

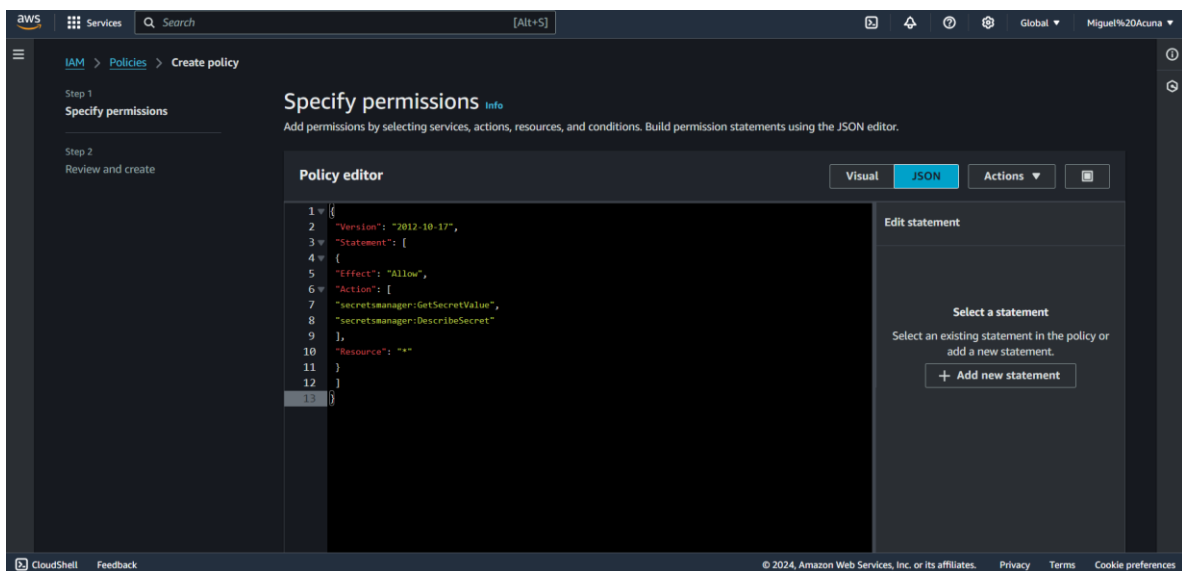
PRACTICA SERVICIOS DE ANALÍTICA

By: Miguel Angel Acuña Reyes

1. Crear la política en IAM

Con el sig code de JSON:

```
{  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Effect": "Allow",  
      "Action": [  
        "secretsmanager:GetSecretValue",  
        "secretsmanager:DescribeSecret"  
      ],  
      "Resource": "*"   
    }  
  ]  
}
```



aws

Services

Search

[Alt+S]

Global

Miguel%20Acuna

Maximum 1,000 characters. Use alphanumeric and *+_-@=, characters.

Permissions defined in this policy

info

Edit

Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it

Search

Allow (1 of 421 services)

Show remaining 420 services

Service	Access level	Resource	Request condition
Secrets Manager	Limited: Read	All resources	None

Add tags - optional

info

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel

Previous

Create policy

aws

Services

Search

[Alt+S]

Global

Miguel%20Acuna

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access Analyzer
 - Archive rules
- Analysers
- Settings
- Credential report
- Organization activity

CloudShell

Feedback

Policy SecretsManagerReadOnlyPolicyMiguelAcuna created.

View policy

IAM > Policies

Policies (1232)

info

Actions

Delete

Create policy

A policy is an object in AWS that defines permissions.

Filter by Type

Search miguel

All types

1 match

Policy name	Type	Used as	Description
SecretsManagerReadOnlyPolicyMiguelAcuna	Customer managed	None	-

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

2. Crear rol para la Lambda

The screenshot shows the AWS IAM console 'Create role' page, Step 1: Select trusted entity. The left sidebar shows the navigation menu with 'IAM' > 'Roles' > 'Create role'. The main content area is titled 'Select trusted entity' and includes an 'Info' link. Below the title, there are two sections: 'Trusted entity type' and 'Use case'.

