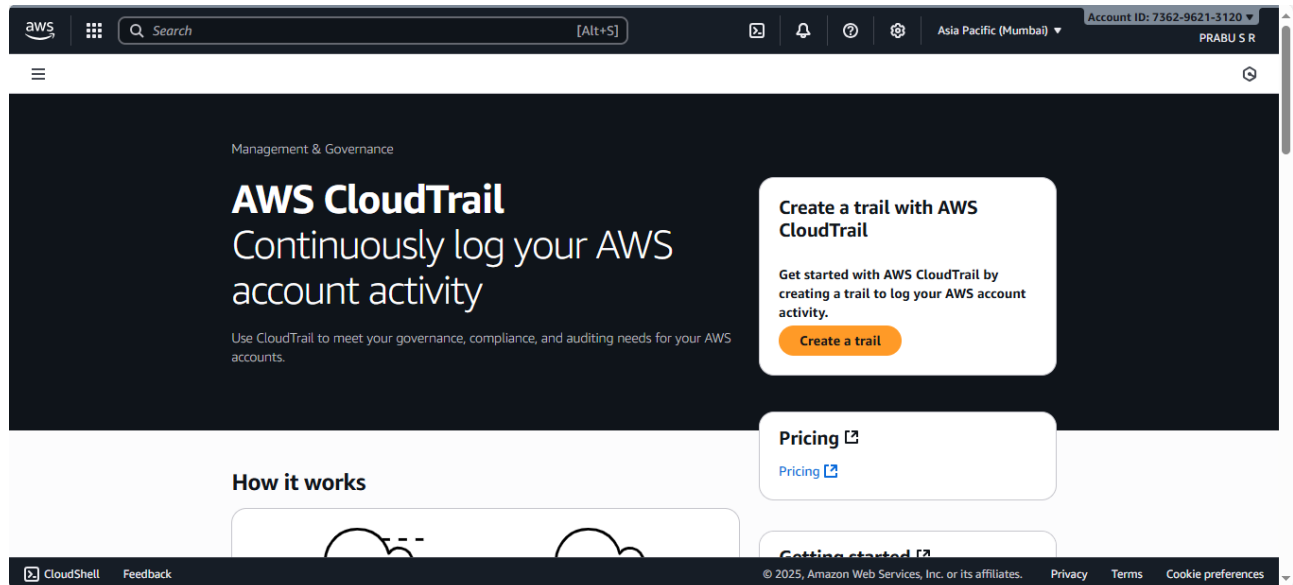


1. Create a S3 bucket, with no public access and upload files to the bucket & view the logs using cloudwatch for the uploaded files.

