

Nos vamos a Lambda y creamos una nueva funcion.

[Lambda](#) > [Functions](#) > [Create function](#)

Create function [Info](#)

AWS Serverless Application Repository applications have moved to [Create function](#)

Author from scratch

Start with a simple Hello World example.

Basic information

Function name

Enter a name that describes the purpose of your function.

Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime [Info](#)

Choose the language to use to write your function. Note that the console code

Architecture [Info](#)

Choose the instruction set architecture you want for your function code.

☒ x86_64


☐ arm64

▼ Change default execution role

Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

- ☒ Create a new role with basic Lambda permissions
- ☐ Use an existing role
- ☐ Create a new role from AWS policy templates

 Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions

Lambda will create an execution role named `pjsanchez-start-ec2-role-1df3muxj`, with permission to upload l

▼ Advanced settings

☐ **Enable Code signing** [Info](#)

Use code signing configurations to ensure that the code has been signed by an approved source and has not been altered since

☐ **Enable function URL** [Info](#)

Use function URLs to assign HTTP(S) endpoints to your Lambda function.

☒ **Enable tags** [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search

Key

Value - *optional*

Add new tag

Luego editamos el tema del Timeout entrando ya en la función, le damos de 3 a 10 segundos.

Code

Test

Monitor

Configuration

Aliases

Versions

General configuration

Triggers

Permissions

Destinations

Function URL

Environment variables

General configuration [Info](#)

Edit

Description	Memory	Ephemeral storage
-	128 MB	512 MB
Timeout	SnapStart Info	
0 min 10 sec	None	

Basic settings [Info](#)

Description - *optional*

Memory [Info](#)

Your function is allocated CPU proportional to the memory configured.

 MB

Set memory to between 128 MB and 10240 MB

Ephemeral storage [Info](#)

You can configure up to 10 GB of ephemeral storage (/tmp) for your function. [View pricing](#)

 MB

Set ephemeral storage (/tmp) to between 512 MB and 10240 MB.

SnapStart [Info](#)

Reduce startup time by having Lambda cache a snapshot of your function after the function has initialized. To evaluate whether your function code is resilient to snapshot operations, review the [SnapStart compatibility considerations](#).

None

Supported runtimes: Java 11 (Corretto).

Timeout

 min sec

Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

- ☒ Use an existing role
- ☐ Create a new role from AWS policy templates

Existing role

Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

service-role/pjsanchez-frankfurt-role-zwbvgbm6

[View the pjsanchez-frankfurt-role-zwbvgbm6 role](#) on the IAM console.

Cancel

Save

Ahora vamos a tocar el tema de los permisos:

Code

Test

Monitor

Configuration

Aliases

Versions

General configuration

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

VPC


Monitoring and operations

Execution role

Role name

[pjsanchez-frankfurt-role-zwbvgbm6](#)

Resource summary

 **Amazon CloudWatch Logs**
3 actions, 2 resources

To view the resources and actions that your function has permissions to perform, click on the resource name.

[By action](#) | [By resource](#)


pjsanchez-frankfurt-role-zwbvgbm6

Delete

Summary

Edit

Creation date
February 07, 2023, 08:44 (UTC+01:00)

Last activity
 48 minutes ago

ARN
[arn:aws:iam::006921246751:role/service-role/pjsanchez-frankfurt-role-zwbvgbm6](#)
Maximum session duration
1 hour

Permissions

Trust relationships


Tags (2)


Access Advisor

Revoke sessions

Permissions policies (1) [Info](#)

You can attach up to 10 managed policies.

