

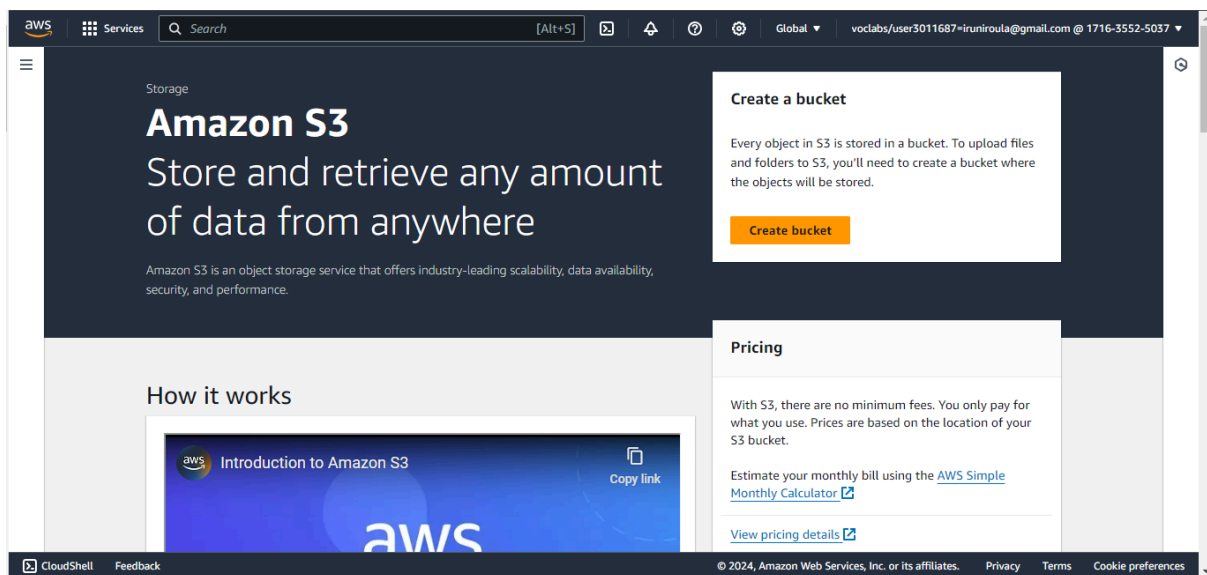
S3 Storage Fundamentals Lab

Objective: To gain hands-on experience with Amazon S3 by performing basic storage operations.

Approach: This lab involves creating an S3 bucket, uploading files to it, and setting up bucket policies for access control. Students will explore the S3 management console, learn about object storage, and understand the concepts of buckets and objects.

Goal: Students will understand how to use S3 for storing and managing data, learn about S3 security and permissions, and become familiar with S3's user interface.

Step 1: Go to AWS Console Management and Select S3. Click create bucket to create the S3 bucket



Step 2: Choose bucket name, it must be unique then click on create bucket

The screenshot shows the AWS S3 'Create bucket' wizard, Step 2: Choose bucket name. The interface is in a dark theme. At the top, there's a navigation bar with the AWS logo, 'Services', a search bar, and user information. The main content area has two tabs: 'General purpose' (selected) and 'Directory - New'. Under 'General purpose', there's a text input field for 'Bucket name' containing 'irukobucket'. Below the input, a note states: 'Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming'. There's a 'Copy settings from existing bucket - optional' section with a 'Choose bucket' button. Below that, there's an 'Object Ownership' section with two radio buttons: 'ACLs disabled (recommended)' (selected) and 'ACLs enabled'. The bottom of the screen shows a footer with 'CloudShell', 'Feedback', and copyright information.

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General purpose
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.

