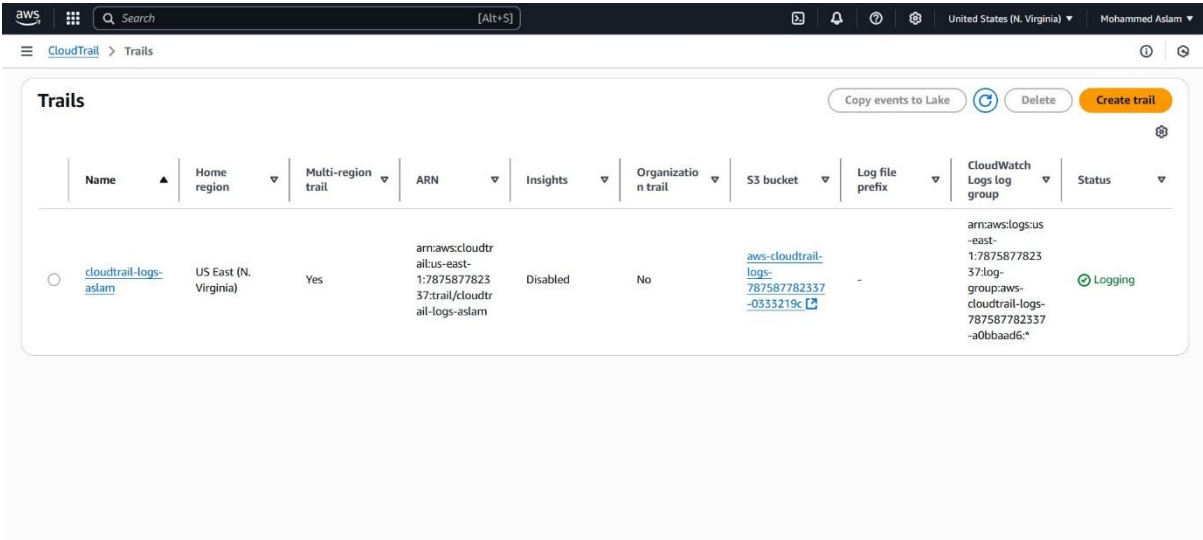
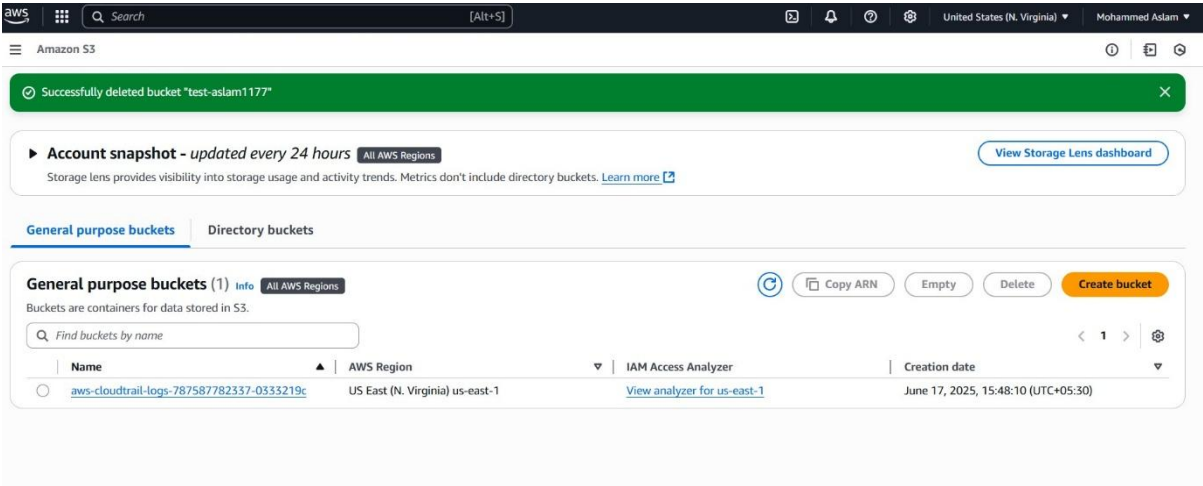


