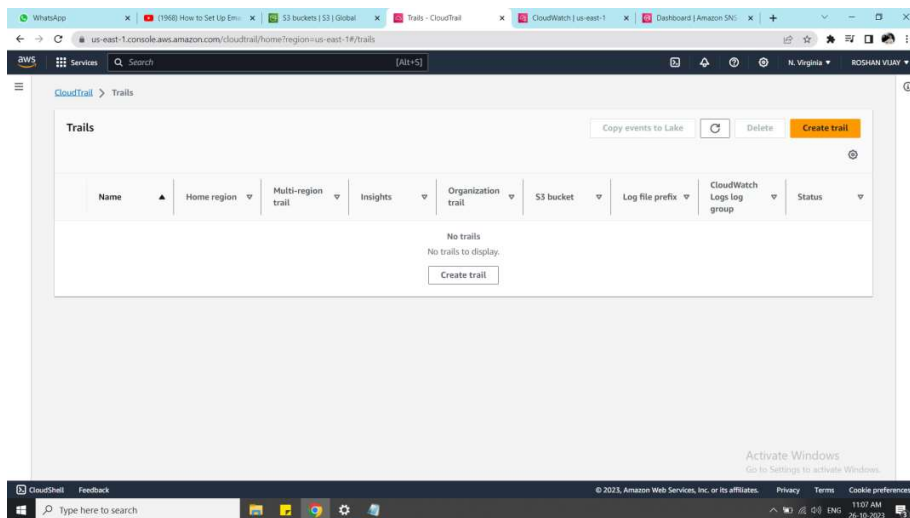


Set Up Email Notifications for CloudWatch Alarms using CloudWatch Log Groups and CloudTrail

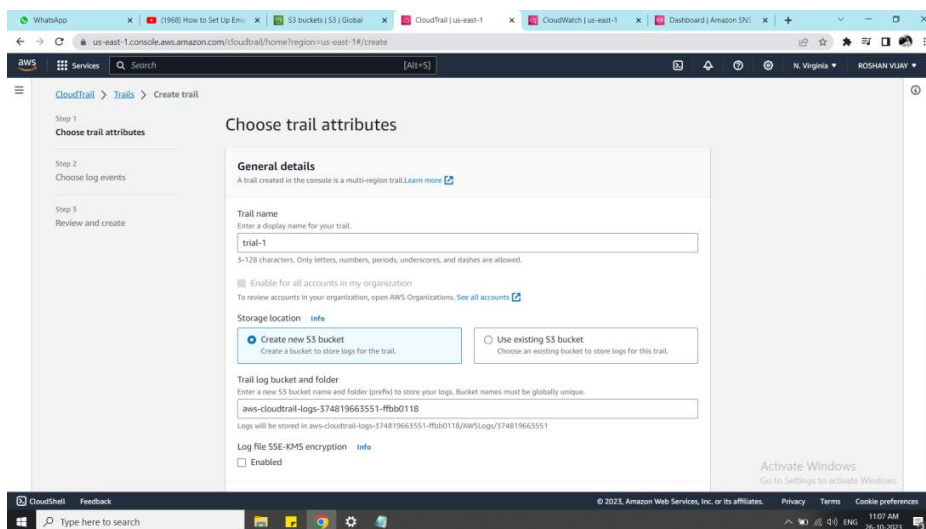
Step1:

Go to Cloud trial and create a trial



Step 2:

In storage location select create a new s3 bucket and disable the log file SSE-KMS encryption and enable the log file validation



Step 3:

In IAM role ,create a new role and give the name to the role and click next

Log group name
aws-cloudtrail-logs-374819663551-79ef3f96
1-512 characters. Only letters, numbers, dashes, underscores, forward slashes, and periods are allowed.

AWS CloudTrail assumes this role to send CloudTrail events to your CloudWatch Logs log group.

☒ New
☐ Existing

Role name
trial-1-alarm

Policy document

Tags - optional [info](#)
You can add one or more tags to help you manage and organize your resources, including trails.

Key Value - optional
Enter key Enter value Remove

Add tag
You can add 49 more tags

Cancel Next

Step 4:

In the choose Log events tab, select the event type as Event and click next

Step 3
Review and create

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.

☐ Insights events
Identify unusual activity, errors, or user behavior in your account.

Management events [info](#)
Management events show information about management operations performed on resources in your AWS account.

No additional charges apply to log management events on this trail because this is your first copy of management events.

API activity
Choose the activities you want to log.

☒ Read ☒ Write

☐ Exclude AWS KMS events

☐ Exclude Amazon RDS Data API events

Cancel Previous Next

Step 5:

Review and create the Cloudtrail log

The screenshot shows the AWS CloudTrail console in the 'Review and create' step. The left sidebar indicates the current step is 'Review and create'. The main content area is titled 'Review and create' and 'Step 1: Choose trail attributes'. It contains a table with the following details:

General details		
Trail name	Trail log location	Log file validation
trial-1	aws-cloudtrail-logs-374819663551-fbb0118/AWSLogs/374819663551	Enabled
Multi-region trail		SNS notification delivery
Yes		Disabled
Apply trail to my organization	Log file SSE-KMS encryption	
Not enabled	Not enabled	

Below the table, there are sections for 'CloudWatch Logs' and 'Tags'. The 'CloudWatch Logs' section shows a log group 'aws-cloudtrail-logs-374819663551-79ef3f96' and a IAM role 'trial-1-alarm'. The 'Tags' section is empty.

