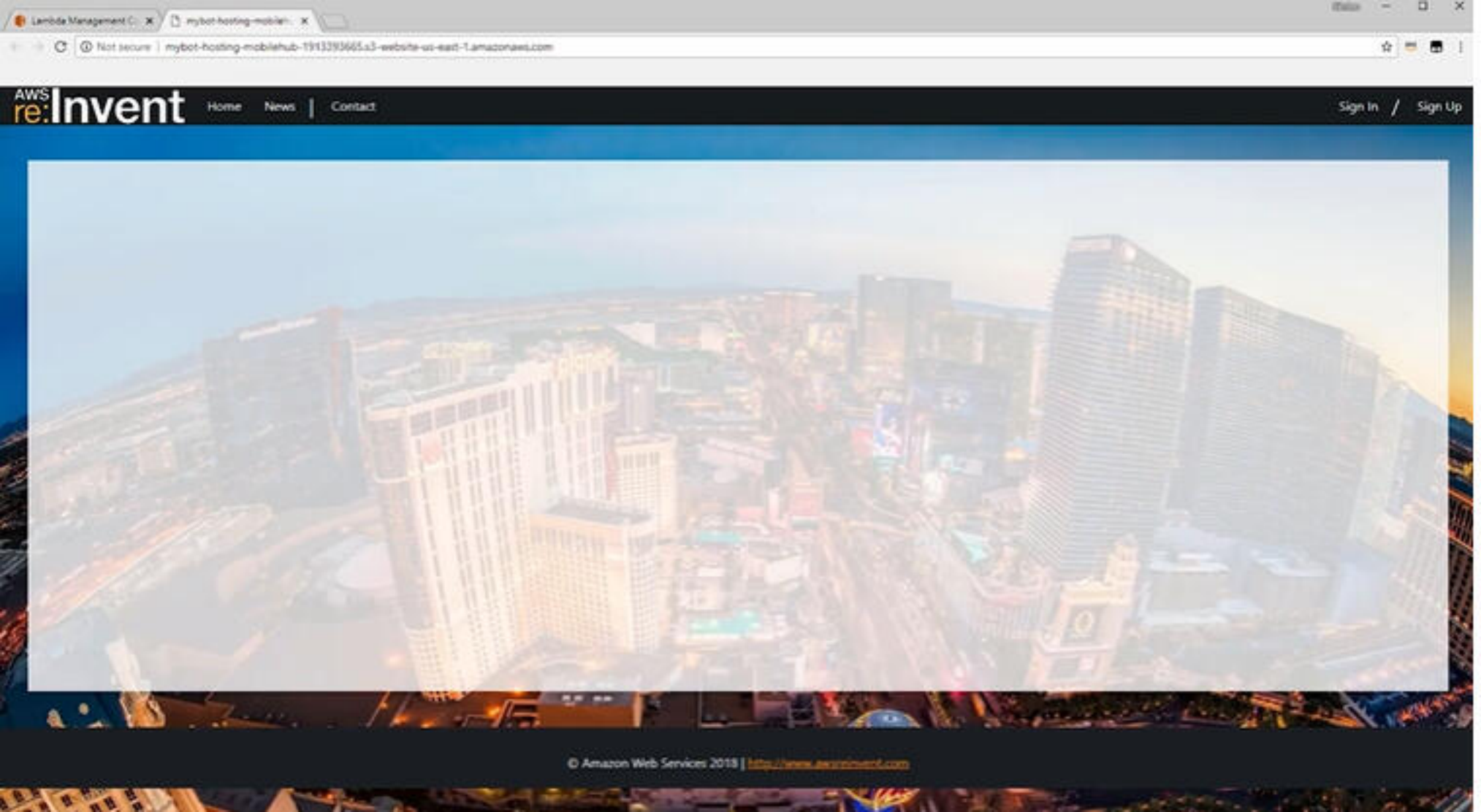
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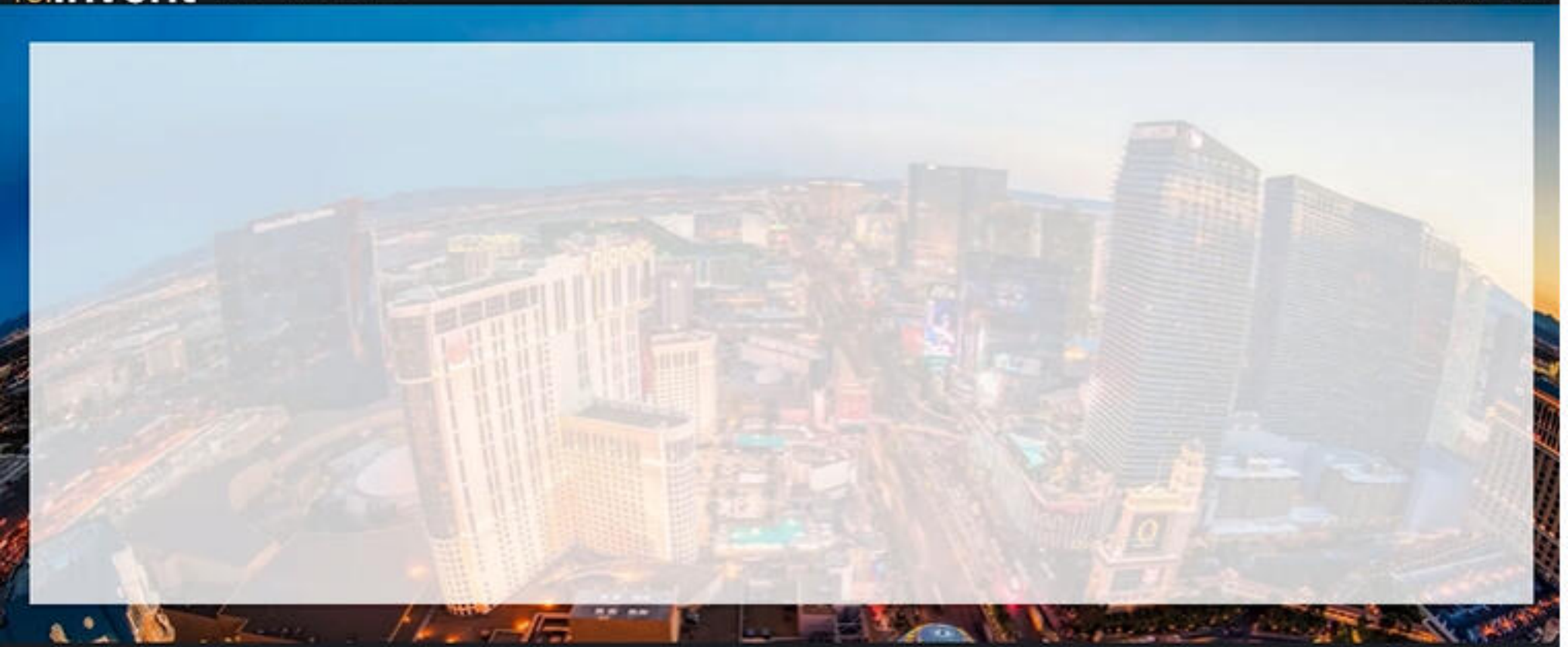

