PENTESTER ACADEMYTOOL BOX PENTESTING
PENTESTER ACADEMYTOOL BOX PENTESTING
PATURED TEAM LABS ATTACKDEFENSE LABS
RITAINING COURSES ACCESS POINT PENTESTER
TEAM LABSPENTESTER TOOL BOY DO TO TO TEAM LAB
PATURED TEAM LABS RELUTION TO TEAM LAB
RITAINING COURSES ACCESS POINT PENTESTER
TOOL BOX TOOL BOY DO TO TO TEAM LAB
ATTACKDEFENSE LABS TRAINING COURSES PATURE CESS
PENTESTED LEGISLACIONES TRAINING HACKER
TOOL BOX TOOL BOY PENTESTER ACADEMY
TOOL BOX TOOL BOY PENTESTER ACADEMY
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Name	AWS CloudTrail : Athena and CloudWatch Alerts
URL	
Туре	AWS Cloud Security : Defense

**Important Note:** This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

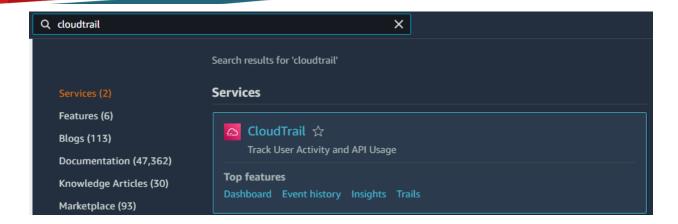
### Solution:

**Step 1:** Click the lab link button to get access credentials.

# Access Credentials to your AWS lab Account

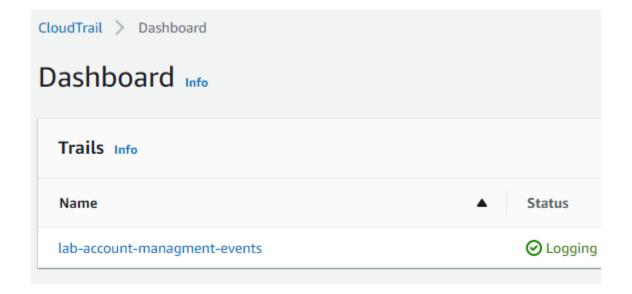
Login URL	https://664289593040.signin.aws.amazon.com/console
Region	US East (N. Virginia) us-east-1
Username	student
Password	Ad67hDB8ZtssUlZ7
Access Key ID	AKIAZVKV6Y3ICK5IJCEM
Secret Access Key	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

Step 2: Search for "CloudTrail" in the search bar and navigate to the CloudTrail dashboard.

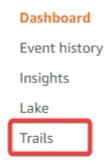


Dashboard will list all the available trails.

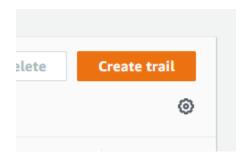
"lab-account-managment-events" trail was created by the management account for the organization and hence cannot edit or delete this trail through this account



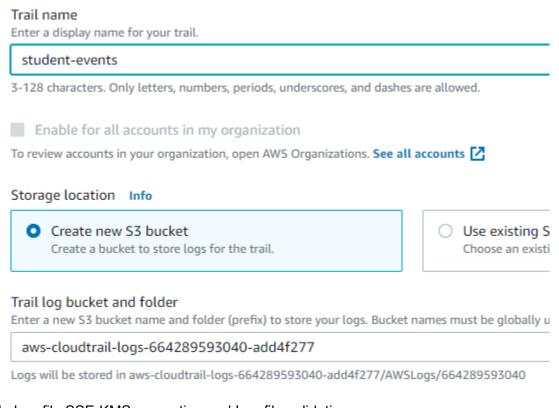
**Step 3:** Click on "Trails" from the navigation pane.



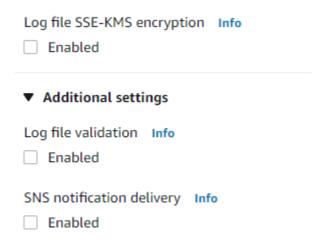
Step 4: Click on the "Create trail" button.



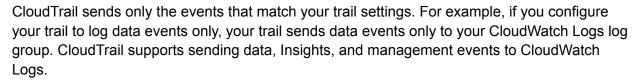
**Step 5:** Set trail name as "students-events" and choose "Create new S3 bucket" and use the default bucket name.



Disable Log file SSE-KMS encryption and Log file validation.



**Step 6:** Enable CloudWatch logs and set choose a new log group and IAM role. Set the role name as "CloudTrailRoleForCloudWatchLogs" and use the default group name.

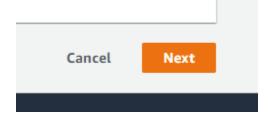


# CloudWatch Logs - optional Configure CloudWatch Logs to monitor your trail logs and notify you when specific activity occurs. Standard Cloud\ charges apply. Learn more [2] CloudWatch Logs Info Enabled Log group Info New Existing Log group name aws-cloudtrail-logs-664289593040-add39422 1-512 characters. Only letters, numbers, dashes, underscores, forward slashes, and periods are allowed. IAM Role Info AWS CloudTrail assumes this role to send CloudTrail events to your CloudWatch Logs log group. New Existing Role name

Click on the "Next" button.

Policy document

CloudTrailRoleForCloudWatchLogs



**Step 7:** Select Management events as well as Data events for the event type.

### Events Info

Record API activity for individual resources, or for all current and future resources in AWS account.

### Event type

Choose the type of events that you want to log.

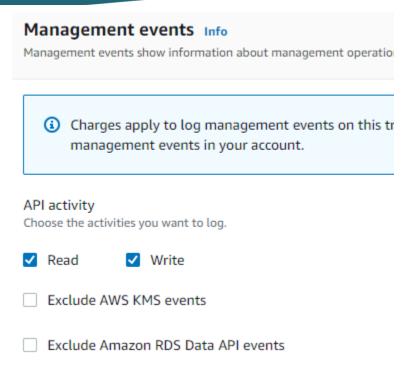
Management events

Capture management operations performed on your AWS resources.

Data events

Log the resource operations performed on or within a resource.

Enable read and write operation API activity logs.



Select DynamoDB as data event type and set "Log all events" for log selector template.

