This lesson describes the business scenario and identifies the tasks that you will perform in the Creating a Website on Amazon S3 lab.

Business need: Website

Nikhil:

Sofía, you mentioned that you want a website that will promote the café by showing customers images of our products and listing the café's business information.

Sofía:

Yes, the café should have a website. To start, it can be a basic website.

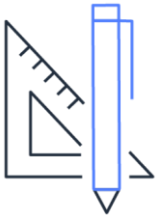
Sofía mentions to Nikhil that she would like the café to have a website that will showcase the café visually through images and provide customers with business details, such as the location of the store, the business hours, and the café's telephone number. For now, the website should be static, but eventually, it could grow into a dynamic website, for example, to allow customers to place orders online.

Nikhil responds by saying that he has an idea of how to create and host a basic website.

Technical requirements

Nikhil decides to start with a static website to begin the project. The initial technical implementation will include the following:

- An AWS Identity and Access Management (IAM) user with Amazon Simple Storage Service (Amazon S3) access for Sofía
- An S3 bucket configured to host a static website
- Website files (HTML and images)



Nikhil decides that the static website should be hosted on Amazon Simple Storage Service (Amazon S3) and describes to Sofía the technical requirements for the website. First, he needs to create an AWS Identity and Access Management (IAM) user for her and give the user access to Amazon S3. Then, he will create an S3 bucket and configure it to host a static website. Finally, he will upload the website files to the bucket.

Static website

Nikhil creates the static website and hosts it on Amazon S3. He then opens it in a browser and shows it to Sofía. This slide shows a portion of the website's single page.

Additional business need

- Sofía and Nikhil noticed that Frank has been taking new photos of menu items as they change.
- These new photos need to be uploaded to the website regularly.
- The website needs a method to update its files.

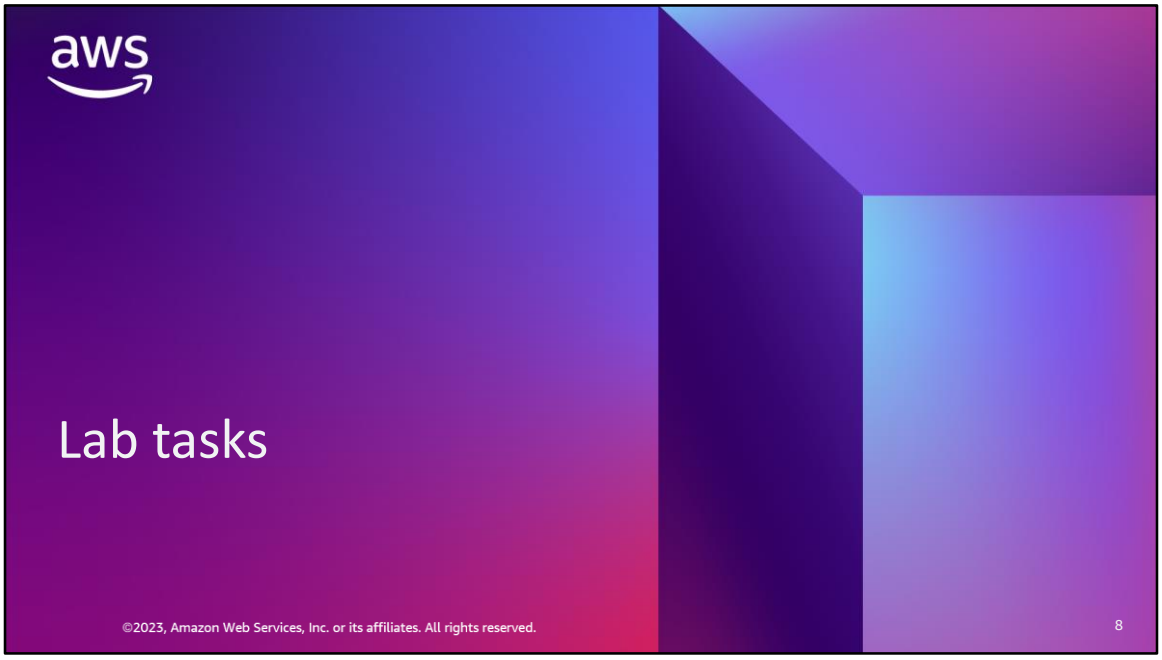
The pictures of menu items on the basic website regularly change as the menu varies. Once Frank takes the photographs of the new items, they need to be uploaded to the website.

Additional technical requirements

- Sofía and Nikhil know that both the AWS Management Console and AWS Command Line Interface (AWS CLI) can upload multiple images at a time.
- However, with the AWS CLI, you can combine commands in a script to automate the process of uploading new HTML and images to the S3 bucket. This option would make the process of updating the website faster, repeatable, and less error prone.

You can use the AWS Command Line Interface (AWS CLI) to upload multiple images at the same time. You can also use AWS CLI commands in scripts to automate administrative tasks programmatically.

Nikhil decides to create a script that uses the AWS CLI to automate the upload of files to the website's S3 bucket.



Lab tasks

Lab tasks overview

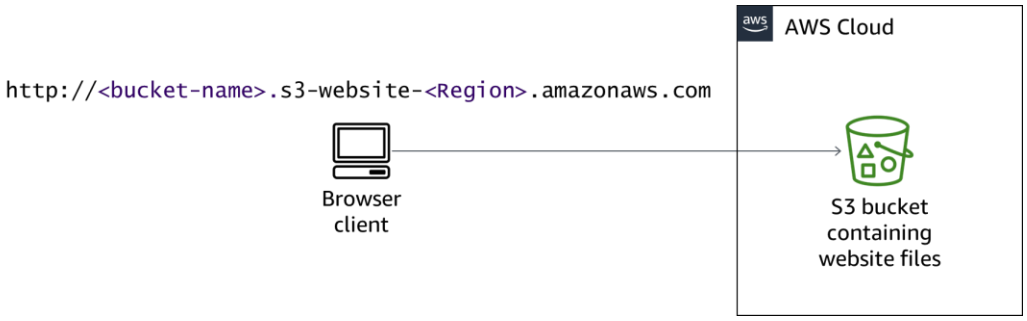
In this lab, you will use the AWS CLI to do the following:

- Create an S3 bucket.
- Create a new IAM user that has full access to the Amazon S3 service.
- Upload files to Amazon S3 to host a basic website for the café.
- Create a batch file that you can use to update the static website when you change any of the website files locally.

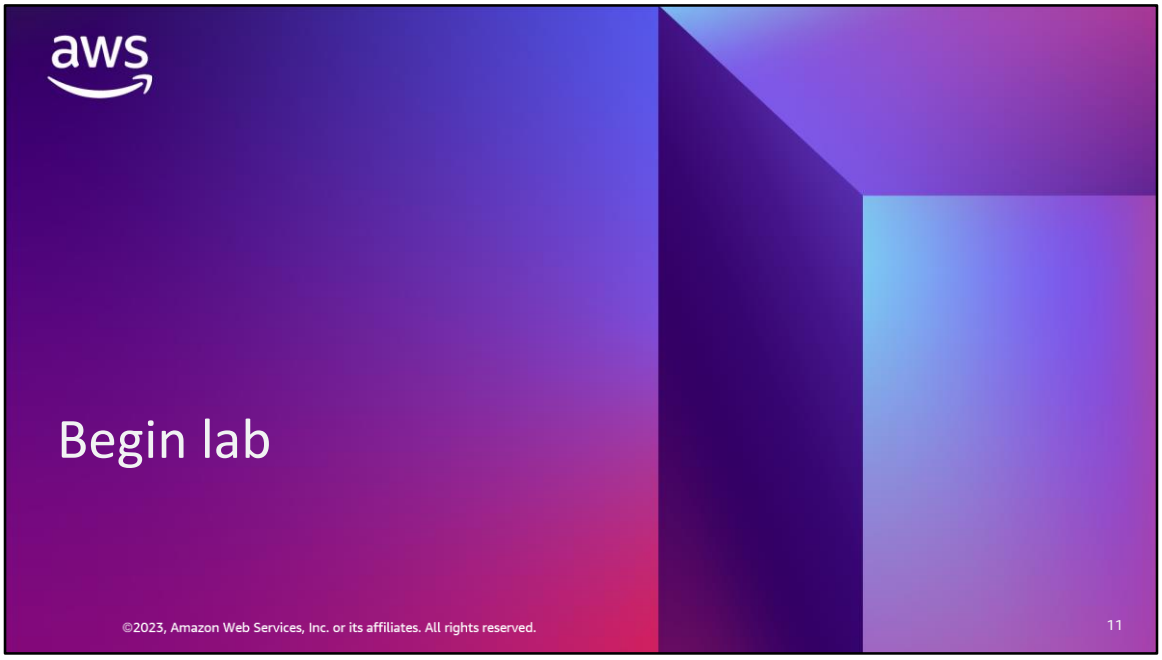
After you complete this lab, clients will be able to access the website that you deployed to Amazon S3.