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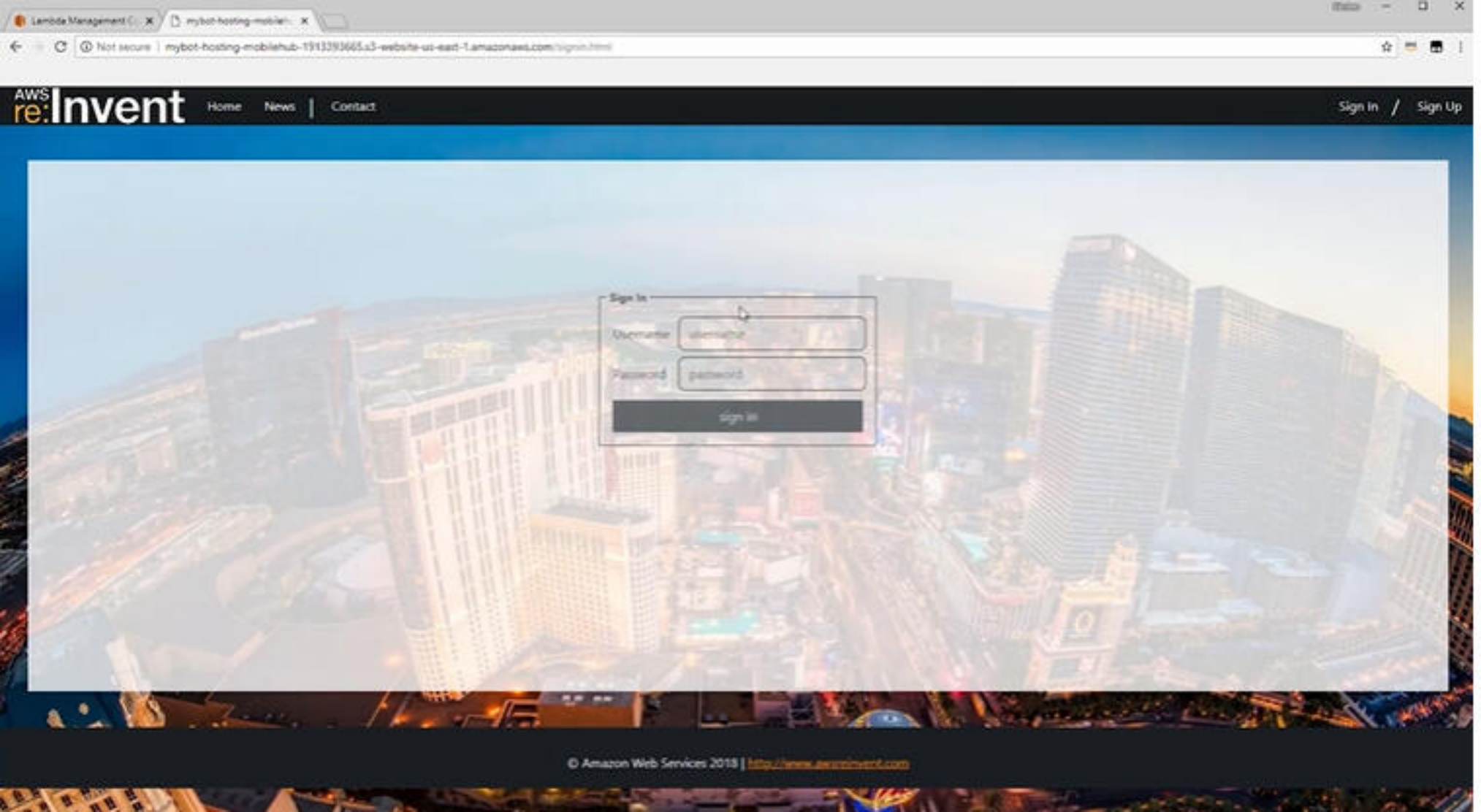
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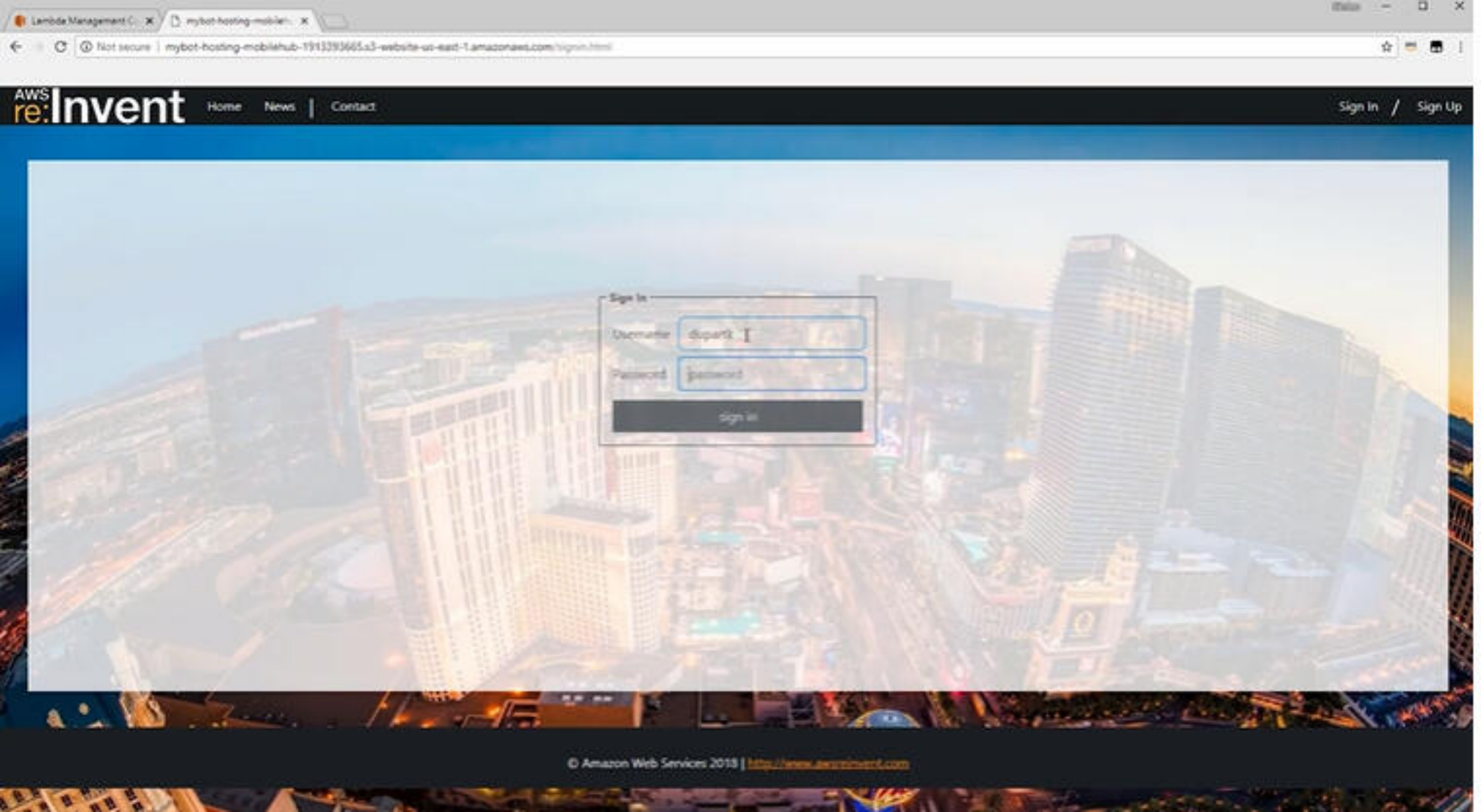
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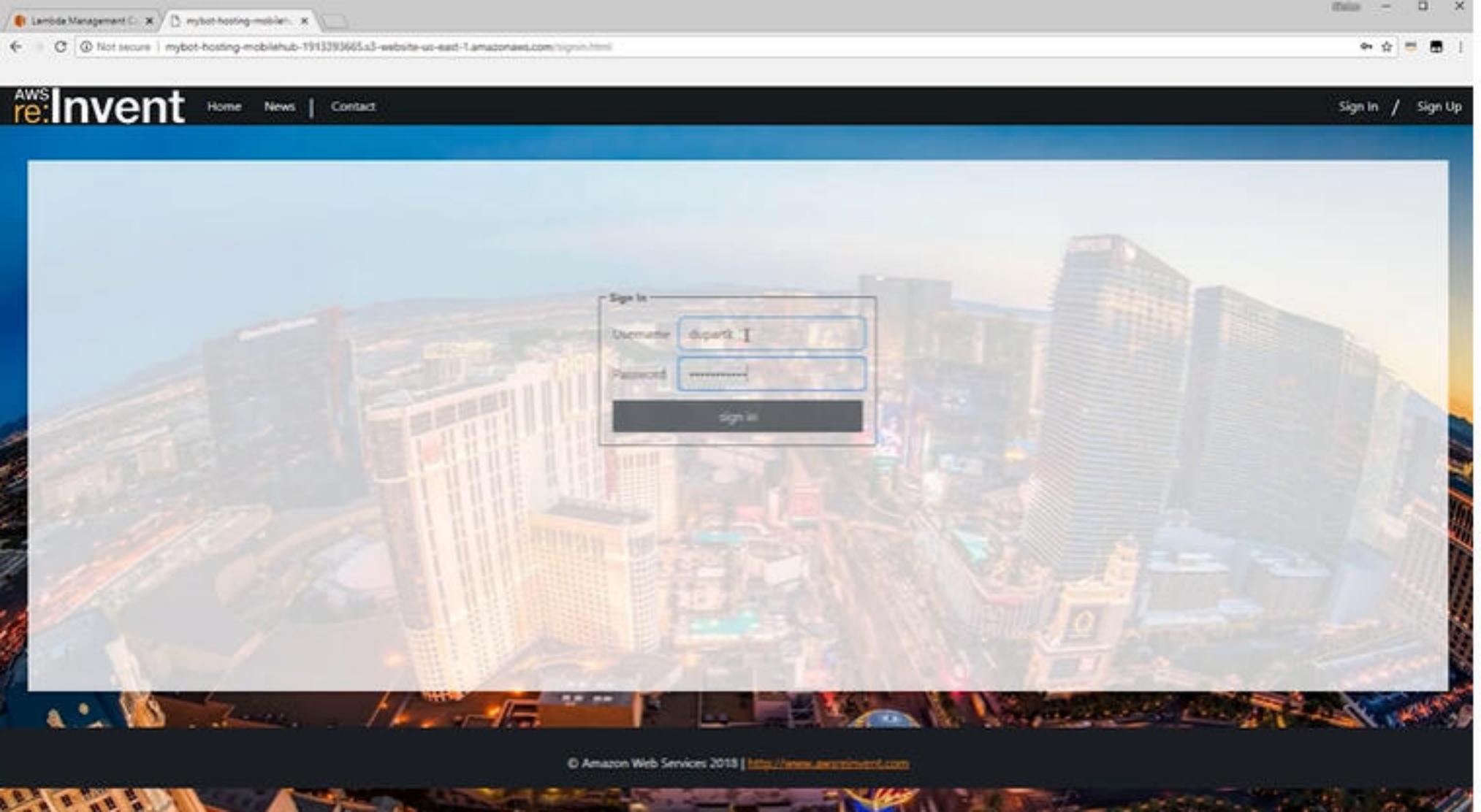
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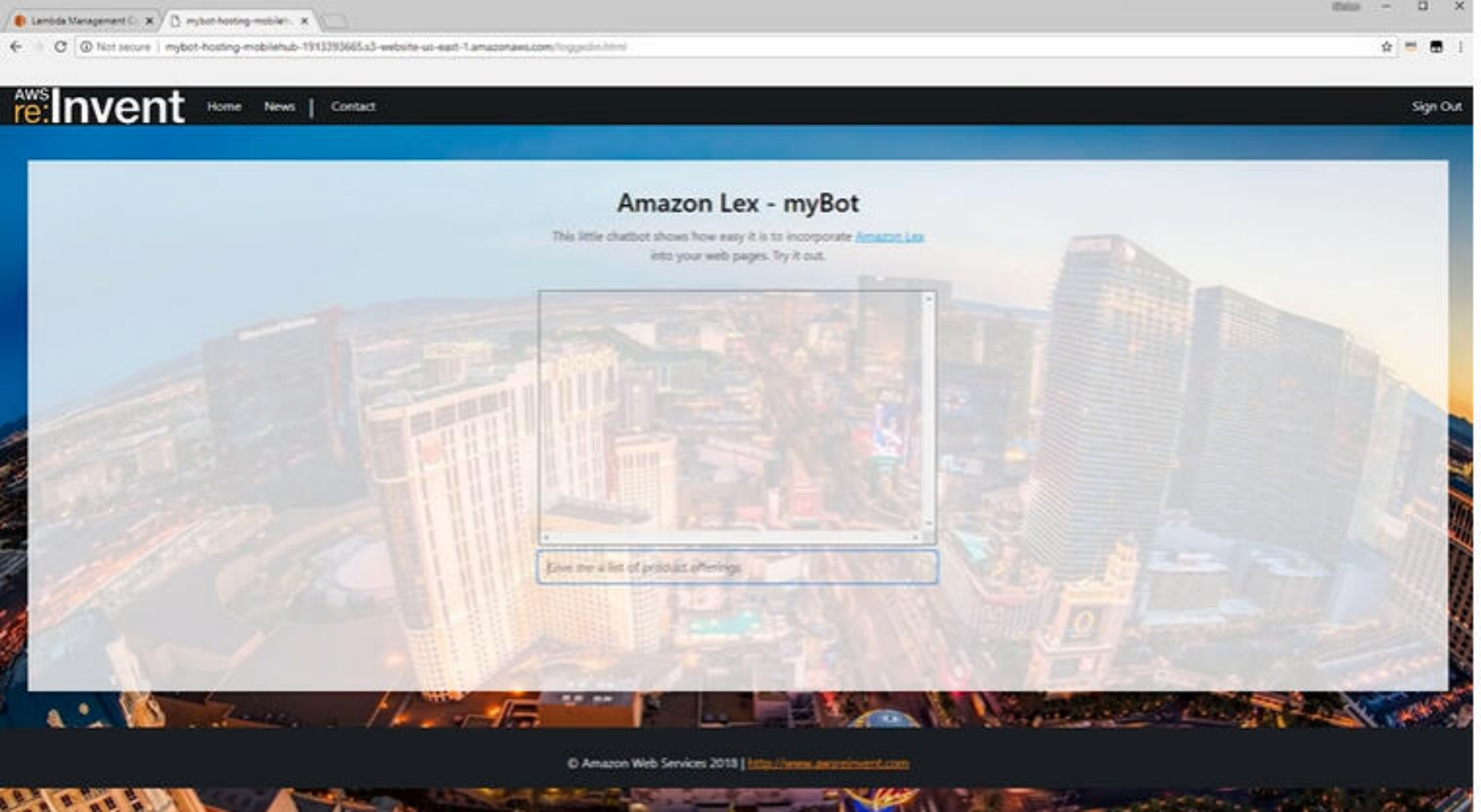
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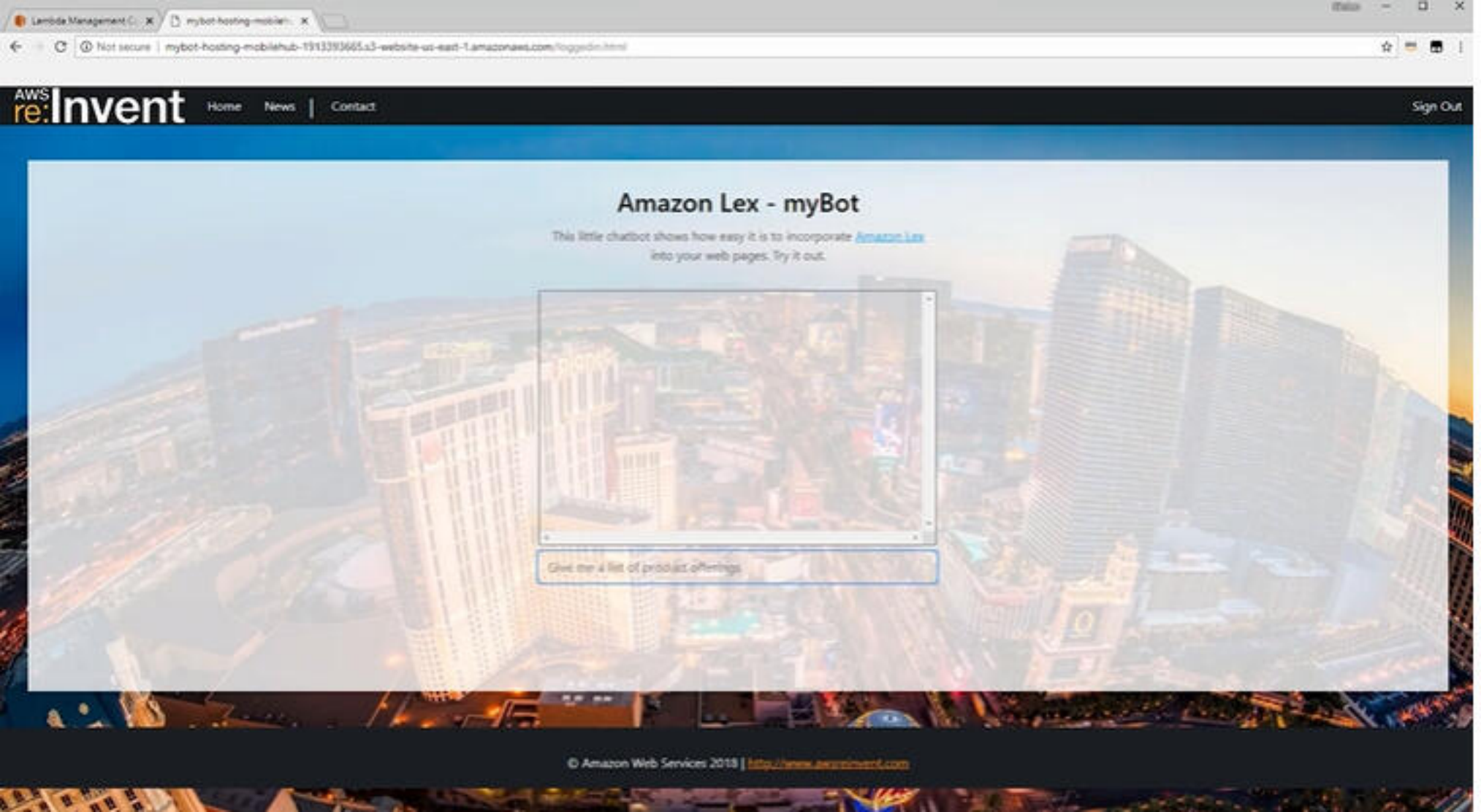
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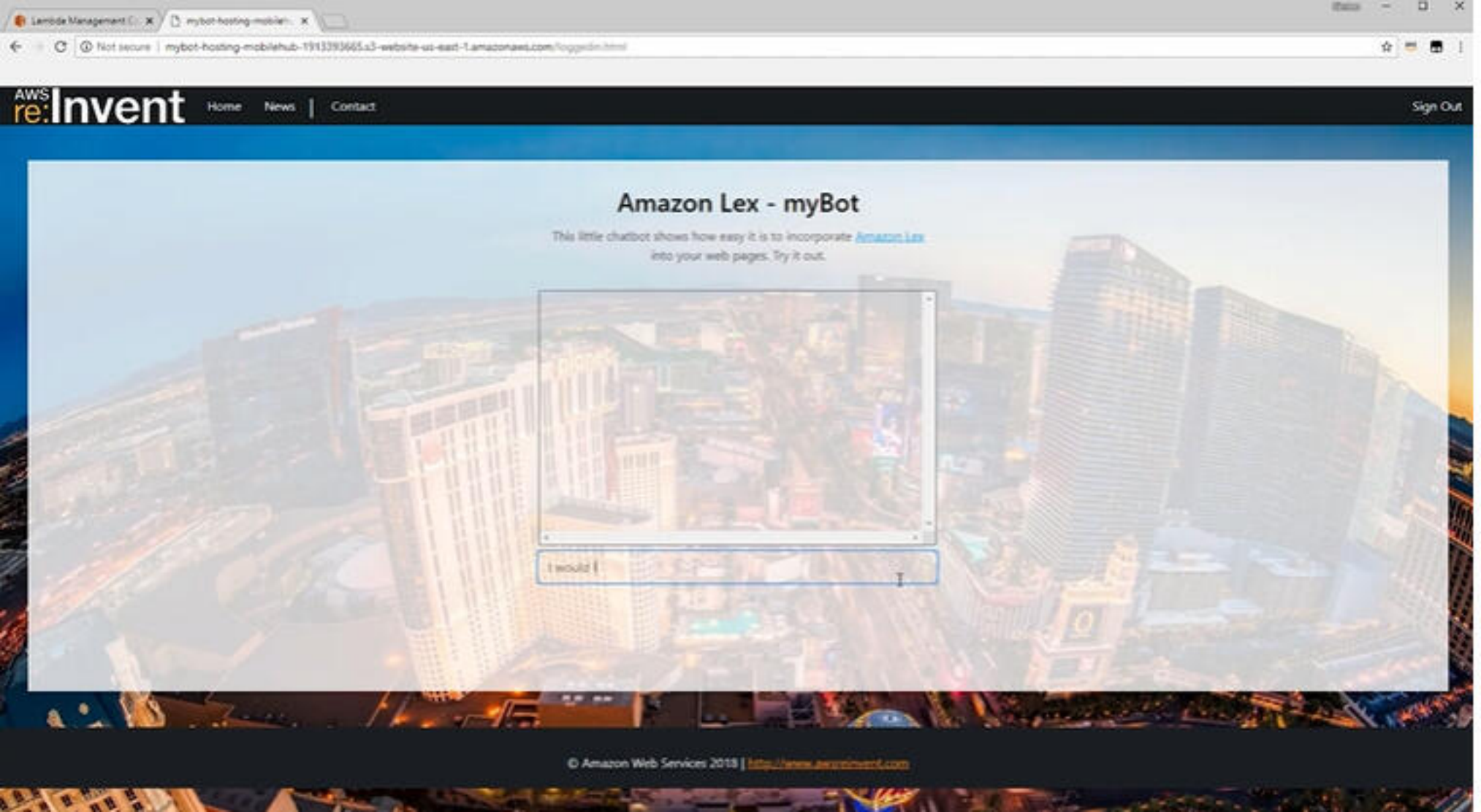
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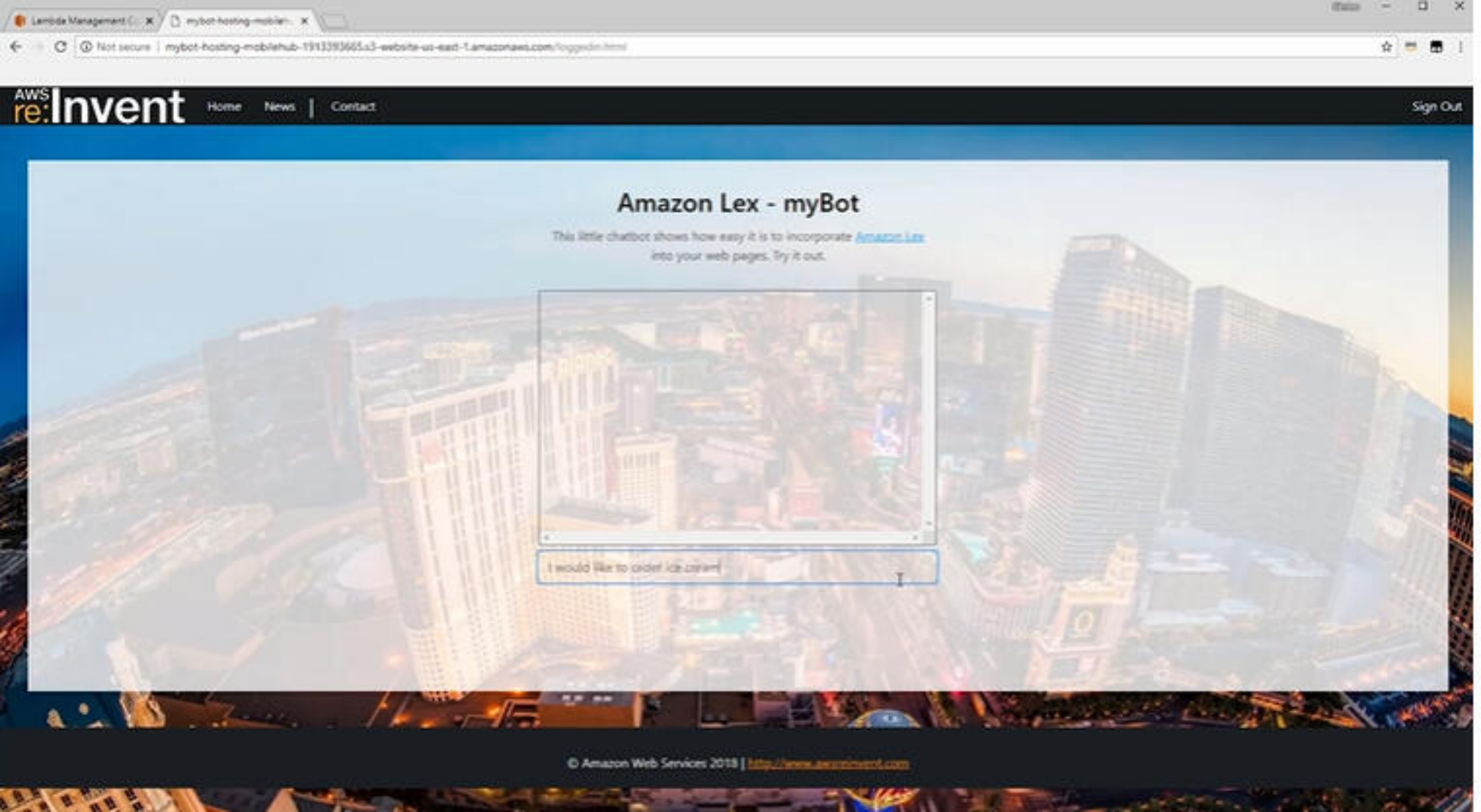
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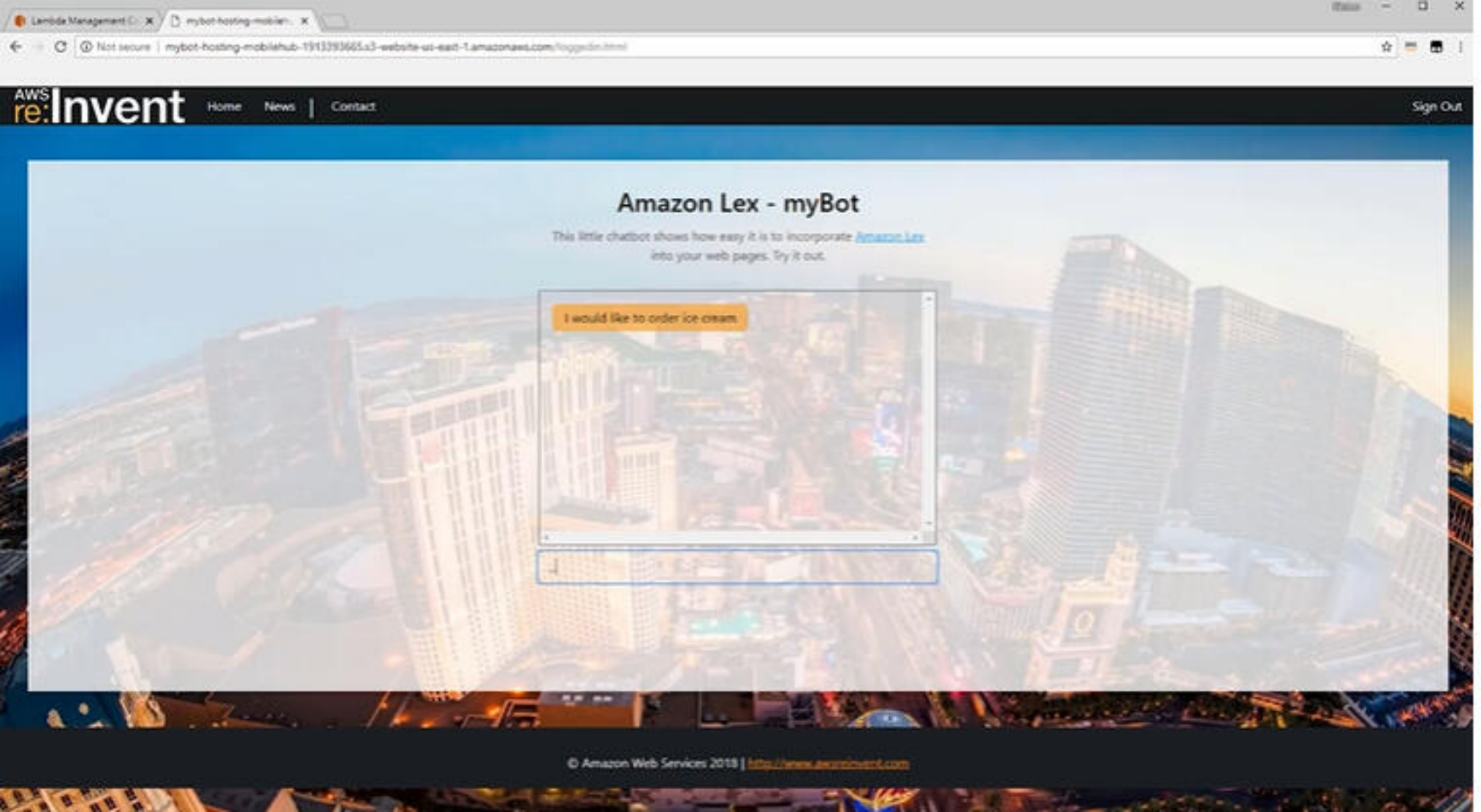
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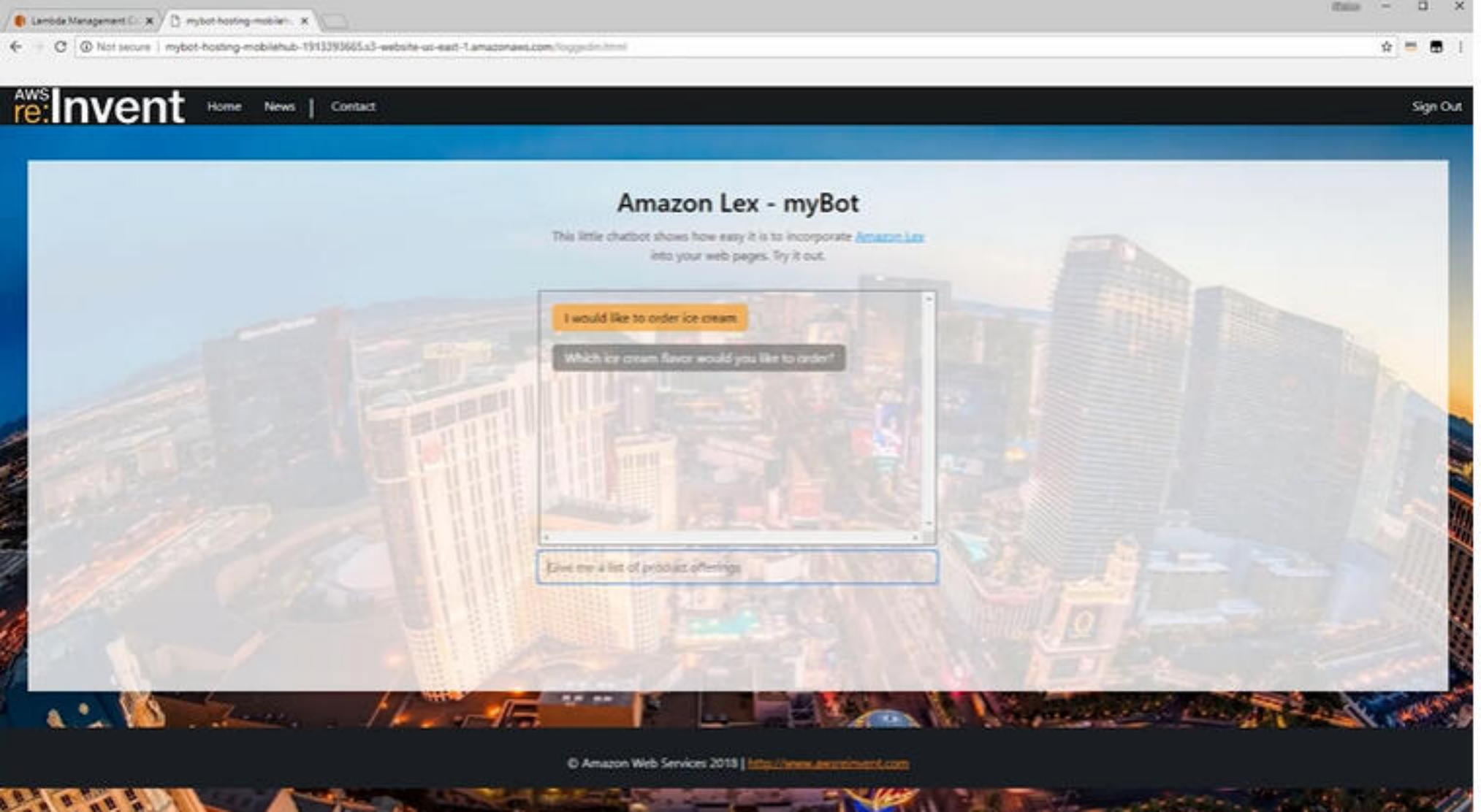
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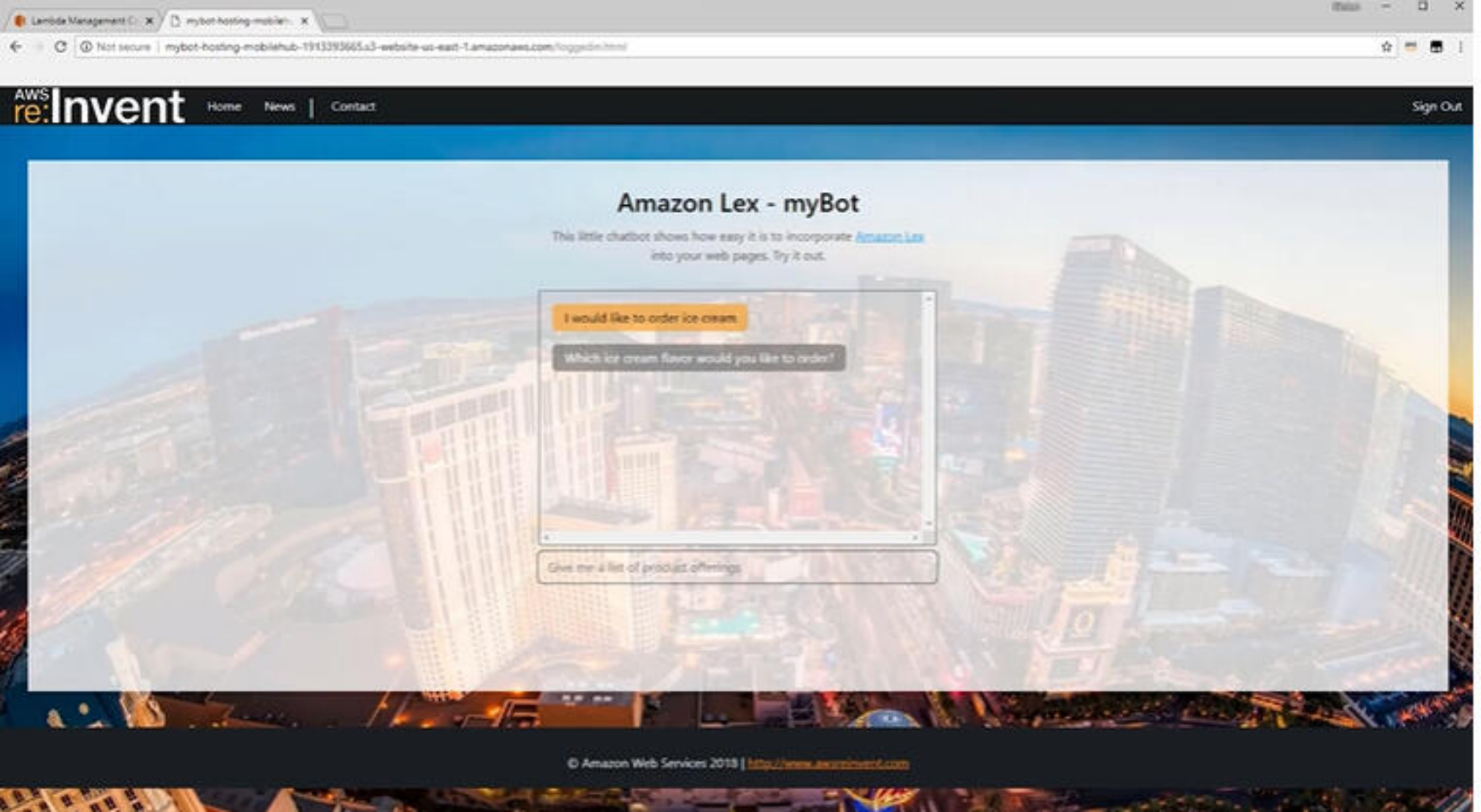
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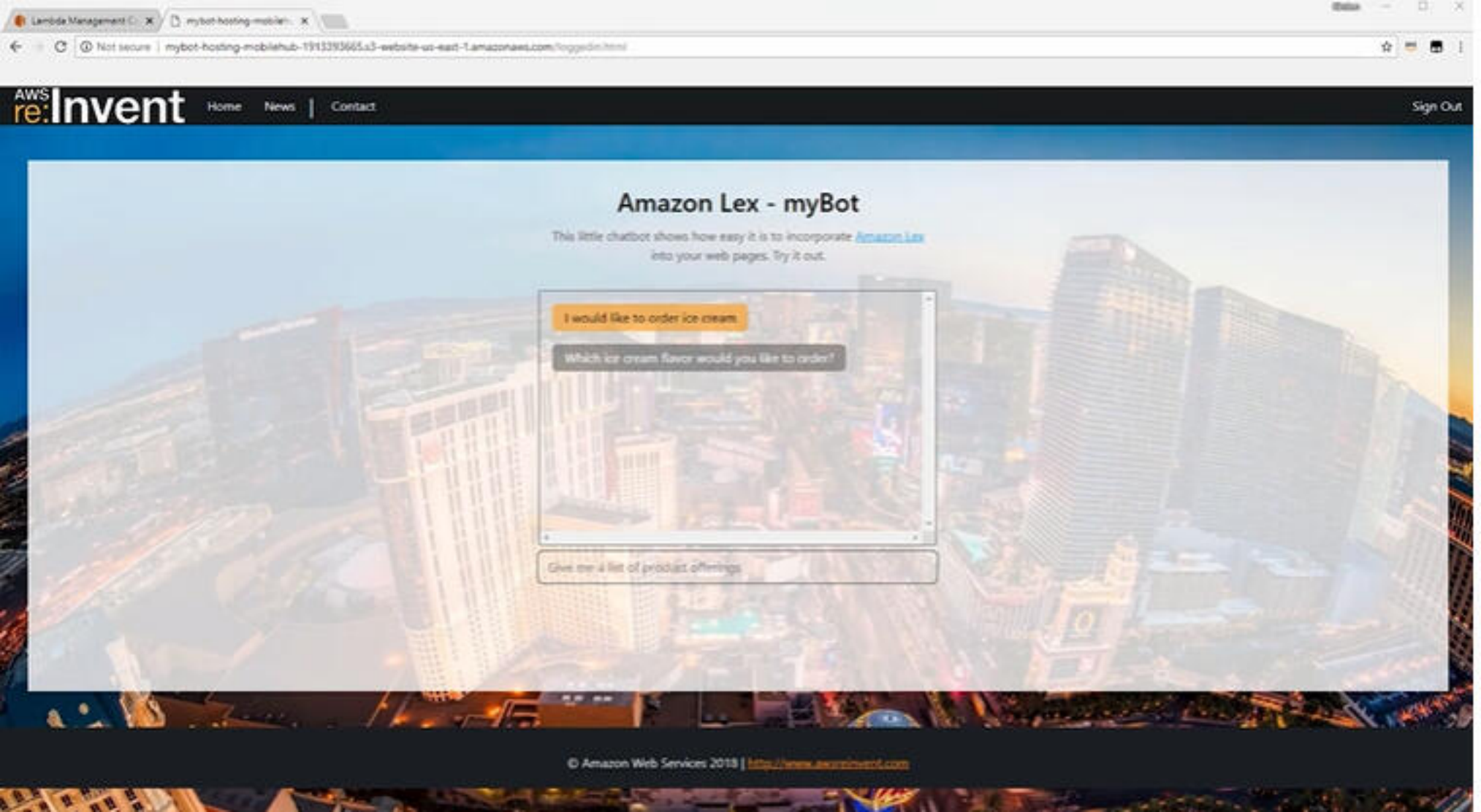
Contact
Sign Out
Amazon Lex - myBot
This little chatbot shows how easy it is to incorporate Amazon Lex into your web pages. Try it out.
I would like to order ice cream
Which ice cream flavor would you like to order?
Give me a list of product offerings
© Amazon Web Services 2018 | http://www.awsinvent.com