## ▼ Data event: DynamoDB

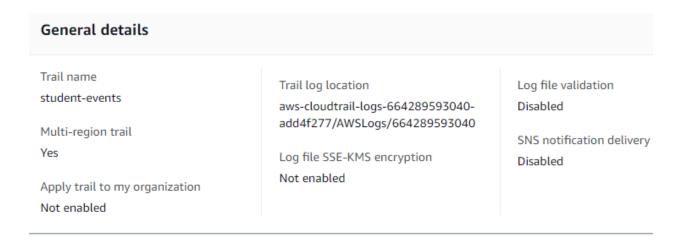
JSON view

# Data event type Choose the source of data events to log. DynamoDB Log selector template Log all events Selector name - optional DynamoDB 1,000 character limit

Click on the "Next" button.



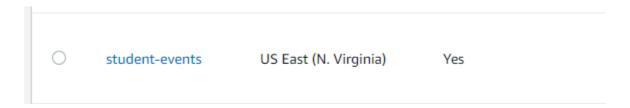
Review the trail configuration.



Click on the "Create trail" button.



Successfully created "student-events" trail. Click on "student-events".



The details of the created trail will be available here.

### **General details**

Trail logging

**⊘** Logging

Trail name

student-events

Multi-region trail

Yes

Apply trail to my organization

Not enabled

Trail log location

aws-cloudtrail-logs-664289593040-

add4f277/AWSLogs/66428959304

0

Last log file delivered

-

Log file SSE-KMS encryption

Not enabled

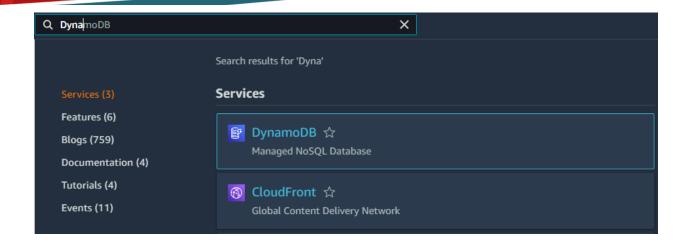
Check out the CloudWatch log group name. The created trail will send events to your CloudWatch Logs log group, you can view the events in the CloudWatch console. CloudTrail typically delivers events to your log group within an average of about 15 minutes of an API call.

# CloudWatch Logs

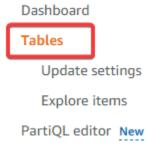
Log group

aws-cloudtrail-logs-664289593040-add39422

**Step 8:** Create or modify some resources to generate logs. Search for "DynamoDB" and navigate to the DynamoDB dashboard.



Step 9: Click on "Tables" from the navigation pane.



Click on the "Create table" button.



Step 10: Set table name as "Users" and partition key as "id".



This will be used to identify your table.

### Users

Between 3 and 255 characters, containing only letters, numbers, underscores (\_), hyphens (-), and periods (.).

### Partition key

The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from hosts for scalability and availability.

Number

id

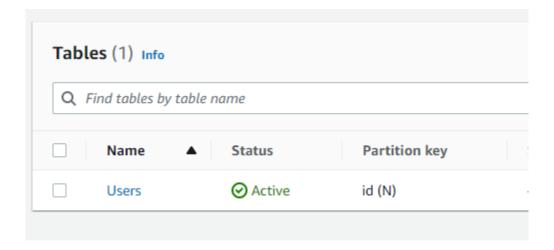
1 to 255 characters and case sensitive.

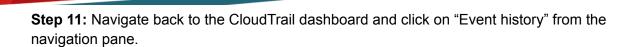
Cart kou antional

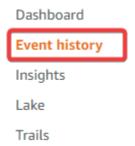
Click on the "Create table" button.



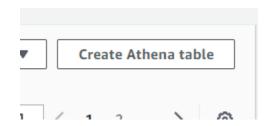
Successfully created the table named "Users".







Step 12: Click on the "Create Athena table" button.



Set Athena to query these log files directly from Amazon S3 by specifying the location of log files.

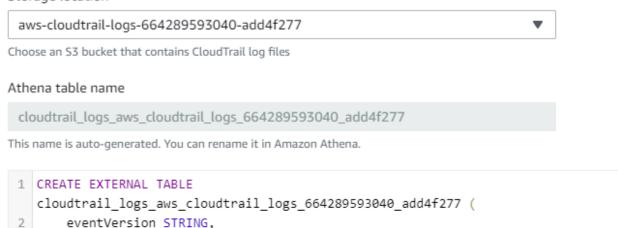
**Step 13:** Choose the same S3 bucket which contains CloudTrail log files.

CloudTrail saves logs as JSON text files in compressed gzip format (\*.json.gzip). The location of the log files depends on how you set up trails, the AWS Region or Regions in which you are logging, and other factors.

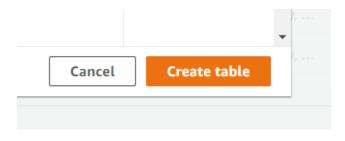
### Create a table in Amazon Athena

You can use Amazon Athena to analyze events that are stored in a trail's Amazon S3 bucket. Athena is an interactive c you analyze data in S3 buckets by using standard SQL. Athena charges for running queries. Learn more

### Storage location



Click on the "Create table" button.



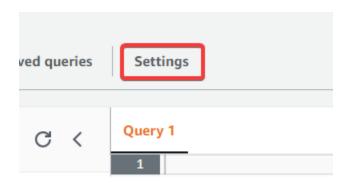
The table is created with a default name that includes the name of the Amazon S3 bucket. Navigate to the Athena dashboard in the new tab using the hyperlink.

Successfully created Athena table: <a href="mailto:cloudtrail\_logs\_aws\_cloudtrail\_logs\_664289593040\_add4f2">cloudtrail\_logs\_aws\_cloudtrail\_logs\_664289593040\_add4f2</a>
To view this table and run a query, open the Amazon Athena console. Athena charges for running of Open link in new window

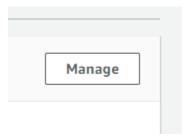
**Step 14:** Set the query result location. Click on "Query editor" from the navigation pane.



From the query editor, click on "Settings".



Click on the "Manage" button.



