

voc-codebuild-cw-rule

Rule details [Info](#)

Rule name	voc-codebuild-cw-rule	Status	Enabled
Description	monthly update	Rule ARN	arn:aws:events:us-east-1:925398600691:rule/voc-codebuild-cw-rule

Event schedule [Info](#)

Fixed rate of
30 day

Targets

Monitoring

Tags

monthlyUpdate

▼ Function overview [Info](#)

monthlyUpdate

Layers (1)

EventBridge (CloudWatch Events)

+ Add trigger

Code

Test

Monitor

Configuration

Aliases

Versions

FileEditFindViewGoToolsWindowTestDeploy

Go to Anything (Ctrl-P)

monthlyUpdate - /
lambda_function.py

```
1 import json
2 import sqlite3
3 import requests
4 import json
5 import boto3
6 import os
7 import tempfile
8
9 s3 = boto3.client('s3')
10 bucket_name = '5450-bestguy-s3'
11 object_key = 'userdb/db.sqlite3'
12
13 # Download the file to a temporary location
14 with tempfile.NamedTemporaryFile() as tmp_file:
15     s3.download_file(bucket_name, object_key, tmp_file.name)
16
17     # Connect to the SQLite database in the temporary file
18     conn = sqlite3.connect(tmp_file.name)
19
20 # Connect to database and get businessID
21 # conn = sqlite3.connect('db.sqlite3')
22 cursor = conn.cursor()
23 # Execute SQL query to get all the business IDs
24 cursor.execute("SELECT businessID FROM Users")
25 results = cursor.fetchall()
26
27
28 reviews = []
29 for row in results:
30
31     BusinessId_OR_Alias = row[0]
32
33     # Pull the most recent reviews for the businss
34     ClientID = 'cxyOXT_x8D6anIGTaodKjw'
```

FileEditFindViewGoToolsWindowTestDeploy

Go to Anything (Ctrl-P)

monthlyUpdate - /
lambda_function.py

Execution results

Status: Succeeded | Max memory used: 81 MB | Time: 1.13 ms

Test Event Name
test
Response { "statusCode": 200, "body": "\\Hello from Lambda\\" }
Function Logs HGF7uGb3mHfPzy5owxxq fetched! HGF7uGb3mHfPzy5owxxq fetched! HGF7uGb3mHfPzy5owxxq fetched! X1840nqc5NkvePb5se-na fetched! X1840nqc5NkvePb5se-na fetched! X1840nqc5NkvePb5se-na fetched! JFDInMa5NlFlmF8d63N2Q fetched! JFDInMa5NlFlmF8d63N2Q fetched! JFDInMa5NlFlmF8d63N2Q fetched! _oWw26123n17F5c1003W fetched! _oWw26123n17F5c1003W fetched! _oWw26123n17F5c1003W fetched! KTB_3286uQ05s5c565XpMA fetched! KTB_3286uQ05s5c565XpMA fetched! Error: 404 - {"error": {"code": "BUSINESS_NOT_FOUND", "description": "The requested business could not be found."}} START RequestId: 633014cf-6349-4f06-94f5-336590317d40 Version: \$LATEST END RequestId: 633014cf-6349-4f06-94f5-336590317d40 REPORT RequestId: 633014cf-6349-4f06-94f5-336590317d40 Duration: 1.13 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memory Used: 81 MB Init Duration: 1615.53 ms
Request ID 633014cf-6349-4f06-94f5-336590317d40

userdb/

Objects

Properties

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3](#) to store and retrieve objects. [more](#)



Copy S3 URI

Copy URL

Find objects by prefix



Name



Type



[db.sqlite3](#)

sqlite3

monthlyReviewUpdate/

Objects

Properties

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3](#) to store and retrieve objects. [more](#)



Copy S3 URI

Copy URL

Download

Find objects by prefix



Name



Type



[reviews.json](#)

json

Amazon S3 > Buckets > 5450-bestguy-s3 > datasets/

datasets/

Copy S3 URI

Objects | Properties

Objects (6)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

🔄

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

< 1 > ⌕

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	yelp_business_attributes.csv	csv	April 25, 2023, 16:33:14 (UTC-04:00)	39.5 MB	Standard
<input type="checkbox"/>	yelp_business_hours.csv	csv	April 25, 2023, 16:33:18 (UTC-04:00)	13.2 MB	Standard
<input type="checkbox"/>	yelp_business.csv	csv	April 25, 2023, 16:33:14 (UTC-04:00)	30.3 MB	Standard
<input type="checkbox"/>	yelp_review.csv	csv	April 25, 2023, 09:43:57 (UTC-04:00)	3.5 GB	Standard
<input type="checkbox"/>	yelp_tip.csv	csv	April 25, 2023, 16:33:15 (UTC-04:00)	141.2 MB	Standard
<input type="checkbox"/>	yelp_user.csv	csv	April 25, 2023, 16:33:14 (UTC-04:00)	1.3 GB	Standard

5450-bestguy-s3

Info

Objects | Properties | Permissions | Metrics | Management | Access Points

Bucket metrics

Explore metrics for usage, request, and data transfer activity within your bucket. Metrics are also available in Amazon CloudWatch. [Learn more](#)

1d 1w 2w 🔄

Total bucket size

Amount of data in bytes stored in this bucket.