Lambda Management C...
mybot-hosting-mobileh...
Not secure
mybot-hosting-mobilehub-1913393665.s3-website-us-east-1.amazonaws.com/loggedin.html
AWS re:Invent
Home
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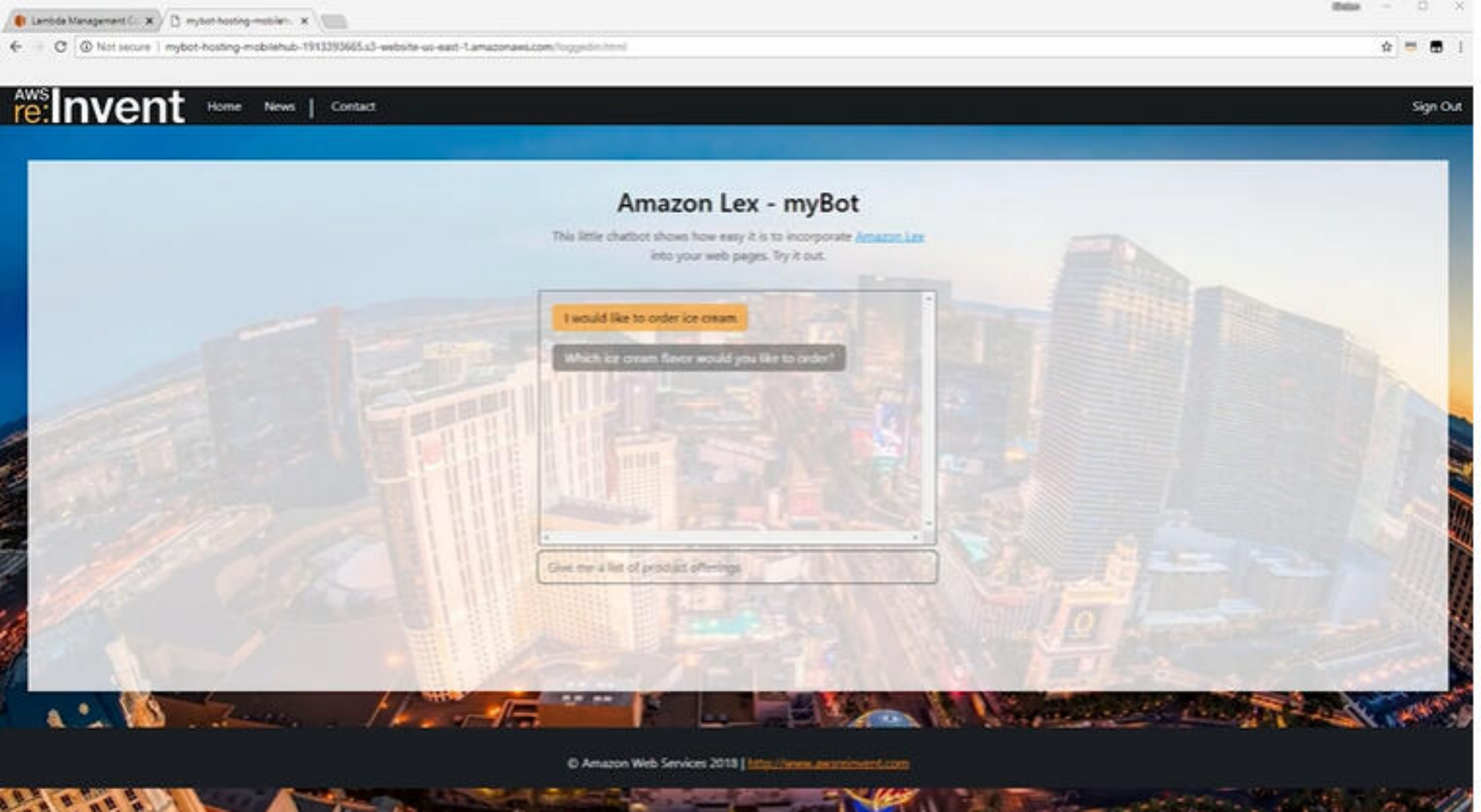
Lambda Management C...
mybot-hosting-mobilehub-...
Not secure | mybot-hosting-mobilehub-1913393665.s3-website-us-east-1.amazonaws.com/loggedin.html
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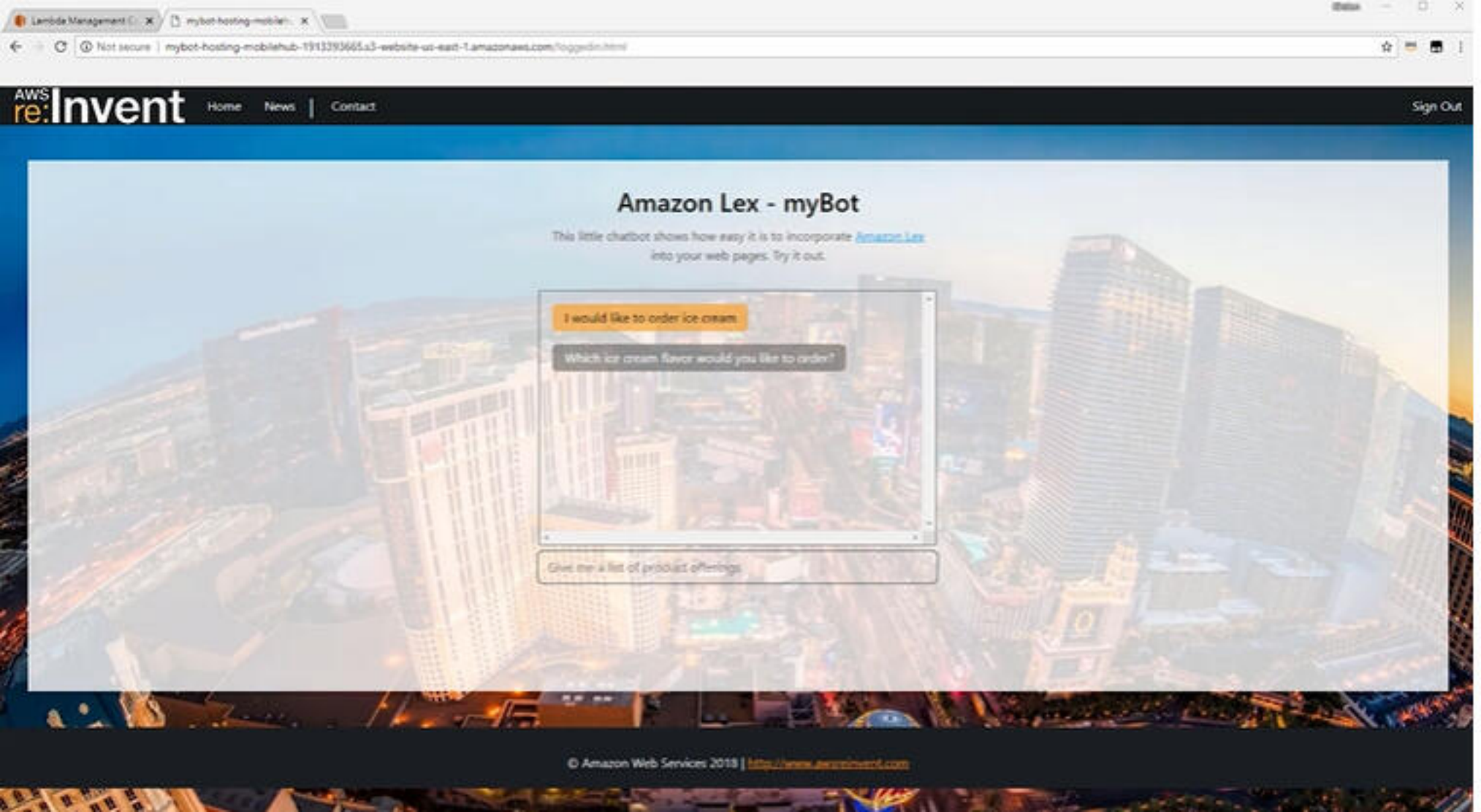
Lambda Management
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AWS re:Invent
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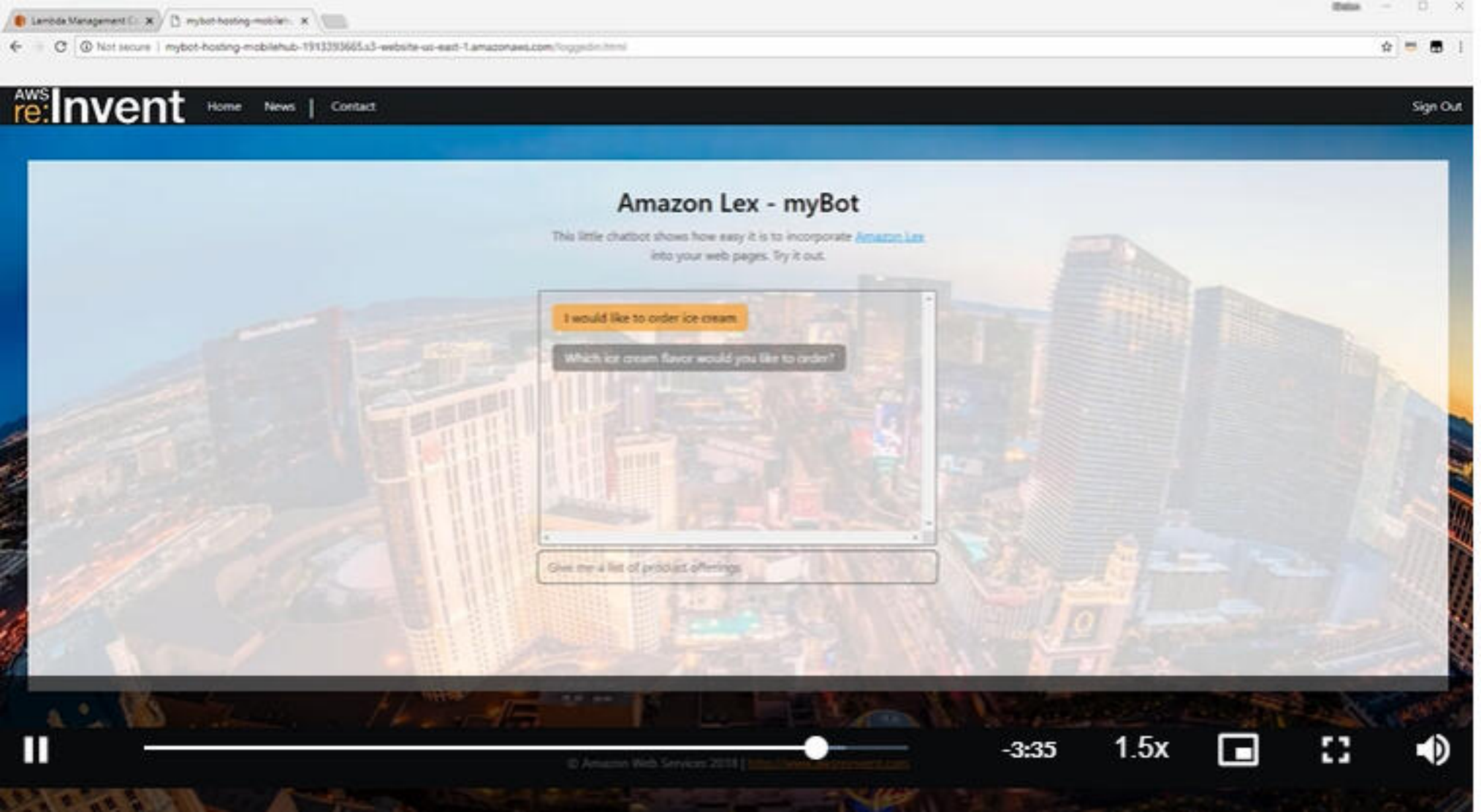
Not secure | mybot-hosting-mobilehub-1913393665.s3-website-us-east-1.amazonaws.com/loggedin.html
AWS re:Invent
Home
News
Contact
Sign Out
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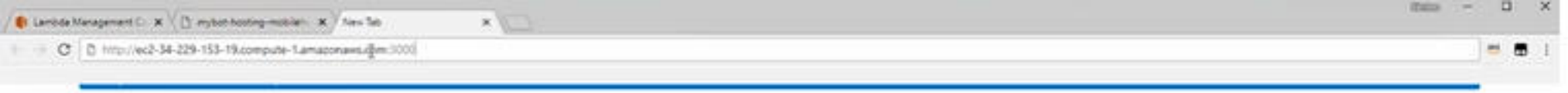
I would like to order ice cream
Which ice cream flavor would you like to order?
Give me a list of product offerings
-3:35
1.5x