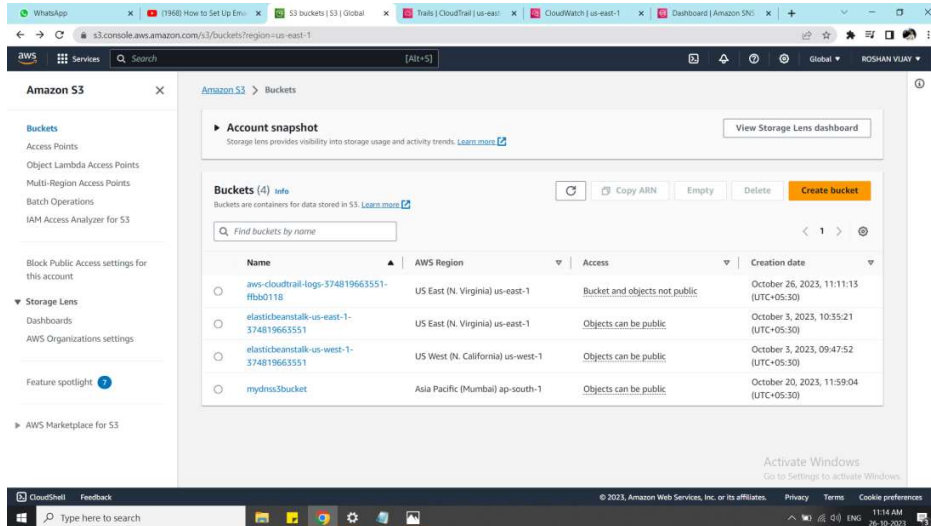
The screenshot shows the 'Management events' configuration section of the AWS CloudTrail console. It includes a warning box stating: 'Charges apply to log management events on this trail because you are logging at least one other copy of management events in your account.' Below this, there are three sections: 'API activity', 'Data events', and 'Insights events'. The 'API activity' section has a table with the following details:

API activity	Exclude AWS KMS events	Exclude Amazon RDS Data API events
All	No	No

The 'Data events' section states 'Data event collection is not configured for this trail'. The 'Insights events' section states 'You can only enable CloudTrail Insights on trails that log management events. Learn more'. At the bottom, there are 'Cancel', 'Previous', and 'Create trail' buttons.

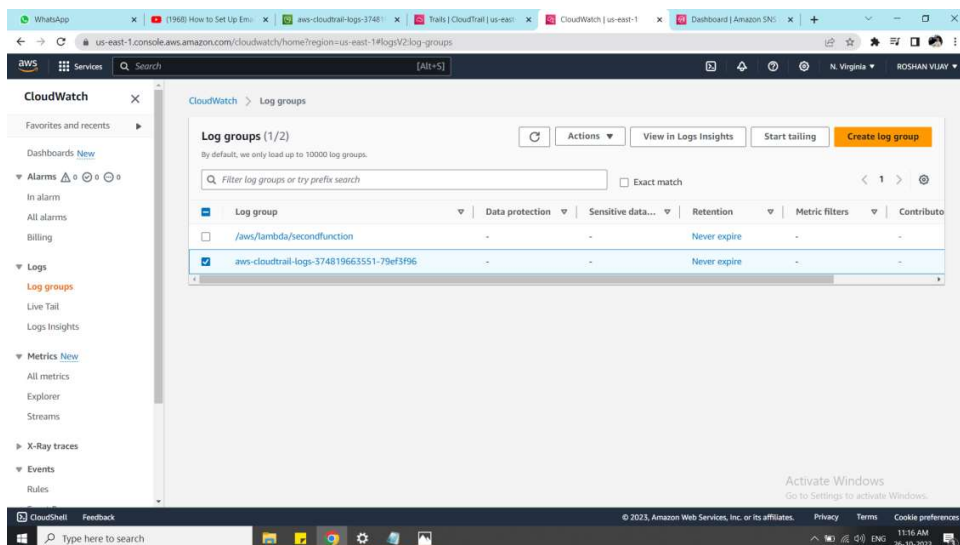
Step 6:

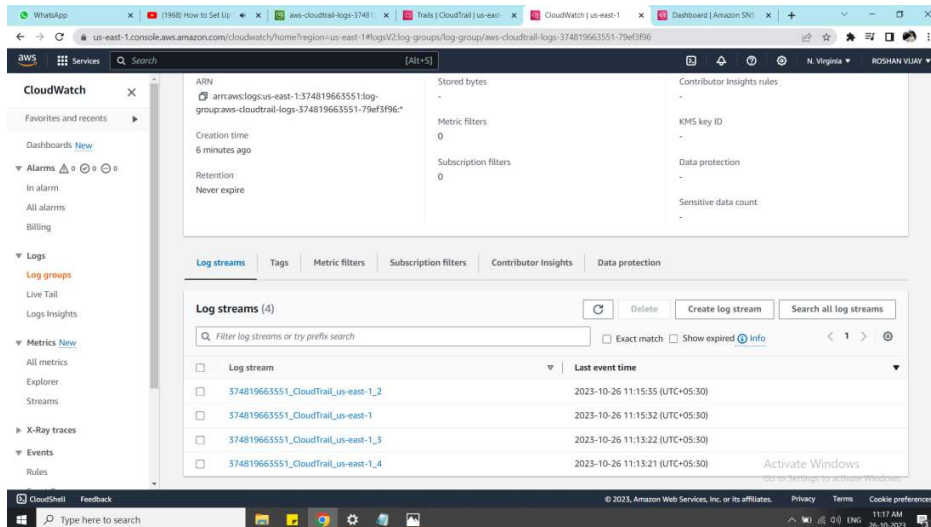
Now a new s3 bucket is created automatically



Step 7:

In the cloudwatch log groups, a new cloud trial log is created, it collects some log streams





