

AWS-Lambda gets information from incoming S3 Events

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When we write a Lambda Function, we need to implement a handler. When an event drives this function, relevant information will be passed in through the event parameter.

```
1 def handler_name(event, context):
2     ...
3     return some_value
```

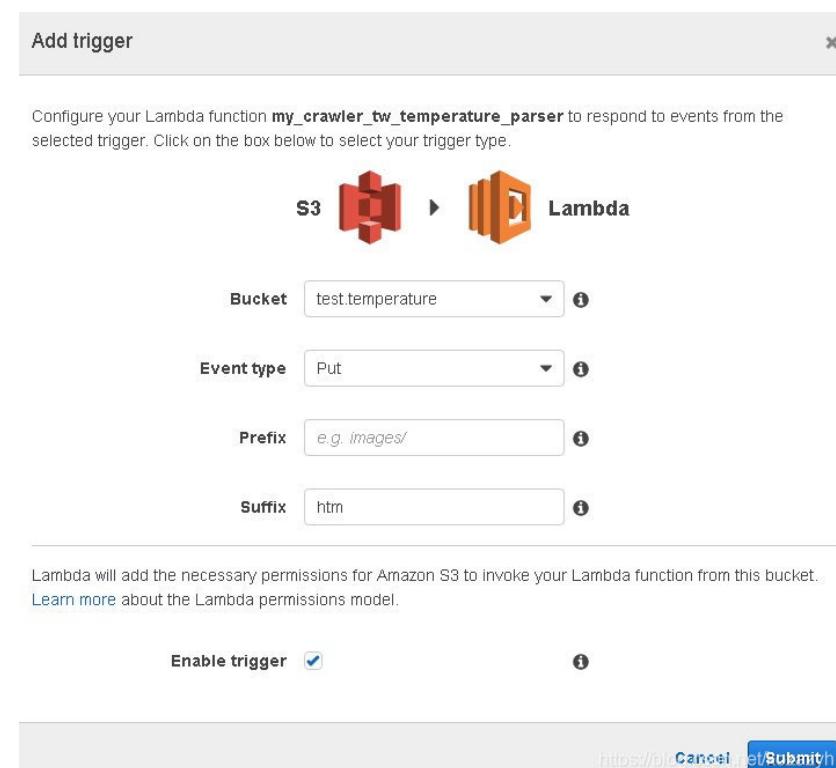
Next, let's discuss what kind of information we will see from the event.

Prepare for action

Take the AWS Lambda exercise: Temperature data crawler as an example. I hope that every time the crawler grabs the web page and puts it on S3, the trigger of S3 can automatically call the Lambda Function of another Parser. So at least I have to know the source. Which file can be used to proceed to the next step?

The following are the steps to add a trigger:

For the parser lambda function you wrote, add a trigger launched by S3. Here you add some conditions. This only accepts object upload Put Events (other events such as object deletion and movement are ignored)



In this way, the trigger can be triggered as long as the data is crawled back by the crawler or you manually upload it to S3.

Observe event content

The following is a lambda function for testing. Only one line has been added, which is print(event). Let's take a look at it all.

```
1 def lambda_handler(event, context):
2     print(event)
3
4     return None
```

Then we go to the CloudWatch-Log function and see what print() just poured out

CloudWatch > Log Groups > /aws/lambda/test > 2017/02/13/[LATEST]328b91e52f644e7188ce7973d5cc5872

Filter events		Time (UTC +00:00)	Message
		all	30s 5m 1h 6h 1d 1w c
		2017-02-13	No older events found at the moment. Retry.
▶	10:14:14		START RequestId: 2b650f07-f1d5-11e6-b1ab-1b1817f7ce1f Version: \$LATEST
▼	10:14:14		{u'Records': [{u'eventVersion': u'2.0', u'eventTime': u'2017-02-13T10:14:13.925Z', u'requestParameters': {u'sourceIPAddress': u'111.241.154.157'}, u's3': {u'configurationId': u'38f2a1d6-3899-48aa-9b76-56989c4489', u'object': {u'eTag': u'96eb4b02334c278c2827caaf24078ad2', u'sequencer': u'0058a186f5d93b3962', u'key': u'1486553116992.htm', u'size': 41356}, u'bucket': {u'arn': u'arn:aws:s3:::test.fan', u'name': u'test.fan', u'ownerIdentity': {u'principalId': u'AUMOGSY6CG5WP'}}, u's3SchemaVersion': u'1.0'}, u'responseElements': {u'id-2': u'SMcchkhR9x/R7CKHwSYwA9x1+XLHcFDNy02uK24LleaFU+Hq8To2CuwPIFKUh', u'X-amz-request-id': u'7702F37D2BEF90AB'}, u'awsRegion': u'ap-southeast-1', u'eventName': u'ObjectCreated:Put', u'userIdentity': {u'principalId': u'AUMOGSY6CG5WP'}, u'eventSource': u'aws:s3'}]}