Lambda Management C...
mybot-hosting-mobile...
New Tab
http://ec2-34-229-153-19.compute-1.amazonaws.com:3000

Lambda Management C... | mybot-hosting-mobile... | Grafana

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/login

Lambda Management C... | mybot-hosting-mobile... | Grafana

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/login

Lambda Management C... | mybot-hosting-mobile-... | Grafana

Not secure | ec2-54-229-153-19.compute-1.amazonaws.com:3000/login

Grafana

Log in

User

Password

Log in

Forgot your password?

Lambda Management C... | mybot-hosting-mobile-... | Grafana

Not secure | ec2-54-229-153-19.compute-1.amazonaws.com:3000/login

Grafana

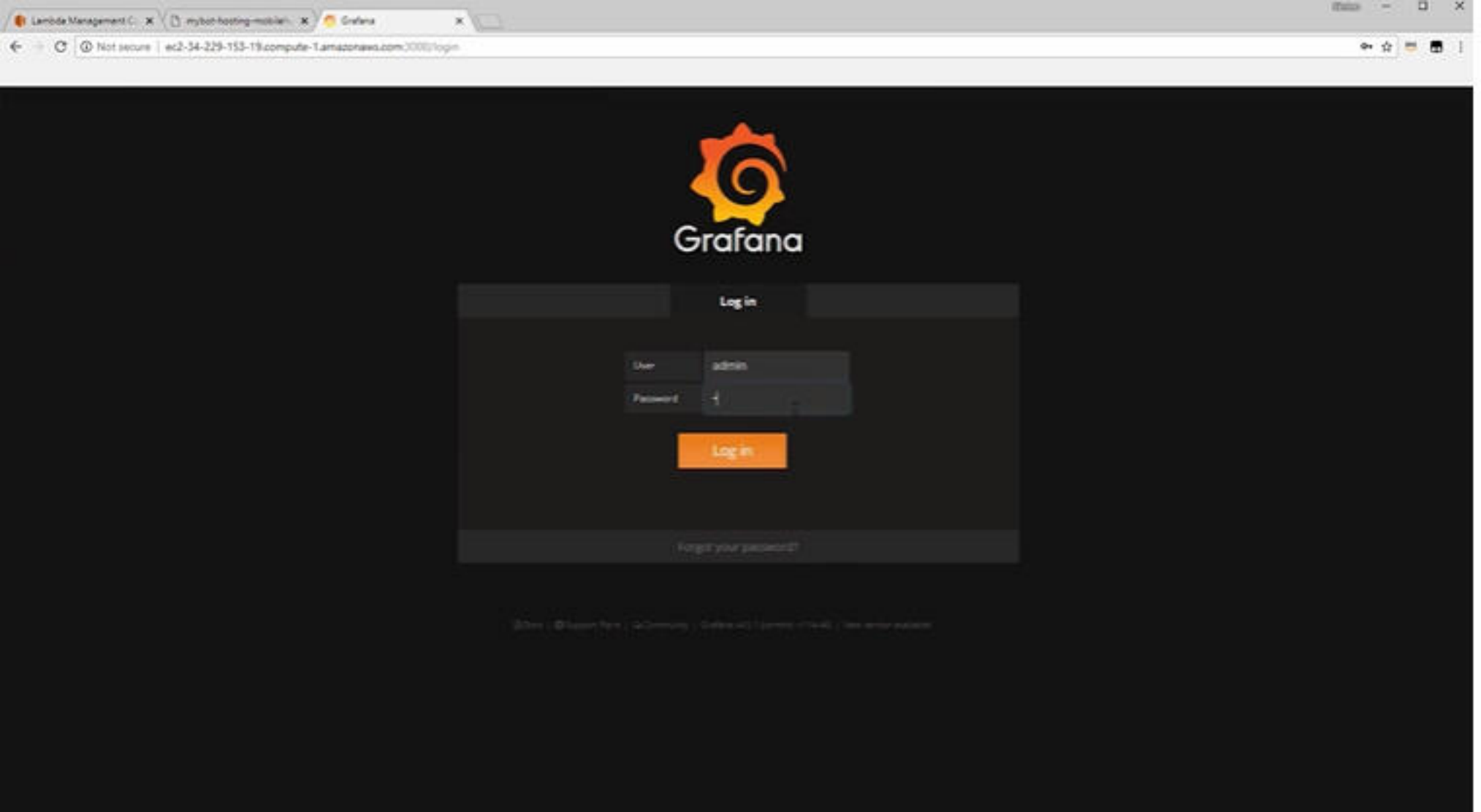
Log in

User | admin

Password | Admin
admin

Log in

Forgot your password?