Trusted entity type

- ☒ **AWS service**
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
- ☐ **AWS account**
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
- ☐ **Web identity**
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
- ☐ **SAML 2.0 federation**
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
- ☐ **Custom trust policy**
Create a custom trust policy to enable others to perform actions in this account.

Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Service or use case
Lambda

Choose a use case for the specified service.
Use case
☒ **Lambda**
Allows Lambda functions to call AWS services on your behalf.

Buttons: Cancel, Next

The screenshot shows the AWS IAM console 'Add permissions' page. The left sidebar shows the navigation menu with 'IAM' > 'Roles' > 'Create role'. The main content area is titled 'Add permissions' and includes an 'Info' link. Below the title, there is a section 'Permissions policies (952)' with an 'Info' link and a refresh button. Below this, there is a search bar with the text 'miguel' and a filter dropdown set to 'All types' showing '1 match'. Below the search results, there is a table with columns 'Policy name', 'Type', and 'Description'. The table contains one row: 'SecretsManagerReadOnlyPolicyMiguelAcuna' with Type 'Customer managed' and Description '-'. Below the table, there is a link 'Set permissions boundary - optional'. Buttons: Cancel, Previous, Next.

Permissions policies (952)

Choose one or more policies to attach to your new role.

Filter by Type
miguel All types 1 match

Policy name	Type	Description
SecretsManagerReadOnlyPolicyMiguelAcuna	Customer managed	-

► Set permissions boundary - optional

Buttons: Cancel, Previous, Next

aws

Services

Search

[Alt+S]

Global

Miguel%20Acuna

IAM > Roles > Create role

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Name, review, and create

Role details

Role name

Enter a meaningful name to identify this role.

lambdaSecretsManagerRoleMiguelAcuna

Maximum 64 characters. Use alphanumeric and "+=, @-./" characters.

Description

Add a short explanation for this role.

Allows Lambda functions to call AWS services on your behalf.

Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: "-=, @-./()!#\$%&*{}~:~'<>".

Step 1: Select trusted entities

Edit

Trust policy

```
1- {
2-   "Version": "2012-10-17",
3-   "Statement": [
4-     {
5-       "Effect": "Allow",
6-       "Action": [
7-         "sts:AssumeRole"
8-       ],
9-       "Principal": {
10-        "Service": [
11-          "lambda.amazonaws.com"
12-        ]
13-      }
14-    }
15-  ]
16- }
```

Step 2: Add permissions

Edit

Permissions policy summary

Policy name	Type	Attached as
AWSLambdaBasicExecutionRole	AWS managed	Permissions policy
SecretsManagerReadOnlyPolicyMiguelAcuna	Customer managed	Permissions policy

Step 3: Add tags

Add tags - optional

Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel

Previous

Create role

CloudShell

Feedback

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

3. Crear el secreto en Secrets Manager. (Secrets Manager -> Secrets -> store a new secret -> other type of secrets)

The screenshot shows the AWS Secrets Manager console with the 'Store a new secret' wizard open. The left sidebar shows the navigation menu with 'Secrets' selected. The main content area is titled 'Choose secret type' and includes a progress indicator on the left showing four steps: 'Choose secret type' (Step 1), 'Configure secret' (Step 2), 'Configure rotation' (Step 3 - optional), and 'Review' (Step 4). The 'Secret type' section has four radio button options: 'Credentials for Amazon RDS database', 'Credentials for Amazon DocumentDB database', 'Credentials for Amazon Redshift data warehouse', and 'Other type of secret' (which is selected). Below this is the 'Key/value pairs' section with a 'Key/value' tab selected, showing two empty input fields and an '+ Add row' button. The 'Encryption key' section is partially visible at the bottom.