Amazon S3 hosting architecture diagram

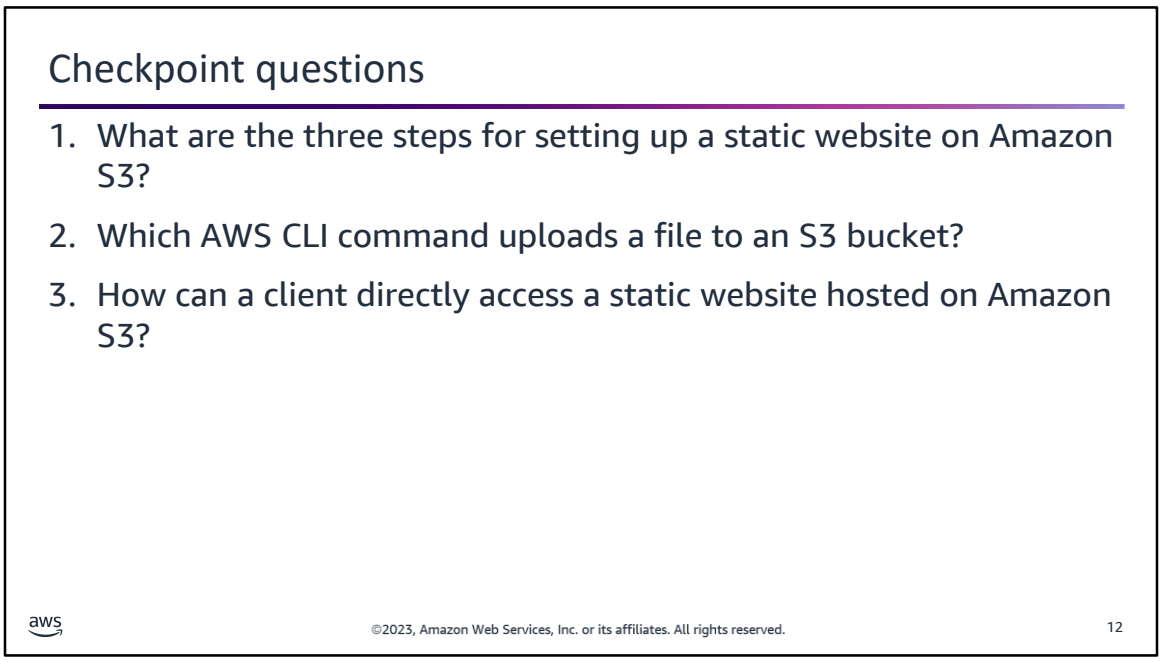
Use the bucket endpoint URL to access the website directly.



In this lab, the static café website is hosted on Amazon S3. After you create the S3 bucket and properly configure it for website hosting, a client browser can access the website directly by using the assigned Amazon S3 endpoint URL.



You can now begin the lab. Ask your instructor for help if you need it.



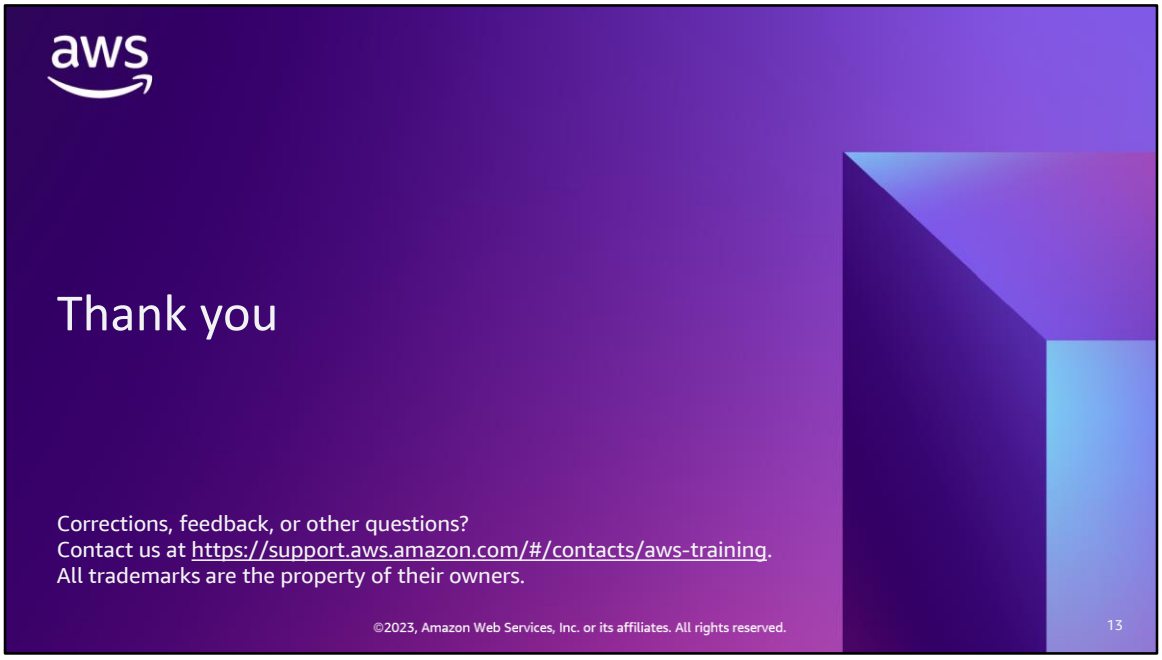
The answers to the questions are as follows:

1. What are the three steps for setting up a static website on Amazon S3?
   First, create an IAM user with access to Amazon S3. Then, create an S3 bucket and configure it to host a static website. Finally, upload the website files to the bucket.

2. Which AWS CLI command uploads a file to an S3 bucket?
   The following is the AWS CLI command that uploads a file to an S3 bucket:

   aws s3 cp

3. How can a client directly access a static website hosted on Amazon S3?
   The client uses the website endpoint URL that Amazon S3 assigns to the bucket.



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