

Configuring Amazon S3 security settings and access controls

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Configuring Amazon S3 security settings and access controls > ... > Use Amazon Athena to query CloudTrail logs and

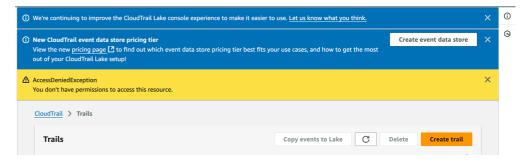
Enabling Cloudtrail data events

In this exercise, we will walk through how to enable data events for S3 in CloudTrail. Note that we will not be using the CloudTrail data from this account, rather the same S3 bucket, sid-securityxxxxxxxx is pre-populated with synthetic CloudTrail logs under the cloudtrail prefix.

From the AWS console in the top search bar, search and select S3.

- Click the bucket name starting with sid-security-xxxxxxxx.
- Click on the Properties tab.
- Scroll down to AWS CloudTrail data events
- Click Configure in CloudTrail
- You might see a yellow error box at the top, that is ok to ignore for now.

Your screen should look like the following:

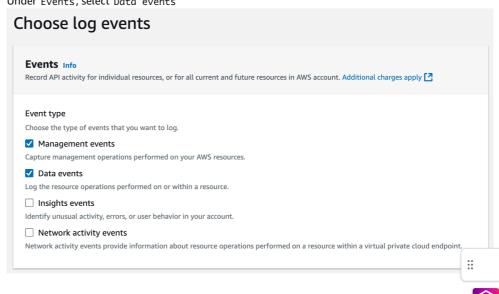


Click Create trail

- Configure Trail name as cloudtrailacl
- Under Log file SSE-KMS encryption un-check the "Enabled" box
- · Keep everything else as default settings and click Next

Under Choose log events

• Under Events, select Data events



Under Data Events

Getting started at an AWS hosted workshop

- ▼ S3 Security Best Practices
 - ▼ Prepare Your Lab

Attach IAM Role to EC2 Instance

Connect to the FC2 Instance

Bucket Name

▼ Lab 1 - S3 Security Exercises

Require HTTPS

Require SSE-KMS Encryption

Restrict Access to an S3 VPC Endpoint

Use AWS Config Rules to Detect a Public Bucket

Use Amazon Access Analyzer for S3

▼ Lab 2 - S3 Access Grants

S3 Access Grants Lab - Initial Setup

Configure S3 Access Grants for IAM user

▼ Lab 3 - Enabling Malware Protection for S3 by using GuardDuty

> **Enabling Malware Protection** for S3 for your bucket

Testing GuardDuty Malware with an object.

▼ Lab 4 - S3 Access Control Lists

Block Public ACLs

Configure S3 Block Public Access

Disable S3 ACLs

▼ Finding S3 access control lists with S3 Inventory

> Enabling Amazon S3 Inventory

Setting up Amazon Athena

Use Amazon Athena to query Amazon S3 Inventory and identify objects with ACL elements

▼ Use Amazon Athena to query CloudTrail logs and identify S3 requests that depend on ACLs

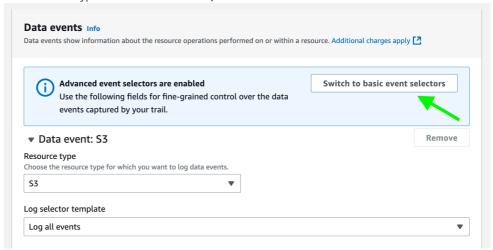
> **Enabling Cloudtrail data** events

Setting up Amazon Athena

Lab Summary



• For Resource type select S3 from the drop down menu



(i) Keep in mind that if you enable data events in your own account, you will incur additional cost.

Using the above screenshot as context, notice that you can include or exclude specific events in the Management events section. In the Data events section the current selection is S3 but there are other services that can be changed or added to the Cloudtrail by using the Add data event type at the bottom. If you only want to enable data events for a specific bucket you can click on Switch to basic event selectors as referenced by the green arrow and further customize.

Since this is more informational, we will click Next and Create trail on the last page.



