

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.

The screenshot displays the AWS Management Console interface for creating a new S3 bucket. The browser address bar shows the URL: `us-east-1.console.aws.amazon.com/s3/bucket/create?region=us-east-1&bucketType=general`. The page title is "Create bucket" with an "Info" link. Below the title, it states "Buckets are containers for data stored in S3."

The "General configuration" section includes the following details:

- AWS Region:** US East (N. Virginia) us-east-1
- Bucket type:** General purpose (selected). A description states: "Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones." The alternative "Directory" option is also visible, described as "Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone."
- Bucket name:** 30143862-data-safe-insurance-bucket. A note specifies: "Bucket names must be 3 to 63 characters and unique within the global namespace. Bucket names must also begin and end with a letter or number. Valid characters are a-z, 0-9, periods (.), and hyphens (-). [Learn More](#)"
- Copy settings from existing bucket - optional:** A button labeled "Choose bucket" is present. A note says: "Only the bucket settings in the following configuration are copied. Format: s3://bucket/prefix"

The "Object Ownership" section includes:

- Object Ownership:** Bucket owner enforced
- ACLs disabled (recommended):** Selected. A note states: "All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies." The alternative "ACLs enabled" option is also visible, described as "Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs."

The "Block Public Access settings for this bucket" section is partially visible at the bottom, with a note: "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](#)"

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2. Configure Bucket Settings

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

Launch AWS Academy Learn... Create S3 bucket | S3 | us-east-1

us-east-1.console.aws.amazon.com/s3/bucket/create?region=us-east-1&bucketType=general

aws Search [Option+S] United States (N. Virginia) voclabs/user3964828-30143862@students.southwales.ac.uk @ 2425...

Amazon S3 Buckets Create bucket 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.
- ☒ **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](#)

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Launch AWS Academy Learn... Create S3 bucket | S3 | us-east-1

us-east-1.console.aws.amazon.com/s3/bucket/create?region=us-east-1&bucketType=general

aws Search [Option+S] United States (N. Virginia) voclabs/user3964828-30143862@students.southwales.ac.uk @ 2425...

Amazon S3 Buckets Create bucket

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](#)

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Launch AWS Academy Learn

S3 buckets | S3 | us-east-1

us-east-1.console.aws.amazon.com/s3/buckets?region=us-east-1&bucketType=general

Search [Option+S]

United States (N. Virginia)

vociabs/user3964828=30143862@students.southwales.ac.uk @ 2425...

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

View Storage Lens dashboard

General purpose buckets

Directory buckets

General purpose buckets (1)

Info

All AWS Regions

Refresh

Copy ARN

Empty

Delete

Create bucket

Find buckets by name

< 1 >

Settings

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)

CloudShell Feedback

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3. Upload Dataset

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

Upload [Info](#)

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDKs or Amazon S3 REST API. [Learn more](#)

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

Files and folders (0) [Remove](#) [Add files](#) [Add folder](#)

All files and folders in this table will be uploaded.

<input type="checkbox"/>	Name	Folder	Type	Size
No files or folders				
You have not chosen any files or folders to upload.				

Destination [Info](#)

Destination
[s3://30143862-data-safe-insurance-bucket](#)

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

Permissions
Grant public access and access to other AWS accounts.

Properties
Specify storage class, encryption settings, tags, and more.

[Cancel](#) [Upload](#)

Upload [Info](#)

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDKs or Amazon S3 REST API. [Learn more](#)

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

Files and folders (1 total, 23.7 KB) [Remove](#) [Add files](#) [Add folder](#)

All files and folders in this table will be uploaded.

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	insurance-dataset-2024-2025-dbjson.json	-	application/json	23.7 KB

Destination [Info](#)

Destination
[s3://30143862-data-safe-insurance-bucket](#)

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

Permissions
Grant public access and access to other AWS accounts.

Properties
Specify storage class, encryption settings, tags, and more.

[Cancel](#) [Upload](#)

Launch AWS Academy Learn x Upload objects - S3 bucket x

us-east-1.console.aws.amazon.com/s3/upload/30143862-data-safe-insurance-bucket?region=us-east-1&bucketType=general

Search [Option+S]

United States (N. Virginia) voclabs/user3964828-30143862@students.southwales.ac.uk @ 2425...

Upload succeeded
For more information, see the Files and folders table.

Upload: status Close

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

Summary

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

Files and folders (1 total, 23.7 KB)

Find by name

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

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Launch AWS Academy Learn x Upload objects - S3 bucket x insurance-dataset-2024-2025-dbjso...

us-east-1.console.aws.amazon.com/s3/object/30143862-data-safe-insurance-bucket?region=us-east-1&bucketType=general&prefix=insurance-dataset-2024-2025-dbjso.json&tab=details

Search [Option+S]

United States (N. Virginia) voclabs/user3964828-30143862@students.southwales.ac.uk @ 2425...

Amazon S3 > Buckets > 30143862-data-safe-insurance-bucket > insurance-dataset-2024-2025-dbjso.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-dbjso.json Info

Copy S3 URI Download Open Object actions

Properties Permissions Versions

Object overview

Owner aws:labsc0w49656971670277750	S3 URI s3://30143862-data-safe-insurance-bucket/insurance-dataset-2024-2025-dbjso.json
AWS Region US East (N. Virginia) us-east-1	Amazon Resource Name (ARN) arn:aws:s3::30143862-data-safe-insurance-bucket/insurance-dataset-2024-2025-dbjso.json
Last modified May 23, 2025, 11:13:54 (UTC+01:00)	Entity tag (Etag) b3c7255b7f674a017749cc54c051469
Size 23.7 KB	Object URL https://30143862-data-safe-insurance-bucket.s3.us-east-1.amazonaws.com/insurance-dataset-2024-2025-dbjso.json
Type json	
Key insurance-dataset-2024-2025-dbjso.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.