Directory - New
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 [Info](#)
irukobucket
Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
[Choose bucket](#)
Format: s3://bucket/prefix

Object Ownership [Info](#)
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

ACLs disabled (recommended)
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

ACLs enabled
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

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Step 3: Bucket is created

The screenshot shows the AWS S3 console 'General purpose buckets' page. At the top, there are tabs for 'General purpose buckets' and 'Directory buckets'. Below the tabs, there's a section for 'General purpose buckets (1)' with a search bar and a table of buckets. The table has columns for 'Name', 'AWS Region', 'Access', and 'Creation date'. There's a 'Create bucket' button in the top right. The bottom of the screen shows a footer with 'CloudShell', 'Feedback', and copyright information.

General purpose buckets Directory buckets

General purpose buckets (1) [Info](#) [Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3.

[Find buckets by name](#) < 1 > [Settings](#)

| | Name | AWS Region | Access | Creation date |
|-----------------------|-------------|---------------------------------|---|---|
| <input type="radio"/> | irukobucket | US East (N. Virginia) us-east-1 | Bucket and objects not public | February 24, 2024, 22:02:05 (UTC+05:45) |

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Step 4: Click on Upload to add and upload a file

The screenshot shows the AWS S3 console details page for the 'irukobucket'. At the top, there's a navigation bar with the AWS logo, 'Services', a search bar, and user information. Below the navigation bar, there's a section for 'irukobucket' with tabs for 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab is selected, showing a section for 'Objects (0)' with a search bar and a table of objects. There's an 'Upload' button in the top right. The bottom of the screen shows a footer with 'CloudShell', 'Feedback', and copyright information.

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irukobucket [Info](#)

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Objects (0) [Info](#) [Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

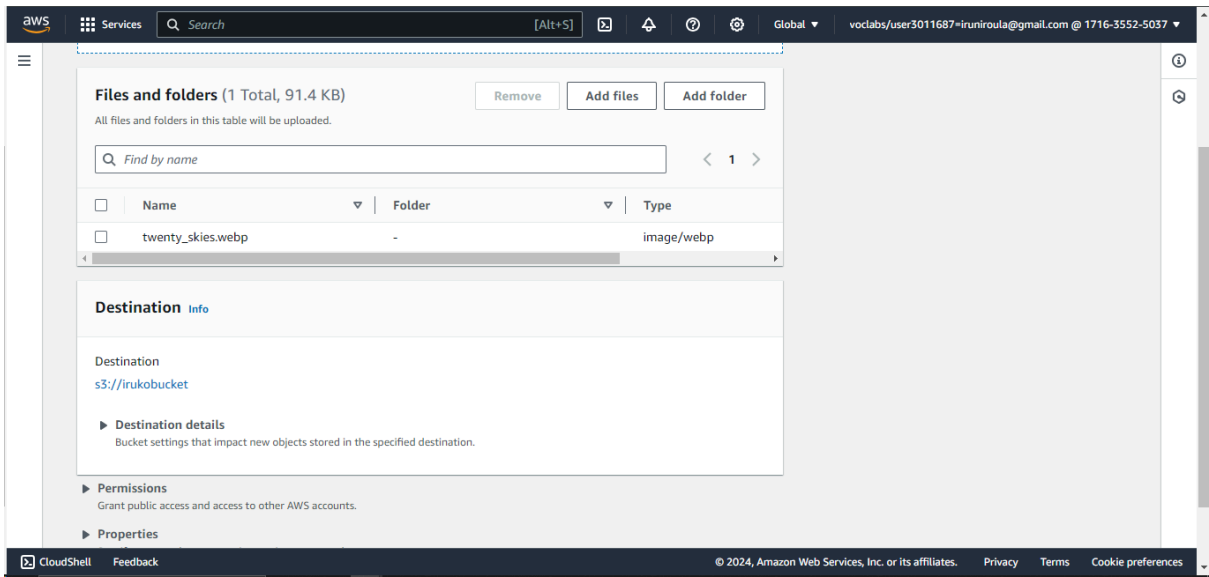
Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

[Find objects by prefix](#) < 1 > [Settings](#)

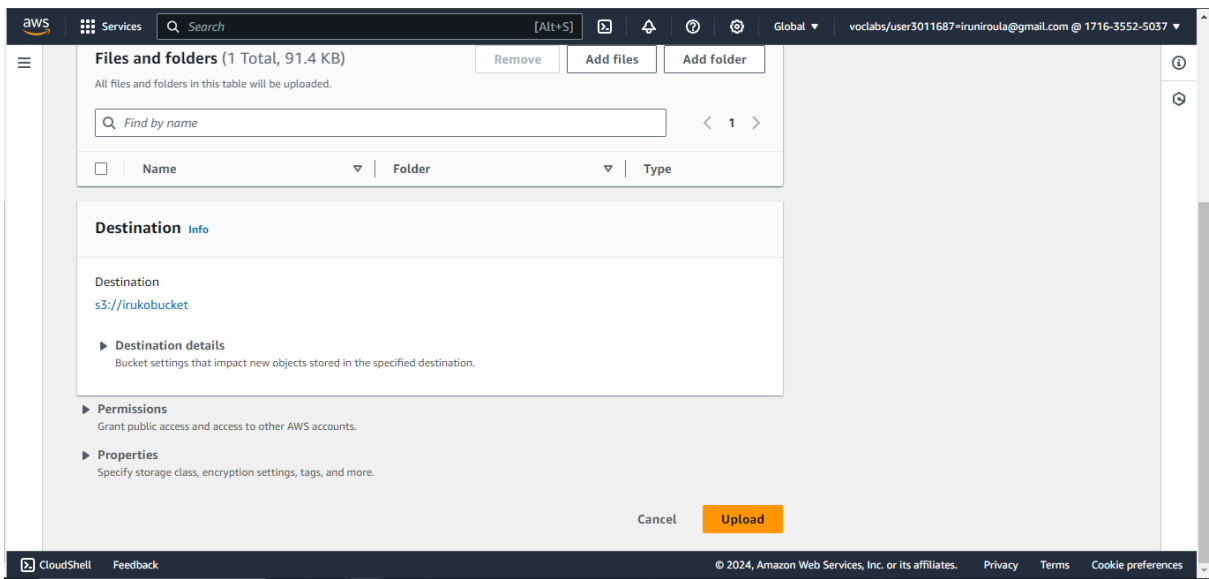
| | Name | Type | Last modified | Size | Storage class |
|--|------|------|---------------|------|---------------|
| No objects You don't have any objects in this bucket. Upload | | | | | |

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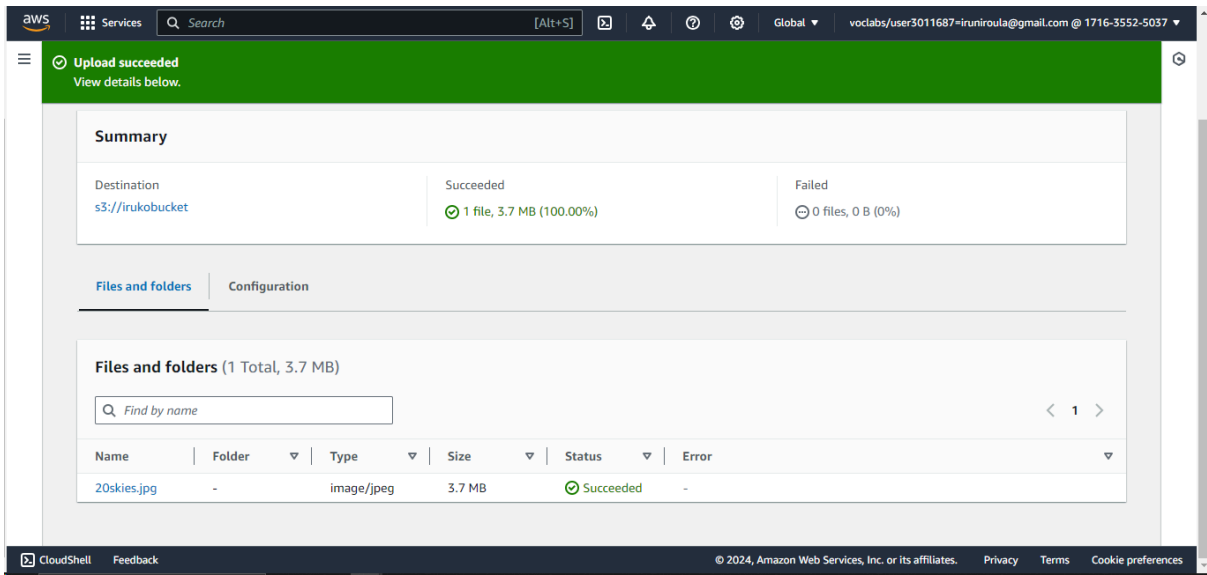
Step 5: Add file by dragging and dropping or clicking on Add File