- Antes de agregar el valor de api_key debemos registrarnos en numverify.com

The screenshot shows the 'Configure secret' step of the AWS Secrets Manager wizard. The 'Secret type' section remains the same with 'Other type of secret' selected. The 'Key/value pairs' section now has the 'Key/value' tab selected, and the first input field is labeled 'api_key' with a corresponding value '6c2fd6f3f74dcd2913b26556ac4589ca' entered in the second field. The 'Encryption key' section is now fully visible, showing a dropdown menu with 'aws/secretsmanager' selected and a refresh button. At the bottom right, there are 'Cancel' and 'Next' buttons.

aws

Services

Search

[Alt+S]

Ohio

Miguel%20Acuna

Step 1

Choose secret type

Step 2

Configure secret

Step 3 - optional

Configure rotation

Step 4

Review

Configure secret

Secret name and description

Secret name

A descriptive name that helps you find your secret later.

ApiNumberVerifyMiguelAcuna

Secret name must contain only alphanumeric characters and the characters /_+=.@-

Description - optional

Access to MySQL prod database for my AppBeta

Maximum 250 characters.

Tags - optional

Key

Name

Value - optional

ApiNumberVerifyMiguelAcuna

Remove

Add

Resource permissions - optional

Add or edit a resource policy to access secrets across AWS accounts.

Edit permissions

Replicate secret - optional

Create read-only replicas of your secret in other Regions. Replica secrets incur a charge.

Cancel

Previous

Next

CloudShell

Feedback

© 2024, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Services

Search

[Alt+S]

Ohio

Miguel%20Acuna

Step 1

Choose secret type

Step 2

Configure secret

Step 3 - optional

Configure rotation

Step 4

Review

Configure rotation - optional

Configure automatic rotation

Configure AWS Secrets Manager to rotate this secret automatically.

Automatic rotation

Rotation schedule

Schedule expression builder

Schedule expression

Time unit

Hours

Hours

2.5

Window duration - optional

4h

Enter the time in hours.

Rotate immediately when the secret is stored. The next rotation will begin on your schedule.

Rotation function

Lambda rotation function

Choose a Lambda function that can rotate this secret.