Grafana
Log in
User
admin
Password
Log in

Lambda Management C... | mybot-hosting-mobileh... | Grafana

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/login

Grafana

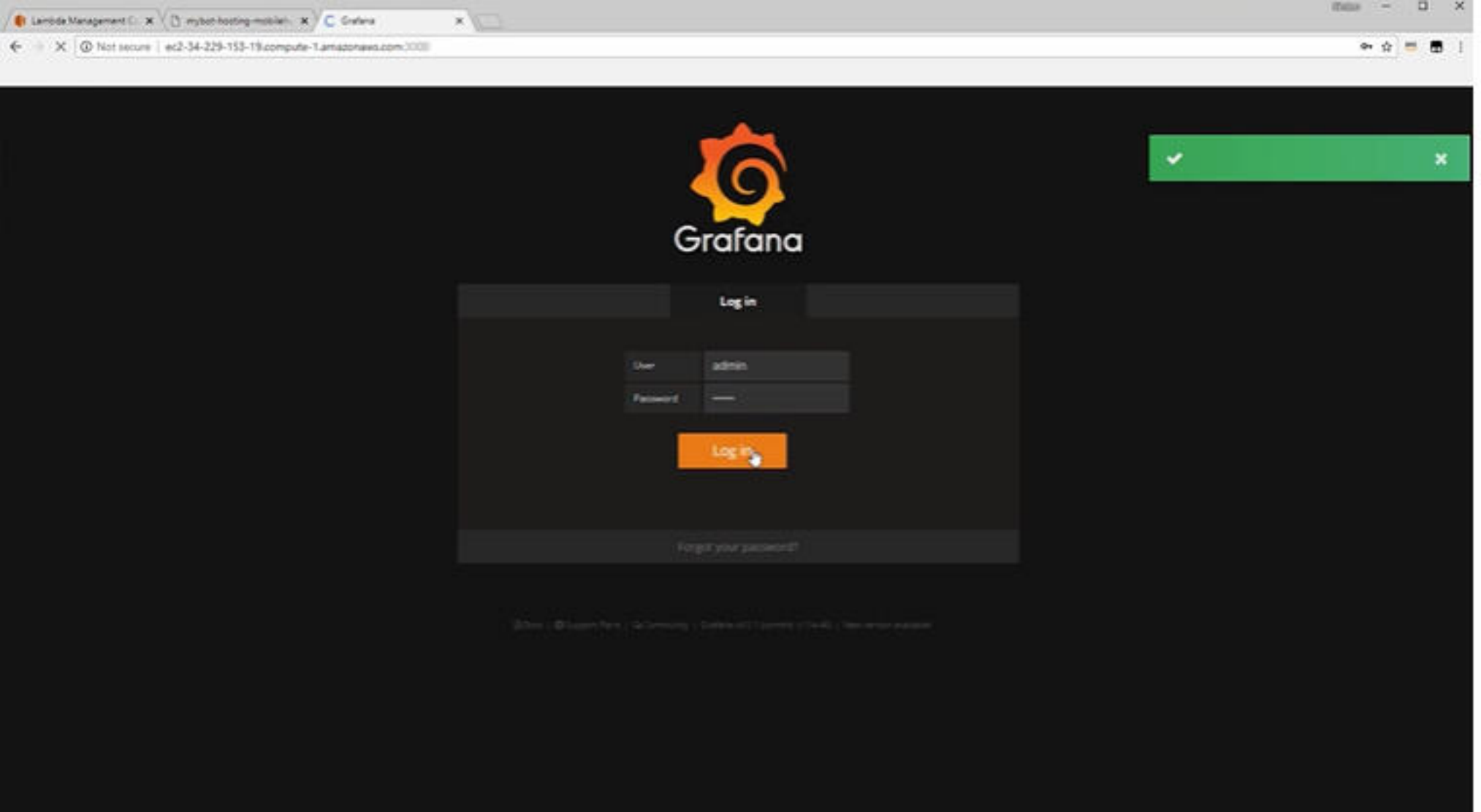
Log in

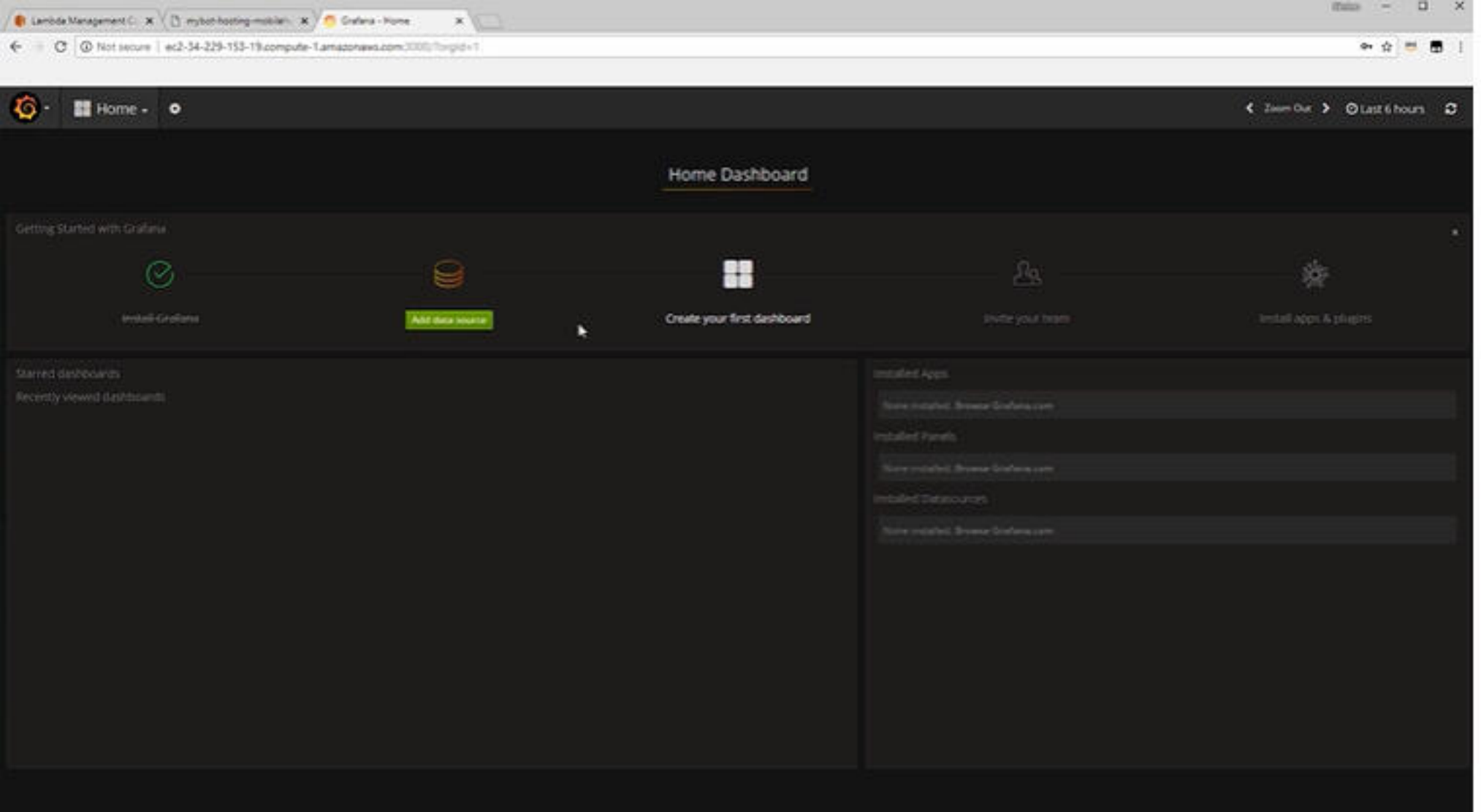
User admin

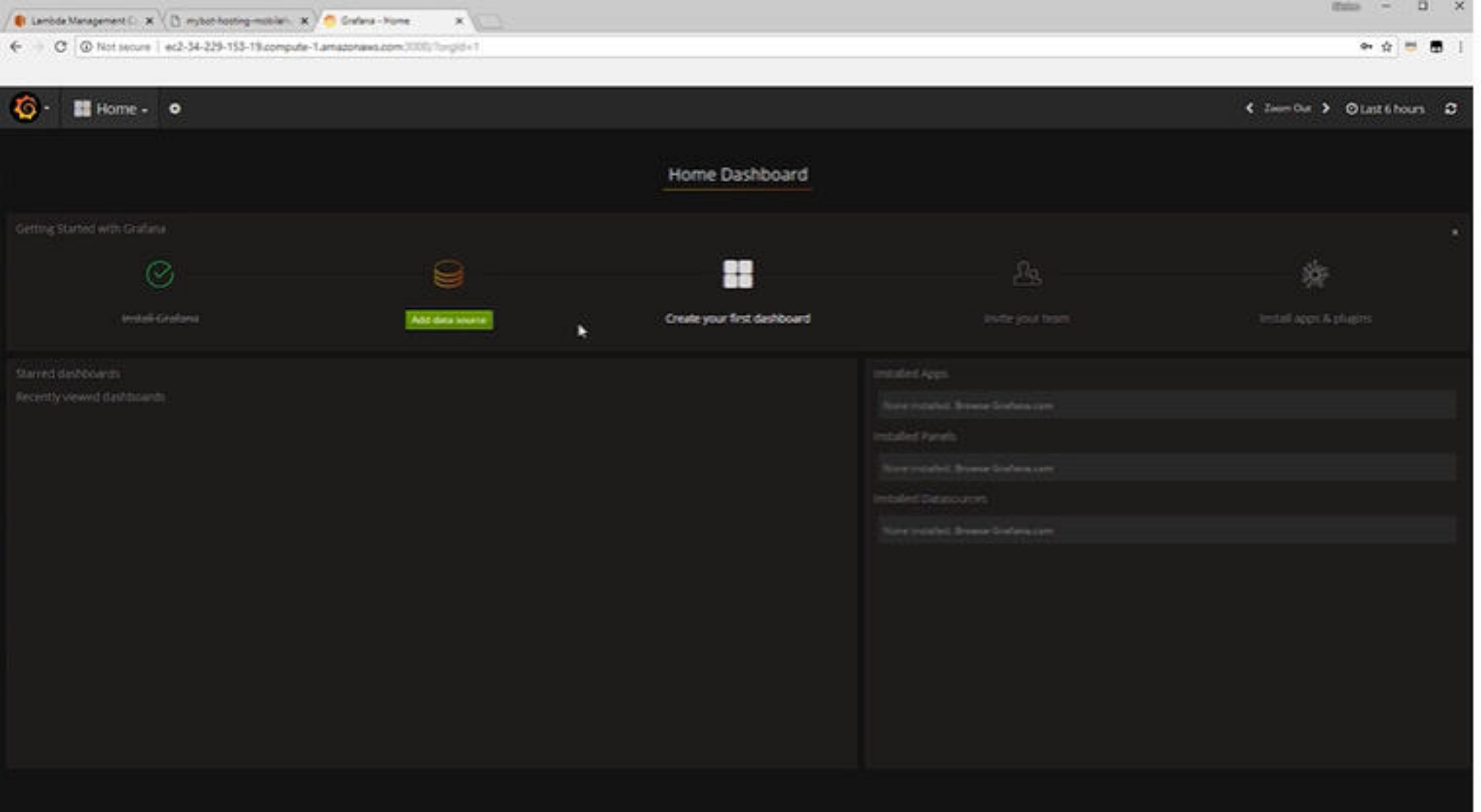
Password

Log in

Forgot your password?


Grafana
Log in
User
admin
Password
Log in
Forgot your password?


Lambda Management C
mybot-hosting-mobilen
Grafana - Home
Not secure
ec2-54-229-153-19.compute-1.amazonaws.com:3000/?orgId=1
Home
Zoom Out
Last 6 hours
Home Dashboard
Getting Started with Grafana
Install Grafana
Add data source
Create your first dashboard
Invite your team
Install apps & plugins
Starred dashboards
Recently viewed dashboards
Installed Apps
None installed. Browse Grafana.com
Installed Panels
None installed. Browse Grafana.com
Installed Datasources
None installed. Browse Grafana.com


Lambda Management
mybot-hosting-mobile
Grafana - Home
Not secure
ec2-34-229-153-19.compute-1.amazonaws.com:3000/?orgId=1
Home
Zoom Out
Last 6 hours
Home Dashboard
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Add data source
Create your first dashboard
Invite your team
Install apps & plugins
Starred dashboards
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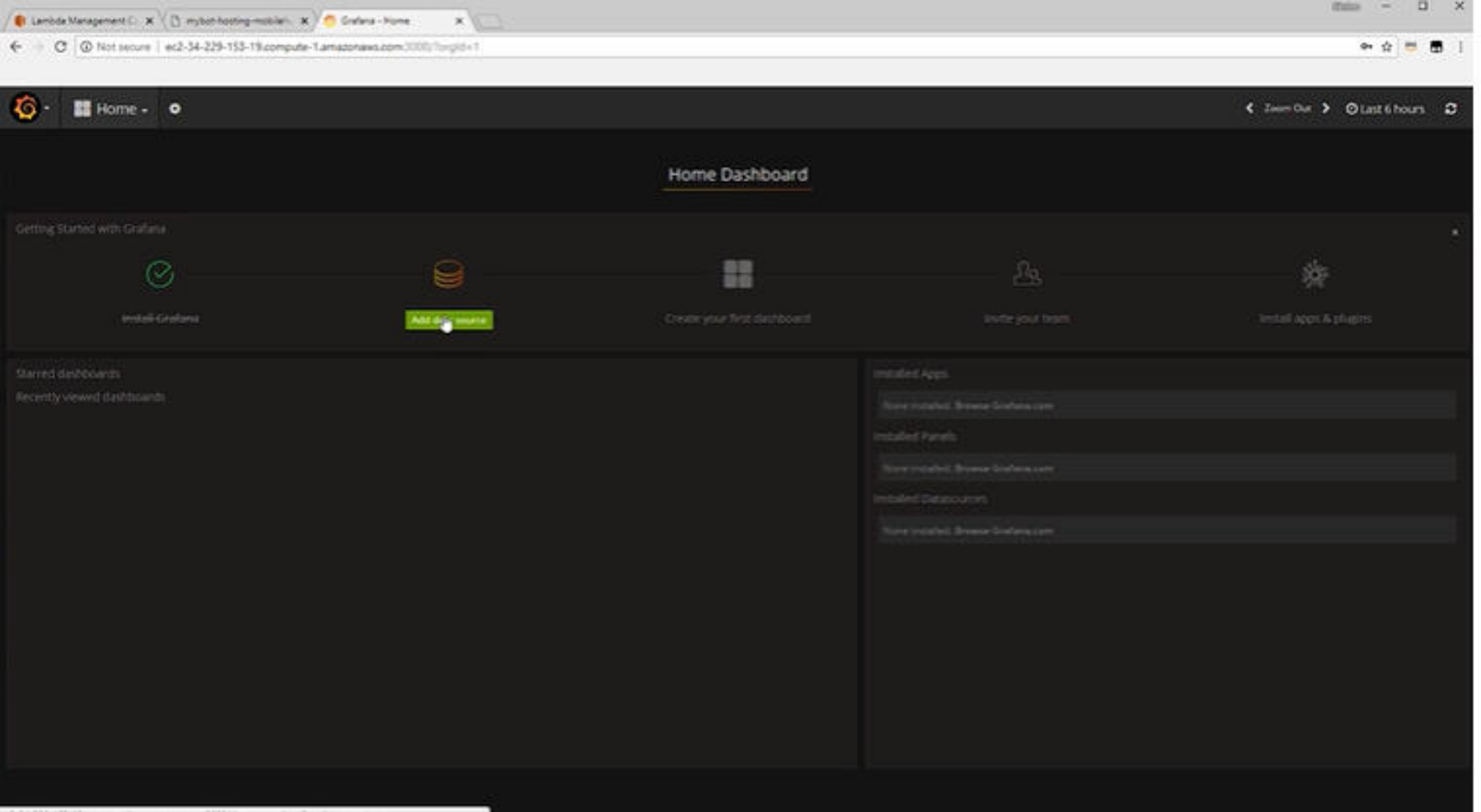
Lambda Management C
mybot-hosting-mobile
Grafana - Home
Not secure
ec2-34-229-153-19.compute-1.amazonaws.com:3000/?orgId=1
Home
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None installed. Browse Grafana.com
Installed Datasources
None installed. Browse Grafana.com

Lambda Management (... | mybot-hosting-mobile/... | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Config | Dashboards

Name | Default

Type | Graphite

Http settings

Url

Access | proxy

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Graphite details

Version | 0.9.x

Add | Cancel

Lambda Management (... | mybot-hosting-mobile/... | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Config | Dashboards

Name | Default

Type | Graphite

Http settings

Url

Access | proxy

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Graphite details

Version | 0.9.x

Add | Cancel

Lambda Management (| mybot-hosting-mobile/ | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Config | Dashboards

Name | Default

Type | Graphite

Http settings

Url

Access | proxy

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Graphite details

Version | 0.9.x

Add | Cancel

Lambda Management C... | mybot-hosting-mobile... | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Config | Dashboards

Name: myiot_ | Default

Type: Graphite

Http settings

Url

Access: proxy

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Graphite details

Version: 0.9.x

Add | Cancel

Lambda Management | mybot-hosting-mobilen | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Name: myBot_orders

Default

Type: Elasticsearch

Http settings

Url

Access: proxy

Specify a complete HTTP url (for example http://your_server:8080)

Your access method is currently Proxy, this means the url needs to be accessible from the grafana backend.

Http Auth

Basic Auth

With Credentials

TLS Client Auth

With CA Cert

Elasticsearch details

Index name

Pattern: No pattern

Time field name: @timestamp

Version

Min interval

Add

Cancel

Lambda Management | mybot-hosting-mobilen | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Name: myBot_orders

Default

Type: Elasticsearch

Http settings

Url: https

Access: proxy

Http Auth

Basic Auth

With Credentials

TLS Client Auth

With CA Cert

Elasticsearch details

Index name

Pattern: No pattern

Time field name: @timestamp

Version

Min interval

Add

Cancel

Lambda Management | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-54-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Name: myBot_orders

Default

Type: Elasticsearch

Http settings

Url: xeys6geh3w5q.us-east-1.es.amazonaws.com

Access: proxy

Http Auth

Basic Auth

With Credentials

TLS Client Auth

With CA Cert

Elasticsearch details

Index name

Pattern: No pattern

Time field name: @timestamp

Version

Min interval

Add

Cancel

Lambda Management C | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Name	myBot_orders	Default	✓
Type	Elasticsearch		

Http settings

Url	xeyslugeh3w5q.us-east-1.es.amazonaws.com:9
Access	proxy

Http Auth

Basic Auth	☐	With Credentials	☐
TLS Client Auth	☐	With CA Cert	☐

Elasticsearch details

Index name		Pattern	No pattern
Time field name	@timestamp		
Version			
Min interval			

Add Cancel

Lambda Management C... | mybot-hosting-mobile/... | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Name: myBot_orders | Default

Type: Elasticsearch

Http settings

Url: xeyslugeh3w5q.us-east-1.es.amazonaws.com

Access: proxy

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Elasticsearch details

Index name | Pattern: No pattern

Time field name: @timestamp

Version

Min interval

Add | Cancel

Lambda Management C | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Name	myBot_orders	Default	✓
Type	Elasticsearch		

Http settings

Url	xeyslugeh3w5q.us-east-1.es.amazonaws.com
Access	proxy

Http Auth

Basic Auth	☐	With Credentials	☐
TLS Client Auth	☐	With CA Cert	☐

Elasticsearch details

Index name		Pattern	No pattern
Time field name	@timestamp		
Version			
Min interval			

Add Cancel

Data Sources

Add data source

Name	myBot_orders	Default	✓
Type	Elasticsearch		

Http settings

Url	https://search-mydomain-fkblzxdk24gnqx...
Access	proxy

Http Auth

Basic Auth	☐	With Credentials	☐
TLS Client Auth	☐	With CA Cert	☐

Elasticsearch details

Index name		Pattern	No pattern
Time field name	@timestamp		
Version			
Min interval			

Add Cancel

Lambda Management | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Name: myBot_orders | Default

Type: Elasticsearch

Http settings

Url: https://search-mydomain-fkbizvdk42kgcqx...

Access: proxy

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Elasticsearch details

Index name: myorders | Pattern: No pattern

Time field name: orde

Version

Min interval

Add | Cancel

Data Sources

Add data source

Name	myBot_orders	Default	
Type	Elasticsearch		

Http settings

Url	https://search-mydomain-fkblzvdk42kgrqx...
Access	proxy

Http Auth

Basic Auth		With Credentials	
TLS Client Auth		With CA Cert	

Elasticsearch details

Index name	myorders	Pattern	No pattern
Time field name	orderTStamp		
Version	5.x		
Min interval			

Add Cancel

Lambda Management C | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new?gettingstarted

Data Sources

Add data source

Name	myBot_orders	Default	☑
Type	Elasticsearch		

Http settings

Url	https://search-mydomain-fkblzvdk42kgzqx...
Access	proxy

Http Auth

Basic Auth	☐	With Credentials	☐
TLS Client Auth	☐	With CA Cert	☐

Elasticsearch details

Index name	myorders	Pattern	No pattern
Time field name	orderTStamp		
Version	5.x		
Min interval	10s		

Add Cancel

Lambda Management | mybot-hosting-mobilen | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/edit/11/gettingstarted

Data Sources

Edit data source

Name	myBot_orders	Default	✓
Type	Elasticsearch		

Http settings

Url	https://search-mydomain-fkblnvfk4ztgzqx...
Access	proxy

Http Auth

Basic Auth	☐	With Credentials	☐
TLS Client Auth	☐	With CA Cert	☐

Elasticsearch details

Index name	myorders	Pattern	No pattern
Time field name	orderTStamp		
Version	5.x		
Min interval	10s		

✓ Index OK. Time field name OK.

Lambda Management C | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/edit/1?gettingstarted

Data Sources

List view

Add data source

Ed

Name: myBot_orders | Default

Type: Elasticsearch

Http settings

Url: https://search-mydomain-fkbizvdl4i24gzqx...

Access: proxy

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Elasticsearch details

Index name: myorders | Pattern: No pattern

Time field name: orderTStamp

Version: 5.x

Min interval: 10s

Index OK. Time field name OK.

Lambda Management (... | mybot-hosting-mobile/... | Grafana - Home

Not secure | ec2-54-229-153-19.compute-1.amazonaws.com:3000/datasources/new

Data Sources

Add data source

Config | Dashboards

Name | Default

Type | Graphite

Http settings

Url

Access | proxy

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Graphite details

Version | 0.9.x

Add | Cancel

Data Sources

Add data source

Config | Dashboards

Name: mybot
Default
Type: Graphite

Http settings

Url
Access: proxy

Http Auth

Basic Auth
With Credentials
TLS Client Auth
With CA Cert

Graphite details

Version: 0.9.x

Add | Cancel

Lambda Management C | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new

Data Sources

Add data source

Name: mybot_pfr

Default

Type: Elasticsearch

Http settings

Url

Please fill out this field.

Access: proxy

Http Auth

Basic Auth

With Credentials

TLS Client Auth

With CA Cert

Elasticsearch details

Index name

Pattern: No pattern

Time field name: @timestamp

Version

Min interval

Add

Cancel

Data Sources

Add data source

Name: mybot_pfr

Default

Type: Elasticsearch

Http settings

Url: https://

Access: proxy

Http Auth

Basic Auth

With Credentials

TLS Client Auth

With CA Cert

Elasticsearch details

Index name

Pattern: No pattern

Time field name: @timestamp

Version

Min interval

Add

Cancel

-2:05

1.5x

Lambda Management C | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new

Data Sources

Add data source

Name: mybot_pfr

Default

Type: Elasticsearch

Http settings

Url: xeyi6geh3w5q.us-east-1.es.amazonaws.com

Access: proxy

Http Auth

Basic Auth

With Credentials

TLS Client Auth

With CA Cert

Elasticsearch details

Index name

Pattern: No pattern

Time field name: @timestamp

Version

Min interval

Add

Cancel

Lambda Management C | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new

Data Sources

Add data source

Name: mybot_pfr

Default

Type: Elasticsearch

Http settings

Url: https://search-mydomain-fkbbzxdk24gzqx...

Access: proxy

Http Auth

Basic Auth

With Credentials

TLS Client Auth

With CA Cert

Elasticsearch details

Index name

Pattern: No pattern

Time field name: @timestamp

Version

Min interval

Add

Cancel

Lambda Management C... | mybot-hosting-mobile/... | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new

Data Sources

Add data source

Name: mybot_pfr | Default

Type: Elasticsearch

Http settings

Url: https://search-mydomain-fkbinvdk42gzqx...

Access: proxy

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Elasticsearch details

Index name: mybot_ | Pattern: No pattern

Time field name: @timestamp

Version

Min interval

Add | Cancel

Lambda Management C | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new

Data Sources

Add data source

Name	mybot_pfr	Default	
Type	Elasticsearch		

Http settings

Url	https://search-mydomain-fkblzvdl4i24gzqx...
Access	proxy

Http Auth

Basic Auth		With Credentials	
TLS Client Auth		With CA Cert	

Elasticsearch details

Index name	mybot_pfr	Pattern	No pattern
Time field name			
Version			
Min interval			

Add Cancel

Lambda Management C | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/new

Data Sources

Add data source

Name	mybot_pfr	Default	☐
Type	Elasticsearch		

Http settings

Url	https://search-mydomain-fkblzvdl4242gzqx...
Access	proxy

Http Auth

Basic Auth	☐	With Credentials	☐
TLS Client Auth	☐	With CA Cert	☐

Elasticsearch details

Index name	mybot_pfr	Pattern	No pattern
Time field name	prodFlavorReqTStamp		
Version	5.x		
Min interval	10s		

Add Cancel

Lambda Management C... | mybot-hosting-mobile/... | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/edit/2

Data Sources

Datasource added

Edit data source

Name	mybot_pfr	Default	
Type	Elasticsearch		

Http settings

Url	https://search-mydomain-fkbizvdk42kgcqx...
Access	proxy

Http Auth

Basic Auth		With Credentials	
TLS Client Auth		With CA Cert	

Elasticsearch details

Index name	mybot_pfr	Pattern	No pattern
Time field name	prodFlavorReqTStamp		
Version	5.x		
Min interval	10s		

Index OK. Time field name OK.