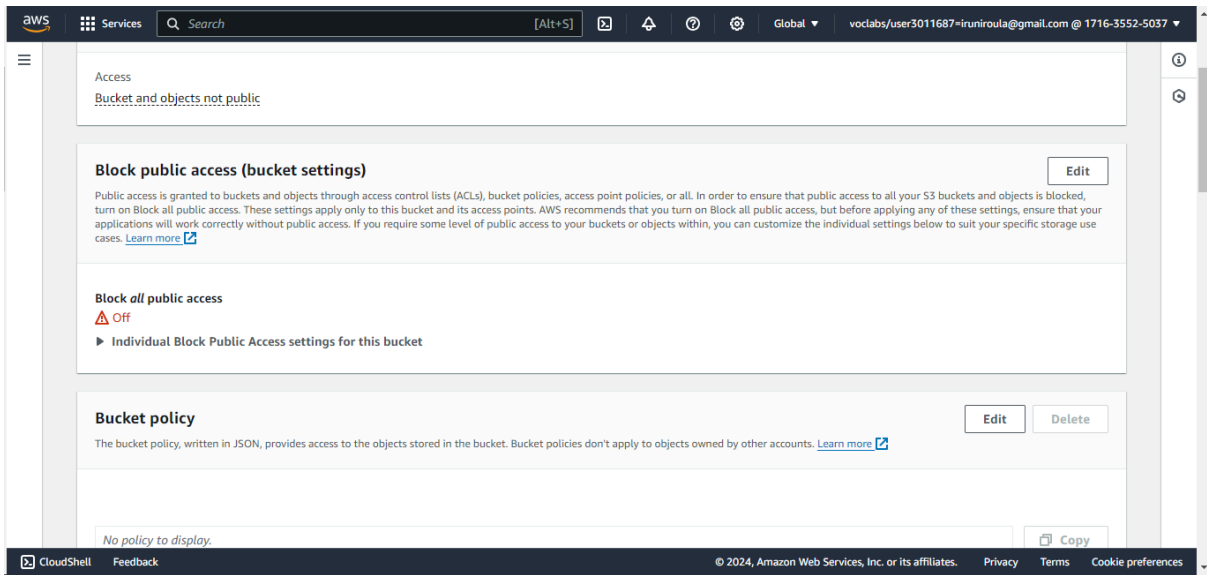
Step 6: Click on upload



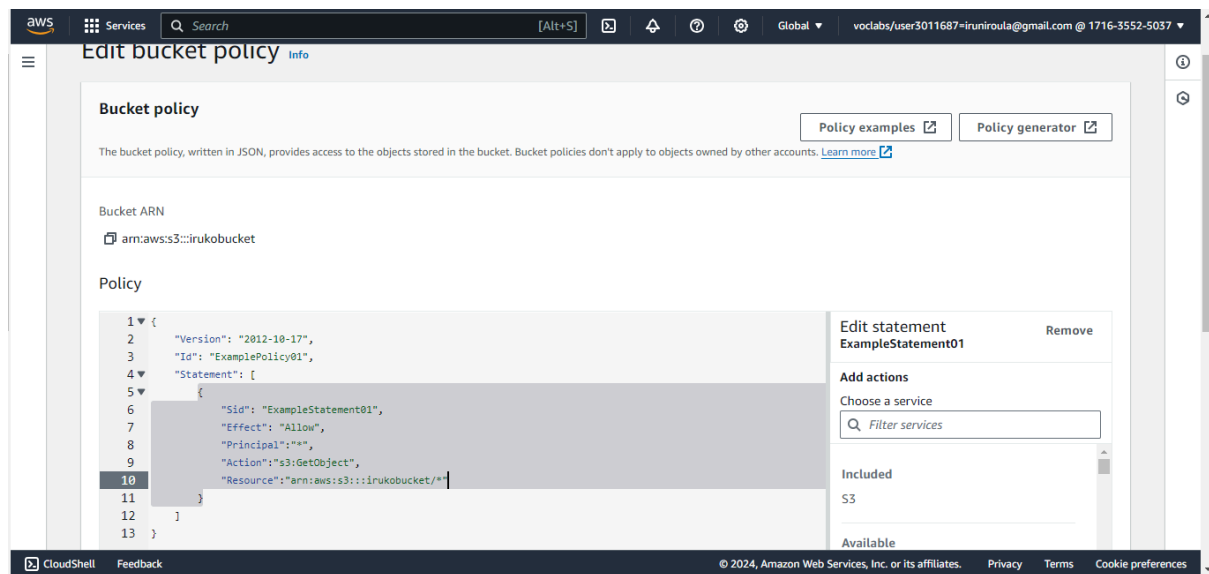
Step 7: File Uploaded



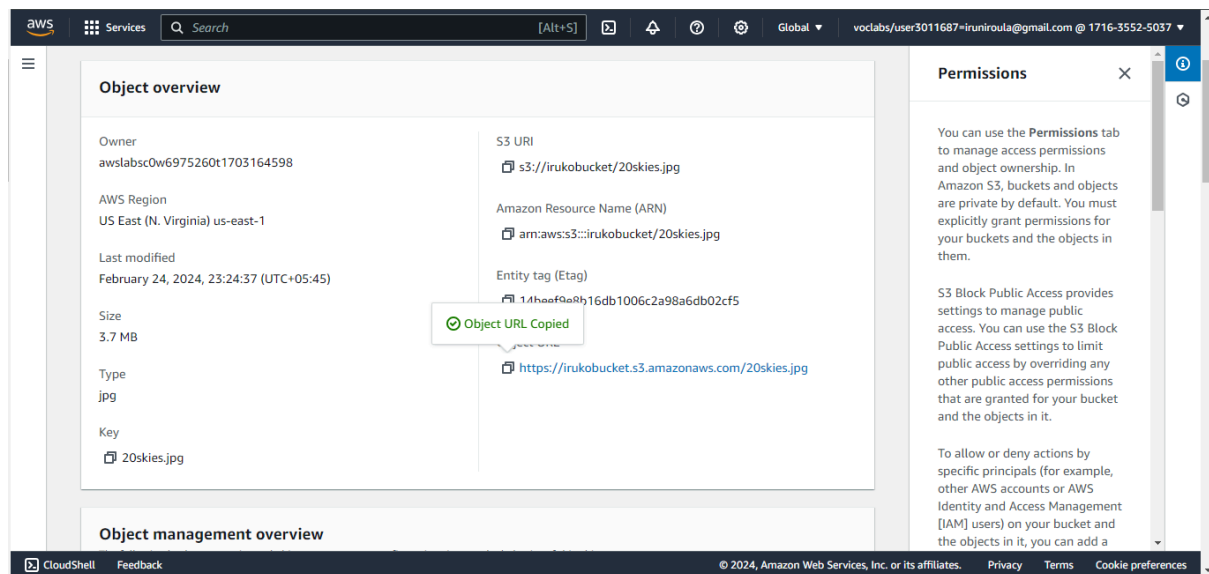
Step 8: Edited Bucket Policy to block public access



Step 9: This code allows files to be uploaded to specific S3 bucket



Step 10: Accessing Object details. We can view the file uploaded through the url



Step 11: Here is the uploaded file