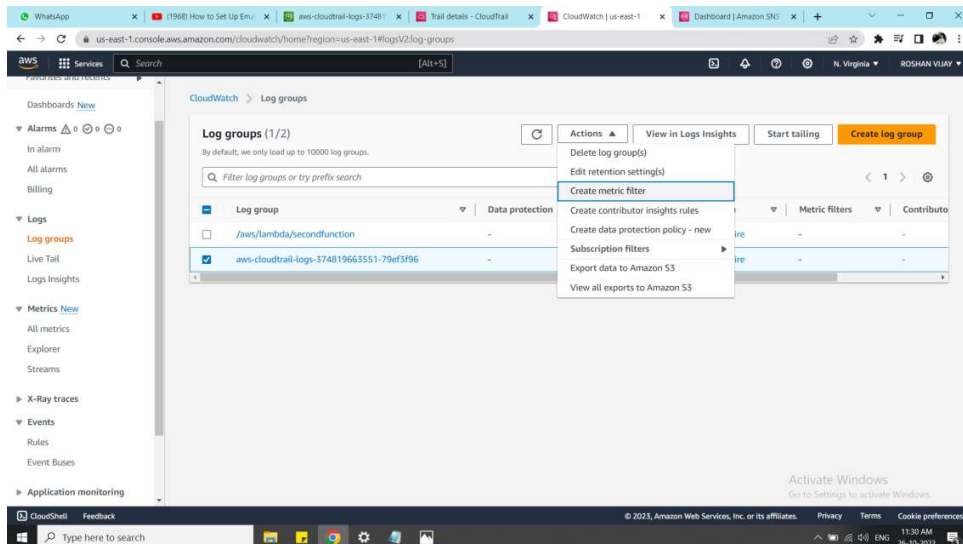
Step 8:

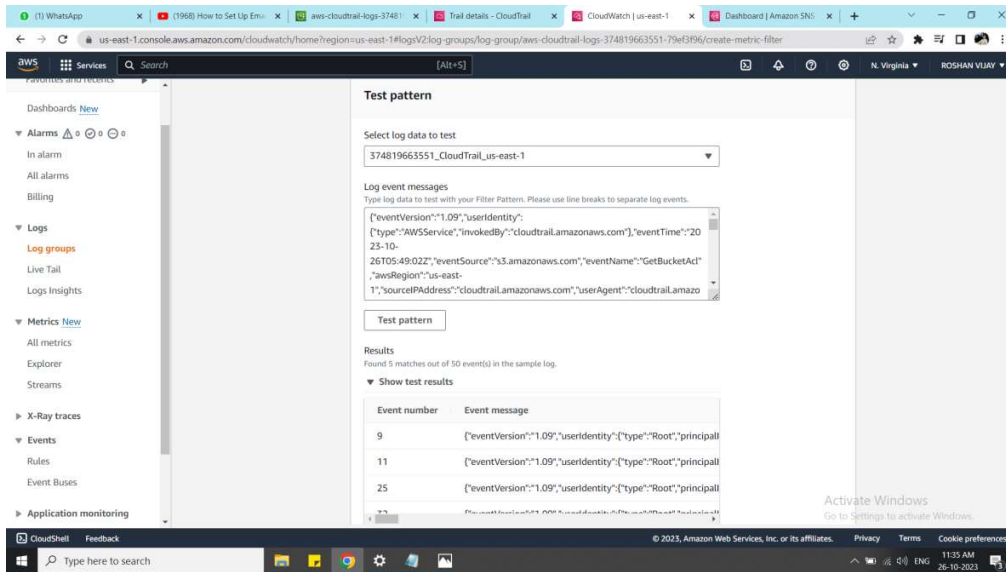
Go to cloud watch metric

cloudwatch log --> Actions --> create a metric filter -->metric filter condition -->next

with this metric filter condition,filter the log which matches the condition

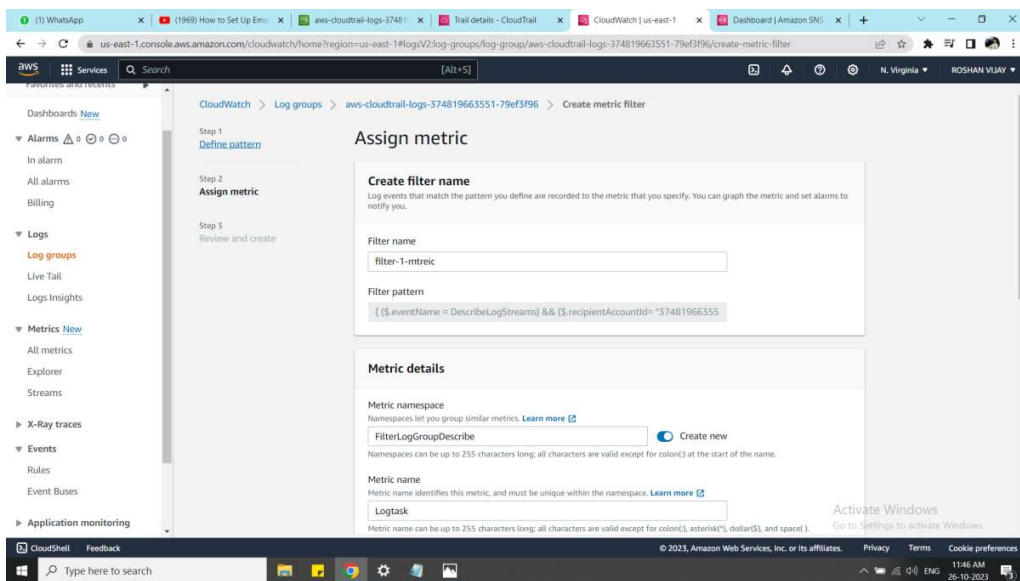
{ (\$eventName = DescribeLogStreams) && (\$recipientAccountId= "374819663551") }