Lambda Management | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/edit/2

Data Sources

Edit data source

Name	mybot_pfr	Default	☐
Type	Elasticsearch		

Http settings

Url	https://search-mydomain-fkbizvdk24gzqx...
Access	proxy

Http Auth

Basic Auth	☐	With Credentials	☐
TLS Client Auth	☐	With CA Cert	☐

Elasticsearch details

Index name	mybot_pfr	Pattern	No pattern
Time field name	prodFlavorReqTStamp		
Version	5.x		
Min interval	10s		

✔ Index OK. Time field name OK.

Lambda Management | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/edit/2

Data Sources

Edit data source

Name: mybot_pfr | Default

Type: Elasticsearch

Http settings

Url: https://search-mydomain-fkbizvdk24gzqx...

Access: proxy

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Elasticsearch details

Index name: mybot_pfr | Pattern: No pattern

Time field name: prodFlavorReqTStamp

Version: 5.x

Min interval: 10s

Index OK. Time field name OK.

-1:27 1.5x

Lambda Management | mybot-hosting-mobile | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/edit/2

Data Sources

Edit data source

Name	mybot_pfr	Default	☐
Type	Elasticsearch		

Http settings

Url	https://search-mydomain-fkbizvdl4i24gzqx...
Access	proxy

Http Auth

Basic Auth	☐	With Credentials	☐
TLS Client Auth	☐	With CA Cert	☐

Elasticsearch details

Index name	mybot_pfr	Pattern	No pattern
Time field name	prodFlavorReqTStamp		
Version	5.x		
Min interval	10s		

✔ Index OK. Time field name OK.

Lambda Management C... | mybot-hosting-mobile/... | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/edit/2

Data Sources

admin
Main Org.

Dashboards
Home
Playlists
Snapshots
New
Import

Alerting

Data Sources

Plugins

Admin

Pin

ource

Default

/search-mydomain-fkblzvdk24gzqx...

Http Auth

Basic Auth | With Credentials

TLS Client Auth | With CA Cert

Elasticsearch details

Index name: mybot_pfr | Pattern: No pattern

Time field name: prodFlavorReqTStamp

Version: 5.x

Min interval: 10s

Index OK. Time field name OK.

Lambda Management C... | mybot-hosting-mobile/... | Grafana - Home

Not secure | ec2-34-229-153-19.compute-1.amazonaws.com:3000/datasources/edit/2

Data Sources

admin
Main Org.

Dashboards
- Home
- Playlists
- Snapshots

Alerting

Data Sources
- + New
- Import

Plugins

Admin

Pin

...urce

Default

...c/search-mydomain-fkblzvdk24gzqz...

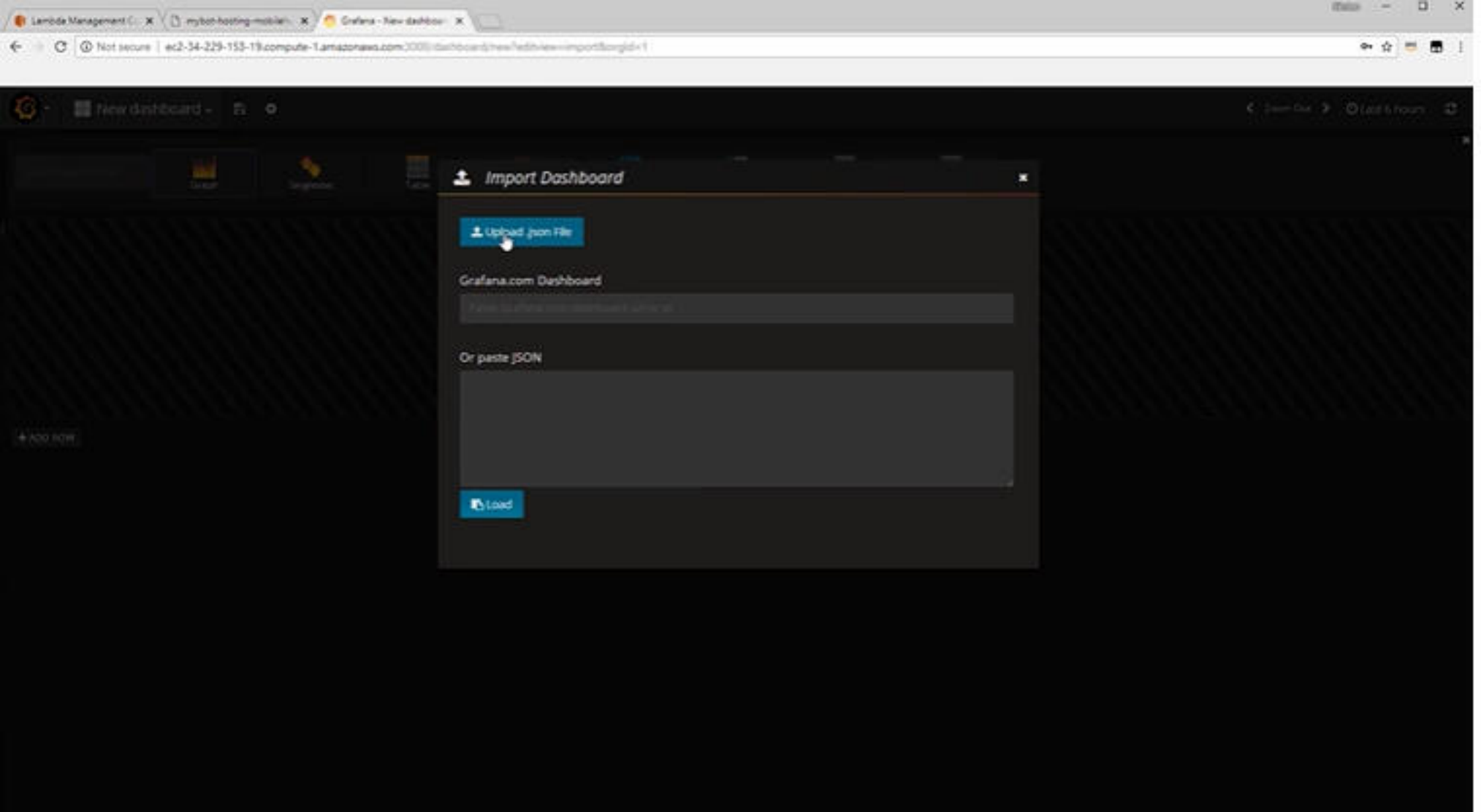
Http Auth

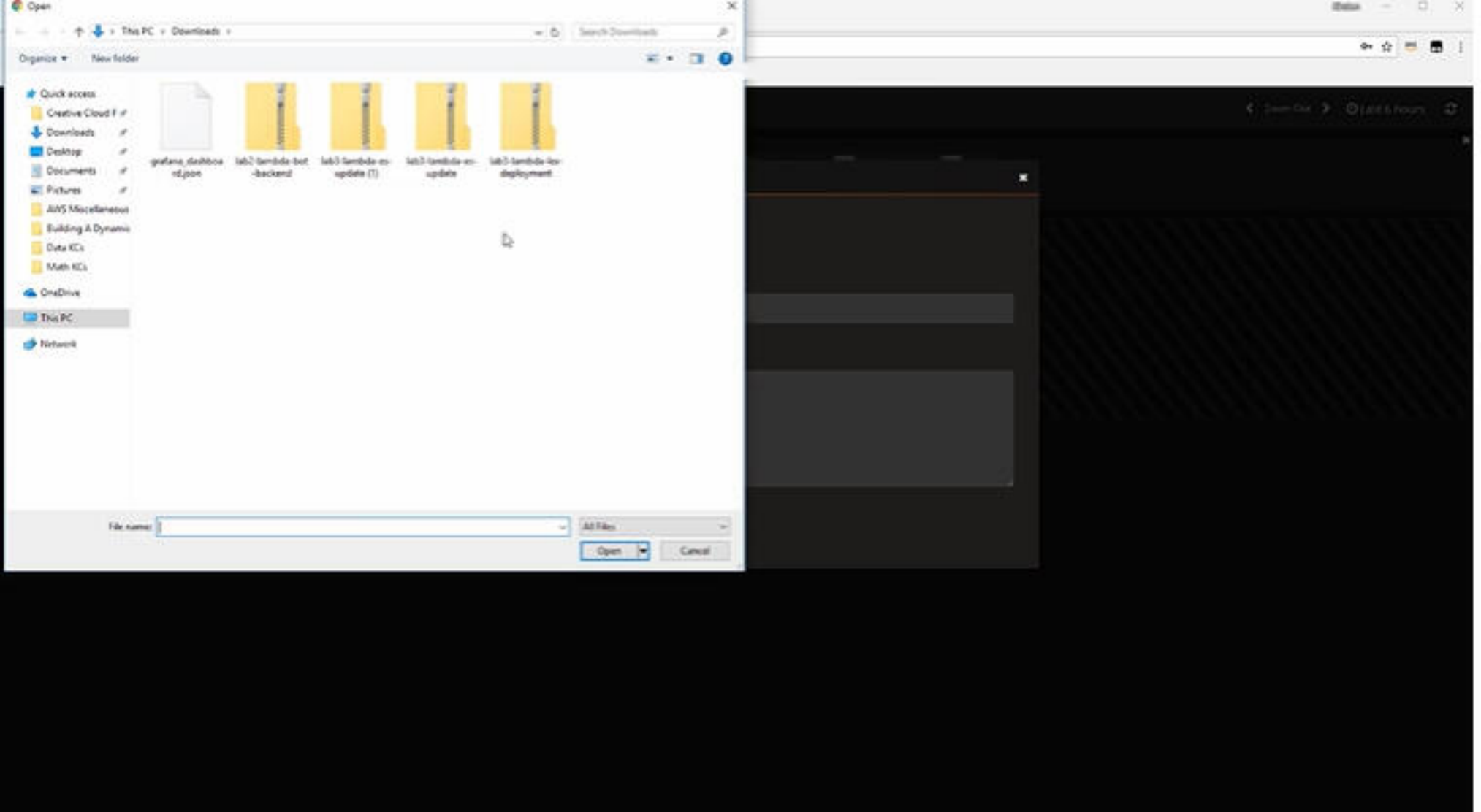
Basic Auth		With Credentials	
TLS Client Auth		With CA Cert	

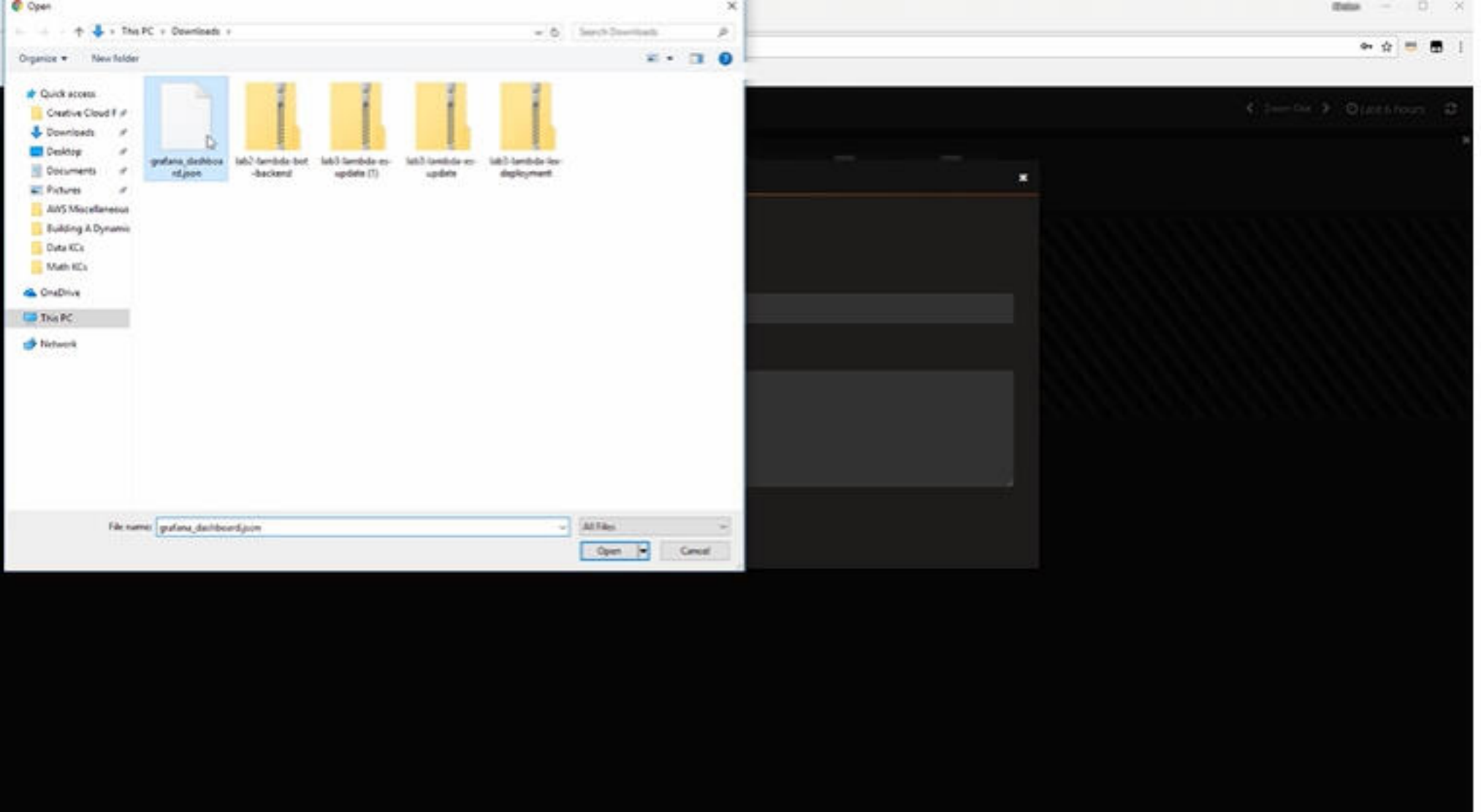
Elasticsearch details

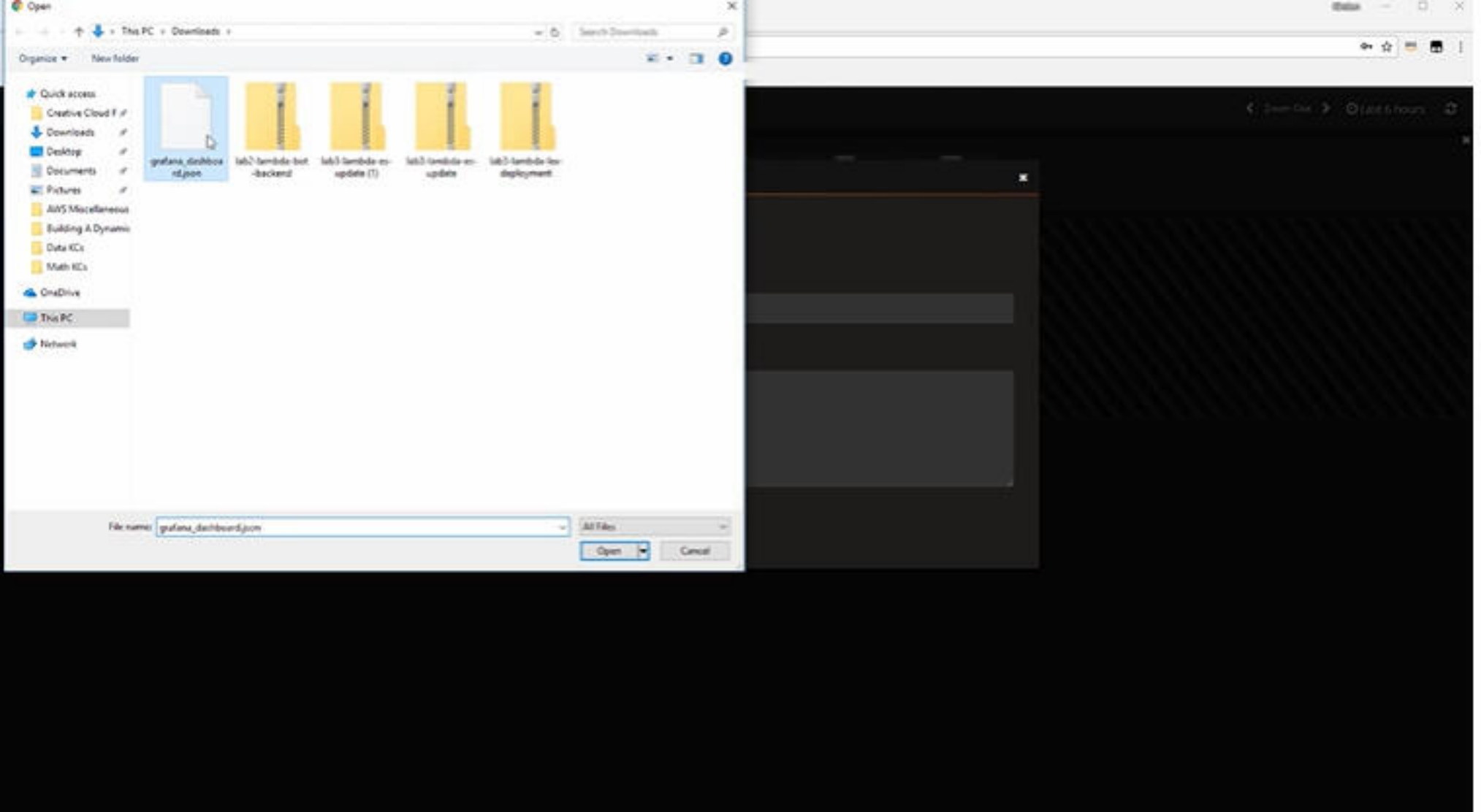
Index name	mybot_pfr	Pattern	No pattern
Time field name	prodFlavorReqTStamp		
Version	5.x		
Min interval	10s		

