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-xxxxxxxx`.
- 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:

Inventory report encryption Info
Server-side encryption protects data at rest.

Server-side encryption
○ Do not specify an encryption key
   The bucket settings for default encryption are used to encrypt objects when storing them in Amazon S3.
● Specify an encryption key
   The specified encryption key is used to encrypt objects before storing them in Amazon S3.

Encryption type Info
● Server-side encryption with Amazon S3 managed keys (SSE-S3)
○ Server-side encryption with AWS Key Management Service keys (SSE-KMS)

Additional metadata fields – *optional*
Choose the metadata that should be included for each listed object in the report. Learn more ⧉

Object
☐ Size
☐ Last modified
☐ Multipart upload
☐ Replication status
☐ Encryption
☐ Bucket key status

Permissions
☑ Object ACL
☑ Object owner

Storage class
☐ Storage class

Click `Create`

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

Amazon S3 > Buckets > sid-security-ca51ea00-acec-11ef-ab19-02dc4668901f > Management > Inventory configurations

✓ **Inventory test successfully created.**   ✕
   It may take up to 48 hours to deliver the first report.

✓ **Bucket policy successfully created**   View policy   ✕
   Amazon S3 created a policy on the destination bucket to allow it to place data in that bucket. Learn more ⬈

Inventory configurations (1) Info   ⟳   View details   Edit   Delete   Create job from manifest   **Create inventory configuration**

You can create inventory configurations on a bucket to generate a flat file list of your objects and metadata. These scheduled reports can include all objects in the bucket or be limited to a shared prefix. Learn more ⬈

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	Name ▲	Status ▽	Scope ▽	Destination ▽	Frequency ▽	Last export	Format ▽
○	test	Enabled	Entire bucket	s3://sid-security-c...	Daily	-	CSV

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.

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