< 1 > 

<input type="checkbox"/>	Policy name ↗	Type	Description
<input type="checkbox"/>	 AWSLambdaBasicExecutionRole-c2c4e4cf-024a-4158-b430-31a2b01bfff0	Customer managed	

Description

Permissions

Policy usage

Tags

Policy versions

Access Advisor

Policy summary

{ } JSON

Edit policy

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": "logs:CreateLogGroup",
7       "Resource": "arn:aws:logs:eu-central-1:006921246751:*"
8     },
9     {
10      "Effect": "Allow",
11      "Action": [
12        "logs:CreateLogStream",
13        "logs:PutLogEvents"
14      ],
15      "Resource": [
16        "arn:aws:logs:eu-central-1:006921246751:log-group:/aws/lambda/pjsanchez-fr"
17      ]
18    }
19  ]
20 }
```

Añadimos lo destacado, teniendo en cuenta la coma por el tema de la sintaxis, y luego, aprovechamos para poner tanto Start como Stop. Abajo le daríamos a Review Policy, y luego a Save Changes.

Visual editor

JSON

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": "logs:CreateLogGroup",
7       "Resource": "arn:aws:logs:eu-central-1:006921246751:*"
8     },
9     {
10      "Effect": "Allow",
11      "Action": [
12        "logs:CreateLogStream",
13        "logs:PutLogEvents"
14      ],
15      "Resource": [
16        "arn:aws:logs:eu-central-1:006921246751:log-group:/aws/lambda/pjsanchez-frankfurt:*"
17      ]
18    },
19     {
20       "Sid": "VisualEditor2",
21       "Effect": "Allow",
22       "Action": [
23         "ec2:StartInstances",
24         "ec2:StopInstances"
25       ],
26       "Resource": "arn:aws:ec2:*:*:instance/*"
27     },
28     {
29       "Effect": "Allow",
30       "Action": "ec2:DescribeInstances",
31       "Resource": "*"
32     }
33  ]
34 }
```

Security: 0 Errors: 0 Warnings: 0 Suggestions: 0

Review policy

Review this policy before you save your changes.

☒ Save as default

Summary

Filter			
Service	Access level	Resource	Request condition
Allow (2 of 365 services) Show remaining 363			
CloudWatch Logs	Limited: Write	Multiple	None
EC2	Limited: List, Write	Multiple	None

* Required

[Cancel](#)

[Previous](#)

[Save changes](#)

También he cambiado el tema de los Tags:

[IAM](#) / [Roles](#) / [pjsanchez-frankfurt-role-zwbvgbm6](#)

pjsanchez-frankfurt-role-zwbvgbm6

Summary

Creation date

February 07, 2023, 08:44 (UTC+01:00)

Last activity

None

ARN

[arn:aws:iam::006921246751:role/service-rc](#)

Maximum session duration

1 hour

[Permissions](#)

[Trust relationships](#)

[Tags \(2\)](#)

[Access Advisor](#)

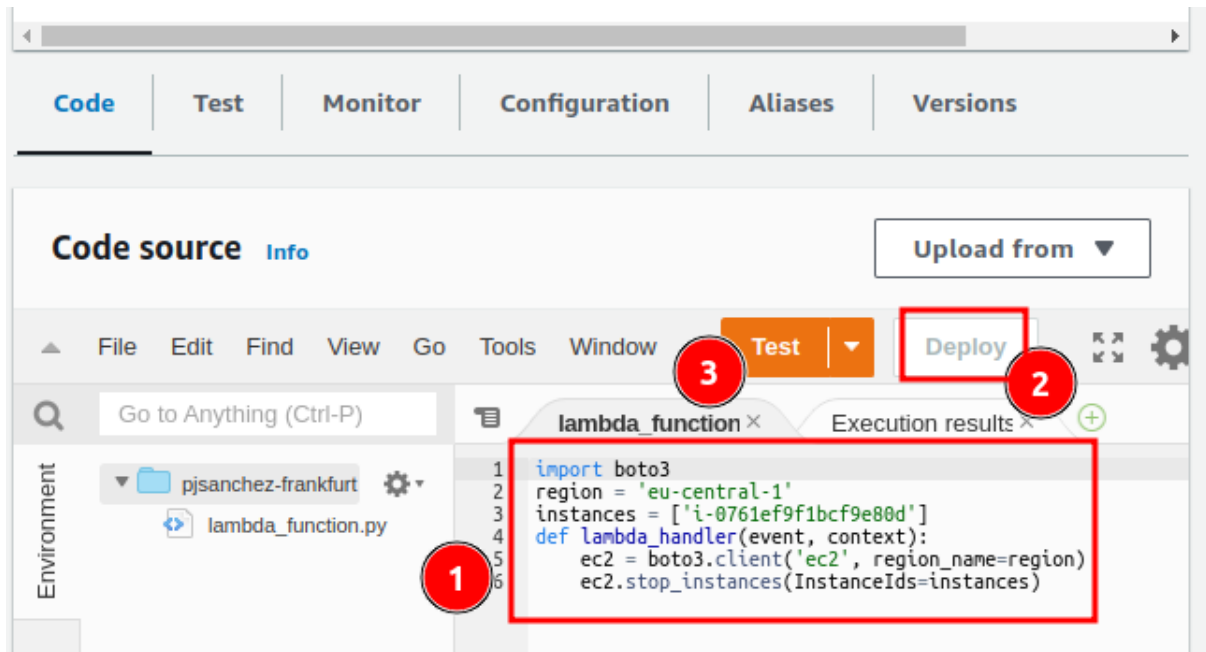
[Revoke sessions](#)