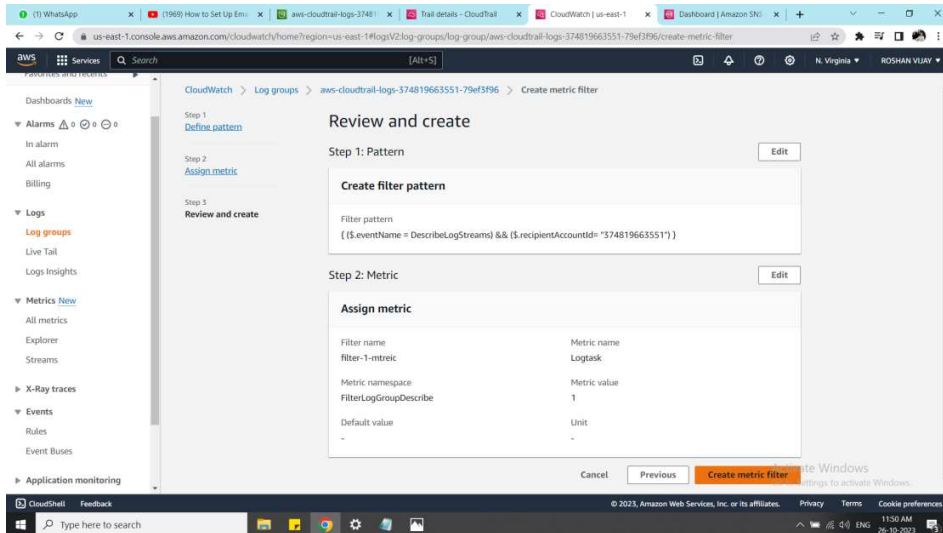
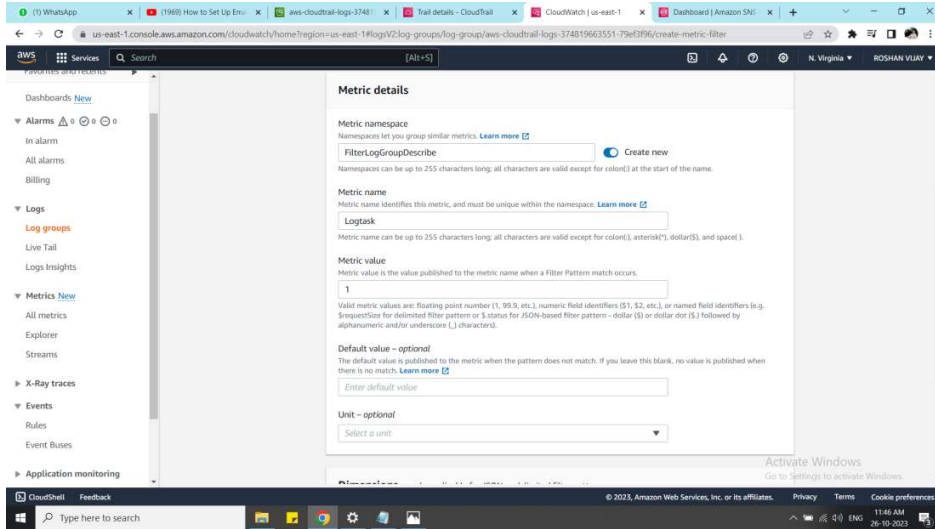




Step 9:

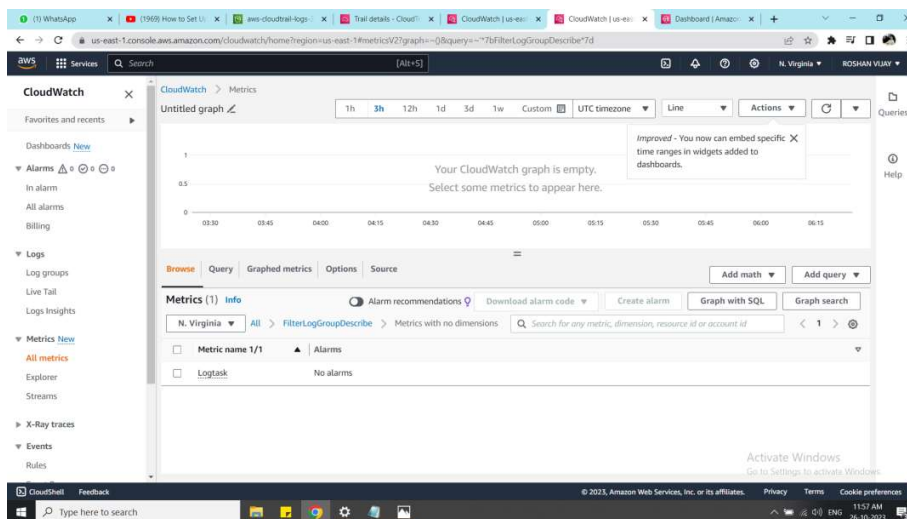
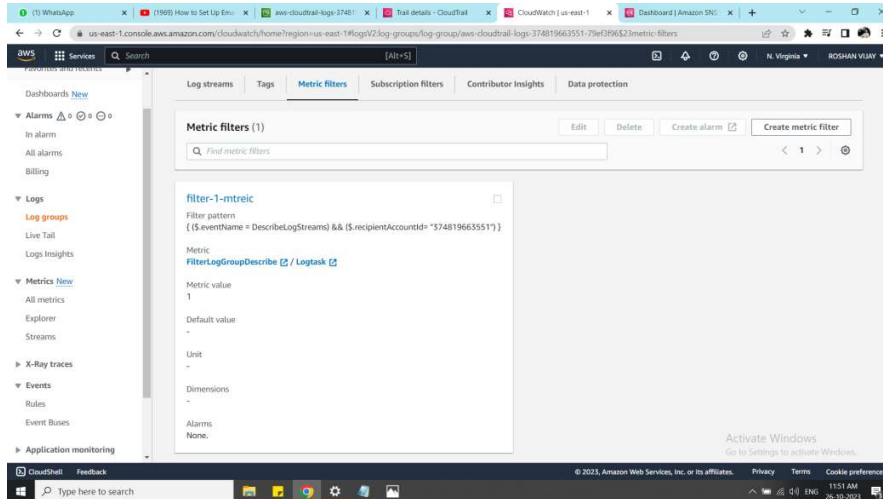
metric filter name --> metric name space --> metric name --> metric value-->next-->review and create