**Step 15:** Choose a bucket for the query results.

# Query result location and encryption

Location of query result - optional

Enter an S3 prefix in the current region where the query result will be saved as an object.

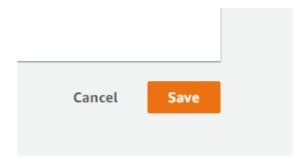
Q s3://aws-athena-query-results-664289593040-us-east-1

Expected bucket owner - optional

Specify the AWS account ID that you expect to be the owner of your query results output locat

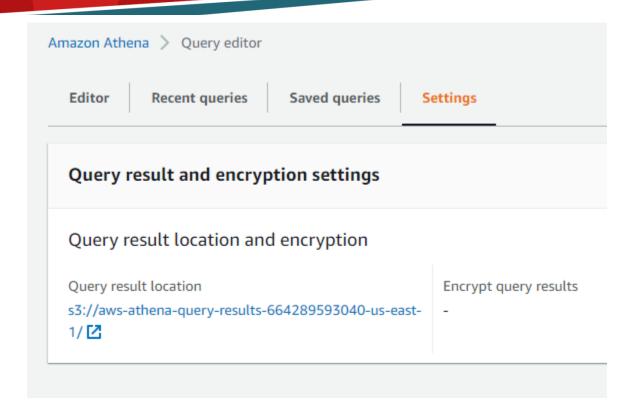
Enter AWS account ID

Click on the "Save" button.



Successfully set the query result location.

Amazon Athena automatically stores query results and metadata information for each query that runs in a query result location that you can specify in Amazon S3. If necessary, you can access the files in this location to work with them. You can also download query result files directly from the Athena console.



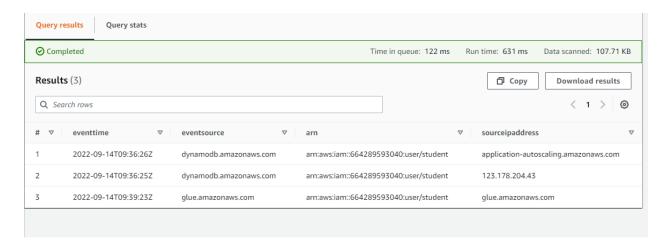
**Step 16:** Copy and paste the query and click on "RUN" to get the 'UpdateTable' and 'CreateTable' event details.

### Query:

SELECT
eventtime,
eventsource,
useridentity.arn,
sourceipaddress
FROM cloudtrail\_logs\_aws\_cloudtrail\_logs\_664289593040\_add4f277
WHERE eventname = 'UpdateTable'
OR eventname = 'CreateTable'



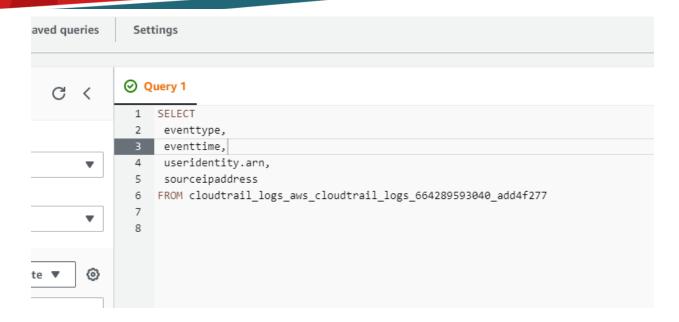
Successfully got the query result showing the events.



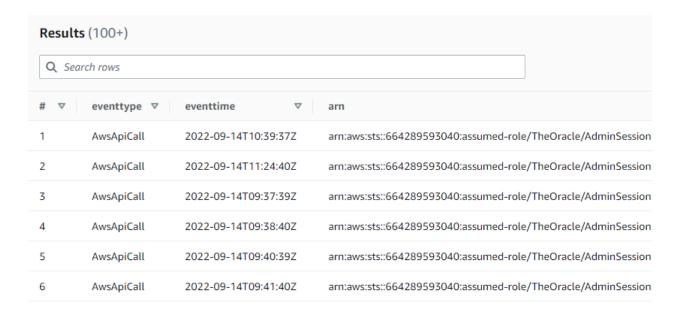
**Step 17:** Now list a few details from all the CloudTrail logs and create a new table from the result.

### Query:

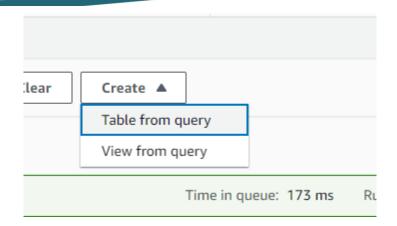
SELECT
eventtype,
eventtime,
useridentity.arn,
sourceipaddress
FROM cloudtrail\_logs\_aws\_cloudtrail\_logs\_664289593040\_add4f277



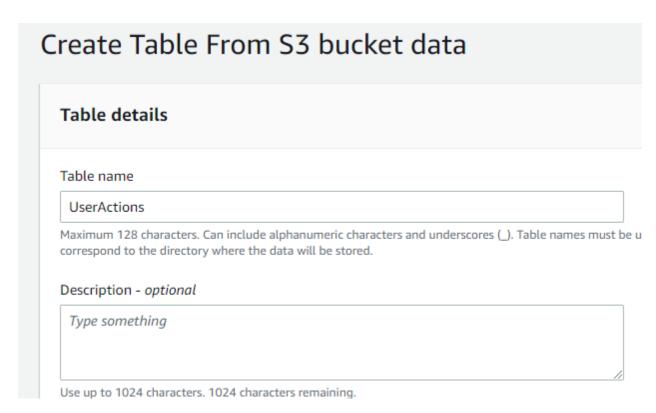
Successfully got the query result showing all the logs matching the query.



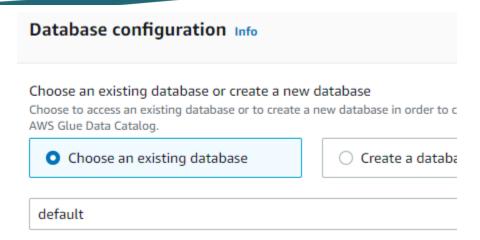
**Step 18:** Click on "Table from query" under the "Create" button.



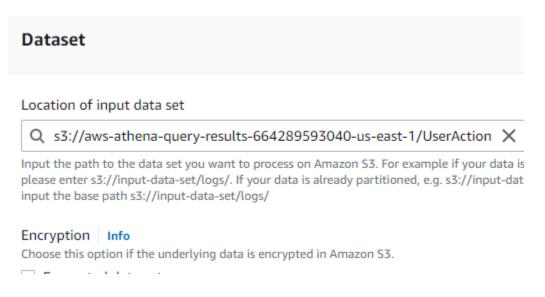
Step 19: Set table name as "UserActions".



**Step 20:** Select "Choose an existing database" for Database configuration.



**Step 21:** Append "/UserAction" to the S3 URI to create a new directory and set it as the input data location.



Choose CSV as the format.



Click on the "Create table" button.



It will generate a query similar to the following. Click on the "RUN" button.

### Query:

```
CREATE TABLE "default"."UserActions" WITH (
format = 'TEXTFILE',
external_location = 's3://aws-athena-query-results-664289593040-us-east-1/UserActions'
) AS
SELECT eventtype,
eventtime,
useridentity.arn,
sourceipaddress
FROM cloudtrail_logs_aws_cloudtrail_logs_664289593040_add4f277
```

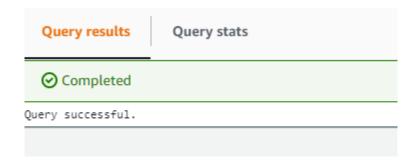
```
Query 1 X  Query 2 X

1 CREATE TABLE "default"."UserActions" WITH (
2 format = 'TEXTFILE',

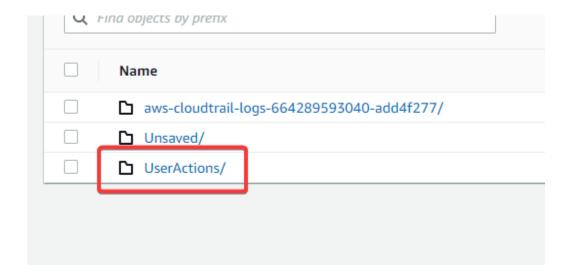
3 external_location = 's3://aws-athena-query-results-664289593040-us-east-1/UserActions'

4 ) AS
5 SELECT eventtype,
6 eventtime,
7 useridentity.arn,
8 sourceipaddress
9 FROM cloudtrail_logs_aws_cloudtrail_logs_664289593040_add4f277
```

Successfully saved query results to the S3 bucket.



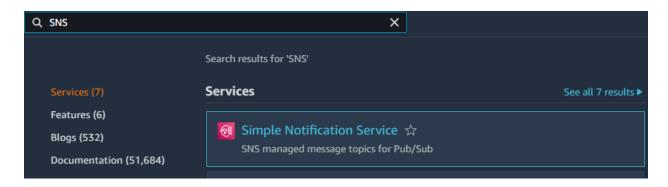
Step 22: Navigate to the S3 bucket location.



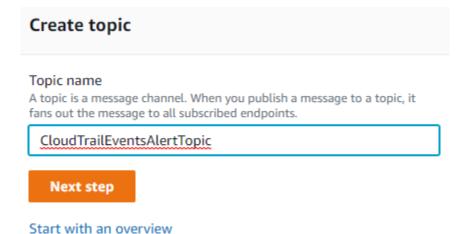
Click on any object and download or open it to view the log details in CSV format.



**Step 23:** Search for SNS in the search bar and navigate to the SNS dashboard.



**Step 24:** Set topic name as "CloudTrailEventsAlertTopic".



Choose type as "Standard".



Type Info
Topic type cannot be modified after topic is created

- FIFO (first-in, first-out)
  - · Strictly-preserved message ordering
  - · Exactly-once message delivery
  - High throughput, up to 300 publishes/second
  - · Subscription protocols: SQS



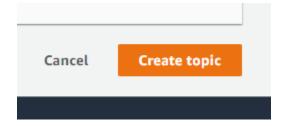
- · Best-effort message ordering
- At-least once message delivery
- Highest throughput in publishes/second
- Subscription protocols: SQS, Lambda, HTTP, SMS, email, mobile application endpoints

### Name

CloudTrailEventsAlertTopic

Maximum 256 characters. Can include alphanumeric characters, hyphens (-) and underscores (\_).

Click on the "Create topic" button.



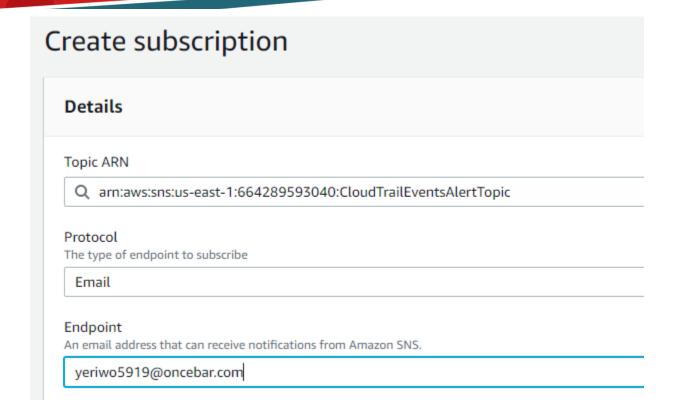
**Step 25:** Now create a subscription for the created topic. Click on the "Create subscription" button.

### No subscriptions found

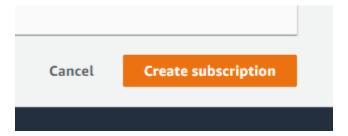
You don't have any subscriptions to this topic.

Create subscription

Set protocol as "Email" and enter your email address in the endpoint field.



Click on the "Create subscription" button.



A subscription confirmation email will be available at the provided email address. Click on the "Confirm subscription" link to confirm the email address.



no-reply@sns.amazonaws.com

Date:

14-09-2022 15:49:34

Subject: AWS Notification - Subscription Confirmation

You have chosen to subscribe to the topic:

### arn:aws:sns:us-east-1:664289593040:CloudTrailEventsAlertTopic

To confirm this subscription, click or visit the link below (If this was in error no action is necessary): Confirm subscription

Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to sns-opt-out

Successfully confirmed the subscription.



### Simple Notification Service

# Subscription confirmed!

You have successfully subscribed.