Lambda rotation function

Create function

Cancel

Previous

Next

CloudShell

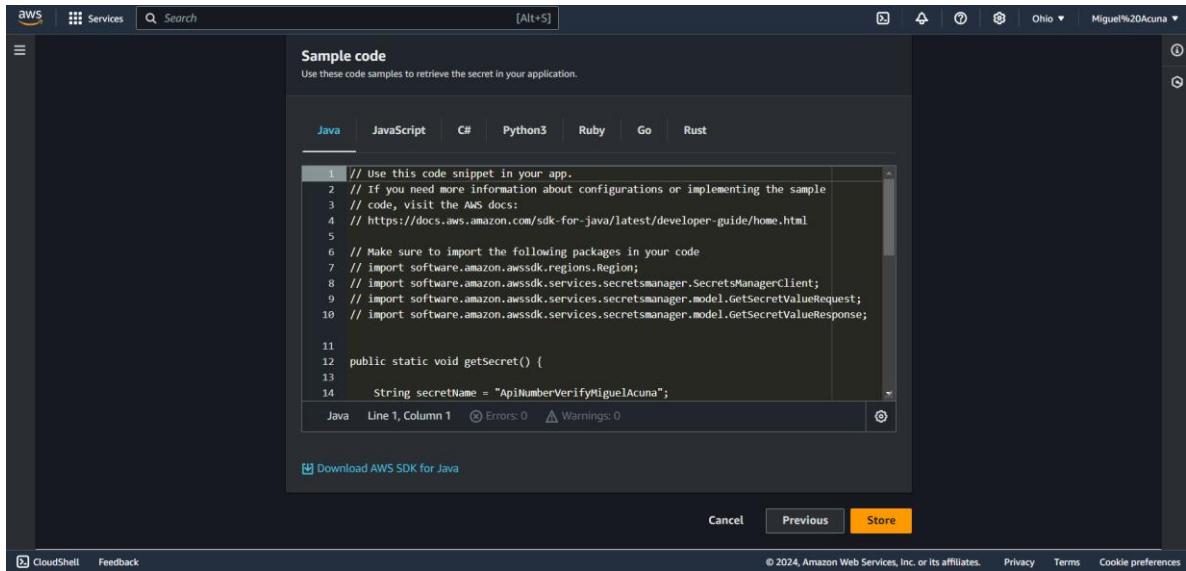
Feedback

© 2024, Amazon Web Services, Inc. or its affiliates.