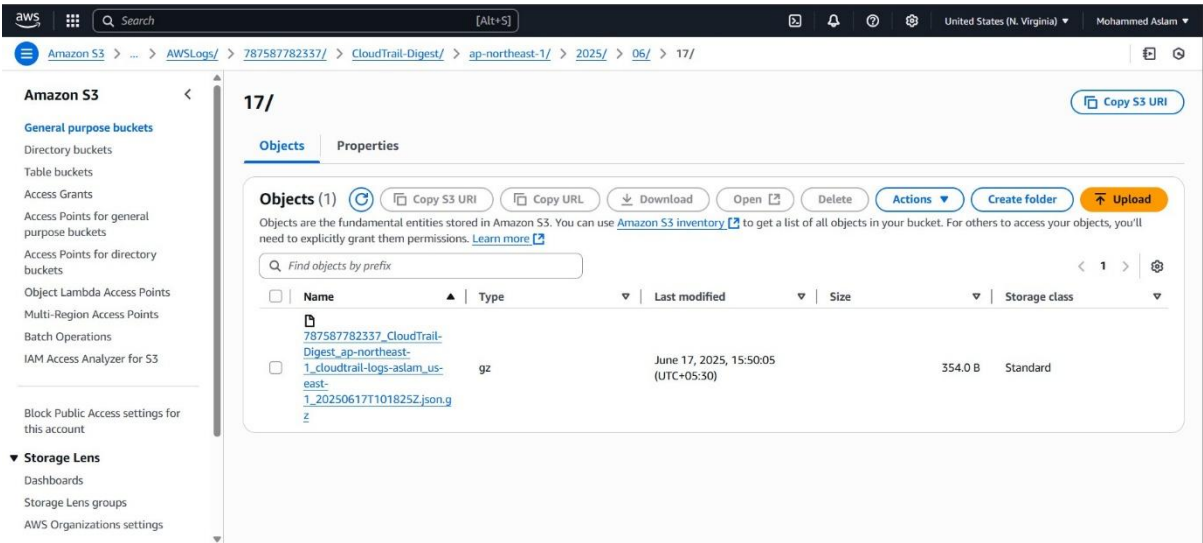
1) Enable cloudtrail monitoring and store the events in s3 and cloudwatch log events.



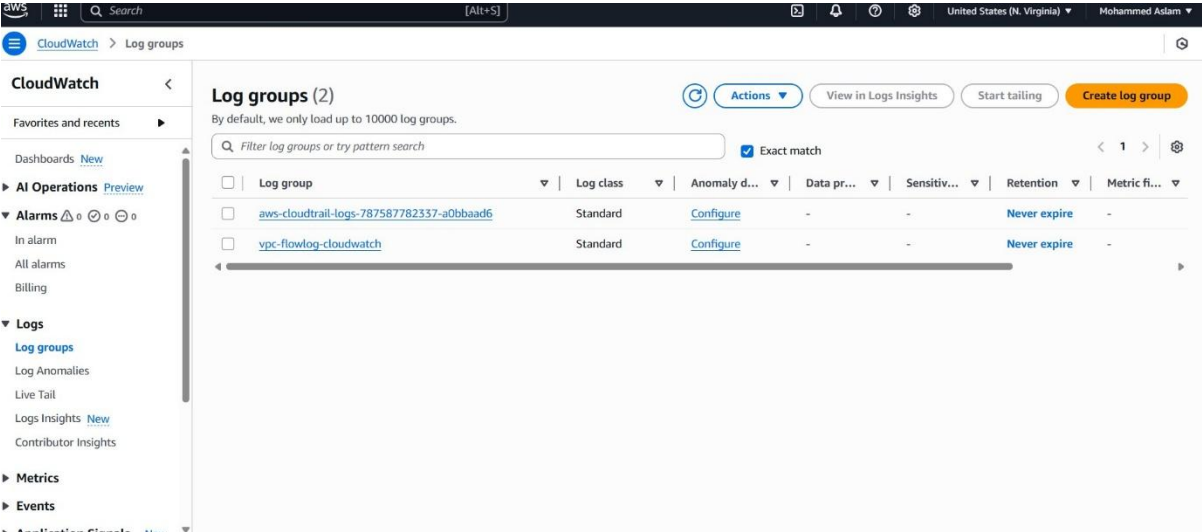
S3 bucket created after cloudtrail enabling