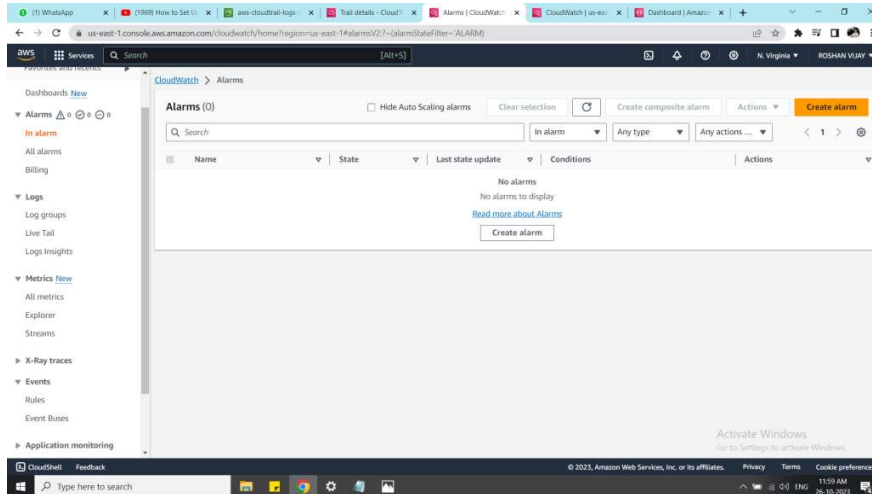
Step 10:

We have configured the metric filter.



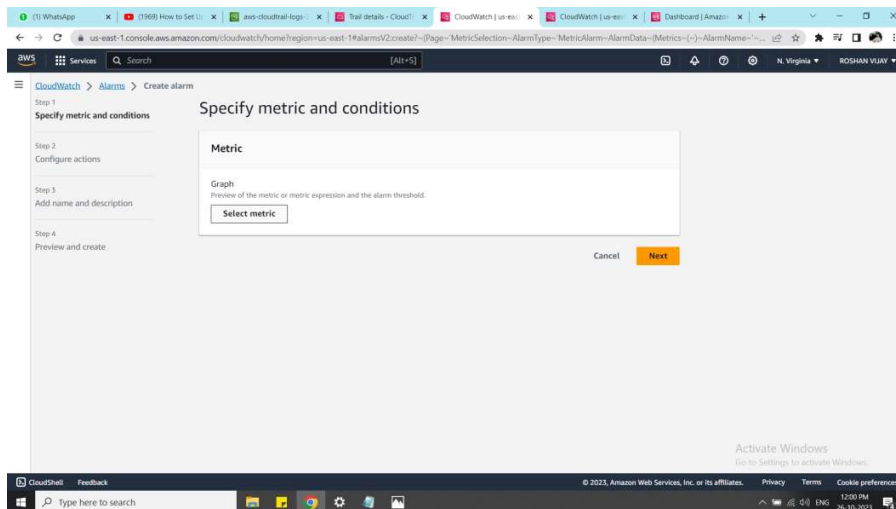
Step 11:

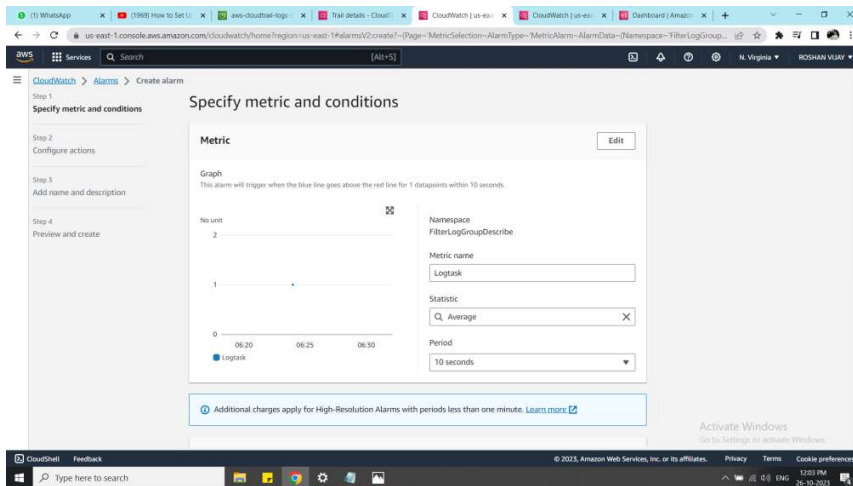
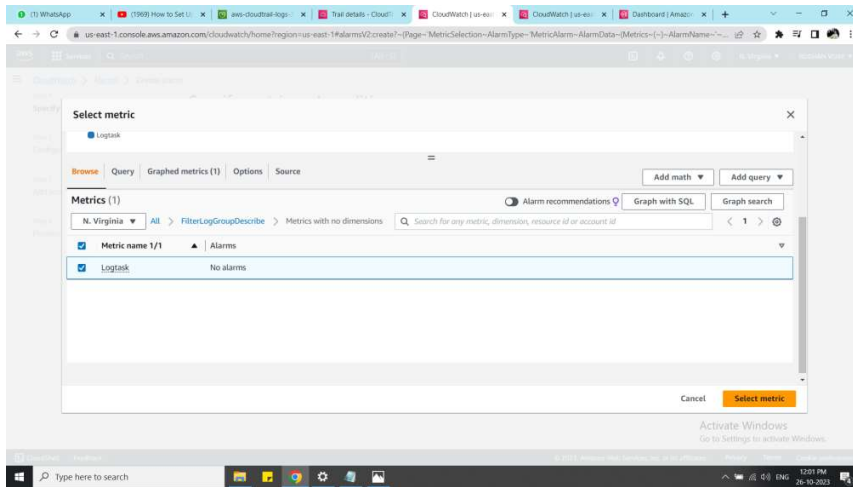
Next goto the cloudwatch alarm and create the new alarm



