

Configuring Amazon S3 security settings and access controls

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Enabling Amazon S3 Inventory

In this exercise, we will enable Amazon S3 Inventory and walk through the format of the S3 Inventory report.

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 Management tab.
- Scroll down to Create inventory configuration
- Type "test" as the Inventory configuration name
- Under Report details click "Browse S3" and click on the radio button to the left of the S3 bucket starting with sid-security-xxxxxxxxx.
- Keep all the defaults until you get to Inventory report encryption
- Click Specify an encryption key and Server-side encryption with Amazon S3 managed keys (SSE-S3) under Encryption type
- Select Object ACL and Object owner under Permissions.

Your screen should look like the following:

Getting started at an AWS hosted

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workshop

- ▼ S3 Security Best Practices
 - ▼ Prepare Your Lab

Attach IAM Role to EC2 Instance

Connect to the EC2 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 GuardDutv

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

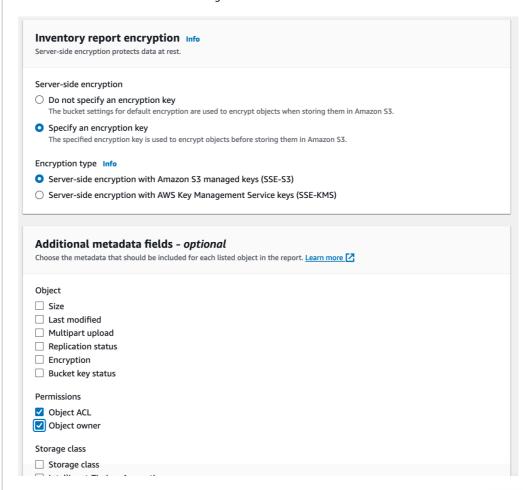
Enabling Amazon S3 Inventory

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

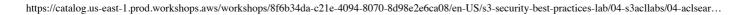
Lab Summary

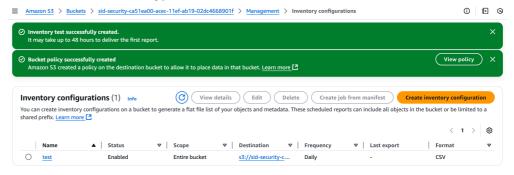


Click Create

There wil lbe two dialog boxes at the top, they should look similar to:







Since the first report can take up to 48 hours to deliver as mentioned we have pre-populated the bucket sid-security-xxxxxxxx with a prefix called "inventory" and a S3 Inventory report named s3inventoryreportfordemo.csv. We still ran through the creation of setting up S3 Inventory so you have a working knowledge of how to do so.

Now before we go any further we need to setup Amazon Athena to query the S3 Inventory report.