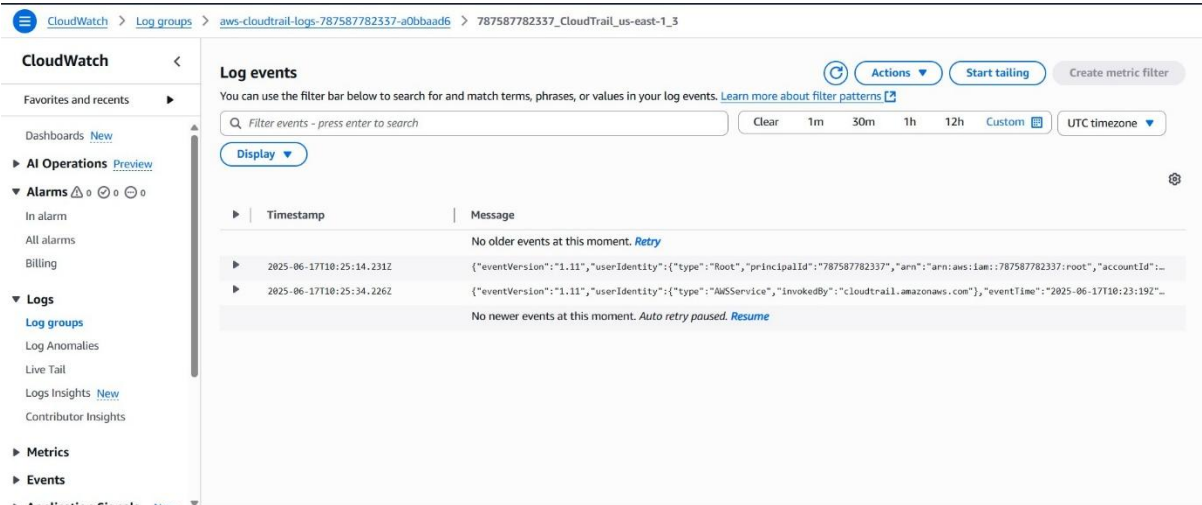
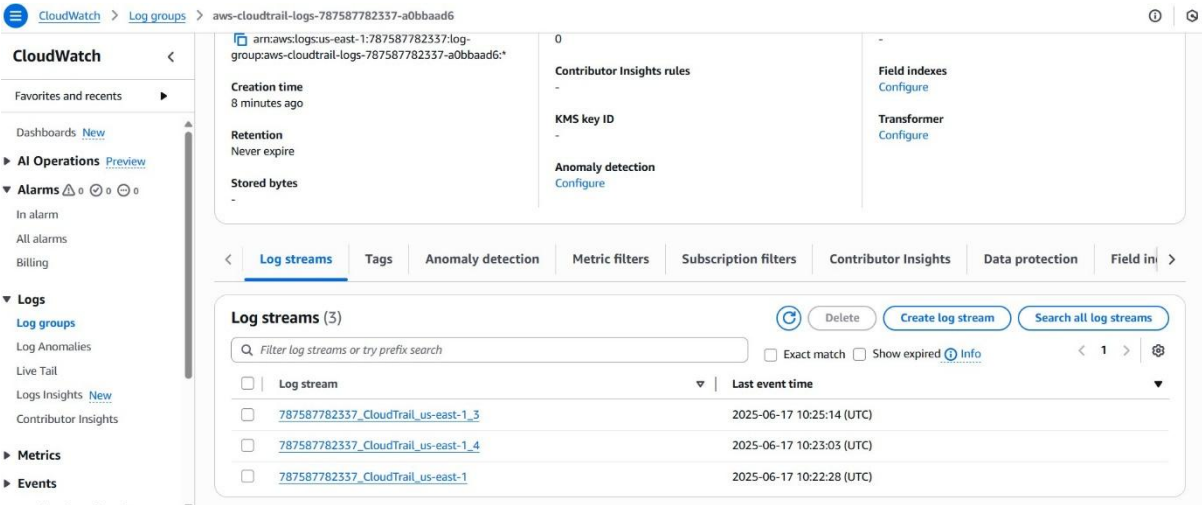
Logs in s3