Let's organize the format:

```
1 {
2     'Records': [
3         'eventVersion': '2.0',
4         'eventTime': '2017-02-13T10:14:13.925Z',
5         'requestParameters': {
6             'sourceIPAddress': '111.111.'
```



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```

8 |     's3': {
9 |         'configurationId': '38f2a1d6-3899-48aa-9b76-56989c44897b',
10|         'object': {
11|             'eTag': '96eb4b02334c278c2827caaf24078ad2',
12|             'sequencer': '0058A186F5D93B3962',
13|             'key': '1486553116992.htm',
14|             'size': 41356
15|         },
16|         'bucket': {
17|             'arn': 'arn:aws:s3:::test.fan',
18|             'name': 'test.fan',
19|             'ownerIdentity': {
20|                 'principalId': 'AUMOGSY6CG5VP'
21|             }
22|         },
23|         's3SchemaVersion': '1.0'
24|     },
25|     'responseElements': {
26|         'x-amz-id-2': 'SMcbhKhR9x/R7cKMWsYwA9xl+cXLHcfDNY02uK24L1eaaFU+Mq8To2CUowPIfkUh',
27|         'x-amz-request-id': '7702F37D2BEF90AB'
28|     },
29|     'awsRegion': 'ap-southeast-1',
30|     'eventName': 'ObjectCreated:Put',
31|     'userIdentity': {
32|         'principalId': 'AUMOGSY6CG5VP'
33|     },
34|     'eventSource': 'aws:s3'
35| }
36|

```

This is the dict data structure format of Python. The structure of dict containing list and dict is a bit complicated... But we can see some useful information by just visual inspection, such as file name, bucket name, size, etc.

Here's how to take it out:

```

1 def lambda_handler(event, context):
2
3     dict_event = event['Records'][0]
4
5     s(eventName = dict_event['eventName']
6     s(eventTime = dict_event['eventTime']
7     s(object_name = dict_event['s3']['object']['key']
8     s(bucket = dict_event['s3']['bucket']['name']
9
10    print [s(eventName, s(eventTime, s(object_name, s(bucket)
11
12    return None

```

The execution results are as follows:

```
[u'ObjectCreated:Put', u'2017-02-13T10:14:13.925Z', u'1486553116992.htm', u'test.fan']
```

The above is some exploration of event content.

reference:

[Using AWS Lambda with Amazon S3](#)

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[AWS-Lambda -S3- Event -Handler: Lambda function that creates an Elastic Transcoder job for each file uploaded to the S3 bucket](#) 05-14

AWS Lambda S3 event handler Lambda function that creates an Elastic Transcoder job for each file uploaded to the S3 bucket

[AWS practice: S3 Cloud Watch Event triggers Lambda](#)

JessicaWin 1110

AWS实践: S3 Cloud Watch Event 触发Lambda service: cloud-watch-event-trigger-lambda frameworkVersion: ">=1.2.0 <3.0.0" plugins: - serverless-pseudo-parameters provider: name: aws runtime: nodejs14.x memo...

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10-9

public class ImageResizeFunction implements RequestHandler<S3 Event ,String>{@Override public String handleRequest(S3 Event s3 event ,Context context){//Read the image file in the S3 bucket S3 Event Notification S3Entity3...

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Create bucket Edit Amazon Event Bridge Create queue Create event notification Edit access policy Back to create event notification Send and receive messages Upload Poll for messages

[AWS Lambda \(2\)---Create a lambda that triggers events in S3](#)

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1. Create a new lambda function. Refer to <https://mp.csdn.net/postedit/103283484> to create a new lambda function. (1) The code in the function code area is written as: import json print("STARTING NEW INVOCATION!!!") def lamb...

[AWS S3 bucket event notification](#)

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Overview In the previous article, we have practiced the AWS S3 cross-region replication function (CRR) to copy objects from a bucket in one region to a bucket in another region. Today let's practice the operation of S3 event noti...

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URLLoader.prototype["options"] = new Object; var loader:URLLoader = new URLLoader(); loader["options"]["type"] = options.type; //options is a custom loader["options"]["callback"] = options.callback; It is simple to write, but _

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10-25

Refin:"arn:aws:s3:::bw-basic-hosting/*"? However, thePolicyDocument needs the bucket name. AWS documentation makes use of the!Joinfunction: However, thePolicyDocument needs the bucket name. AWS documentat...

[Create a storage event_Event notification for AWS S3 bucket](#)

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[AWS Lambda Learning 2: Call the Lambda function through S3 event triggering to generate thumbnails](#)

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Create an Amazon Lambda function to read image objects from the S3 source bucket and create thumbnails to the target bucket. The development and implementation process is as follows: 1. Create a bucket and upload...

[java aws s3_Read files on AWS S3 with Java lambda_Zhang Qishi's blog-CSDN blog...](#)

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s3 event 参数: public class LambdaCmd implements F...

11-2

[AWS Lambda and S3 integration using AWS Ja...](#)

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S3 Event NotificationRecordrecord=s3 event .getRecords().get(0); //Retrieve the bucket&keyforthe uploaded S3objectthat //caused this Lambdafunctiontobe triggered Stringbkt=record.getS3().getBucket().getName(); ...

aws-s3-size: used to get the size of the directory in the S3 bucket

AWS-S3 Dimensions will now get the "Total Objects" and "Total Size" of the "Bucket Root" and all directories within it.

04-30

AWS implements scheduled tasks-Lambda+ Event Bridge

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@SqListener("testQueue")publicvoidreceive(S3 Event Notifications3 Event NotificationRecord){S3 Event Notification.S3Entitys3Entity=s3 Event NotificationRecord.getRecords().get(0).getS3();} 1

11-1

Getting started with AWS Lambda

weixin_33851429's blog 2834

Scenario: Now we need to develop an application with separate front-end and back-end. It is most convenient to use RESTful API for the back-end. However, if this back-end service will have high concurrency at certain times of ...

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aws-lambda -image-thumbnail: This AWS Lambda function generates thumbnail images for uploaded S3 objects

05-10

AWS Lambda Image Thumbnails Microservice that generates micro-thumbnails when uploading images to an S3 bucket. Contributor Sam Verschueren [] License MIT:copyright:Sam Verschueren

aws-lambda -image: Automatically resize images on AWS Lambda

01-30

cd aws-lambda -image npm install . When uploaded to AWS Lambda, the project will only bundle the required files - no development dependencies will be included. Configuration You will find the configuration file under the name...

Internal class to lambda_lambda internal exploration

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内部类转lambdaCloud provides an abstraction to a lot of complex stuff. And it is good, but I like the details, the internals. With an aim to see how lambda service works I watched an awesome video from AW...

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02-21

AWS Lambda SES Email Forwarder is a Node.js script for AWS Lambda that uses the inbound/outbound capabilities of AWS Simple Email Service (SES) to run a "serverless" email forwarding service. Rather than setting up an ...

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Complimentary Maven dependency information file: aws-java-sdk-s3-1.11.939.pom; Contains translated API documentation: aws-java-sdk-s3-1.11.939-javadoc-API documentation-Chinese (Simplified)-English -Control version.zi...

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chrome- aws-lambda : Chromium Binary for AWS Lambda and Google Cloud Functions

01-31

chrome- aws-lambda Chromium Binary installation for AWS Lambda and Google Cloud Functions npm install chrome- aws-lambda --save-prod This will ship with the appropriate binaries for the latest stable release (usually withi...

[Intelligent Optimization Algorithm] Five Elements Optimization Algorithm FPA with matlab code.zip

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1. Version: matlab2014/2019a/2021a, including running results. If you don't know how to run, you can send a private message. 2. The attached case data can run the matlab program directly. 3. Code features: parametric progra...

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N channel, 60V, 0.3A, RDS(ON), 2800mΩ@10V, 3000mΩ@4.5V, 20Vgs(±V); 1.6Vth(V); SOT23

aws-load-balancer-controller

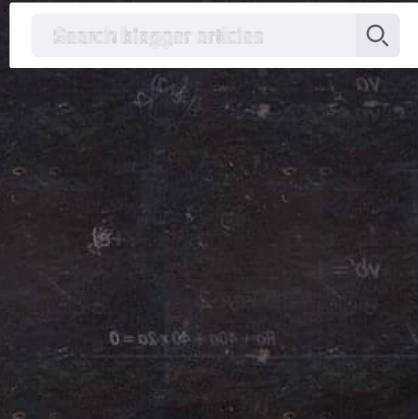
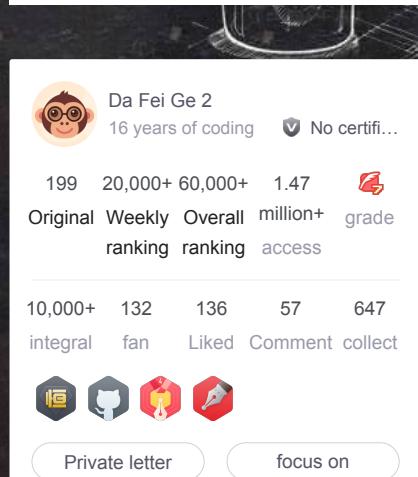
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AWS Load Balancer Controller is a managed load balancing controller provided by AWS that can be used in AWS's EKS (Elastic Kubernetes Service) cluster to manage load balancing in containerized applications. AWS Load Ba...

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