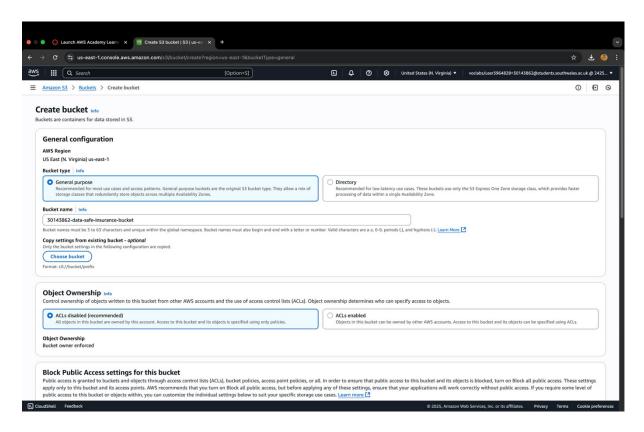Harithas Uthayakumar
30143862
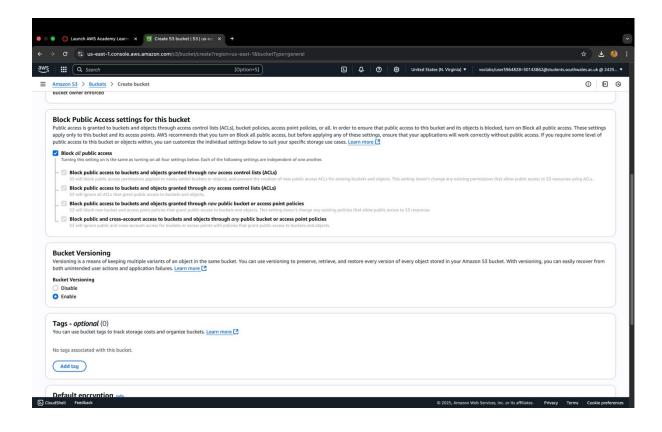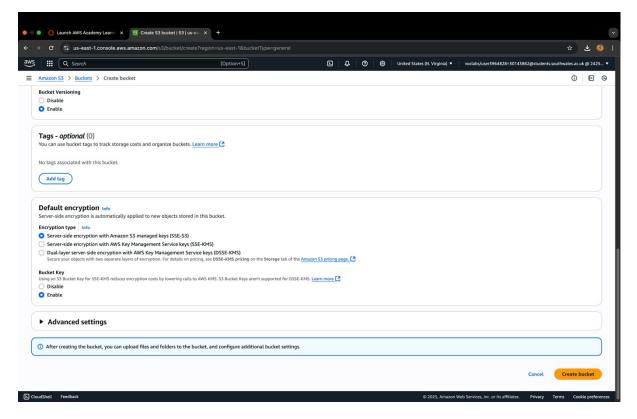MS4S21 – Assessment 2

1. Create an S3 Bucket

A new S3 bucket was created and named 30143862-data-safe-insurance-bucket,
following AWS naming conventions. This will be used to securely store client
insurance data.

2. Configure Bucket Settings

The bucket was configured with default settings for simplicity. Versioning and public
access settings were reviewed to ensure data security.

Bucket owner enforced

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more ☑

☑ **Block *all* public access**
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

☑ **Block public access to buckets and objects granted through *new* access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

☑ **Block public access to buckets and objects granted through *any* access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.

☑ **Block public access to buckets and objects granted through *new* public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

☑ **Block public and cross-account access to buckets and objects through *any* public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more ☑

Bucket Versioning
○ Disable
● Enable

Tags - *optional* (0)

You can use bucket tags to track storage costs and organize buckets. Learn more ☑

No tags associated with this bucket.

[Add tag]

Default encryption Info

Bucket Versioning
○ Disable
● Enable

Tags - *optional* (0)

You can use bucket tags to track storage costs and organize buckets. Learn more ☑

No tags associated with this bucket.