Step 12:

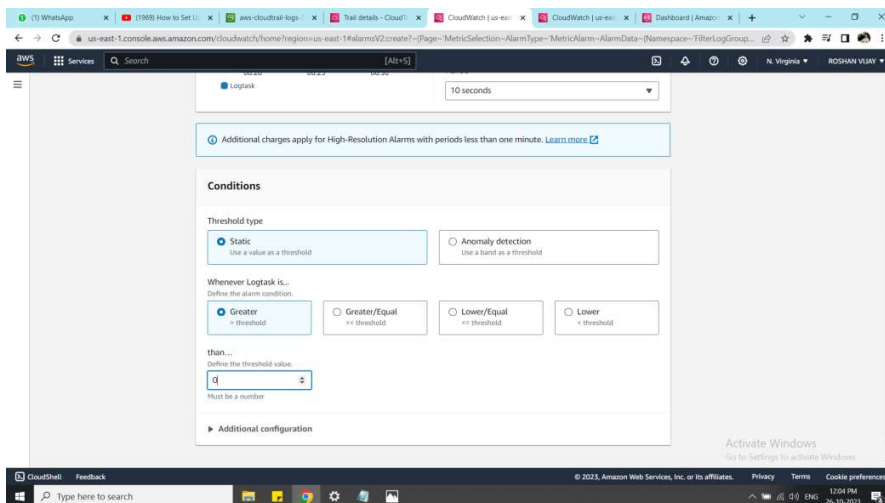
select metric --> in the metric section,select the time period to 10s





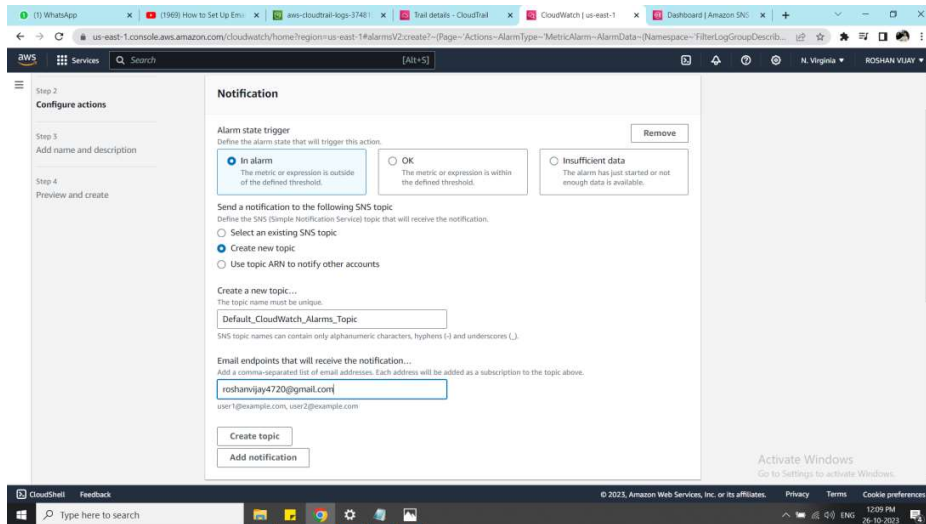
Step 13:

in conditions select the threshold type as static and greater than 0 --> next



Step 14:

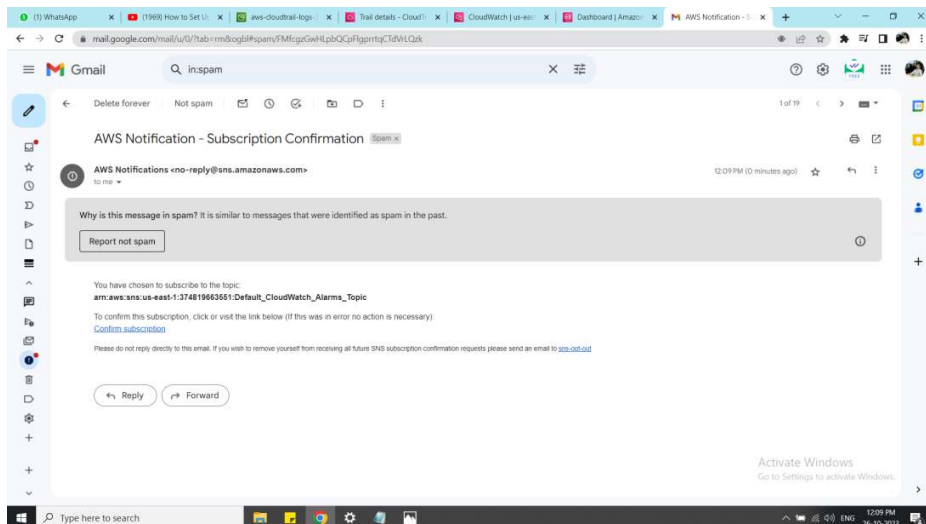
In the configure notification tab, alarm state trigger --> In alarm --> SNS topic --> create a new topic --> add the user email-id --> create topic