Your subscription's id is:

arn:aws:sns:us-east-1:664289593040:CloudTrailEventsAlertTopic:2def950f-37ca-4d5e-aded-ee8993a99caf

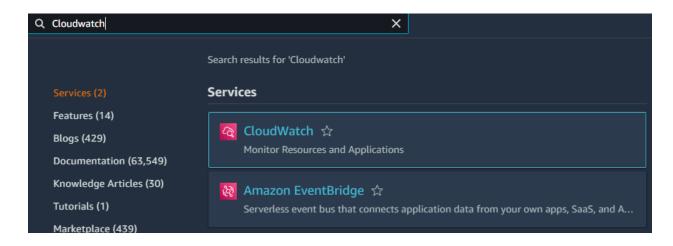
If it was not your intention to subscribe, click here to unsubscribe.

In this lab, we will configure and generate notifications using two methods.

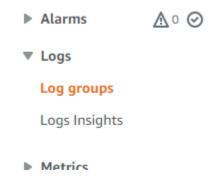
In the first method, we will define CloudWatch logs metric filters to evaluate log events that match the pattern and use the asterisk ("\*") as a wildcard to match text such that it will match all the generated events. Then we will set the alarm threshold value as 1 and the alarm condition as "greater than or equal" so that it will create an alarm for every matched event.

In the second method, we will set up a lambda function triggered by Cloudwatch logs and parse the log using a python script and send a notification from the lambda function using the SNS service such that it will send a notification for all the events generated by CloudTrail.

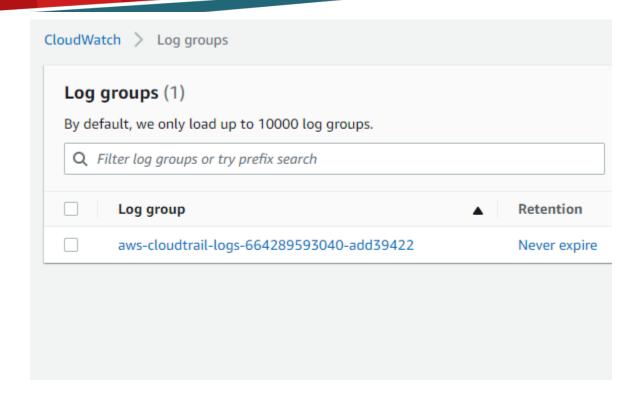
**Step 26:** Search for CloudWatch in the search bar and navigate to the CloudWatch dashboard.



**Step 27:** Click on "Log groups" from the navigation pane.

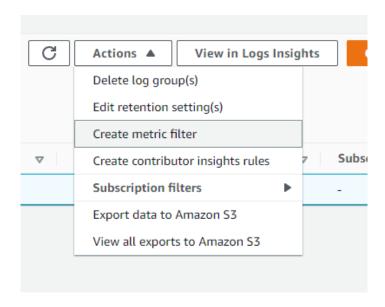


This will list the log group which is created while creating the CloudTrail trail. A log group is a group of log streams that share the same retention, monitoring, and access control settings.



**Step 28:** Select the log group and click on "Create metric filter" under "Actions".

Metric filters define the terms and patterns to look for in log data as it is sent to CloudWatch Logs. CloudWatch Logs uses these metric filters to turn log data into numerical CloudWatch metrics that you can graph or set an alarm on.

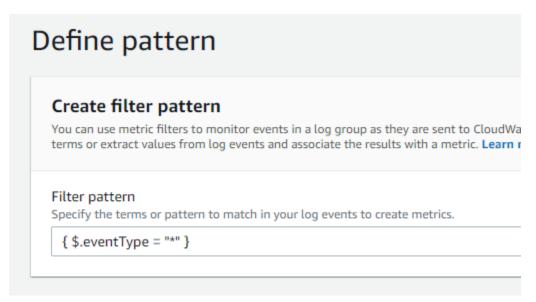




Step 29: Copy and paste the following as a filter pattern.

Filter patterns make up the syntax that metric filters use to match terms in log events. Terms can be words, exact phrases, or numeric values. Here will use the asterisk ("\*") as a wildcard to match text such that it will match all the generated events.

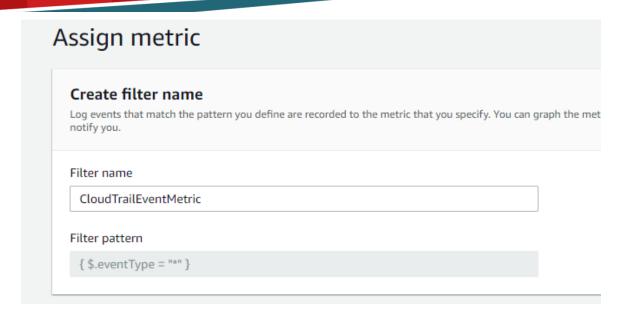
Pattern: { \$.eventType = "\*" }



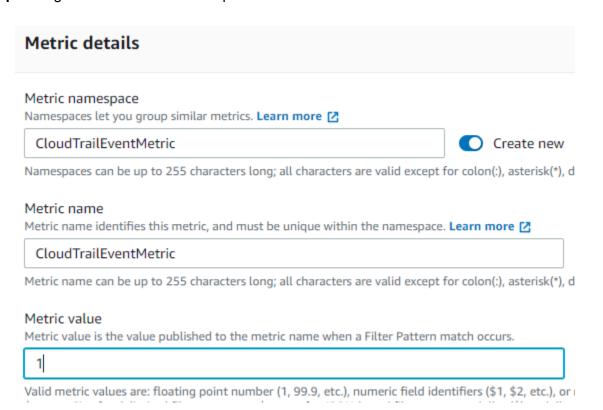
Click on the "Next" button.



Step 30: Set filter name as "CloudTrailEventMetric".

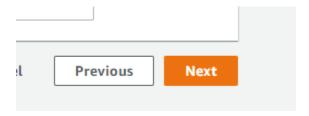


Step 31: Again set name and namespace as "CloudTrailEventMetric". Set the Metric value as 1.