Automatically group got creating post enabling cloud trail



Logs in cloudwatch



CloudWatch > Log groups > aws-cloudtrail-logs-787587782337-a0bbaad6 > 787587782337_CloudTrail_us-east-1_4

CloudWatch

Log events

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

Filter events - press enter to search

Clear 1m 30m 1h 12h Custom UTC timezone

Display

Timestamp	Message
2025-06-17T10:24:39.147Z	{"eventVersion":"1.11","userIdentity":{"type":"AWSService","invokedBy":"cloudtrail.amazonaws.com"},"eventTime":"2025-06-17T10:23:04...
2025-06-17T10:24:39.147Z	{"eventVersion":"1.11","userIdentity":{"type":"Root","principalId":"787587782337","arn":"arn:aws:iam::787587782337:root","accountId...
2025-06-17T10:24:39.147Z	{"eventVersion":"1.11","userIdentity":{"type":"Root","principalId":"787587782337","arn":"arn:aws:iam::787587782337:root","accountId...
2025-06-17T10:24:39.147Z	{"eventVersion":"1.11","userIdentity":{"type":"Root","principalId":"787587782337","arn":"arn:aws:iam::787587782337:root","accountId...
2025-06-17T10:24:39.147Z	{"eventVersion":"1.11","userIdentity":{"type":"AWSService","invokedBy":"cloudtrail.amazonaws.com"},"eventTime":"2025-06-17T10:23:15...
2025-06-17T10:24:39.147Z	{"eventVersion":"1.11","userIdentity":{"type":"AWSService","invokedBy":"cloudtrail.amazonaws.com"},"eventTime":"2025-06-17T10:23:18...
2025-06-17T10:24:39.147Z	{"eventVersion":"1.11","userIdentity":{"type":"AWSService","invokedBy":"cloudtrail.amazonaws.com"},"eventTime":"2025-06-17T10:23:47...
2025-06-17T10:25:44.881Z	{"eventVersion":"1.11","userIdentity":{"type":"Root","principalId":"787587782337","arn":"arn:aws:iam::787587782337:root","accountId...
2025-06-17T10:25:44.881Z	{"eventVersion":"1.11","userIdentity":{"type":"Root","principalId":"787587782337","arn":"arn:aws:iam::787587782337:root","accountId...
2025-06-17T10:25:44.881Z	{"eventVersion":"1.09","userIdentity":{"type":"Root","principalId":"787587782337","arn":"arn:aws:iam::787587782337:root","accountId...

2) Enable SNS for cloudtrial to send alert on email.

Amazon SNS > Topics > aleart

aleart

Edit Delete Publish message

Details

Name aleart	Display name cloudtrail-aleart
ARN arn:aws:sns:us-east-1:787587782337:aleart	Topic owner 787587782337
Type Standard	

< Subscriptions Access policy Data protection policy Delivery policy (HTTP/S) Delivery status logging Encryption Tags >

Subscriptions (1)

Edit Delete Request confirmation Confirm subscription Create subscription

Search

ID	Endpoint	Status	Protocol
4b251f9e-369a-4a2b-a135-2d309...	aslamdevops@outlook.com	Confirmed	EMAIL

SNS notification are coming in emails.

Other Emails (4)

Amazon Web Services; Slack

Term Life Insurance Pl **Ad** ...