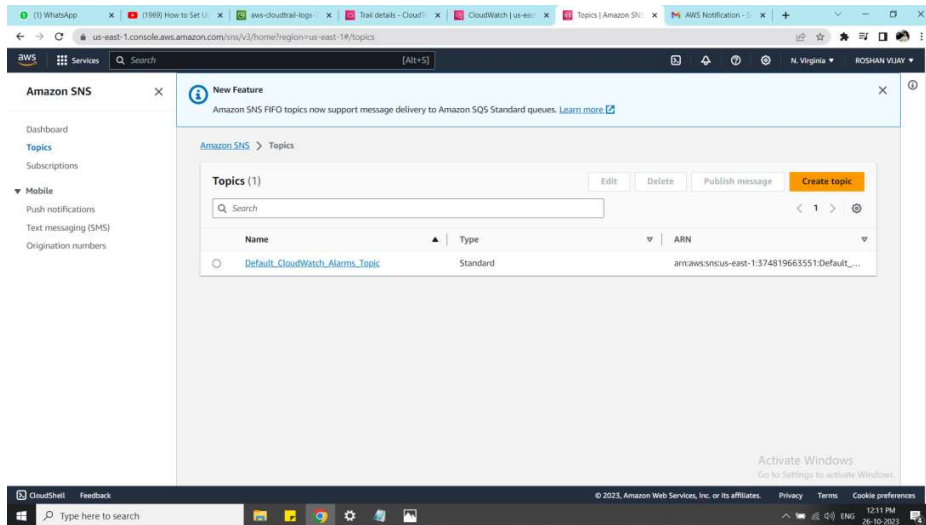


Step 15:

now check the email inbox and confirm the subscription

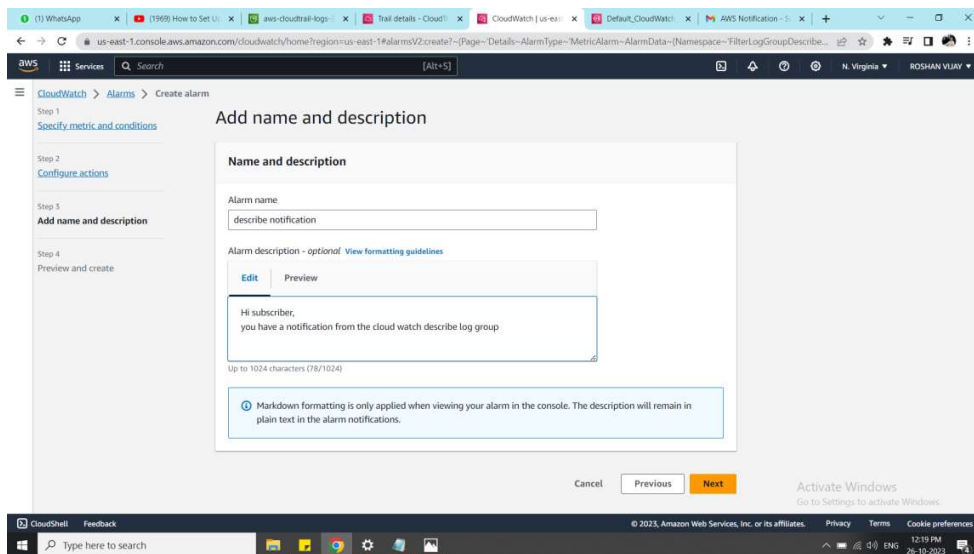
now new SNS topic has been created





Step 16:

Add the alarm name and customize the notification message and review the alarm configuration and create alarm



us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2/create?-(Page--Preview--AlarmType--MetricAlarm--AlarmData--(Namespace--FilterLogGroupDescri...

Preview and create

Step 1: Specify metric and conditions

Metric

Graph

This alarm will trigger when the blue line goes above the red line for 1 datapoints within 10 seconds.

No unit: 1

0.5

0 06:35 06:40 06:45

Logtask

Namespace: FilterLogGroupDescribe

Metric name: Logtask

Statistic: Average

Period: 10 seconds

Conditions

Activate Windows
Go to Settings to activate Windows.

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12:19 PM 26-10-2023

us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#alarmsV2/create?-(Page--Preview--AlarmType--MetricAlarm--AlarmData--(Namespace--FilterLogGroupDescri...

Step 2: Configure actions

Actions

Notification

When in alarm, send a notification to "Default_CloudWatch_Alarms_Topic"

Step 3: Add name and description

Name and description

Name

describe notification

Description

Hi subscriber,
you have a notification from the cloud watch describe log group

Markdown formatting is only applied when viewing your alarm in the console. The description will remain in plain text in the alarm notifications.