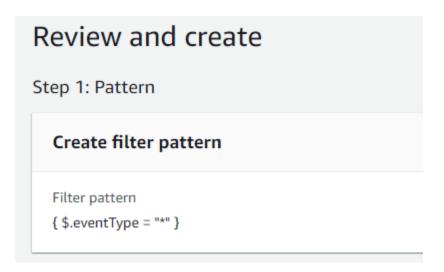


When your metric filter finds a match in your log events, it increments your metric's count by your metric's value. If your metric filter doesn't find a match, CloudWatch reports the metric's default value. For example, your log group publishes two records every minute, the metric value is 1, and the default value is 0. If your metric filter finds matches in both log records within the first minute, the metric value for that minute is 2.

Click on the "Next" button.



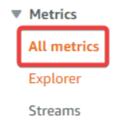
Review the metric filter configuration.



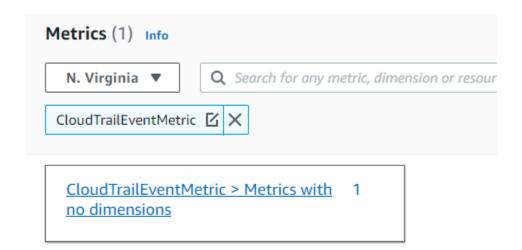
Click on the "Create metric filter" button.



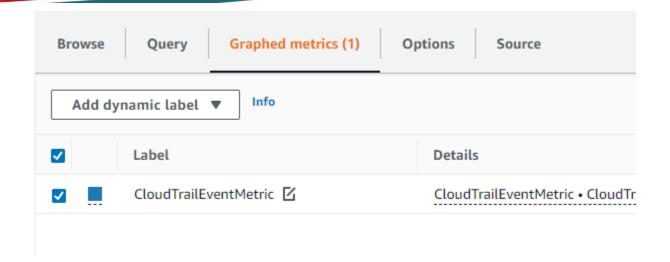
Step 32: Click on "All metrics" under the Metrics section from the navigation pane.



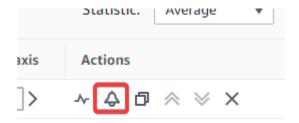
Search for "CloudTrailEventMetric" and select the metrics.



Navigate to "Graphed metrics" and select "CloudTrailEventMetric".

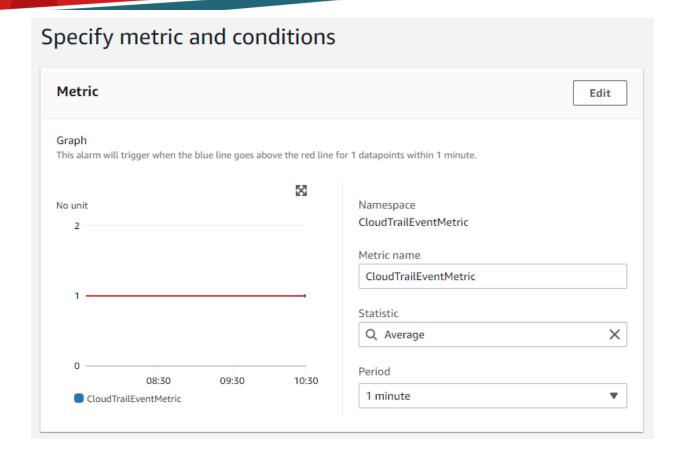


Click on the bell icon to create an alarm.

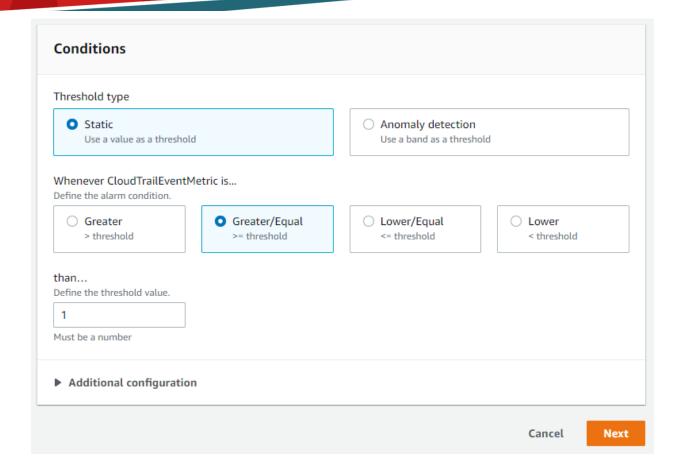


CloudWatch Alarms feature allows you to watch CloudWatch metrics and to receive notifications when the metrics fall outside of the levels (high or low thresholds) that you configure.

**Step 33:** Set metric name as "CloudTrailEventMetric" and statistic to "Average". Set period as 1 minute.

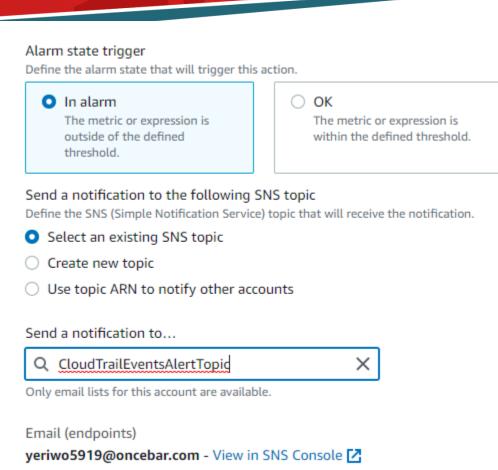


**Step 34:** Set threshold type as "Static" and alarm condition as "Greater/Equal". Set threshold value as 1.

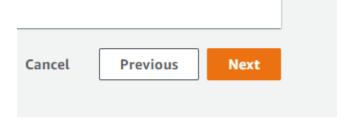


A CloudWatch Alarm is always in one of three states: OK, ALARM, or INSUFFICIENT\_DATA. When the metric is within the range that you have defined as acceptable, the Monitor is in the OK state. When it breaches a threshold it transitions to the ALARM state.

**Step 35:** Choose "In alarm" as an alarm state trigger. Set "Select an existing SNS topic" for the SNS topic and select the created topic name.

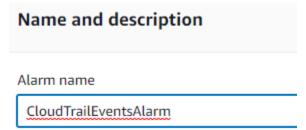


Click on the "Next" button.



Set the alarm name as "CloudTrailEventsAlarm".

