

School of Computer Science, Engineering and Applications(SCSEA)

B.C.A. TY (SCSEA)

Subject: Advance Cloud Computing(ACC)

Name of the Student: Shrushtio Krishna Shrivastav

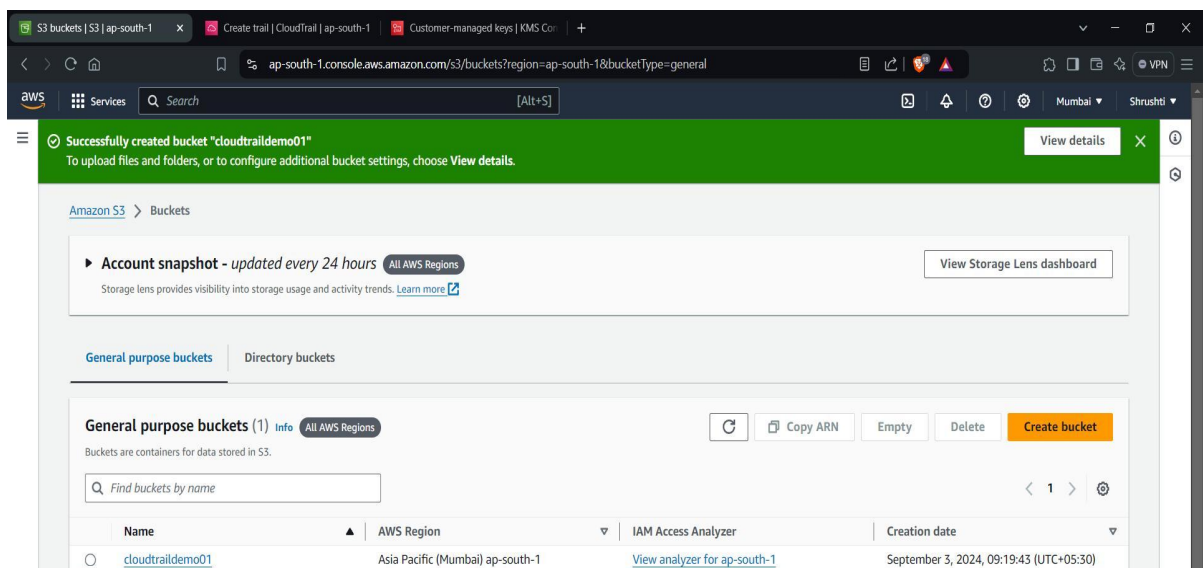
PRN: 20220801024

Title of Practicle : AWS CloudTrail with CloudWatch and SNS

Step1: log in to your account and go to S3 service and Create S3 bucket

Name(cloudtrail01demo)

Versioning(enabled)



Step2: Cloud trail

create trail

(A)

choose attribute

Trailname-- cloudtrail_01

Storage-- existing s3 bucket--browse--select

KMS encryption--enabled

Customer managed KMS key--new--KMSccloudtrail

Additional setting:

Logfile validation--enabled



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SNS notification--enabled

Create new SNS topic:

New--cloudtrail--topic03sep

Cloudwatch logs:

log:enabled

Log group: new--name--aws-cloudtrail-demo01

IAM role: new--IAMCloudTrail

Next

(B)

Log event

Check all 3 events: (management; data; insight)

Data event: event type--s3

Next

(C)

Review

Create.