To get logs from s3 bucket, i used cloudtrial and cloudwatch

i created a cloudtrial

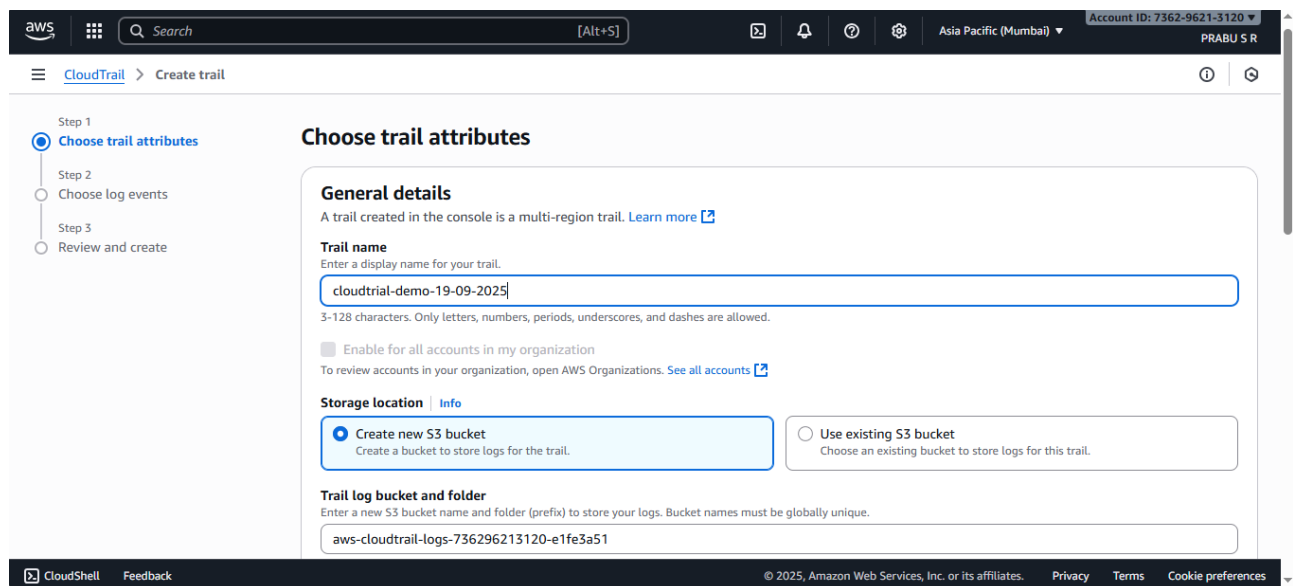


ⓘ Though there is no cost to log these events, you incur charges for the S3 bucket that we create to store your logs.

Trail details

Start logging management events by creating a trail with simplified settings. Logs are sent to an S3 bucket we create on your behalf. To choose a different bucket or additional events, go to the full [Create trail workflow](#).

click create trial



aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

CloudTrail

Create trail

Log file SSE-KMS encryption

Info

Enabled

Customer managed AWS KMS key

New

Existing

AWS KMS alias

Enter KMS alias

KMS key and S3 bucket must be in the same region.

Additional settings

Log file validation

Info

Enabled

SNS notification delivery

Info

Enabled

CloudWatch Logs - optional

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

CloudTrail

Create trail

CloudWatch Logs - optional

Configure CloudWatch Logs to monitor your trail logs and notify you when specific activity occurs. Standard CloudWatch and CloudWatch Logs charges apply. [Learn more](#)

CloudWatch Logs

Info

Enabled

Log group

Info

New

Existing

Log group name

aws-cloudtrail-logs-736296213120-01d2f52f

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

demo

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

CloudTrail

Create trail

Step 1

Choose trail attributes

Step 2

Choose log events

Step 3

Review and create

Choose log events

Events

Info

Record API activity for individual resources, or for all current and future resources in AWS account. [Additional charges apply](#)

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.

Network activity events

Network activity events provide information about resource operations performed on a resource within a virtual private cloud endpoint.

Management events

Info

Management events show information about management operations performed on resources in your AWS account.

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

CloudTrail > Create trail

Use the following fields for fine-grained control over the data events captured by your trail.

▼ Data event: S3

Remove

Resource type

Choose the resource type for which you want to log data events.

S3

Log selector template

Log all events

Selector name - optional

Enter a name

1,000 character limit

► JSON view

Add data event type

Insights events

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

CloudTrail > Create trail

1,000 character limit

► JSON view

Add data event type

Insights events

Identify unusual activity, errors, or user behavior in your account. Additional charges apply

Choose Insights types

Insights measure unusual activity against a seven-day baseline.

☒ API call rate

A measurement of write-only management API calls that occur per minute against a baseline API call volume.

☒ API error rate

A measurement of management API calls that result in error codes. The error is shown if the API call is unsuccessful.

Cancel

Previous

Next

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

CloudTrail > Trails

Trail successfully created

Copy events to Lake

Delete

Create trail

Trails

	Name ▲	Home region ▼	Multi-region trail ▼	ARN ▼	Insights ▼	Organization trail ▼	S3 bucket ▼	Log file prefix ▼	CloudWatch Logs log group ▼	Status ▼
<input type="radio"/>	cloudtrail-demo-19-09-2025	Asia Pacific (Mumbai)	Yes	arn:aws:cloudtrail:ap-south-1:736296213120:trail/cloudtrail-demo-19-09-2025	Enabled	No	aws-cloudtrail-logs-736296213120-e1fe3a51	-	arn:aws:logs:ap-south-1:736296213120:log-group:aws-cloudtrail-logs-736296213120-01d2f52f:*	Logging

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

CloudTrail

Trails

arn:aws:cloudtrail:ap-south-1:736296213120:trail/cloudtrial-demo-19-09-2025

cloudtrial-demo-19-09-2025

Delete

Stop logging

General details

Edit

Trail logging

Logging

Trail name

cloudtrial-demo-19-09-2025

Multi-region trail

Yes

Apply trail to my organization

Not enabled

Trail log location

aws-cloudtrail-logs-736296213120-e1fe3a51/AWSLogs/736296213120

Last log file delivered

-

Log file SSE-KMS encryption

Enabled

AWS KMS key

arn:aws:kms:ap-south-1:736296213120:key/8e75912b-6fe0-4df6-af61-81d0967d23e2

AWS KMS key alias

demo-key

Log file validation

Enabled

Last file validation delivered

-

SNS notification delivery

Disabled

Last SNS notification

-

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

Amazon S3

Buckets

aws-cloudtrail-logs-736296213120-e1fe3a51

AWSLogs

736296213120/

Amazon S3

General purpose buckets

Directory buckets

Table buckets

Vector buckets

Access Grants

Access Points (General Purpose Buckets, FSx file systems)

Access Points (Directory Buckets)

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

736296213120/

Copy S3 URI

Objects

Properties

Objects (3)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

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](#)

Find objects by prefix

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	CloudTrail-Digest/	Folder	-	-	-
<input type="checkbox"/>	CloudTrail-Insight/	Folder	-	-	-
<input type="checkbox"/>	CloudTrail/	Folder	-	-	-

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

the cloud trail creates a log group in cloudwatch

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

CloudWatch

Log groups

CloudWatch

Favorites and recents

Dashboards

AI Operations

Alarms

Logs

Log groups

Log Anomalies

Live Tail

Logs Insights

Contributor Insights

Metrics

Application Signals (APM)

Log groups (1)

Actions

View in Logs Insights

Start tailing

Create log group

By default, we only load up to 10000 log groups.

Filter log groups or try pattern search

Exact match

Log group	Log class	Anomaly d...	Data...	Sens...	Retenti...
aws-cloudtrail-logs-736296213120-01d2f52f	Standard	Configure	-	-	Never exp...

CloudShell

Feedback

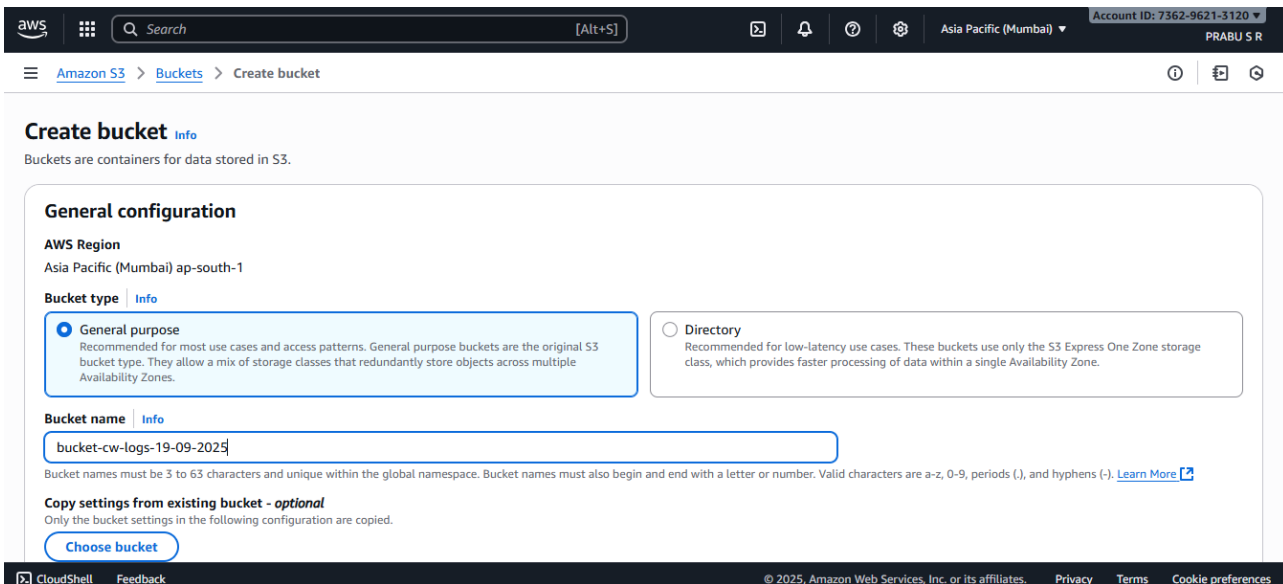
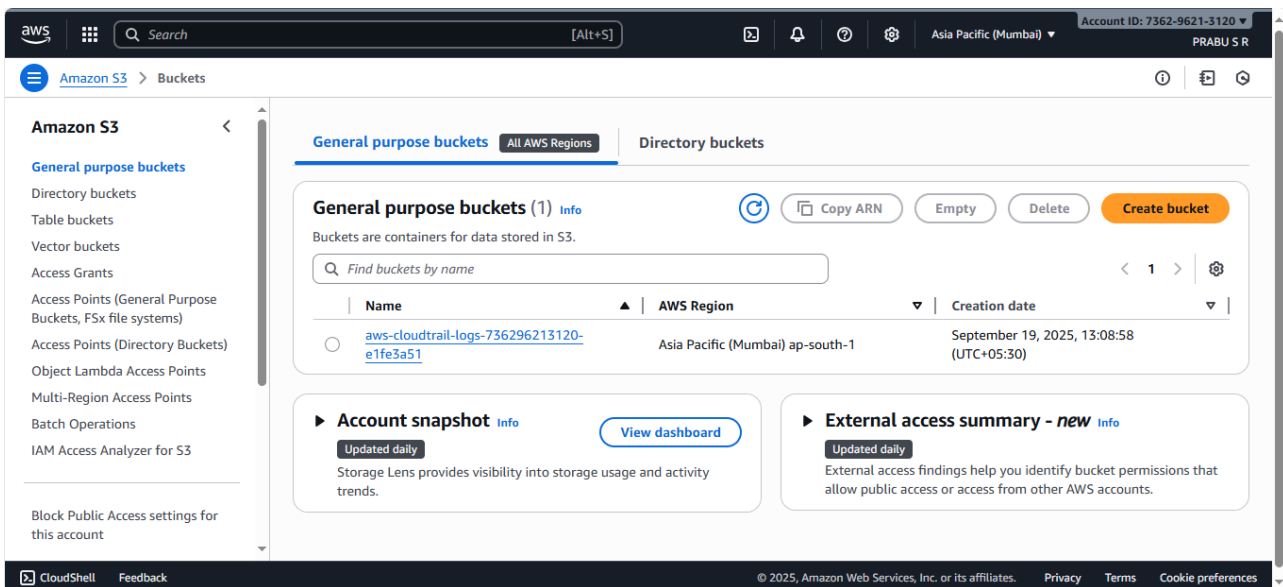
© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

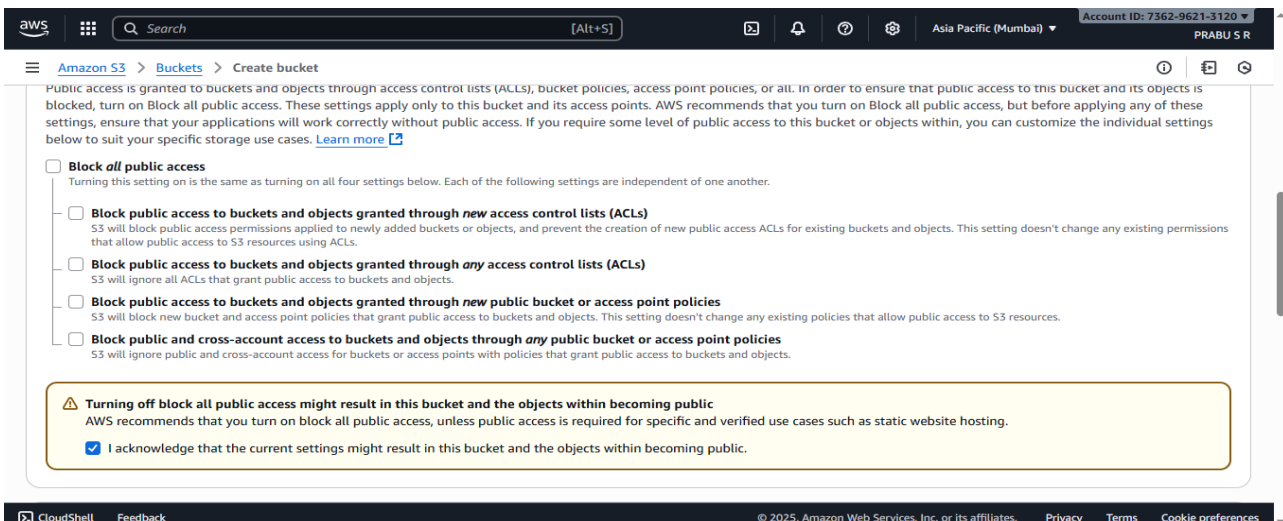
Terms

Cookie preferences

i started creating a s3 bucket



as mentioned i removed the public access



aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

Amazon S3

Buckets

Successfully created bucket "bucket-cw-logs-19-09-2025"

To upload files and folders, or to configure additional bucket settings, choose [View details](#).