Top 5 Term Insurance Plans

Higher Life Cover*, Affordable Pr...

cloudtrail-aleart

AWS Notification Mes... 10:23 AM

("s3Bucket":"aws-cloudtrail-logs-...

cloudtrail-aleart

AWS Notification Mes... 10:23 AM

("s3Bucket":"aws-cloudtrail-logs-...

cloudtrail-aleart

AWS Notification Mes... 10:18 AM

CloudTrail validation message. If ...

cloudtrail-aleart

AWS Notification Mes... 10:18 AM

CloudTrail validation message. If ...

cloudtrail-aleart

AWS Notification Mes... 10:18 AM

CloudTrail validation message. If ...

cloudtrail-aleart<no-reply@sns.amazonaws.com>

To: You

Tue 6/17/2025 10:23 AM

("s3Bucket":"aws-cloudtrail-logs-787587782337-0333219c","s3ObjectKey":

["AWSLogs/787587782337/CloudTrail/us-east-1/2025/06/17/787587782337_CloudTrail_us-east-1_20250617T1025Z_l4gawj4g8ulN2tks.json.gz"]

--

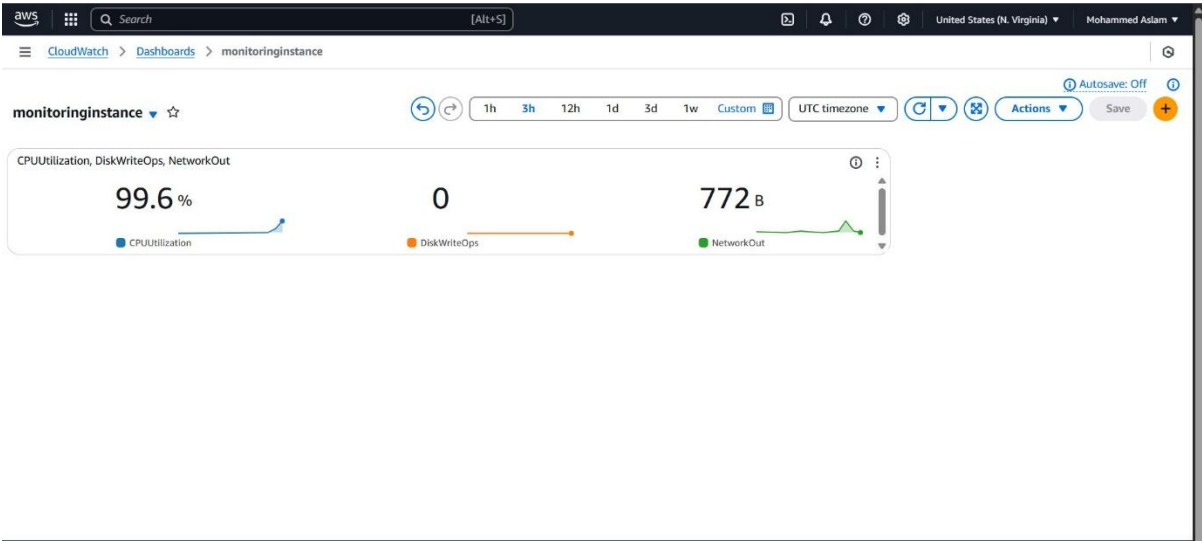
If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

<https://sns.us-east-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-1:787587782337:aleart:4b251f9e-369a-4a2b-a135-2d30918357ce&Endpoint=aslamdevops@outlook.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>