View in CloudWatch

Date	Size (Bytes)
04-20 01:46 am	3.5 GB

Total number of objects

Total number of objects stored in this bucket for all storage classes.

View in CloudWatch

Date	Count
04/16	1

SageMaker

yelp-analysis

Delete Stop Start Open Jupyter Open JupyterLab

Notebook instance settings

Name

yelp-analysis

Status

⌚ Pending

Notebook instance type

ml.r5.xlarge

Platform identifier

Amazon Linux 2, Jupyter Lab 5 (notebook-ml2-v2)

ARN

arn:aws:sagemaker:us-east-1:925398600691:notebook-instance/yelp-analysis

Creation time

Apr 25, 2023 15:32 UTC

Elastic Inference

-

Minimum IAM Role Version

2

Lifecycle configuration

-

Last updated

Apr 26, 2023 09:42 UTC

Volume Size

16GB EBS

Git repositories

Name	Repository URL	Type
There are currently no resources.		

Permissions and encryption

IAM role ARN

arn:aws:iam::325398600691:role/LabRole

Root access

Disabled

Encryption key

arn:aws:kms:us-east-1:925398600691:key/bc7a15c9-0700-47c4-ab4e-46a269f502c

Network

Subnet(s)

subnet-046d3f867924c593a

Security Group(s)

sg-0695a105c2b25eaaa

Direct internet access

Disabled [Learn more](#)

```
# Section 2: Review Analysis
elements.append(Paragraph("2. Review Analysis", styles["Headings3"]))

elements.append(Paragraph("The following charts provide insights into the business's review trends...")
    star rating distribution, and the 'useful', 'funny', and 'cool' properties of the reviews...
    By analyzing these charts, users can better understand the business's performance and areas for improvement.", custom_style))

image_files = [
    (review_path[0], "Figure 1: Number of Reviews per Month",
     "This chart shows the total number of reviews received by the business each month..."),
    .....
    (review_path[1], "Figure 2: Average Stars per Month",
     "This chart shows the average star rating given by customers each month..."),
    .....
    (review_path[2], "Figure 3: Star Distribution",
     "This chart displays the distribution of star ratings received by the business..."),
    .....
    (review_path[3], "Figure 4: Useful, Funny, and Cool Distribution",
     "This chart shows the distribution of the 'useful', 'funny', and 'cool' properties in the reviews..."),
    .....
    (os.path.join(save_folder, "Afim_Analysis.png"), "Figure 5: Sentiment Analysis using Afim",
     "This bar chart shows the sentiment distribution using Afim sentiment scores, categorized into Extreme Negative, Negative, Neutral, Positive, and Extreme Positive labels..."),
    .....
    (os.path.join(save_folder, "NRC_Analysis.png"), "Figure 6: Sentiment Analysis using NRC",
     "This bar chart displays the frequency of NRC emotions detected in the reviews, providing insights into the emotional content of the reviews..."),
    .....
    (os.path.join(save_folder, "Combined_Word_Clouds_with_Titles.png"),
     "Figure 7: Combined Word Clouds for Different Sentiment Categories",
     "This combined word cloud image shows the most frequently used words in different sentiment categories. It can help users identify the most common themes and keywords mentioned in the reviews, providing insights into customers' feedback and expectations..."),
    .....
    (os.path.join(save_folder, "Combined_Bar_Charts.png"),
     "Figure 8: Top 20 Words Frequency for Different Sentiment Categories",
     "This combined horizontal bar plot image shows the frequency of the top 20 words for different sentiment categories. It can help users compare the most common words across sentiment categories, providing insights into the key aspects that drive customer sentiment...")
]

for image_file, title, description in image_files[0:2]:
    put_image(image_file, title, description, pagebreak=False)
.....
for image_file, title, description in image_files[2:4]:
    put_image(image_file, title, description)
.....
for image_file, title, description in image_files[4:6]:
    put_image(image_file, title, description)
for image_file, title, description in image_files[6:8]:
    put_image(image_file, title, description, height=500)

elements.append(Paragraph("GPT Analysis of Negative Reviews", styles["Headings4"]))

gpt_answer = response['choices'][0]['message']['content'].replace('\n', '<br/>')
elements.append(Paragraph(gpt_answer, styles["BodyText"]))

# Add the copyright statement
copyright_statement = "© 2023 Bestguy's Tech Ltd."
elements.append(Paragraph("para align:center spaceAfter=10<font size=12><b>{{</b>{{</font>{{para}}".format(copyright_statement), styles["Normal"])))
```

VPC

sg-0693a103c2c26eaaa - Bestguy security group






Details

Inbound rules

Outbound rules

Tags

Details

Security group name	Security group ID	Description	VPC ID
 Bestguy security group	 sg-0693a103c2c26eaaa	 Enable HTTP access	 vpc-0f1b48a104d6bef89
Owner	Inbound rules count	Outbound rules count	
 925398600691	1 Permission entry	1 Permission entry	