Add notification



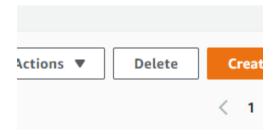
Click on the "Next" button.



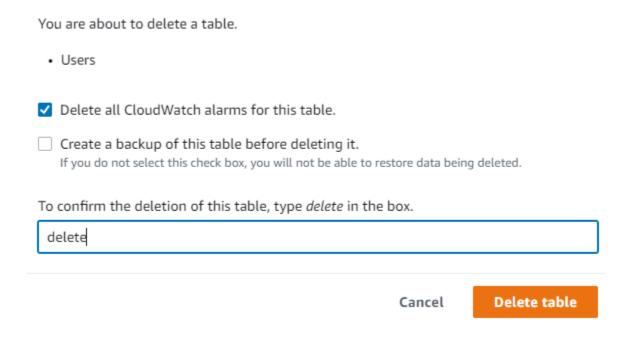
Review the alarm configuration and click on the "Create alarm" button.



**Step 36:** Create or modify some resources to generate events. Navigate back to the DynamoDB dashboard and delete the created table.



Confirm the action by typing "delete" in the box. Then click on the "Delete table" button.



You will receive a notification generated by the CloudWatch alarm. Deleting a table action triggered the alarm because of the threshold value.

Date:

14-09-2022 16:04:58

Subject: ALARM: "CloudTrailEventsAlarm" in US East (N. Virginia)

You are receiving this email because your Amazon CloudWatch Alarm "CloudTrailEventsAlarm" in the US East (N. Virginia) region has entered the ALARM state, because "Threshold Crossed: 1 out of the last 1 datapoints [1.0 (14/09/22 10:33:00)] was greater than or equal to the threshold (1.0) (minimum 1 datapoint for OK -> ALARM transition)." at "Wednesday 14 September, 2022 10:34:57 UTC".

View this alarm in the AWS Management Console:

https://us-east-1.console.aws.amazon.com/cloudwatch/deeplink.js?region=us-east-1#alarmsV2:alarm/CloudTrailEventsAlarm

Alarm Details:

- Name: CloudTrailEventsAlarm
- Description:
- State Change: INSUFFICIENT DATA -> ALARM
- Reason for State Change: Threshold Crossed: 1 out of the last 1 datapoints [1.0 (14/09/22 10:33:00)] was greater than or equal to the threshold (1.0) (minimum 1 datapoint for OK -> ALARM transition).
- Timestamp: Wednesday 14 September, 2022 10:34:57 UTC
- AWS Account: 664289593040
- Alarm Arn: arn:aws:cloudwatch:us-east-1:664289593040:alarm:CloudTrailEventsAlarm Threshold:
- The alarm is in the ALARM state when the metric is GreaterThanOrEqualToThreshold 1.0 for at least 1 of the last 1 period(s) of 60 seconds.

Monitored Metric:

- MetricNamespace: CloudTrailEventMetric
- MetricName: CloudTrailEventMetric
- Dimensions:

Now we will configure the alerts through the second method using a lambda function.

Step 37: Search for Lambda in the search bar and navigate to the Lambda dashboard.





Step 38: Click on the "Create function" button.

Permissions Info



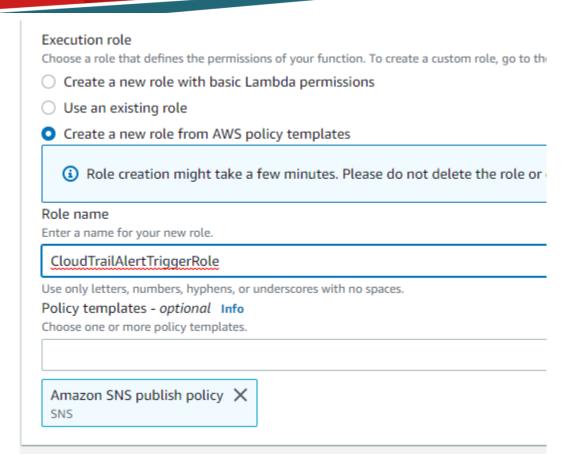
**Step 39:** Set the function name as "CloudTrailAlertTrigger" and runtime as "Python 3.8".

# Function name Enter a name that describes the purpose of your function. CloudTrailAlertTrigger 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 editor support Python 3.8 Architecture Info Choose the instruction set architecture you want for your function code. x86\_64 arm64

By default, Lambda will create an execution role with permissions to upload logs to Amazon (

**Step 40:** Choose the execution role as "Create a new role from AWS policy templates". Set role name as "CloudTrailAlertTriggerRole". Select "Amazon SNS publish policy" from policy templates.

Every Lambda function has an IAM role called an execution role. In this role, you can attach a policy that defines the permissions that your function needs to access other AWS services and resources. At a minimum, your function needs access to Amazon CloudWatch Logs for log streaming. Here we will add "Amazon SNS publish policy" for publishing notifications from the lambda function.



Click on "Create function"



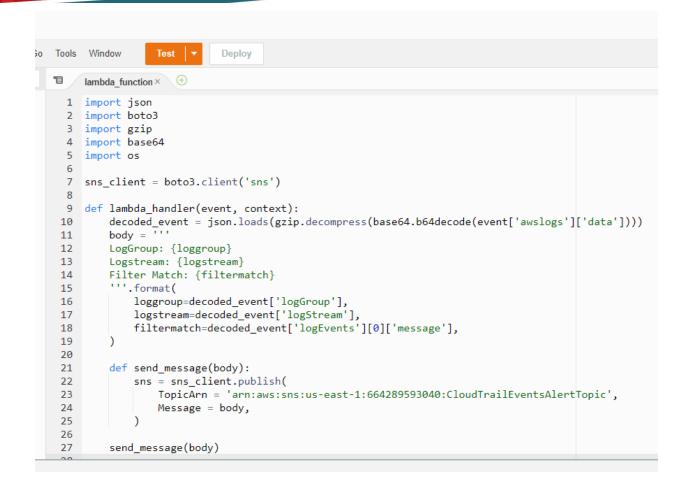
**Step 41:** Copy and replace the python code in the lambda\_function.py file. Replace the SNS topic ARN with the created ARN and click on deploy.

This code will parse AWS logs and send SNS notifications for every log generated in the CloudWatch logs group.