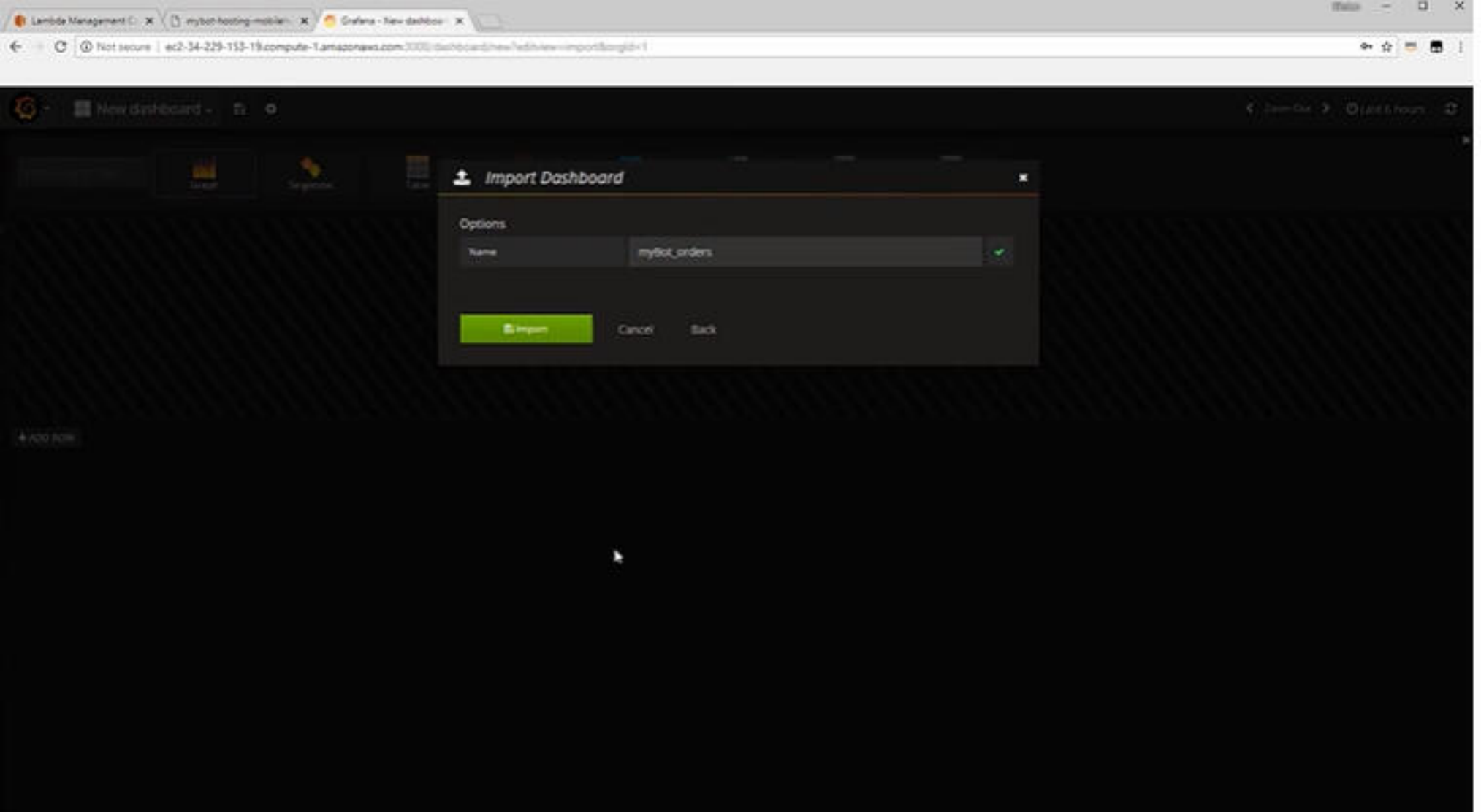
✔ Index OK. Time field name OK.

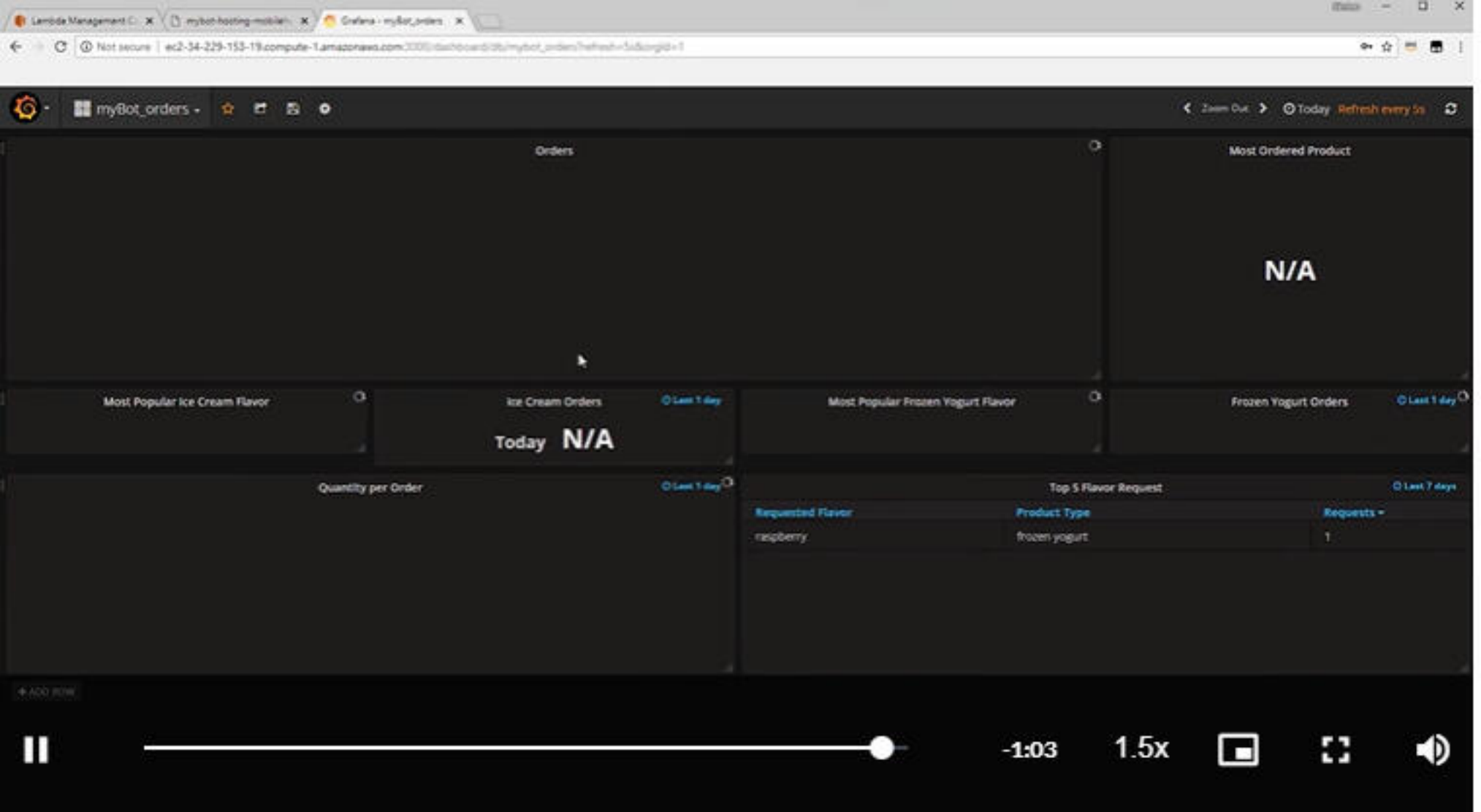

Lambda Management C...
mybot-hosting-mobilen...
Grafana - New dashboa...
Not secure
ec2-34-229-153-19.compute-1.amazonaws.com:3000/dashboard/new?editview=importBoardId=1
New dashboard
Last 6 hours
Import Dashboard
Upload .json File
Grafana.com Dashboard
Or paste JSON
Load
+ ADD ROW

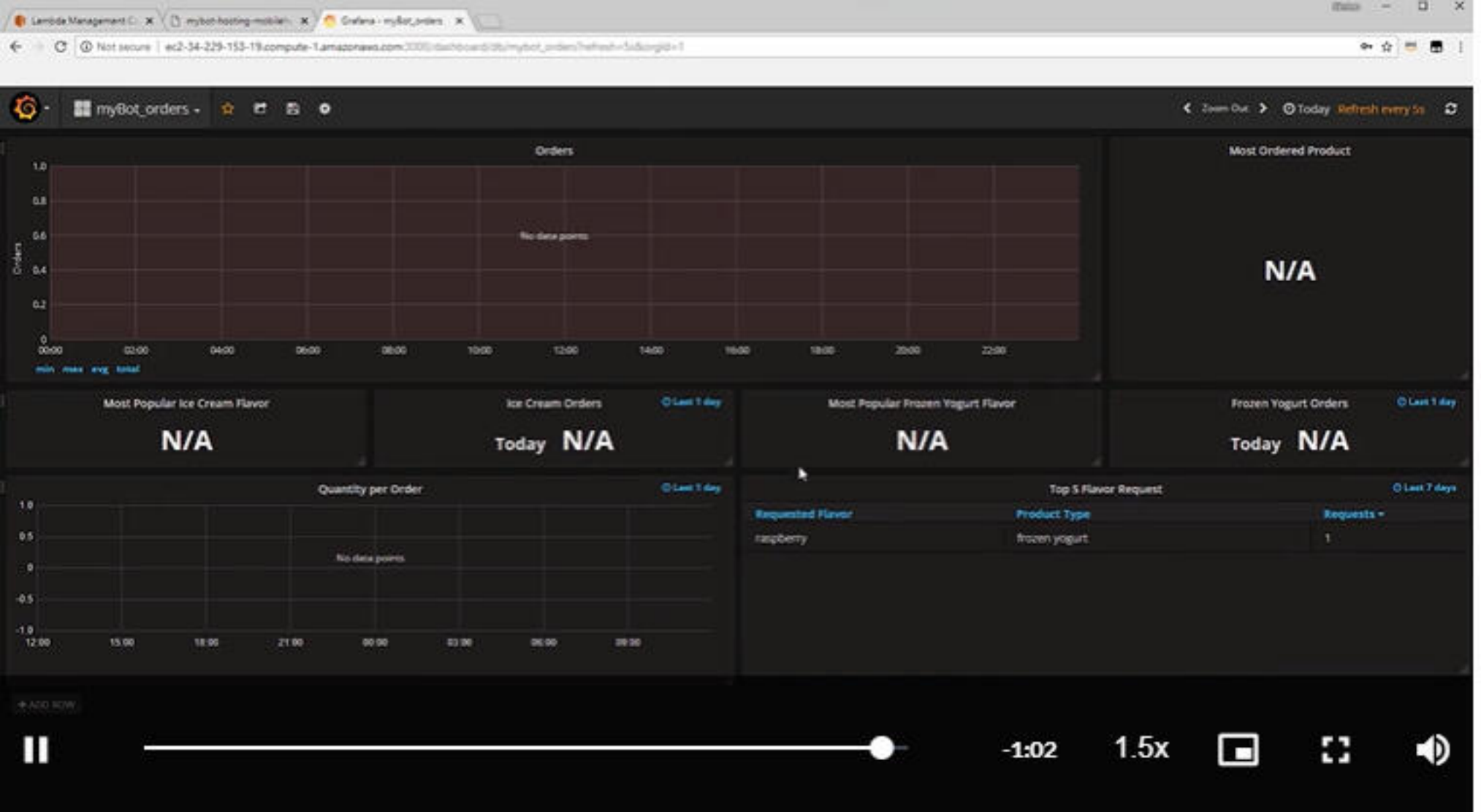

Open
This PC › Downloads ›
Search Downloads
Organize
New folder
Quick access
Creative Cloud F
Downloads
Desktop
Documents
Pictures
AWS Miscellaneous
Building A Dynamic
Data KCs
Math KCs
OneDrive
This PC
Network
grafana_dashboard.json
lab2-lambda-bot-backend
lab3-lambda-es-update (1)
lab3-lambda-es-update
lab3-lambda-lex-deployment
File name:
All Files
Open
Cancel

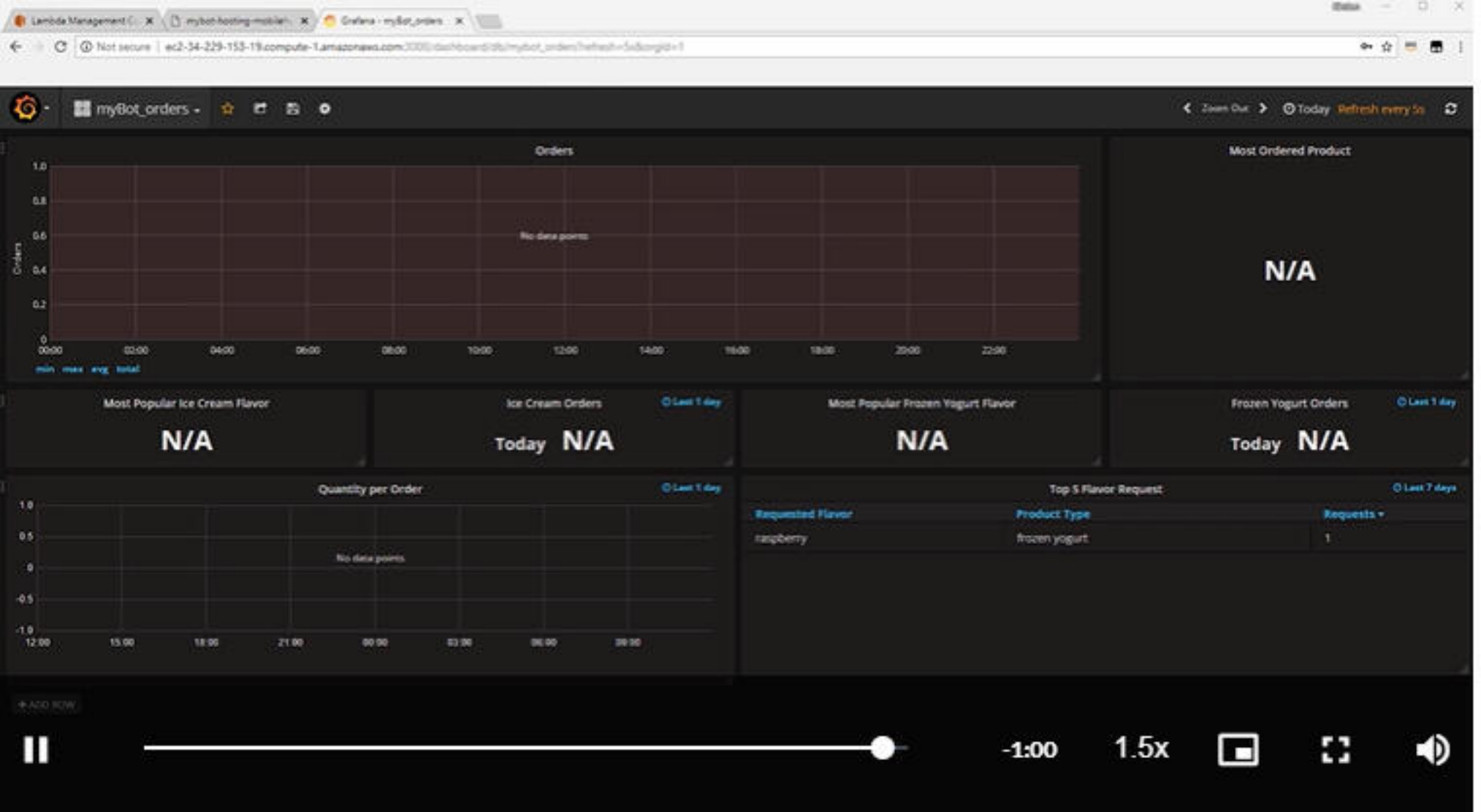

Open
This PC › Downloads ›
Search Downloads
Organize
New folder
Quick access
Creative Cloud F
Downloads
Desktop
Documents
Pictures
AWS Miscellaneous
Building A Dynamic
Data ICs
Math ICs
OneDrive
This PC
Network
grafana_dashboard.json
lab2-lambda-bot-backend
lab3-lambda-es-update (1)
lab3-lambda-es-update
lab3-lambda-lex-deployment
File name:
grafana_dashboard.json
All Files
Open
Cancel