Cancel Previous **Create alarm**

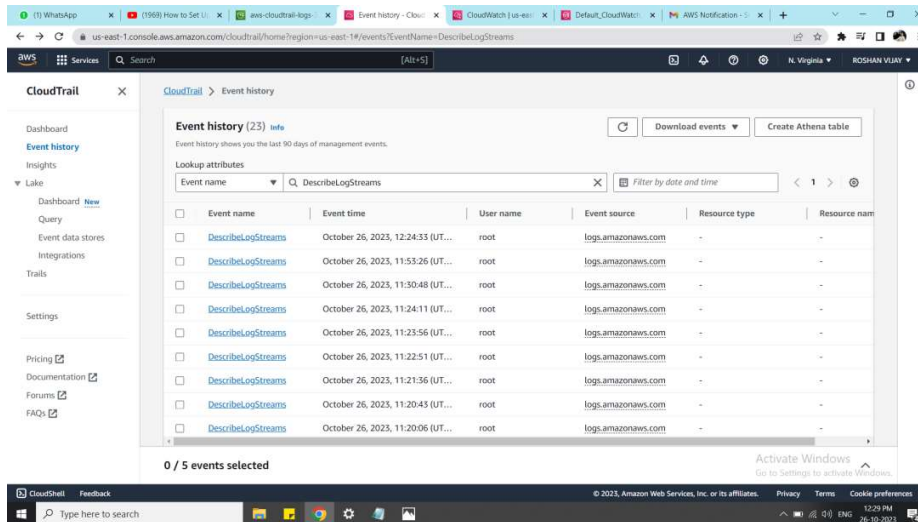
Activate Windows
Go to Settings to activate Windows.

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12:19 PM 26-10-2023

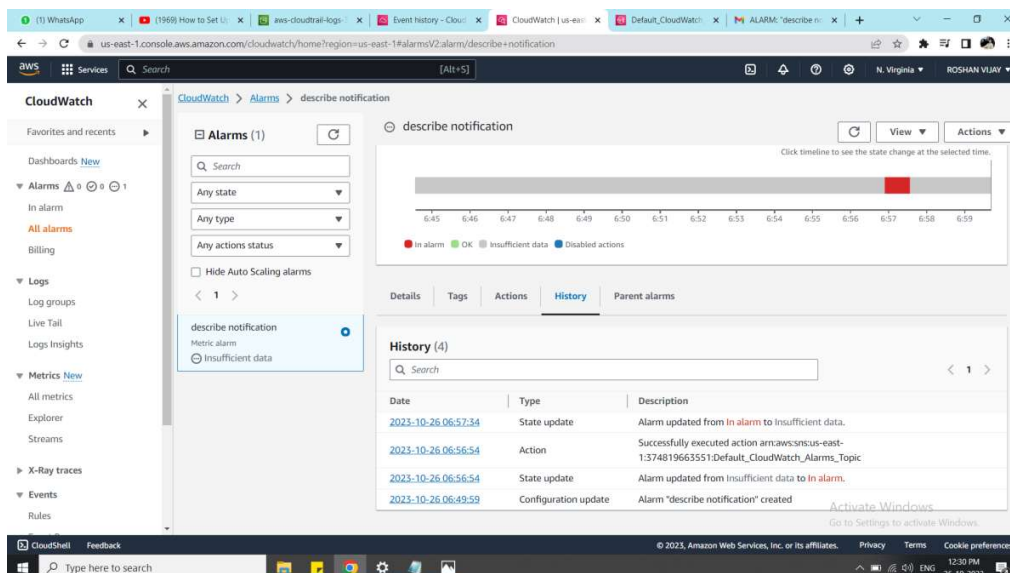
Step 17:

Now go to the cloud Trial Event history and check whether the log configured is started creating the logs



Step 18:

In the cloud watch alarm, check the alarm history changes, and now the notification email will be dropped in the inbox



1 (1) WhatsApp x (1969) How to Set U... x aws-cloudtrail-logs... x Event history - Cloud... x CloudWatch | us-east... x Default_CloudWatch... x ALARM: "describe no... x

mail.google.com/mail/u/0/?tab=rm&ogbl#inbox/FMfcgZGwHLqhsQwkowLmhRPWggfLkKdV

Gmail Search mail

1 of 10,335

ALARM: "describe notification" in US East (N. Virginia) Inbox x

AWS Notifications <no-reply@sns.amazonaws.com> 12:26 PM (3 minutes ago) to me

You are receiving this email because your Amazon CloudWatch Alarm "describe notification" in the US East (N. Virginia) region has entered the ALARM state, because "Threshold Crossed: 1 out of the last 1 datapoints [1.0 (26/10/23 06:56:00)] was greater than the threshold (0.0) (minimum 1 datapoint for OK -> ALARM transition)" at "Thursday 26 October, 2023 06:56:54 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/describe%20notification

Alarm Details:

- Name: describe notification
- Description: Hi subscriber, you have a notification from the cloud watch describe log group
- State Change: INSUFFICIENT_DATA -> ALARM
- Reason for State Change: Threshold Crossed: 1 out of the last 1 datapoints [1.0 (26/10/23 06:56:00)] was greater than the threshold (0.0) (minimum 1 datapoint for OK -> ALARM transition).
- Timestamp: Thursday 26 October, 2023 06:56:54 UTC
- AWS Account: 374819663551
- Alarm Arn: arn:aws:cloudwatch:us-east-1:374819663551:alarm:describe notification

Threshold:

- The alarm is in the ALARM state when the metric is GreaterThanThreshold 0.0 for at least 1 of the last 1 period(s) of 10 seconds.

Monitored Metric:

- MetricNamespace: FilterLogGroupDescribe
- MetricName: Logtask
- Dimensions:
- Period: 10 seconds
- Statistic: Average
- Unit: not specified

Activate Windows
Go to Settings to activate Windows.

Type here to search

12:30 PM
26-10-2023