### Code:

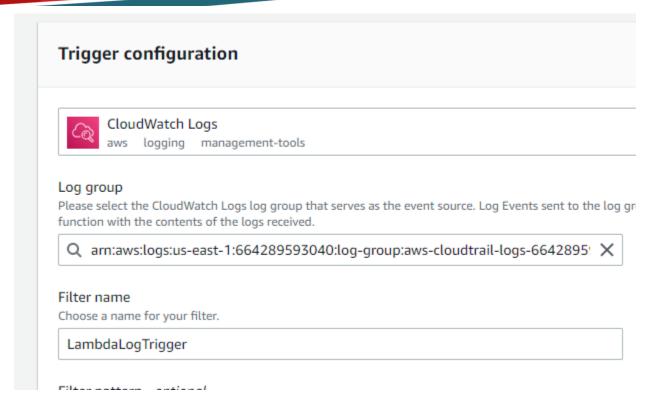
```
import json
import boto3
import gzip
import base64
import os
sns_client = boto3.client('sns')
def lambda handler(event, context):
  decoded_event = json.loads(gzip.decompress(base64.b64decode(event['awslogs']['data'])))
  body = "
  LogGroup: {loggroup}
  Logstream: {logstream}
  Filter Match: {filtermatch}
  ".format(
    loggroup=decoded_event['logGroup'],
    logstream=decoded_event['logStream'],
    filtermatch=decoded_event['logEvents'][0]['message'],
  def send_message(body):
    sns = sns_client.publish(
       TopicArn = 'arn:aws:sns:us-east-1:809795150143:CloudTrailAlertsTopic',
       Message = body,
  send_message(body)
```



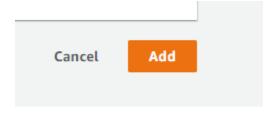
Click on the "Add trigger" button.



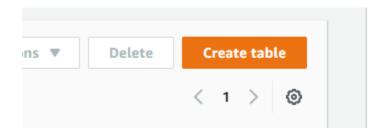
**Step 42:** Set "CloudWatch Logs" as the trigger and select the log group created by CloudTrail. Set the filter name as "LambdaLogTrigger".



Click on the "Add" button.



**Step 43:** Navigate back to the DynamoDB dashboard and create a table again to make a log entry.



Set table name as "Users" and partition key as "id" with the data type as "Number".



This will be used to identify your table.

## Users

Between 3 and 255 characters, containing only letters, numbers, underscores (\_), hyphens (-), and periods (.).

# Partition key

The partition key is part of the table's primary key. It is a hash value that is used to retrieve items hosts for scalability and availability.



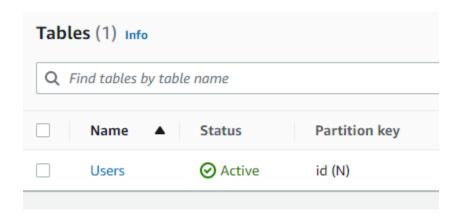
1 to 255 characters and case sensitive.

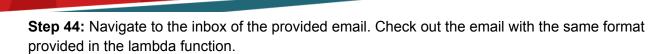
Number •

Click on the "Create table" button.



Successfully created a table.





This email is triggered by the lambda function when a log is added to the CloudWatch log group corresponding to the "CreateTable" event.



Date:

14-09-2022 16:27:07

Subject: AWS Notification Message

LogGroup: aws-cloudtrail-logs-664289593040-add39422

Logstream: 664289593040 CloudTrail us-east-1 4

Filter Match: {"eventVersion":"1.08","userIdentity":

{"type":"AssumedRole","principalld":"AROAZVKV6Y3ILQL23KOTR:AdminSessionRole","arn":"arn:aws:sts::664289593040:assumed-role/TheOracle/AdminSessionRole","accountId":"664289593040","accessKeyId":"ASIAZVKV6Y3IM6EU4MHA","sessionContext": {"sessionIssuer":

{"type":"Role","principalld":"AROAZVKV6Y3ILQL23KOTR","arn":"arn:aws:iam::664289593040:role/student","accountId":"664289593040","userName":"student"},"attributes":{"creationDate":"2022-09-14T10:54:30Z","mfaAuthenticated":"false"}}},"eventTime":"2022-09-14T10:54:38Z","eventSource":"dynamodb.amazonaws.com","eventName":"CreateTable","awsRegion":"us-west-

2","sourcelPAddress":"3.235.228.238","userAgent":"Boto3/1.20.32 Python/3.8.13 Linux/4.14.255-276-224.499.amzn2.x86\_64 execenv/AWS\_Lambda\_python3.8

Botocore/1.23.32", "requestParameters": null, "response Elements": null, "requestID": "CBGU5EC2S03SMK2ICTG2QGBD2FVV4KQNSO5AEMVJF66Q9ASUAAJG", "eventID": "756f97a9-caaa-42b2-9f10-16c7de1997ee"

,"readOnly":true,"eventType":"AwsApiCall","apiVersion":"2012-08-

10","managementEvent":true, "recipientAccountId":"664289593040", "eventCategory": "Management", "tlsDetails": {"tlsVersion": "TLSV1.2", "cipherSuite": "ECDHE-RSA-AES128-GCM-SHA256", "clientProvidedHostHeader": "dynamodb.us-west-

2.amazonaws.com"}}

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If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

https://sns.us-east-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-

1:664289593040:CloudTrailEventsAlertTopic:2def950f-37ca-4d5e-aded-ee8993a99caf&Endpoint=yeriwo5919@oncebar.com

Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at https://aws.amazon.com/support



### References:

- 1. AWS CloudTrail (<a href="https://docs.aws.amazon.com/awscloudtrail/latest/userquide/cloudtrail-user-quide.html">https://docs.aws.amazon.com/awscloudtrail/latest/userquide/cloudtrail-user-quide.html</a>)
- 2. AWS Athena (https://docs.aws.amazon.com/athena/latest/ug/what-is.html)
- 3. AWS Athena and CloudTrail Logs (<a href="https://docs.aws.amazon.com/athena/latest/ug/cloudtrail-logs.html">https://docs.aws.amazon.com/athena/latest/ug/cloudtrail-logs.html</a>)
- CloudWatch Logs
   (https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/WhatIsCloudWatchLogs. html)