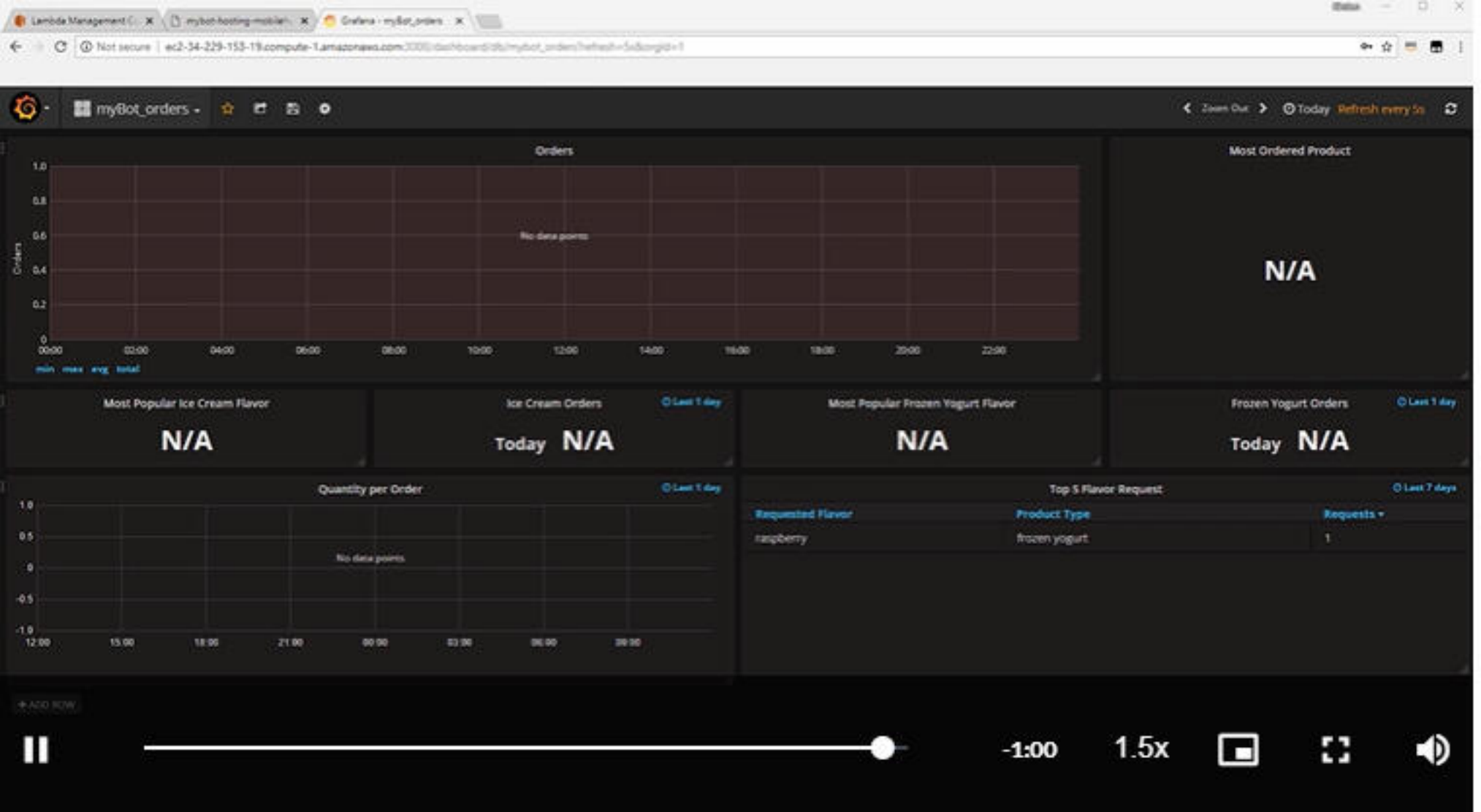

Open
This PC › Downloads ›
Search Downloads
Organize
New folder
Quick access
Creative Cloud F
Downloads
Desktop
Documents
Pictures
AWS Miscellaneous
Building A Dynamic
Data KCs
Math KCs
OneDrive
This PC
Network
grafana_dashboard.json
lab2-lambda-bot-backend
lab3-lambda-es-update (1)
lab3-lambda-es-update
lab3-lambda-lex-deployment
File name:
grafana_dashboard.json
All Files
Open
Cancel
Last 6 hours

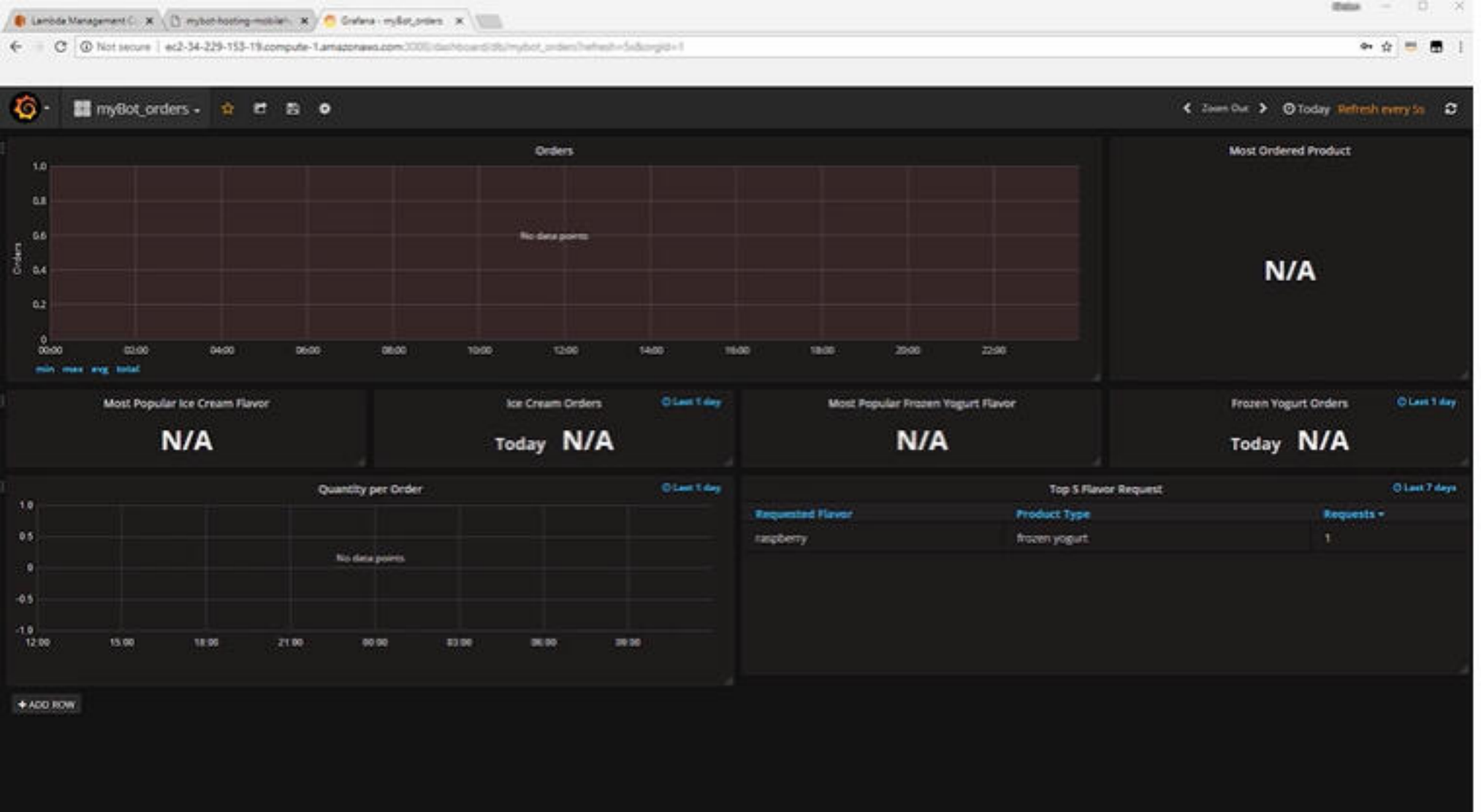

Lambda Management C
mybot-hosting-mobilen
Grafana - New dashboa
Not secure
ec2-34-229-153-19.compute-1.amazonaws.com
New dashboard
Import Dashboard
Options
Name
myBot_orders
Import
Cancel
Back

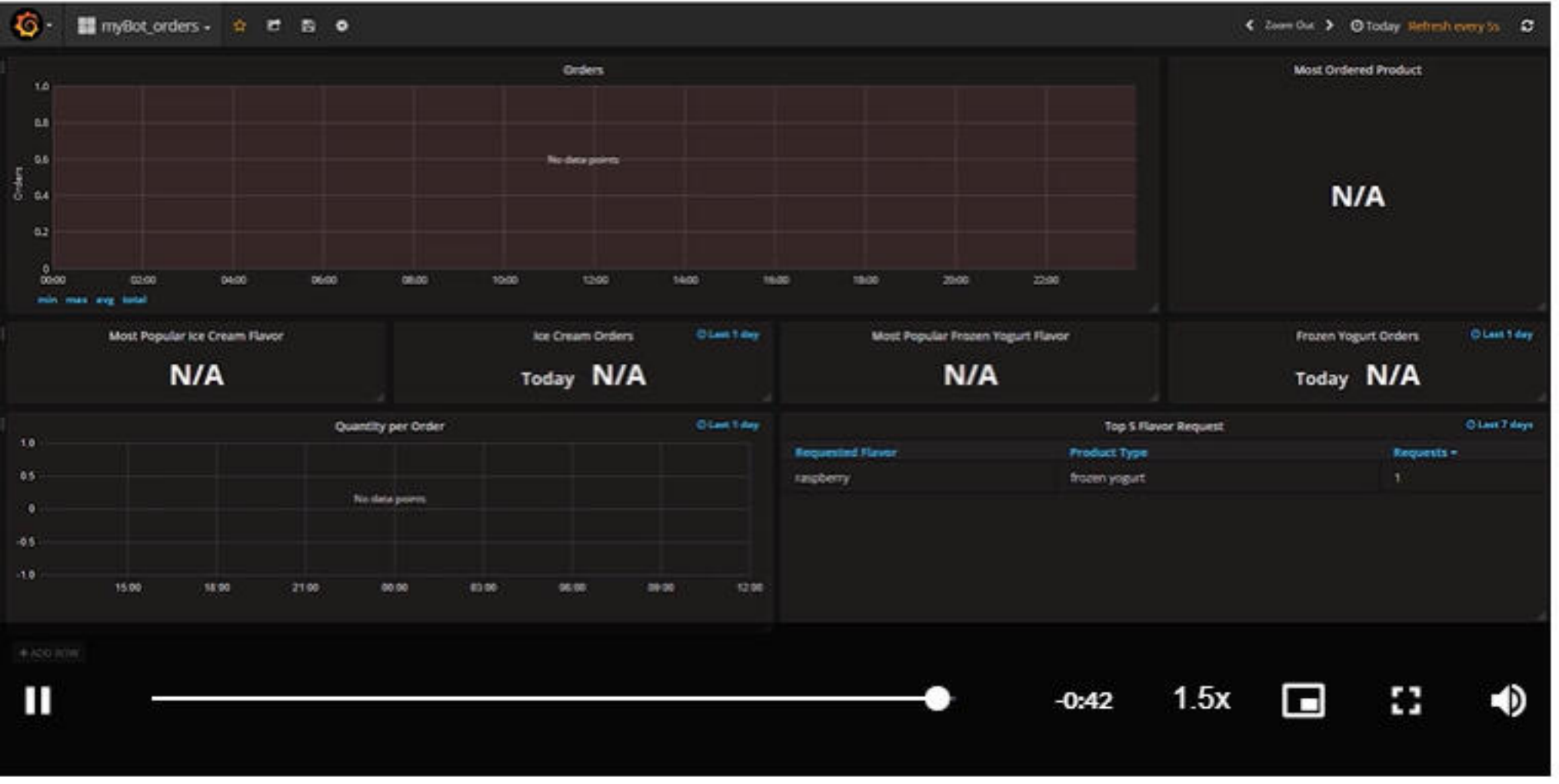

Lambda Management C...
mybot-hosting-mobile/...
Grafana - myBot_orders
Not secure
ec2-34-229-153-19.compute-1.amazonaws.com:3000/dashboard/db/mybot_orders?refresh=5s&orgId=1
myBot_orders
Zoom Out
Today
Refresh every 5s
Orders
Most Ordered Product
N/A
Most Popular Ice Cream Flavor
Ice Cream Orders
Last 1 day
Today
N/A
Most Popular Frozen Yogurt Flavor
Frozen Yogurt Orders
Last 1 day
Quantity per Order
Last 1 day
Top 5 Flavor Request
Last 7 days
Requested Flavor
Product Type
Requests
raspberry
frozen yogurt
1
+ ADD ROW
-1:03
1.5x

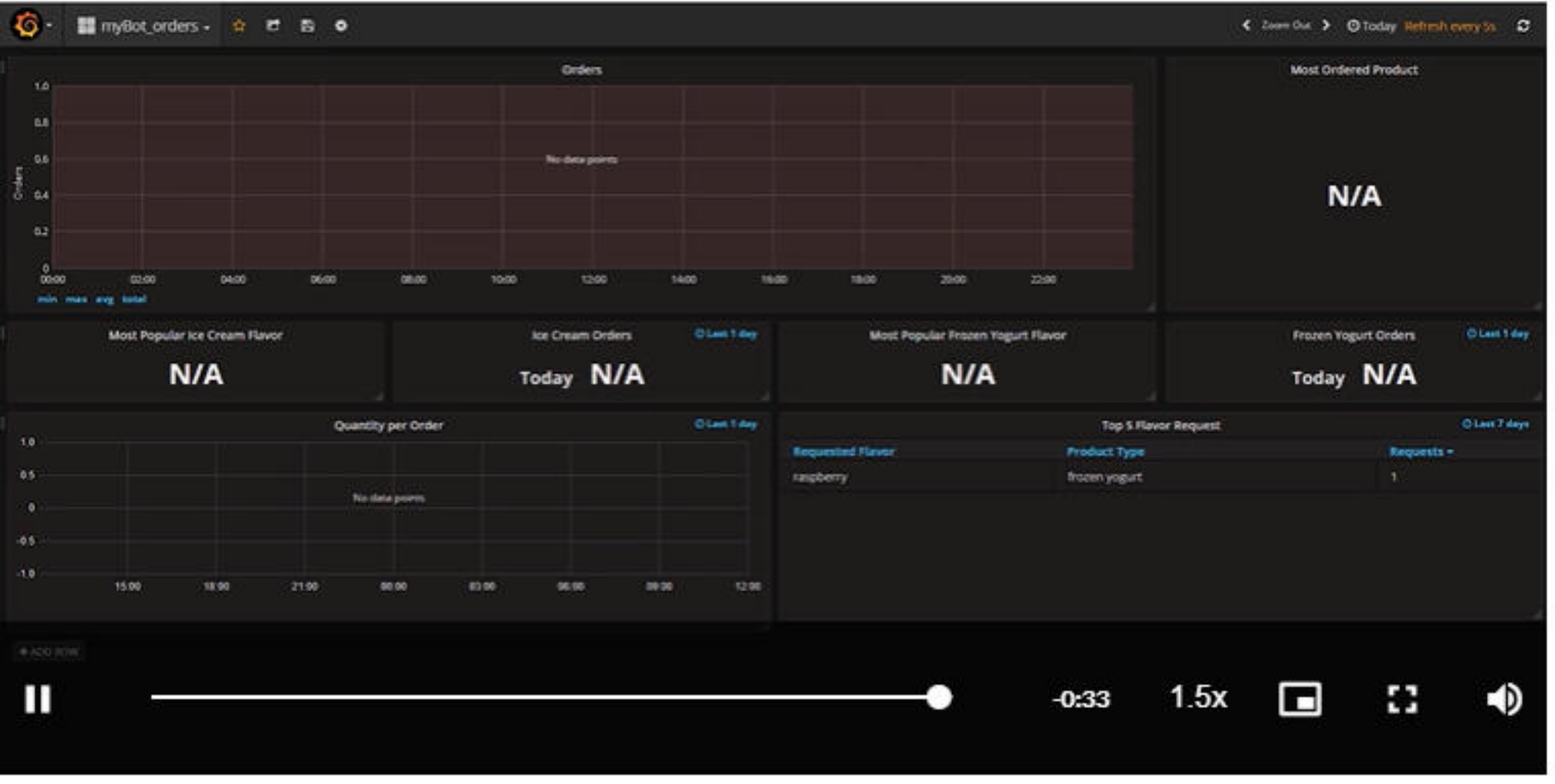

myBot_orders
Today
Refresh every 5s
Orders
No data points
Orders
min max avg total
Most Ordered Product
N/A
Most Popular Ice Cream Flavor
N/A
Ice Cream Orders
Last 1 day
Today N/A
Most Popular Frozen Yogurt Flavor
N/A
Frozen Yogurt Orders
Last 1 day
Today N/A
Quantity per Order
Last 1 day
No data points
Top 5 Flavor Request
Last 7 days
Requested Flavor
Product Type
Requests
raspberry
frozen yogurt
1
-1:02
1.5x


myBot_orders
Today
Refresh every 5s
Orders
No data points
Most Ordered Product
N/A
Most Popular Ice Cream Flavor
N/A
Ice Cream Orders
Last 1 day
Today N/A
Most Popular Frozen Yogurt Flavor
N/A
Frozen Yogurt Orders
Last 1 day
Today N/A
Quantity per Order
Last 1 day
No data points
Top 5 Flavor Request
Last 7 days
Requested Flavor
Product Type
Requests
raspberry
frozen yogurt
1
-1:00
1.5x


myBot_orders
Today
Refresh every 5s
Orders
No data points
Most Ordered Product
N/A
Most Popular Ice Cream Flavor
N/A
Ice Cream Orders
Last 1 day
Today N/A
Most Popular Frozen Yogurt Flavor
N/A
Frozen Yogurt Orders
Last 1 day
Today N/A
Quantity per Order
Last 1 day
No data points
Top 5 Flavor Request
Last 7 days
Requested Flavor
Product Type
Requests
raspberry
frozen yogurt
1
-1:00
1.5x


myBot_orders
Today
Refresh every 5s
Orders
No data points
Orders
min max avg total
Most Ordered Product
N/A
Most Popular Ice Cream Flavor
N/A
Ice Cream Orders
Last 1 day
Today N/A
Most Popular Frozen Yogurt Flavor
N/A
Frozen Yogurt Orders
Last 1 day
Today N/A
Quantity per Order
Last 1 day
No data points
Top 5 Flavor Request
Last 7 days
Requested Flavor
Product Type
Requests
raspberry
frozen yogurt
1
+ ADD ROW


myBot_orders
Today
Orders
No data points
Most Ordered Product
N/A
Most Popular Ice Cream Flavor
N/A
Ice Cream Orders
Today N/A
Most Popular Frozen Yogurt Flavor
N/A
Frozen Yogurt Orders
Today N/A
Quantity per Order
No data points
Top 5 Flavor Request
Requested Flavor
Product Type
Requests
raspberry
frozen yogurt
1
-0:42
1.5x


myBot_orders
Today
Orders
No data points
Most Ordered Product
N/A
Most Popular Ice Cream Flavor
N/A
Ice Cream Orders
Today N/A
Most Popular Frozen Yogurt Flavor
N/A
Frozen Yogurt Orders
Today N/A
Quantity per Order
No data points
Top 5 Flavor Request
Requested Flavor
Product Type
Requests
raspberry
frozen yogurt
1
-0:33
1.5x

Course Takeaways

aws training and certification

- Chatbots can be used to enhance user experience.
  - This experience should be built using engaging interactions with the users.
- Chatbots should adapt to change.
  - This adaptation should be automated and decoupled from the source of change.
- Chatbots must be appropriately deployed, secured, and monitored.
- Chatbots can provide insight about what users want.
- AWS provides services to achieve all of these goals in a secure and scalable manner.

-0:36 2x

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