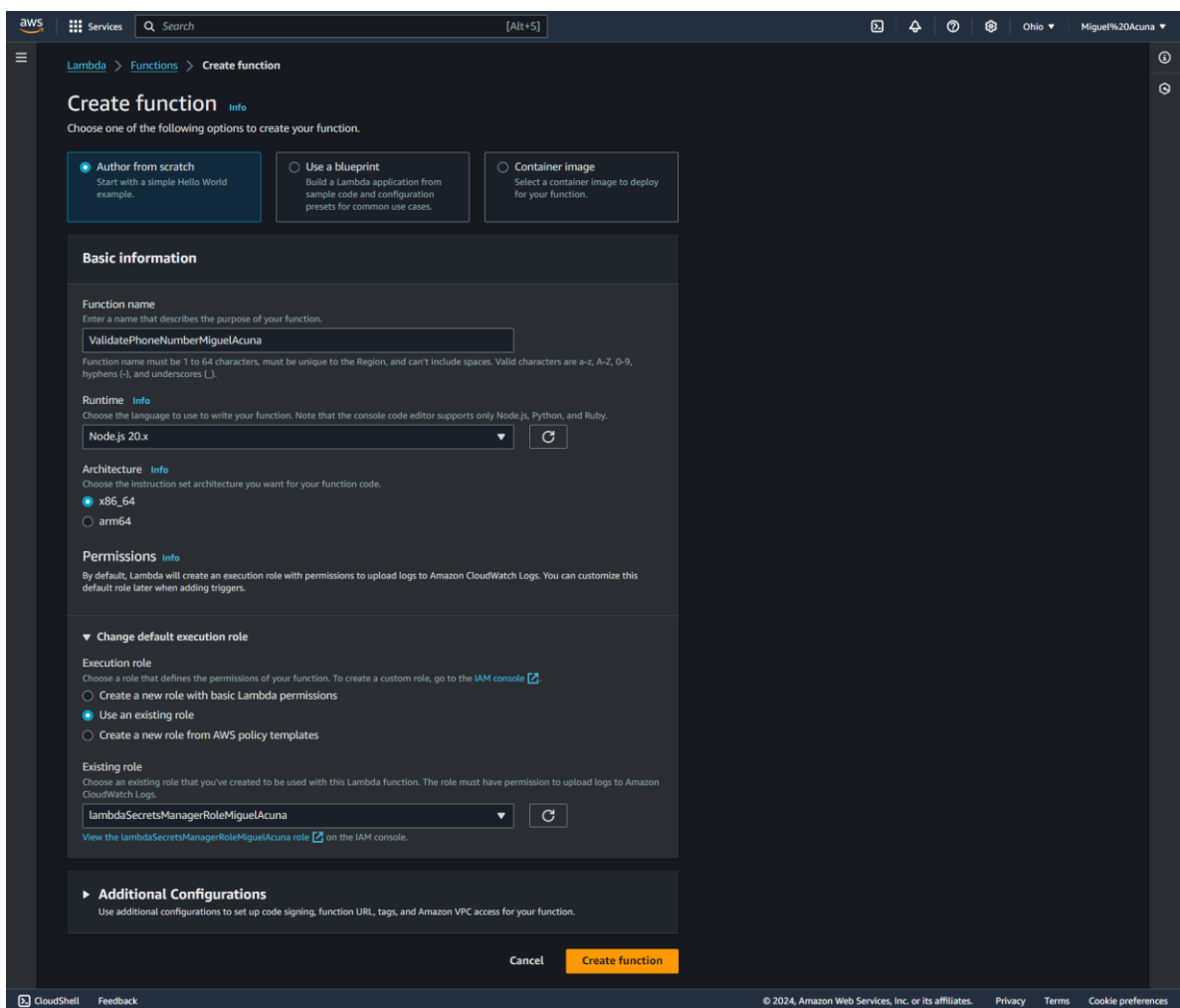
Privacy

Terms

Cookie preferences



4. Crear la función Lambda



aws

Services

Search

[Alt+S]

Ohio

Miguel%20Acuna

Successfully created the function `ValidatePhoneNumberMiguelAcuna`. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

Lambda > Functions > ValidatePhoneNumberMiguelAcuna

ValidatePhoneNumberMiguelAcuna

ThrottleCopy ARNActions

Function overviewInfo

Export to Application ComposerDownload

DiagramTemplate

ValidatePhoneNumberMiguelAcuna

Layers (0)

+ Add trigger+ Add destination

Description

-

Last modified1 minute ago

Function ARNarn:aws:lambda:us-east-2:211125773242:function:ValidatePhoneNumberMiguelAcuna

Function URLInfo

CodeTestMonitorConfigurationAliasesVersions

Code sourceInfo

Upload from

You are using the new console editor.

Give feedbackSwitch to the old editor

EXPLORER

JS index.mjs

```
1 export const handler = async (event) => {
2   // TODO implement
3   const response = {
4     statusCode: 200,
5     body: JSON.stringify('Hello from Lambda!'),
6   };
7   return response;
8 }
9
```

DEPLOY

Deploy

ENVIRONMENT VARIABLES

You haven't configured any environment variables.

Add environment variables

TEST EVENTS

You haven't created any test events.

Create test event

Code propertiesInfo

Package size295 byte

SHA256 hashq8E7Nexf5xxhKT9/d4bGpAYOXJYFAUJJOUDj8OivK8E=

Last modified56 seconds ago

Runtime settingsInfo

EditEdit runtime management configuration

RuntimeNode.js 20.x

HandlerInfoindex.handler

ArchitectureInfox86_64

Runtime management configuration

LayersInfo

EditAdd a layer

Merge order	Name	Layer version	Compatible runtimes	Compatible architectures	Version ARN
There is no data to display.					

CloudShellFeedback

© 2024, Amazon Web Services, Inc. or its affiliates. PrivacyTermsCookie preferences

Pegamos el Sig code en index.mjs

```
import { SecretsManagerClient, GetSecretValueCommand } from "@aws-
sdk/client-secrets-manager"; // Importa solo lo necesario
const client = new SecretsManagerClient({ region: "us-east-2" }); //
verificar la region Ohio en este caso

export const handler = async (event) => {
  const secretName = 'ApiNumberVerifyMiguelAcuna';
  console.log('Attempting to retrieve API secret');
  try {
    // Obtener la clave de API de Secrets Manager
    const command = new GetSecretValueCommand({ SecretId: secretName });
    const data = await client.send(command);
    console.log('API secret retrieved successfully');
    const secret = JSON.parse(data.SecretString);
    const accessKey = secret.api_key;

    // Extraer parámetros dinámicos del evento
    const phoneNumber = event.phoneNumber || "14158586273";
    const countryCode = event.countryCode || "";
    const formatParam = event.formatParam || 1;

    // Construir la URL de la API
    const apiUrl =
`http://apilayer.net/api/validate?access_key=${accessKey}&number=${phoneNumb
er}&country_code=${countryCode}&format=${formatParam}`;

    // Realizar la solicitud HTTP usando fetch
    const response = await fetch(apiUrl);
    const result = await response.json();
    console.log('API request successfully');

    // Devolver la respuesta en formato JSON
    return {
      statusCode: 200,
      body: JSON.stringify(result),
    };
  } catch (err) {
    console.error(`Error: ${err.message}`);
    return {
      statusCode: 500,
      body: JSON.stringify({ error: err.message }),
    };
  }
};
```

Services

Search

[Alt+S]

Ohio

Miguel%20Acuna

Successfully updated the function ValidatePhoneNumberMiguelAcuna.