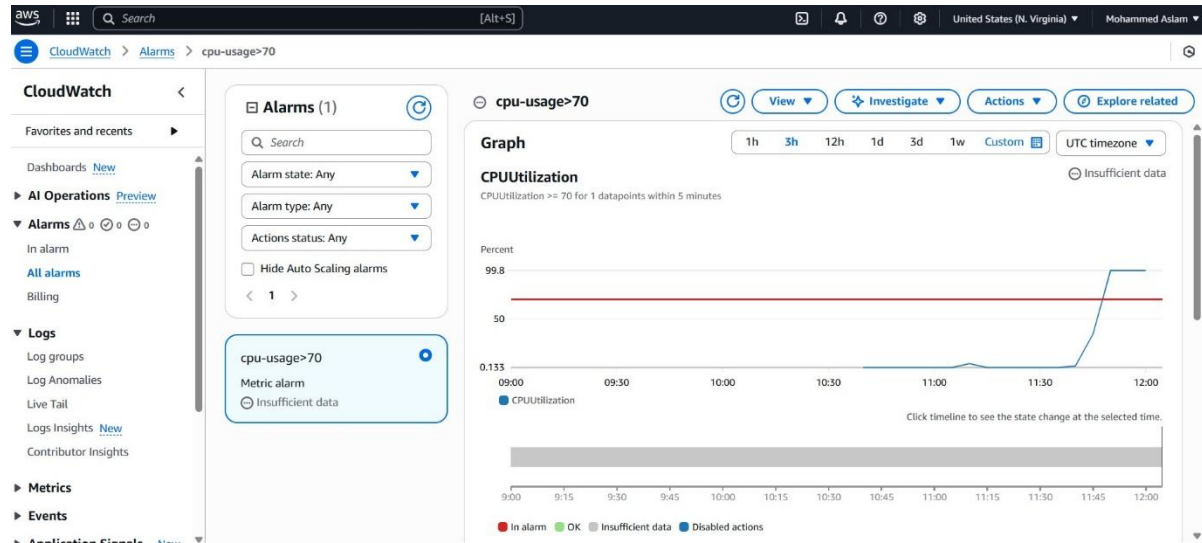
Reply Forward

3) Configure cloud watch monitoring and record the cpu utilization and other metrics of ec2.



4) Create one alarm to send alert to email if the cpu utilization is more than 70 percent.

Created an alarm for cpu usage



Email received

ALARM: "cpu-usage>70" in US East (N. Virginia)

C

cloudtrail-aleart<no-reply@sns.amazonaws.com>

To: You

Tue 6/17/2025 12:05 PM

You are receiving this email because your Amazon CloudWatch Alarm "cpu-usage>70" in the US East (N. Virginia) region has entered the ALARM state, because "Threshold Crossed: 1 out of the last 1 datapoints [99.74999999999994 (17/06/25 12:00:00)] was greater than or equal to the threshold (70.0) (minimum 1 datapoint for OK -> ALARM transition)." at "Tuesday 17 June, 2025 12:05:48 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/cpu-usage%3E70>

Alarm Details:

- Name: cpu-usage>70
- Description:
- State Change: INSUFFICIENT_DATA -> ALARM
- Reason for State Change: Threshold Crossed: 1 out of the last 1 datapoints [99.74999999999994 (17/06/25 12:00:00)] was greater than or equal to the threshold (70.0) (minimum 1 datapoint for OK -> ALARM transition).
- Timestamp: Tuesday 17 June, 2025 12:05:48 UTC
- AWS Account: 787587782337
- Alarm Arn: arn:aws:cloudwatch:us-east-1:787587782337:alarm:cpu-usage>70

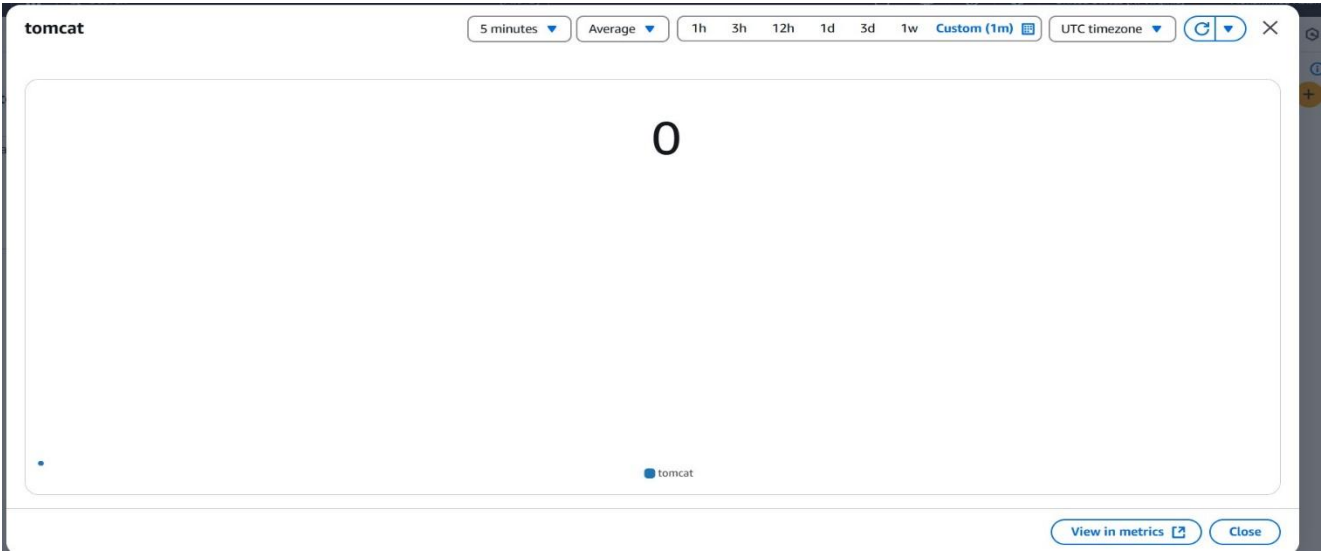
Threshold:

5) Create Dashboard and monitor tomcat service whether it is running or not and send the alert.

output of graph when tomcat is running

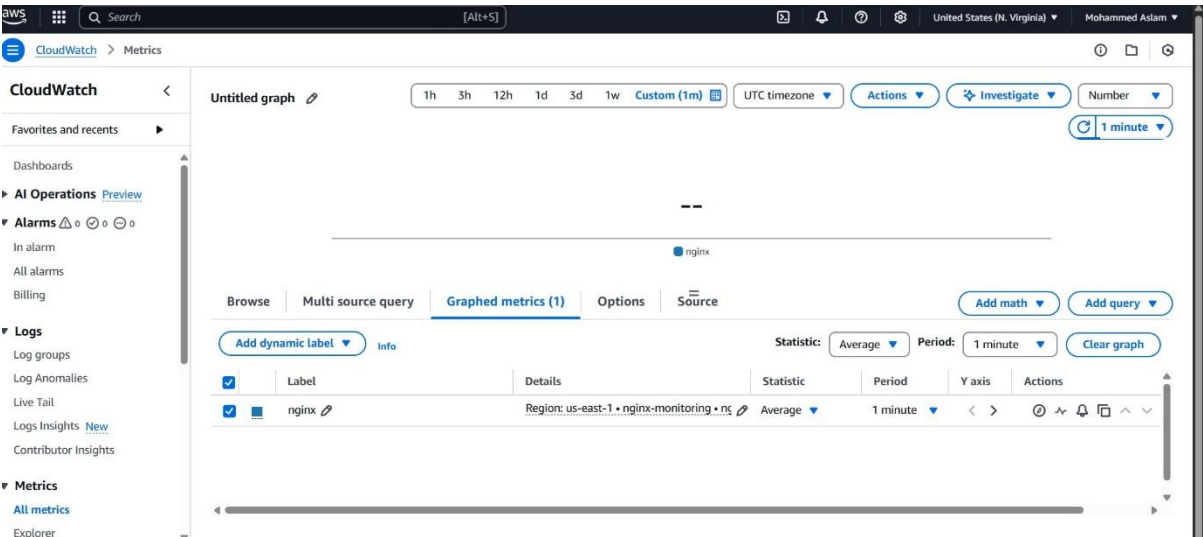


Output of graph when tomcat is stopped



6) Create Dashboard and monitor nginx service to send the alert if nginx is not running.

When nginx is not Working no update



Nginx is working