Tags (2) [Info](#)

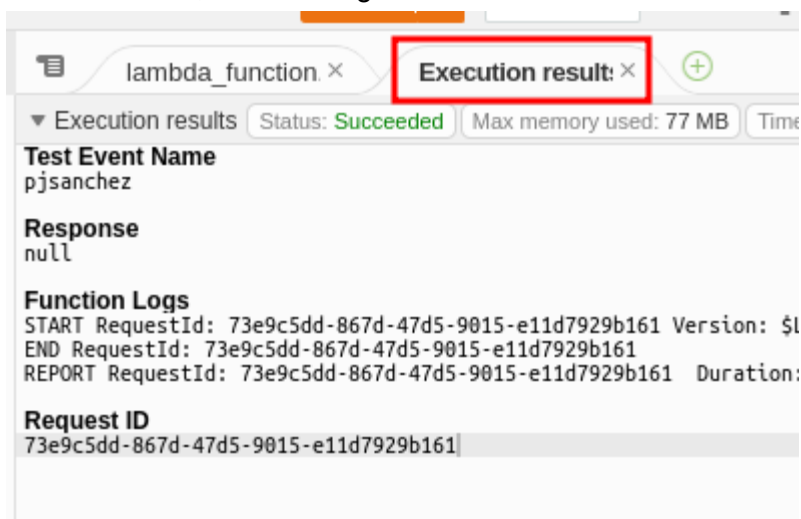
Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

Key	Value
Name	pjsanchez
Nombre	pjsanchez

Una vez terminado, ponemos el código, por ejemplo, para parar la máquina, teniendo en cuenta la region y la instancia que queremos tocar. Luego, tenemos que pulsar en Deploy, y luego Test. Nos pedirá un nombre, y no hay que tocar nada más.



Si todo va bien, veremos algo como esto:



Luego, para hacer la de START, tendremos que generar una nueva función Lambda, pero con la diferencia de que podemos usar el rol que hemos modificado anteriormente.

Permissions [Info](#)

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

▼ Change default execution role

Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).


☐ Create a new role with basic Lambda permissions

☒ Use an existing role

☐ Create a new role from AWS policy templates

Existing role
Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

service-role/pjsanchez-frankfurt-role-zwbvgbm6 ▼



[View the pjsanchez-frankfurt-role-zwbvgbm6 role](#) on the IAM console.

Ahora nos vamos a Amazon Event Bridge para crear el Scheduler.

Pongo capturas de pantalla, pero lo más importante es darse cuenta de que te muestra el horario en que se va a Ejecutar, y que la semana empieza en Domingo, por tanto, lunes a viernes no es 1-5 si no 2-6.

Specify schedule detail

Schedule name and description

Schedule name

pjsanchez-start-ec2-instance

Use only letters, numbers, dashes, dots or underscores. Max 64 characters.

Description - *optional*

Enter description

Maximum of 512 characters.

Schedule group

Each schedule needs to be placed in a schedule group. By default, a schedule is placed in the 'Default' group. You can also [create your own schedule group](#). You can only add tags to a schedule group, not a schedule.

default



Schedule pattern

Occurrence [Info](#)

You can define an one-time or recurrent schedule.