Lambda > Functions > ValidatePhoneNumberMiguelAcuna

ValidatePhoneNumberMiguelAcuna

ThrottleCopy ARNActions

Function overview

DiagramTemplate

ValidatePhoneNumberMiguelAcuna

Layers (0)

+ Add trigger+ Add destination

Description

Last modified19 seconds ago

Function ARNarnaws:lambda:us-east-2:211125773242:function:ValidatePhoneNumberMiguelAcuna

Function URL

CodeTestMonitorConfigurationAliasesVersions

Code source

Upload from

You are using the new console editor.

Give feedbackSwitch to the old editor

EXPLORER

index.mjs

index.mjs > handler

```
4 export const handler = async (event) => {
5   const secretName = 'ApiNumberVerifyMiguelAcuna';
6   console.log('Attempting to retrieve API secret');
7   try {
8     // Obtener la clave de API de Secrets Manager
9     const command = new GetSecretValueCommand({ SecretId: secretName });
10    const data = await client.send(command);
11    console.log('API secret retrieved successfully');
12    const secret = JSON.parse(data.SecretString);
13    const accessKey = secret.api_key;
14
15    // Extraer parámetros dinámicos del evento
16    const phoneNumber = event.phoneNumber || '14158586273';
17    const countryCode = event.countryCode || '';
18    const formatParam = event.formatParam || 'i';
19
20    // Construir la URL de la API
21    const apiUrl = `http://apilayer.net/api/validate?access_key=${accessKey}&number=${phoneNumber}&country_code=${countryCode}&format=${formatParam}`;
22
23    // Realizar la solicitud HTTP usando fetch
24    const response = await fetch(apiUrl);
25    const result = await response.json();
26    console.log('API request successfully');
27
28    // Devolver la respuesta en formato JSON
```

DEPLOY

ENVIRONMENT VARIABLES

TEST EVENTS

Code properties

Package size850 byte

SHA256 hash9Vo0zjvr70ugefF3EBfGzVghW209H6L1/MUD9NDWno=

Last modified26 seconds ago

Runtime settings

RuntimeNode.js 20.x

Handlerindex.handler

Architecturex86_64

Runtime management configuration

Layers

Layers table

There is no data to display.

CloudShellFeedback© 2024, Amazon Web Services, Inc. or its affiliates. PrivacyTermsCookie preferences

- Crear evento en Test, y poner el sig code

```
{  
  "phoneNumber": "3193287727",  
  "countryCode": "CO"  
}
```

The screenshot displays the AWS Lambda console interface for the function `ValidatePhoneNumberMiguelAcuna`. The top navigation bar includes the AWS logo, 'Services', a search bar, and the user's profile 'Miguel%20Acuna'. The breadcrumb trail shows 'Lambda > Functions > ValidatePhoneNumberMiguelAcuna'. The function's name is prominently displayed at the top, along with buttons for 'Throttle', 'Copy ARN', and 'Actions'. Below this, the 'Function overview' section provides details about the function, including its description, last modified time (5 minutes ago), and its ARN. The 'Test' tab is selected, showing the 'Test event' configuration. This section includes a 'Test event action' dropdown set to 'Create new event', an 'Event name' field containing 'TestEventMiguelAcuna', and 'Event sharing settings' set to 'Private'. The 'Event JSON' field is pre-filled with a JSON object: `{ "phoneNumber": "3193287727", "countryCode": "CO" }`. The bottom of the console shows the 'CloudShell' icon, a 'Feedback' link, and the copyright notice '© 2024, Amazon Web Services, Inc. or its affiliates.' along with links for 'Privacy', 'Terms', and 'Cookie preferences'.