General purpose buckets

All AWS Regions

Directory buckets

General purpose buckets (2)

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

	Name	AWS Region	Creation date
<input type="radio"/>	aws-cloudtrail-logs-736296213120-e1fe3a51	Asia Pacific (Mumbai) ap-south-1	September 19, 2025, 13:08:58 (UTC+05:30)
<input type="radio"/>	bucket-cw-logs-19-09-2025	Asia Pacific (Mumbai) ap-south-1	September 19, 2025, 13:18:55 (UTC+05:30)

Account snapshot

Updated daily

[View dashboard](#)

Storage Lens provides visibility into storage usage and activity trends.

External access summary - new

Updated daily

External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

i clicked the bucket and uploaded a image file

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

Amazon S3

Buckets

bucket-cw-logs-19-09-2025

Upload

Drag and drop files and folders you want to upload here, or choose [Add files](#) or [Add folder](#).

Files and folders (1 total, 394.7 KB)

Remove

Add files

Add folder

All files and folders in this table will be uploaded.

Find by name

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	jaguar_resting_in_a_tree-wallpaper-136...	-	image/jpeg	394.7 KB

Destination

Destination

s3://bucket-cw-logs-19-09-2025

Destination details

Bucket settings that impact new objects stored in the specified destination.

Permissions

Create public access and access to other AWS accounts.

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 7362-9621-3120

PRABU S R

Upload succeeded

For more information, see the [Files and folders](#) table.

Summary

Destination

s3://bucket-cw-logs-19-09-2025

Succeeded

1 file, 394.7 KB (100.00%)

Failed

0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (1 total, 394.7 KB)

Find by name

Name	Folder	Type	Size	Status	Error
jaguar_resting_in_a_tree-w...	-	image/jpeg	394.7 KB	Succeeded	-

CloudShell

Feedback

© 2025, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

refresh the event history in cloudtrail, it takes some time to sync in cloudwatch

CloudTrail > Event history

Event history (50+) Info

Event history shows you the last 90 days of management events.

Lookup attributes

Read-only Filter by date and time Clear filter

<input type="checkbox"/>	Event name	Event time	User name	Event source	Resource type
<input type="checkbox"/>	CreateLogStream	September 19, 2025, 13:20:18 (...)	CLOUDWATCH_LO...	logs.amazonaws.com	-
<input type="checkbox"/>	CreateLogStream	September 19, 2025, 13:20:18 (...)	CLOUDWATCH_LO...	logs.amazonaws.com	-
<input type="checkbox"/>	PutBucketPublicAcce...	September 19, 2025, 13:18:56 (...)	root	s3.amazonaws.com	AWS::S3::Bucket
<input type="checkbox"/>	PutBucketEncryption	September 19, 2025, 13:18:56 (...)	root	s3.amazonaws.com	AWS::S3::Bucket
<input type="checkbox"/>	CreateBucket	September 19, 2025, 13:18:55 (...)	root	s3.amazonaws.com	AWS::S3::Bucket
<input type="checkbox"/>	CreateLogStream	September 19, 2025, 13:13:10 (...)	CLOUDWATCH_LO...	logs.amazonaws.com	-

0 / 5 events selected

the logs started collecting in log events in cloudwatch

CloudWatch > Log groups > [aws-cloudtrail-logs-736296213120-01d2f52f](#) > All events

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](#)

1m 1h UTC timezone

Display

Timestamp	Message	Log stream name
2025-09-19T07:42:36.720Z	{"eventVersion":"1.09","userIdentity":{"type":"Root",...	736296213120_CloudTrail_ap-south-1_3
2025-09-19T07:42:59.328Z	{"eventVersion":"1.11","userIdentity":{"type":"Root",...	736296213120_CloudTrail_ap-south-1_3
2025-09-19T07:42:59.328Z	{"eventVersion":"1.09","userIdentity":{"type":"Root",...	736296213120_CloudTrail_ap-south-1_3
2025-09-19T07:42:59.328Z	{"eventVersion":"1.08","userIdentity":{"type":"AKISer...	736296213120_CloudTrail_ap-south-1_3
2025-09-19T07:42:59.328Z	{"eventVersion":"1.09","userIdentity":{"type":"Root",...	736296213120_CloudTrail_ap-south-1_3
2025-09-19T07:43:03.453Z	{"eventVersion":"1.09","userIdentity":{"type":"Root",...	736296213120_CloudTrail_ap-south-1
2025-09-19T07:43:03.453Z	{"eventVersion":"1.09","userIdentity":{"type":"Root",...	736296213120_CloudTrail_ap-south-1
2025-09-19T07:43:10.088Z	{"eventVersion":"1.09","userIdentity":{"type":"Root",...	736296213120_CloudTrail_ap-south-1_2

i deleted the object uploaded and gets the logs in cloudwatch

Successfully deleted objects

View details below.

Summary

Source	Successfully deleted	Failed to delete
s3://bucket-cw-logs-19-09-2025	<input checked="" type="checkbox"/> 1 object, 394.7 KB	<input type="checkbox"/> 0 objects

Failed to delete Configuration

☒ Failed to delete (0)

Name	Folder	Type	Last modified	Size	Error
No objects failed to delete.					

The screenshot shows the AWS CloudWatch Log groups console. The breadcrumb trail is: CloudWatch > Log groups > aws-cloudtrail-logs-736296213120-01d2f52f > 736296213120_CloudTrail_ap-south-1_3. The left sidebar shows the 'Logs' section with 'Log groups' selected. The main area displays a log event with the following details:

Timestamp	Message	Log stream name
	<pre>{ "eventVersion": "1.09", "userIdentity": { "type": "Root", "principalId": "736296213120", "arn": "arn:aws:iam::736296213120:root", "accountId": "736296213120", "accessKeyId": "ASIA2M3VHTKAE3NRSQCQ", "sessionContext": { "attributes": { "creationDate": "2025-09-19T07:24:37Z", "mfaAuthenticated": "true" } } } }</pre>	

The screenshot shows the AWS CloudWatch Log groups console with the same breadcrumb trail. The main area displays a log event with the following details:

Timestamp	Message	Log stream name
	<pre>{ "type": "AWSService", "invokedBy": "cloudtrail.amazonaws.com", "eventTime": "2025-09-19T08:05:39Z", "eventSource": "s3.amazonaws.com", "eventName": "PutObject", "awsRegion": "ap-south-1", "sourceIPAddress": "cloudtrail.amazonaws.com", "userAgent": "cloudtrail.amazonaws.com", "requestParameters": { "bucketName": "aws-cloudtrail-logs-736296213120-e1fe3a51", "x-amz-acl": "bucket-owner-full-control", "x-amz-server-side-encryption-context": "eyJnd3N6Y2xvdWwRcmFpbDphcm4iOiJhcm46YXZzOmNsbnN3VkdHJhaWw6YXAtc291dGgtMT03MzYyOTYyMTN0dHJhaWwvY2xvdWwRcmh3bC1kZW1vLTESLTASLTlwaTJufi0=" }, "x-amz-server-side-encryption-aws-kms-key-id": "arn:aws:kms:ap-south-1:736296213120:key/8e75912b-6fe0-4df6-af61-81d0967d23", "Host": "aws-cloudtrail-logs-736296213120-e1fe3a51.s3.ap-south-1.amazonaws.com" }</pre>	

this is my sample log i fetched from s3 bucket creation

```
{
  "eventVersion": "1.11",
  "userIdentity": {
    "type": "AWSService",
    "invokedBy": "cloudtrail.amazonaws.com"
  },
  "eventTime": "2025-09-19T07:53:31Z",
  "eventSource": "s3.amazonaws.com",
  "eventName": "PutObject",
  "awsRegion": "ap-south-1",
  "sourceIPAddress": "cloudtrail.amazonaws.com",
  "userAgent": "cloudtrail.amazonaws.com",
  "requestParameters": {
    "bucketName": "aws-cloudtrail-logs-736296213120-e1fe3a51",
```



```
"x-amz-acl": "bucket-owner-full-control",
"x-amz-server-side-encryption-context":
"eyJhd3M6Y2xvdWR0cmFpbDphcm4iOiJhcjEwZmNsb3VkdHJhaWw6YXAAtc291dGgtMT
o3MzMzYyOTYyMTMxMjA6dHJhaWwvY2xvdWR0cmllhbC1kZW1vLTE5LTA5LTlwMjUifQ==",
"x-amz-server-side-encryption-aws-kms-key-id": "arn:aws:kms:ap-
south-1:736296213120:key/8e75912b-6fe0-4df6-af61-81d0967d23e2",
"Host": "aws-cloudtrail-logs-736296213120-e1fe3a51.s3.ap-south-1.amazonaws.com",
"x-amz-server-side-encryption": "aws:kms",
"key": "AWSLogs/736296213120/CloudTrail/ap-
south-1/2025/09/19/736296213120_CloudTrail_ap-
south-1_20250919T0755Z_beFGRqawkQ4wuiDF.json.gz"
},
"responseElements": {
"x-amz-server-side-encryption-aws-kms-key-id": "arn:aws:kms:ap-
south-1:736296213120:key/8e75912b-6fe0-4df6-af61-81d0967d23e2",
"x-amz-server-side-encryption": "aws:kms",
"x-amz-server-side-encryption-context":
"eyJhd3M6Y2xvdWR0cmFpbDphcm4iOiJhcjEwZmNsb3VkdHJhaWw6YXAAtc291dGgtMT
o3MzMzYyOTYyMTMxMjA6dHJhaWwvY2xvdWR0cmllhbC1kZW1vLTE5LTA5LTlwMjUifQ==",
"x-amz-server-side-encryption-aws-kms-key-id": "arn:aws:kms:ap-
south-1:736296213120:key/8e75912b-6fe0-4df6-af61-81d0967d23e2",
"x-amz-server-side-encryption": "aws:kms",
"x-amz-server-side-encryption-context":
"eyJhd3M6Y2xvdWR0cmFpbDphcm4iOiJhcjEwZmNsb3VkdHJhaWw6YXAAtc291dGgtMT
o3MzMzYyOTYyMTMxMjA6dHJhaWwvY2xvdWR0cmllhbC1kZW1vLTE5LTA5LTlwMjUifQ==",
"x-amz-server-side-encryption-aws-kms-key-id": "arn:aws:kms:ap-
south-1:736296213120:key/8e75912b-6fe0-4df6-af61-81d0967d23e2",
"x-amz-server-side-encryption": "aws:kms",
"x-amz-server-side-encryption-context":
"eyJhd3M6Y2xvdWR0cmFpbDphcm4iOiJhcjEwZmNsb3VkdHJhaWw6YXAAtc291dGgtMT
o3MzMzYyOTYyMTMxMjA6dHJhaWwvY2xvdWR0cmllhbC1kZW1vLTE5LTA5LTlwMjUifQ=="
},
"additionalEventData": {
"SignatureVersion": "SigV4",
"CipherSuite": "TLS_AES_128_GCM_SHA256",
"bytesTransferredIn": 4563,
"SSEApplied": "SSE_KMS",
"AuthenticationMethod": "AuthHeader",
"x-amz-id-2":
"MFK+/ID95rxLIVFO0hzhlG89HEYbJOV7h9j5EGeCople4fdfWGw4Ca+fa87L/m0naq/
ImKVnQLA=",
"bytesTransferredOut": 0
},
"requestID": "369FCQGT5QX7TM16",
"eventID": "78ddf4ec-6099-3807-b278-46ded64458d4",
"readOnly": false,
"resources": [
{
"accountId": "736296213120",
"type": "AWS::S3::Bucket",
"ARN": "arn:aws:s3:::aws-cloudtrail-logs-736296213120-e1fe3a51"
},
{
"type": "AWS::S3::Object",
"ARN":
"arn:aws:s3:::aws-cloudtrail-logs-736296213120-e1fe3a51/AWSLogs/736296213120/CloudTrail/
ap-south-1/2025/09/19/736296213120_CloudTrail_ap-
south-1_20250919T0755Z_beFGRqawkQ4wuiDF.json.gz"
}
]
}
```

```
"eventType": "AwsApiCall",  
"managementEvent": false,  
"recipientAccountId": "736296213120",  
"sharedEventID": "1c2cefb1-d931-4054-8c26-aab15e606ab2",  
"vpcEndpointId": "cloudtrail.amazonaws.com",  
"vpcEndpointAccountId": "cloudtrail.amazonaws.com",  
"eventCategory": "Data"  
}
```