☐ One-time schedule

☒ Recurring schedule

Schedule type

Choose the schedule type that best meets your needs.

☒ Cron-based schedule



A schedule set using a cron expression that runs at a specific time, such as 8:00 a.m. PST on the first Monday of every month.

☐ Rate-based schedule

A schedule that runs at a regular rate, such as every 10 minutes.

Cron expression [Info](#)

Define the cron expression for the schedule

 Copy  Clear

cron ()

Minutes Hours Day of month Month Day of the week Year

Next 10 trigger dates

Date and time are displayed in your current time zone in UTC format, e.g. "Wed, Nov 9, 2022 09:00 (UTC - 08:00)" for Pacific time

Wed, 08 Feb 2023 08:00:00 (UTC +01:00)
Thu, 09 Feb 2023 08:00:00 (UTC +01:00)
Fri, 10 Feb 2023 08:00:00 (UTC +01:00)
Mon, 13 Feb 2023 08:00:00 (UTC +01:00)
Tue, 14 Feb 2023 08:00:00 (UTC +01:00)
Wed, 15 Feb 2023 08:00:00 (UTC +01:00)
Thu, 16 Feb 2023 08:00:00 (UTC +01:00)
Fri, 17 Feb 2023 08:00:00 (UTC +01:00)
Mon, 20 Feb 2023 08:00:00 (UTC +01:00)
Tue, 21 Feb 2023 08:00:00 (UTC +01:00)

Timeframe



Daylight saving time

Amazon EventBridge Scheduler automatically adjusts your schedule for daylight saving time. When time shifts forward in the Spring, if a cron expression falls on a non-existent date, your schedule invocation is skipped. When time shifts backwards in the Fall, your schedule runs only once and does not repeat its invocation. The following invocations occur normally at the specified date and time.

Timezone - *optional*

The timezone for the schedule.

(UTC +01:00) Europe/Madrid ▼

Start date and time - *optional*

The start date and time of the schedule.

YYYY/MM/DD



hh:mm

YYYY/MM/DD

Use 24-hour format timestamp (hh:mm)

End date and time - *optional*

The end date and time of the schedule.

YYYY/MM/DD



hh:mm

YYYY/MM/DD

Use 24-hour format timestamp (hh:mm)

Select target

Target detail

Target **Info**

Select an API that will be invoked as a target for your schedule.

☒ Frequently used APIs

☐ All APIs



CodeBuild



StartBuild



CodePipeline



StartPipelineExecution



Amazon ECS



RunTask



Amazon EventBridge



PutEvents



Amazon Inspector V1



StartAssessmentRun



Kinesis Data Streams



PutRecord



Kinesis Data Firehose



PutRecord



AWS Lambda



Invoke

Invoke

AWS Lambda

Lambda function

pjsanchez-frankfurt-start ▼



Create new Lambda function [↗](#)

► Configure version/alias

Input

JSON object containing the parameters to pass into the API. Contains sample values. Update the JSON with your own values. Note: parameter names must be in PascalCase. [Learn more](#) [↗](#)

1 {}

Settings

Schedule state

Enable schedule

You can choose not to enable the schedule now. You will be able to enable the schedule after the it has been created.

☒ Enable

Retry policy and dead-letter queue (DLQ)

Retry policy [Info](#)

By default, EventBridge Scheduler attempts to retry failed invocations for up to 24 hours. You can specify the maximum age of the event and the maximum number of times to retry.

☒ Retry

Maximum age of event - *optional*

The maximum amount of time to keep unprocessed events. The maximum and default value is 24 hours.

24

hour(s)

0

minute(s)

Permissions [Info](#)

Permissions

EventBridge Scheduler requires permission to send events to the target, and based on the preferences you select, integrate with other AWS services such as AWS KMS and Amazon SQS.

Execution role

☒ Create new role for this schedule

☐ Use existing role

Role name

This is the role name we will be creating on your behalf. You can change the name.

[Go to IAM console](#)

Cancel

Previous

Next

Para el tema de apagarla, pues más de lo mismo, pero cambiando la hora.