[Add tag]

Default encryption Info

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption type | Info
● Server-side encryption with Amazon S3 managed keys (SSE-S3)
○ Server-side encryption with AWS Key Management Service keys (SSE-KMS)
○ Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)
Secure your objects with two separate layers of encryption. For details on pricing, see **DSSE-KMS pricing** on the **Storage** tab of the Amazon S3 pricing page. ☑

Bucket Key
Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. Learn more ☑
○ Disable
● Enable

▶ **Advanced settings**

ⓘ After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel   [Create bucket]

Amazon S3

General purpose buckets
Directory buckets
Table buckets
Access Grants
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3

Block Public Access settings for this account

▼ Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings

Feature spotlight [11]

▶ AWS Marketplace for S3

▶ **Account snapshot** - *updated every 24 hours* [All AWS Regions]

Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. Learn more

View Storage Lens dashboard

General purpose buckets | **Directory buckets**

General purpose buckets (1) Info [All AWS Regions]

Buckets are containers for data stored in S3.

Copy ARN | Empty | Delete | Create bucket

Find buckets by name

< 1 >

	Name ▲	AWS Region ▽	IAM Access Analyzer	Creation date ▽
○	30143862-data-safe-insurance-bucket	US East (N. Virginia) us-east-1	View analyzer for us-east-1	May 25, 2025, 11:19:25 (UTC+01:00)

3. Upload Dataset

The dataset file insurance-dataset-2024-2025.csv was uploaded to the S3

Upload: status

ⓘ After you navigate away from this page, the following information is no longer available.

Summary

Destination	Succeeded	Failed
s3://30143862-data-safe-insurance-bucket	⊘ 1 file, 23.7 KB (100.00%)	⊖ 0 files, 0 B (0%)

Files and folders Configuration

Files and folders (1 total, 23.7 KB)

Name	Folder ▽	Type ▽	Size ▽	Status ▽	Error ▽
insurance-dataset-2024-2025-dbjso...	-	application/json	23.7 KB	⊘ Succeeded	-

---

Amazon S3 > **Buckets** > **30143862-data-safe-insurance-bucket** > insurance-dataset-2024-2025-dbjson.json

Amazon S3

General purpose buckets
Directory buckets
Table buckets
Access Grants
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3

Block Public Access settings for this account

▼ Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings

Feature spotlight 11

▶ AWS Marketplace for S3

insurance-dataset-2024-2025-dbjson.json Info

Copy S3 URI   ⭳ Download   Open ⎘   Object actions ▼

Properties   Permissions   Versions

Object overview

Owner
awslabsc0w4965697t1670277750

AWS Region
US East (N. Virginia) us-east-1

Last modified
May 23, 2025, 11:13:54 (UTC+01:00)

Size
23.7 KB

Type
json

Key
⎘ insurance-dataset-2024-2025-dbjson.json

S3 URI
⎘ s3://30143862-data-safe-insurance-bucket/insurance-dataset-2024-2025-dbjson.json

Amazon Resource Name (ARN)
⎘ arn:aws:s3:::30143862-data-safe-insurance-bucket/insurance-dataset-2024-2025-dbjson.json

Entity tag (Etag)
⎘ b3cf7255b7f674a017749cc54c051469

Object URL
⎘ https://30143862-data-safe-insurance-bucket.s3.us-east-1.amazonaws.com/insurance-dataset-2024-2025-dbjson.json

Object management overview
The following bucket properties and object management configurations impact the behavior of this object.

Bucket properties

Bucket Versioning
When enabled, multiple variants of an object can be stored in the bucket to easily recover from unintended user actions and application failures.
Enabled

Management configurations

Replication status
When a replication rule is applied to an object the replication status indicates the progress of the operation.
-

View replication rules

Expiration rule
You can use a lifecycle configuration to define expiration rules to schedule the removal of this object after a pre-defined time period.