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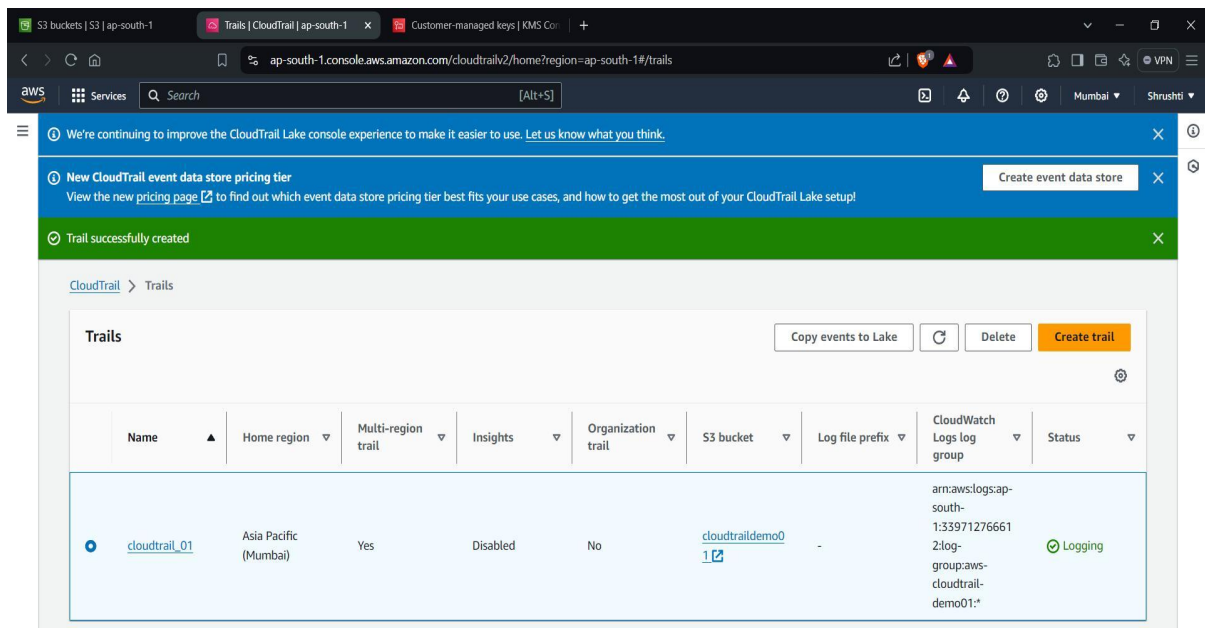
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Step3: SNS

Amazon SNS>Subscription>create

(sns-- '='-- topics-- select created topic-- scroll up -- create subscription)

Protocol: email

Endpoint: (email)

create

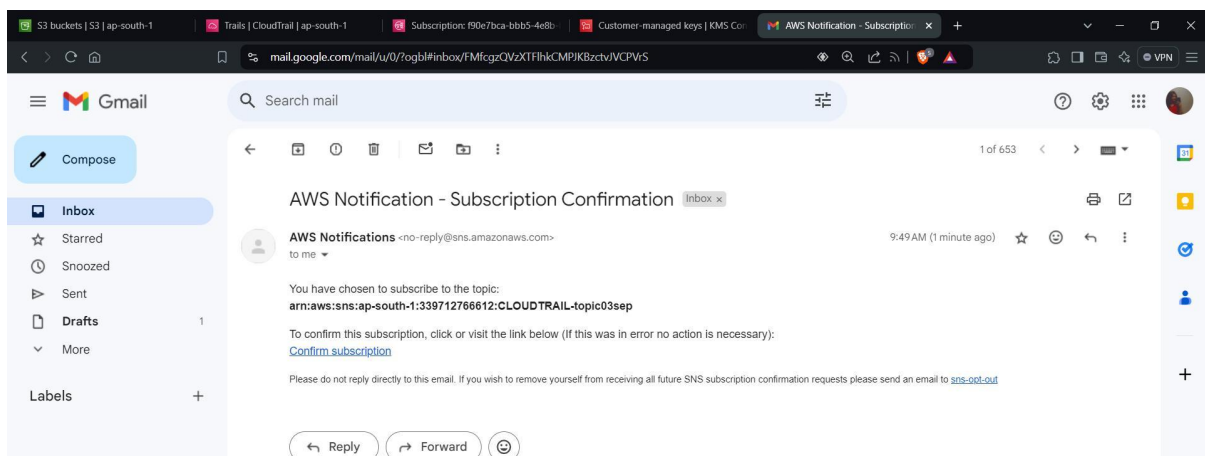
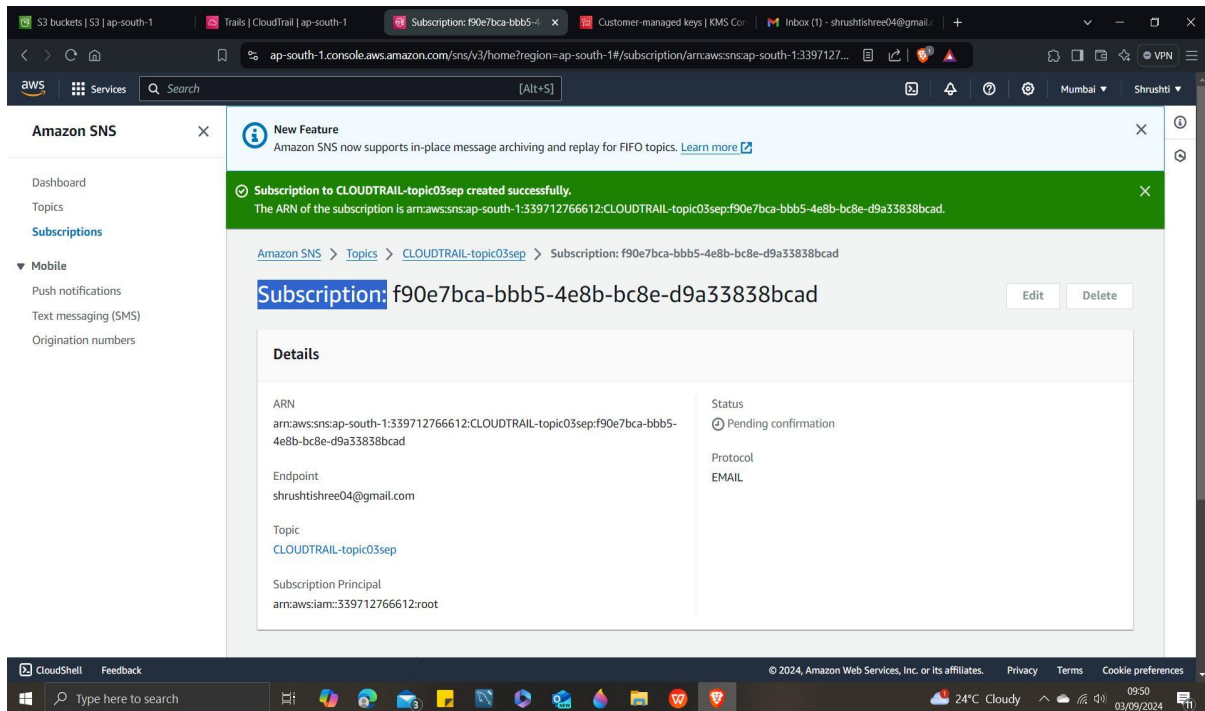
Go to email and subscribe