Executing function: succeeded (logs)

Details

The area below shows the last 4 KB of the execution log.

```
{
  "statusCode": 200,
  "body": {
    "isValid": true, "number": "573193287727", "local_format": "MX, 84003193287727", "international_format": "573193287727", "country_prefix": "57", "country_code": "CO", "country_name": "Colombia (Republic of)", "location": "", "carrier": "Colombia Telecomunicaciones SA ESP", "line_type": "mobile"
  }
}
```

Summary

Code SHA-256
9VoQjw70ugefF3EBfGvGhW209j6L1/MUD9NDWno=

Request ID
22455e48-d32e-4564-bbf0-3a7a1207b1f8

Init duration
334.92 ms

Billed duration
2240 ms

Max memory used
92 MB

Execution time
23 seconds ago

Function version
\$LATEST

Duration
2239.85 ms

Resources configured
128 MB

Log output

The section below shows the logging calls in your code. [Click here](#) to view the corresponding CloudWatch log group.

```
START RequestId: 22455e48-d32e-4564-bbf0-3a7a1207b1f8 Version: $LATEST
2024-10-07T00:43:19.744Z    22455e48-d32e-4564-bbf0-3a7a1207b1f8    INFO    Attempting to retrieve API secret
2024-10-07T00:43:20.785Z    22455e48-d32e-4564-bbf0-3a7a1207b1f8    INFO    API secret retrieved successfully
2024-10-07T00:43:21.763Z    22455e48-d32e-4564-bbf0-3a7a1207b1f8    INFO    API request successfully
END RequestId: 22455e48-d32e-4564-bbf0-3a7a1207b1f8
REPORT RequestId: 22455e48-d32e-4564-bbf0-3a7a1207b1f8 Duration: 2239.85 ms Billed Duration: 2240 ms Memory Size: 128 MB Max Memory Used: 92 MB Init Duration: 334.92 ms
```

5. Verificación de log en CloudWatch

CloudWatch > Log groups > /aws/lambda/ValidatePhoneNumberMiguelAcuna > 2024/10/07/[\$LATEST]6f5cda3315da49d594652ebdb9f1648e

Log events

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

Filter events - press enter to search

Clear 1m 30m 1h 12h Custom UTC timezone Display

Timestamp	Message
No older events at this moment. Retry	
2024-10-07T00:43:19.405Z	INIT_START Runtime Version: nodejs:20.v39 Runtime Version ARN: arn:aws:lambda:us-east-2::runtime:ad9b28ae231dfc4c3325e183024...
2024-10-07T00:43:19.742Z	START RequestId: 22455e48-d32e-4564-bbf0-3a7a1207b1f8 Version: \$LATEST
2024-10-07T00:43:19.744Z	2024-10-07T00:43:19.744Z 22455e48-d32e-4564-bbf0-3a7a1207b1f8 INFO Attempting to retrieve API secret
2024-10-07T00:43:20.785Z	2024-10-07T00:43:20.785Z 22455e48-d32e-4564-bbf0-3a7a1207b1f8 INFO API secret retrieved successfully
2024-10-07T00:43:21.763Z	2024-10-07T00:43:21.763Z 22455e48-d32e-4564-bbf0-3a7a1207b1f8 INFO API request successfully
2024-10-07T00:43:21.983Z	END RequestId: 22455e48-d32e-4564-bbf0-3a7a1207b1f8
2024-10-07T00:43:21.983Z	REPORT RequestId: 22455e48-d32e-4564-bbf0-3a7a1207b1f8 Duration: 2239.85 ms Billed Duration: 2240 ms Memory Size: 128 MB Max...
No newer events at this moment. Auto retry paused. Resume	

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences