

FRESHLY GROUND CAFE

STATIC WEBSITE ASSIGNMENT

SCENARIO OVERVIEW

- FreshlyGround, a beloved local café, faces operational challenges due to outdated on-premises systems. The lack of a robust online presence hinders its ability to attract and retain customers in today's digital landscape.
- Aim: to migrate its IT infrastructure to the cloud.
- Goals: efficiency, improved customer engagement, seamless customer experience

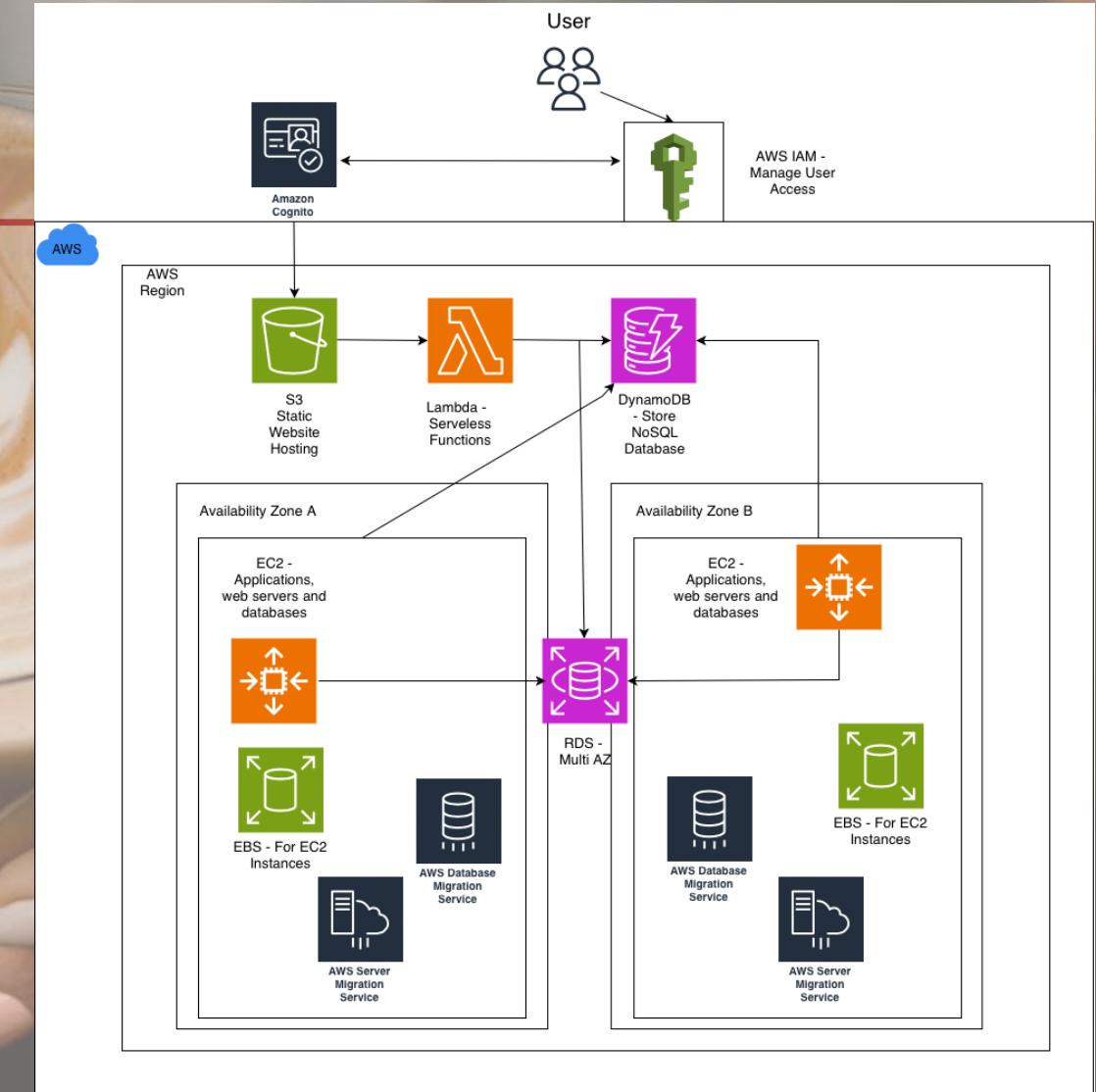
WHAT TO CONSIDER: (SIMPLER)

- 
- A close-up photograph of a person's hands pouring white milk from a pitcher into a dark-colored cup of coffee. The coffee has a layer of foam on top, and the milk is being poured in a circular motion to create intricate latte art. The background is blurred, focusing on the action of pouring.
- MENU
 - BRANDING
 - PRESENCE

WHAT TO CONSIDER: (BROADER)

- 
- ORDER SYSTEM
 - QUEUE MANAGEMENT
 - REWARDS PROGRAMME

ARCHITECTURE DESIGN DIAGRAM



S3 BUCKET PROCESS:

Amazon S3 > Buckets > Create bucket

Create bucket Info

Buckets are containers for data stored in S3.

General configuration

AWS Region
Europe (Stockholm) eu-north-1

Bucket type Info

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
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
freshlyground.cafe-static-site.

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
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.

S3 BUCKET PROCESS:

The screenshot shows the Amazon S3 console interface. At the top, a green success message box displays: "Upload succeeded" and "For more information, see the [Files and folders](#) table." Below this, a note says: "After you navigate away from this page, the following information is no longer available." The main area is titled "Summary" and includes sections for "Destination" (s3://freshlyground.cafe-static-sitee), "Succeeded" (1 file, 21.7 KB (100.00%)), and "Failed" (0 files, 0 B (0%)). There are two tabs at the bottom: "Files and folders" (selected) and "Configuration". The "Files and folders" tab shows a table with one item: "style.css" (text/css, 21.7 KB, Status: Succeeded). A "Find by name" search bar is also present. The footer contains links for CloudShell, Feedback, Console Mobile App, and various AWS terms like Privacy, Terms, and Cookie preferences.

Upload succeeded
For more information, see the [Files and folders](#) table.

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

Summary

Destination
s3://freshlyground.cafe-static-sitee

Succeeded
1 file, 21.7 KB (100.00%)

Failed
0 files, 0 B (0%)

Files and folders (1 total, 21.7 KB)

Name	Folder	Type	Size	Status	Error
style.css	-	text/css	21.7 KB	Succeeded	-

Find by name < 1 >

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S3 BUCKET PROCESS:

The screenshot shows the 'Edit static website hosting' configuration page for the bucket 'shlyground.cafe-static-sitee'. The 'Static website hosting' section is enabled, and the 'Host a static website' option is selected. An informational callout box states: 'For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see Using Amazon S3 Block Public Access.' The 'Index document' field contains 'index.html', and the 'Error document - optional' field contains 'error.html'.

shlyground.cafe-static-sitee > Edit static website hosting

Edit static website hosting [Info](#)

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more ↗](#)

Static website hosting

Disable

Enable

Hosting type

Host a static website

Use the bucket endpoint as the web address. [Learn more ↗](#)

Redirect requests for an object

Redirect requests to another bucket or domain. [Learn more ↗](#)

Index document

Specify the home or default page of the website.

index.html

Error document - optional

This is returned when an error occurs.

error.html

S3 BUCKET PROCESS:

The screenshot shows the AWS S3 'Create bucket' page. At the top, there's a navigation bar with the AWS logo, a search bar, and links for 'Ask Amazon Q' and 'Europe (Stockholm)'. Below the navigation is a breadcrumb trail: 'Amazon S3 > Buckets > Create bucket'. The main content area is titled 'Block Public Access settings for this bucket'. It explains that public access can be granted through various methods like ACLs, bucket policies, or access point policies. It recommends turning on 'Block all public access' for security. There are five checkboxes under this heading:

- 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.

A warning message in a yellow box states: '⚠️ Turning off block all public access might result in this bucket and the objects within becoming public'. It advises users to turn on block all public access unless required for specific use cases like static website hosting. A checkbox below the message says: 'I acknowledge that the current settings might result in this bucket and the objects within becoming public.'