Refresh the SNS page and ensure the status is confirmed

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Step6: cloudwatch

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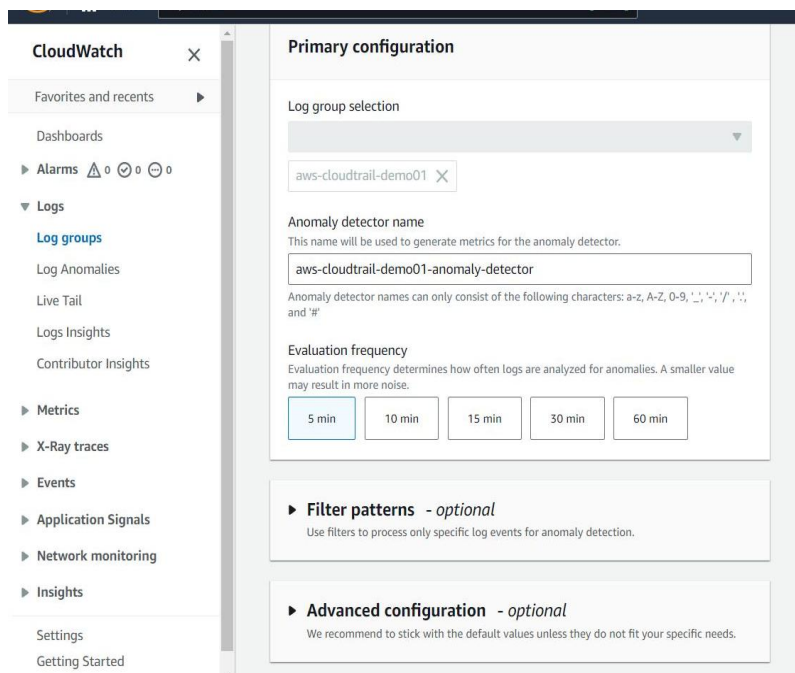
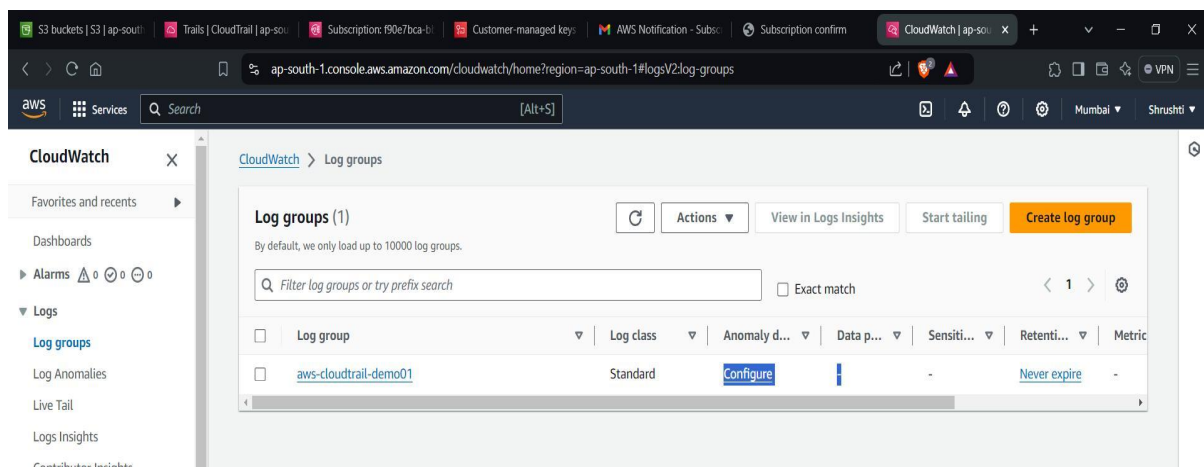
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Cloudwatch-- log group-- configure-- evaluation frequency-- 5min

Activate anomaly detection



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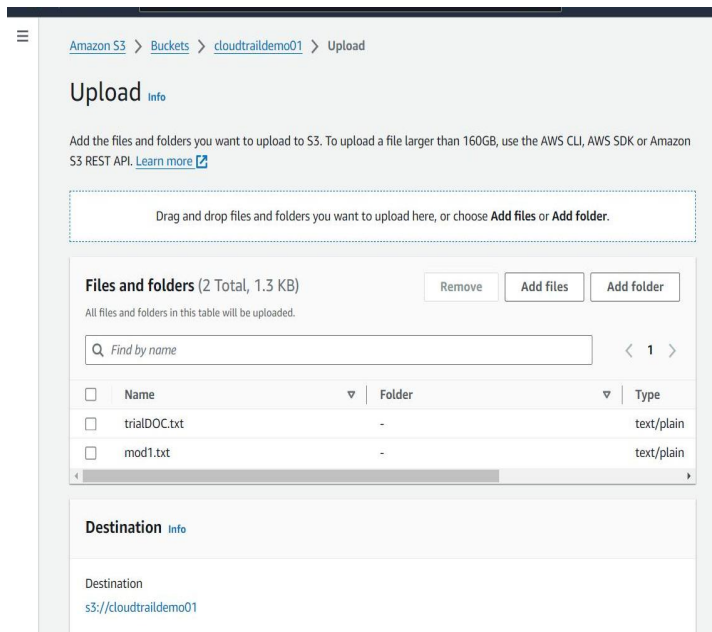
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Step6:s3 bucket

Add files in bucket



The screenshot shows the Amazon S3 'Upload' page for a bucket named 'cloudtraildemo01'. The breadcrumb navigation is 'Amazon S3 > Buckets > cloudtraildemo01 > Upload'. The page title is 'Upload' with an 'Info' link. Below the title, there is a message: 'Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)'. A dashed box contains the instruction: 'Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.' Below this, there is a section titled 'Files and folders (2 Total, 1.3 KB)' with 'Remove', 'Add files', and 'Add folder' buttons. A note states: 'All files and folders in this table will be uploaded.' There is a search bar with the placeholder 'Find by name' and a pagination control showing '< 1 >'. A table lists the files to be uploaded:

<input type="checkbox"/>	Name	Folder	Type
<input type="checkbox"/>	trialDOC.txt	-	text/plain
<input type="checkbox"/>	mod1.txt	-	text/plain

Below the table is a 'Destination' section with an 'Info' link. It shows the destination as 's3://cloudtraildemo01'.

Step7: check

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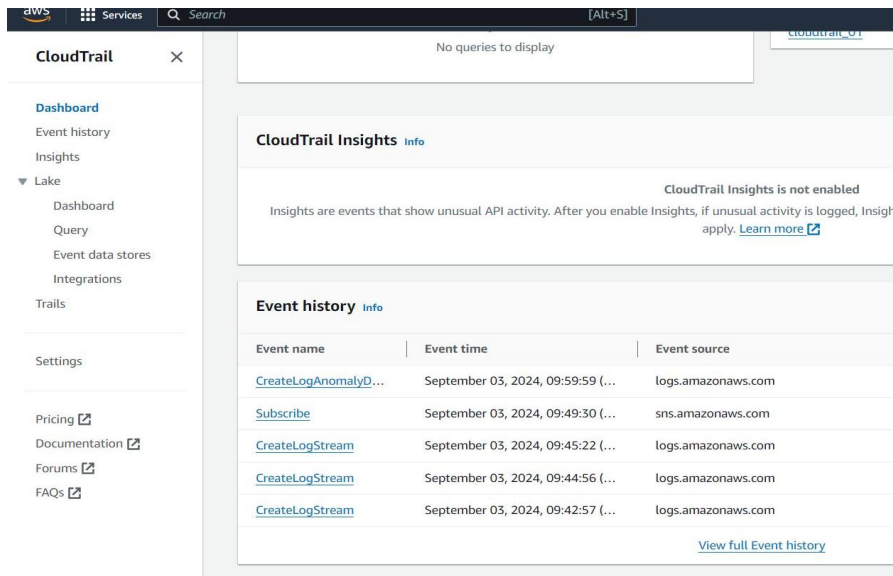
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The screenshot shows the AWS CloudTrail console. The left sidebar contains navigation links: Dashboard, Event history, Insights, Lake, Dashboard, Query, Event data stores, Integrations, Trails, Settings, Pricing, Documentation, Forums, and FAQs. The main content area shows the CloudTrail Insights section, which is currently disabled. Below this, the Event history table is displayed, showing a list of events with columns for Event name, Event time, and Event source.

Event name	Event time	Event source
CreateLogAnomalyD...	September 03, 2024, 09:59:59 (...)	logs.amazonaws.com
Subscribe	September 03, 2024, 09:49:30 (...)	sns.amazonaws.com
CreateLogStream	September 03, 2024, 09:45:22 (...)	logs.amazonaws.com
CreateLogStream	September 03, 2024, 09:44:56 (...)	logs.amazonaws.com
CreateLogStream	September 03, 2024, 09:42:57 (...)	logs.amazonaws.com

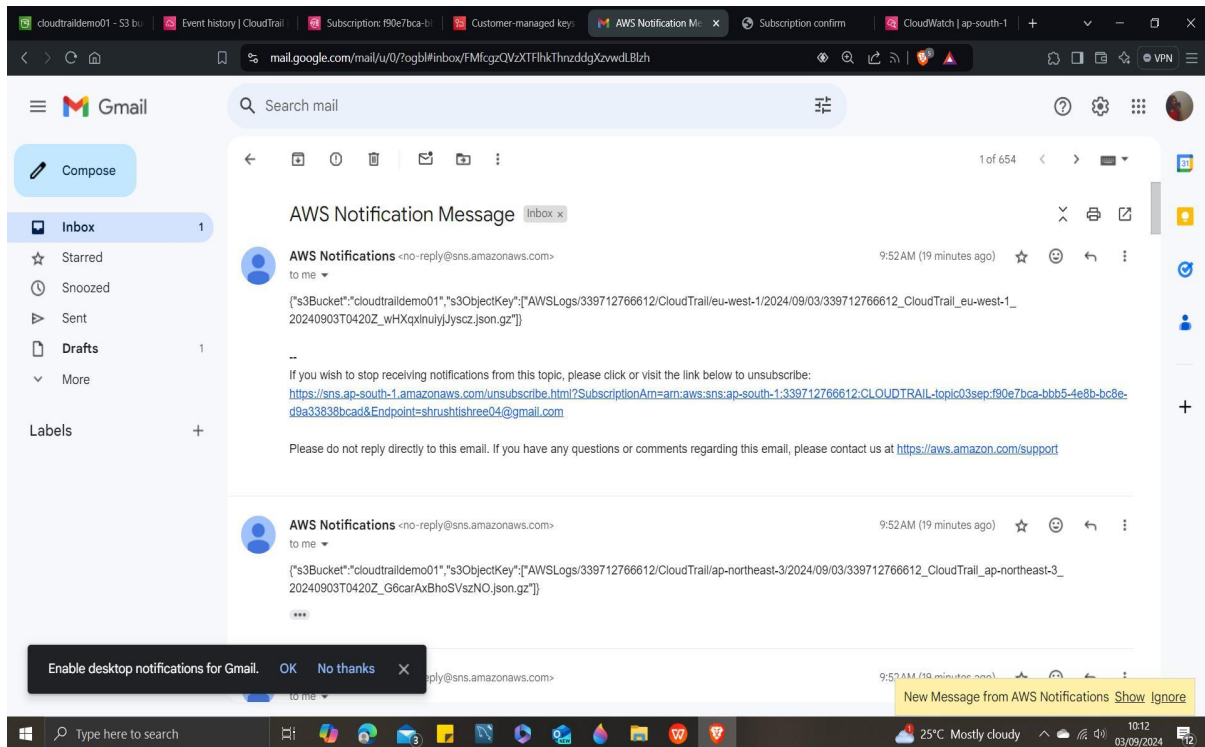
[View full Event history](#)

Step8:check mail

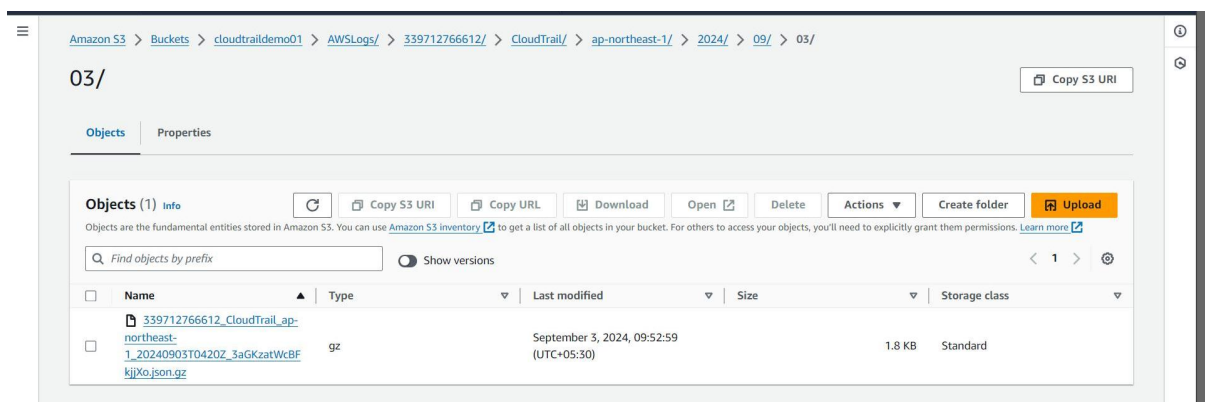
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Step9: check log



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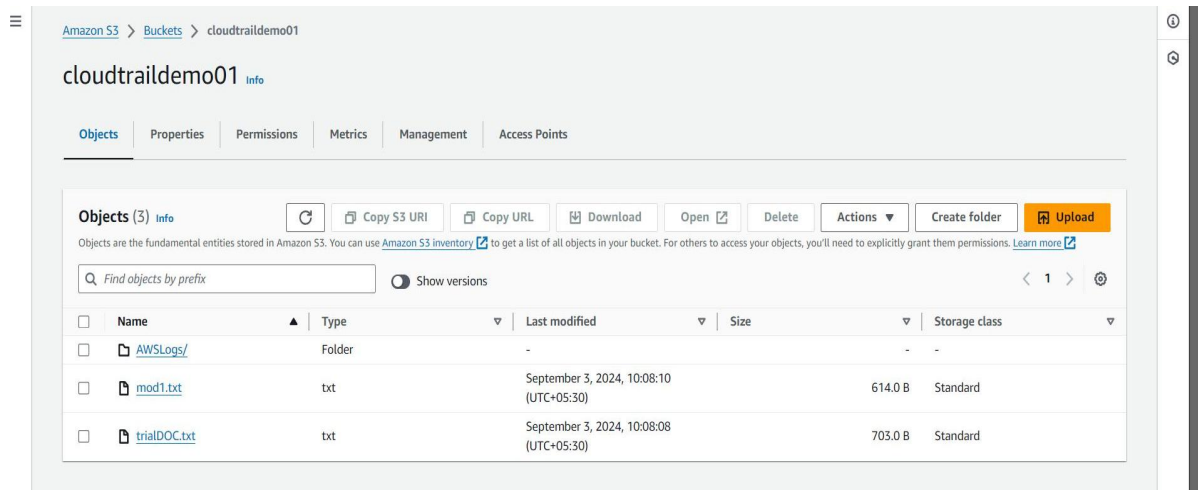
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Steps to delete this set-up

Un-subscribe

(S3)Empty bucket-- delete

(cloudtrail)Trails-- delete

(SNS)Topics-- delete

(cloudwatch)Log group-- action-- delete log group

(KMS)disable the created key and schedule deletion

(IAM)delete role