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 ↗](#)

At the bottom, there are links for 'CloudShell', 'Feedback', 'Console Mobile App', '© 2026, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

S3 BUCKET PROCESS:

The screenshot shows the Amazon S3 'Upload' interface for the bucket 'freshlyground.cafe-static-sitee'. The top navigation bar includes 'Amazon S3 > Buckets > freshlyground.cafe-static-sitee > Upload'. The main area is titled 'Upload' with a 'Info' link. A message instructs users to add files and folders, mentioning the AWS CLI, SDKs, or REST API. A large dashed box allows dragging and dropping files. Below this is a table titled 'Files and folders (0)' with a search bar containing 'style.css'. The table has columns for Name, Folder, Type, and Size. A message indicates 'No files or folders' and 'You have not chosen any files or folders to upload.' Buttons for 'Remove', 'Add files', and 'Add folder' are available. The 'Destination' section shows the destination as 's3://freshlyground.cafe-static-sitee' with a link icon. It includes a 'Destination details' section with a link to 'Bucket settings that impact new objects stored in the specified destination.' The bottom navigation bar includes links for CloudShell, Feedback, Console Mobile App, and various AWS services like Privacy, Terms, and Cookie preferences.

Amazon S3 > Buckets > freshlyground.cafe-static-sitee > 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 (0)

All files and folders in this table will be uploaded.

Name	Folder	Type	Size
style.css			0 matches

No files or folders
You have not chosen any files or folders to upload.

Destination [Info](#)

Destination
<s3://freshlyground.cafe-static-sitee> ↗

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

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S3 BUCKET PROCESS:

yground.cafe-static-sitee > Edit bucket policy

Edit bucket policy Info

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more ↗](#)

Bucket ARN
 arn:aws:s3:::freshlyground.cafe-static-sitee

Policy

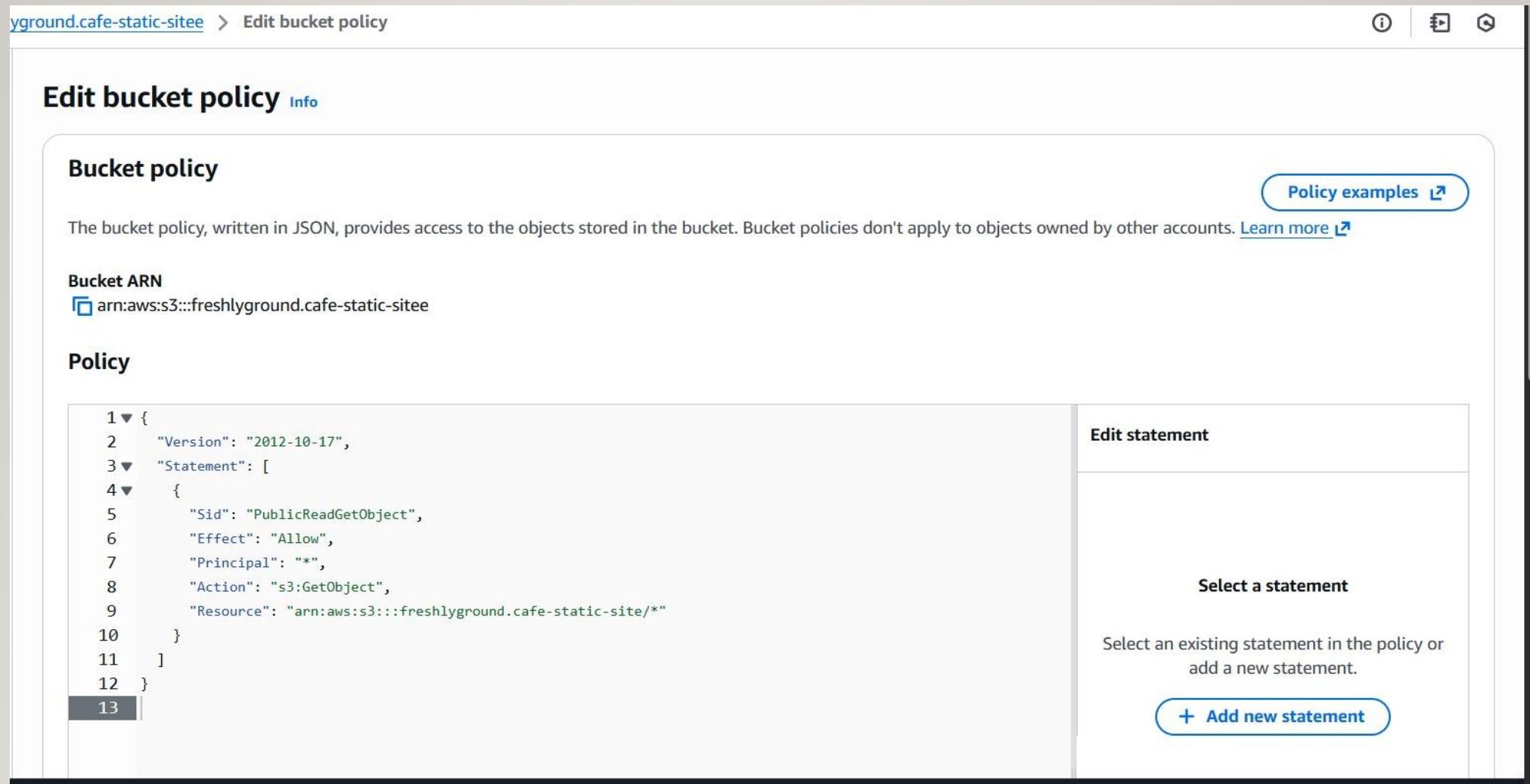
```
1 ▼ {
2   "Version": "2012-10-17",
3 ▼   "Statement": [
4 ▼     {
5       "Sid": "PublicReadGetObject",
6       "Effect": "Allow",
7       "Principal": "*",
8       "Action": "s3:GetObject",
9       "Resource": "arn:aws:s3:::freshlyground.cafe-static-sitee/*"
10      }
11    ]
12  }
13 }
```

Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement



S3 BUCKET PROCESS:

The screenshot shows the AWS S3 console interface for uploading files to an S3 bucket named "freshlyground.cafe-static-sitee".

Left Panel (File Explorer): Shows the local file structure of "Freshly_Ground" on the "Desktop" drive. The contents include "index.html", "main.js", "style.css", and an "images" folder.

Right Panel (Upload Queue): Displays the uploaded files in the S3 bucket. The files listed are "index.html", "main.js", "style.css", and "images".

Bottom Section (Destination):

- Destination:** <s3://freshlyground.cafe-static-sitee>
- Destination details:** Bucket settings that impact new objects stored in the specified destination.

Footer:

- CloudShell, Feedback, Console Mobile App
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- Privacy, Terms, Cookie preferences

S3 BUCKET PROCESS:

The screenshot shows the 'Upload' interface in the Amazon S3 console. The navigation bar at the top includes 'Amazon S3', 'Buckets', 'freshlyground.cafe-static-sitee', and 'Upload'. The main area is titled 'Upload' with a 'Info' link. A central message says '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](#)'.

A large dashed box allows users to 'Drag and drop files and folders you want to upload here, or choose Add files or Add folder.'

The 'Files and folders (1 total, 21.7 KB)' section shows one item: 'style.css'. It includes a search bar ('style.css'), a 'Remove' button, and 'Add files'/'Add folder' buttons. The table has columns for Name, Folder, Type, and Size.

Name	Folder	Type	Size
style.css	-	text/css	21.7 KB

The 'Destination' section shows the destination as 's3://freshlyground.cafe-static-sitee'. It includes a 'Destination details' link and a note about bucket settings.

The bottom navigation bar includes links for CloudShell, Feedback, Console Mobile App, Privacy, Terms, and Cookie preferences.

THE RESULT

s3.eu-north-1.amazonaws.com/freshlyground.cafe-static-sitee/index.html

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Where Passion Meets Perfection in Every Cup

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2 31°C Sunny

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11:45 2026/02/05