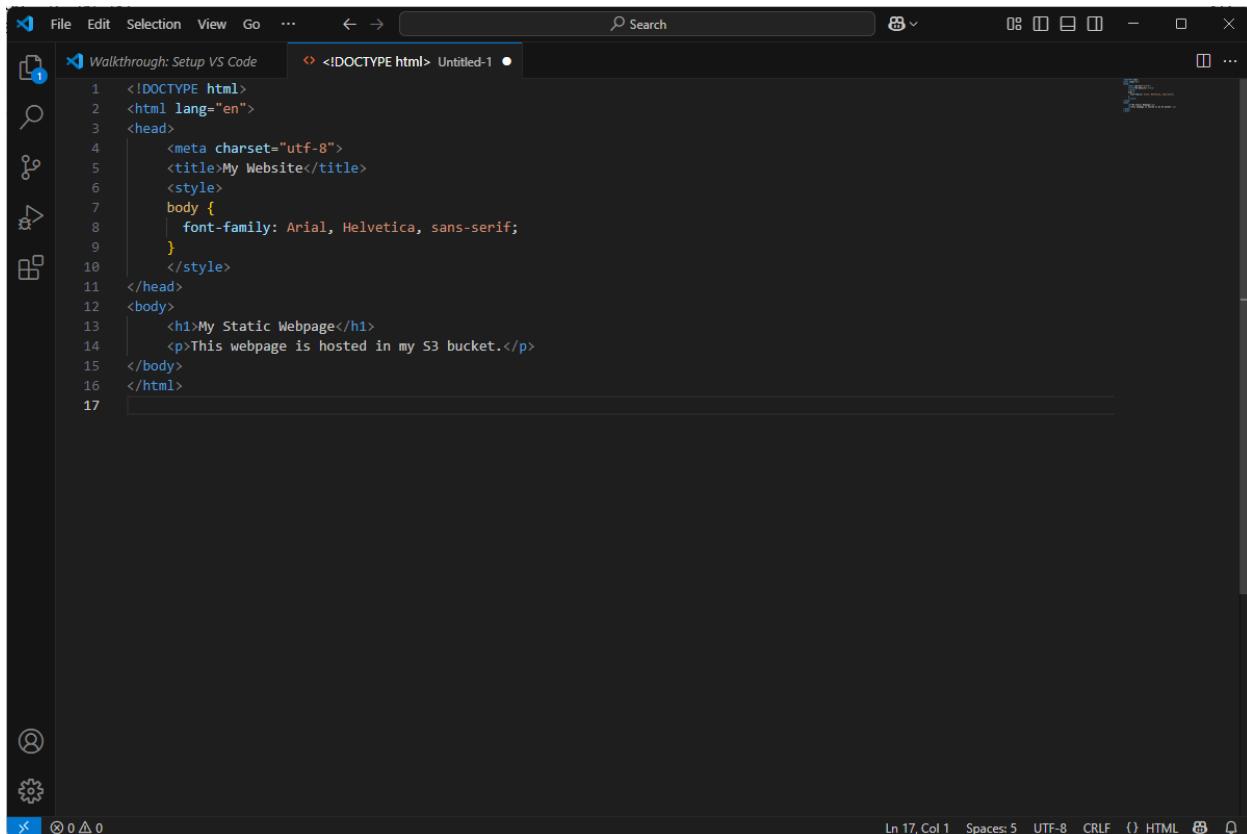


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5/7/25
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CTEC 475

Capstone Module 8

1. Create an index.html file to serve as the initial home page for your website. To do this, create a text document in Notepad or a similar simple text editor. Include the following text, and do not use any text formatting in your file; replace the bold, italicized text with your own text that is personalized and will identify you as the author:



The screenshot shows a Microsoft Visual Studio Code window with a dark theme. The title bar says "Walkthrough: Setup VS Code" and "Untitled-1". The code editor contains the following HTML code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>My Website</title>
    <style>
        body {
            font-family: Arial, Helvetica, sans-serif;
        }
    </style>
</head>
<body>
    <h1>My Static Webpage</h1>
    <p>This webpage is hosted in my S3 bucket.</p>
</body>
</html>
```

The status bar at the bottom right shows "Ln 17, Col 1 Spaces: 5 UTF-8 CRLF {} HTML".

2. Do some research for your public cloud platform to find instructions for hosting a static website in that cloud. Some platforms require special settings for hosting a static website. For example, you might need to use a particular name for your bucket or container, or you might need to eliminate pieces of the HTML code (such as the header). As you do your research, keep in mind that for this project, you do not need to set up resources required to support a custom domain. For example, GCP requires a load

balancer to use a custom domain, and this configuration is not required for this project. For this project, you also do not need to create an error file, also called a 404.html file.

Static website hosting functionality is configured within a storage account and isn't enabled by default. To enable static website hosting, select a storage account. In the left navigation pane, select Static website from the Data management group, and then select Enabled. Provide a name for your Index document. You can optionally provide a path to a custom 404 page. Finally, select Save to save your configuration changes.

3. In your selected public cloud platform, create a storage bucket or container and enable public access to this bucket or container. What is the name of your storage bucket or container?

https://portal.azure.com/?Microsoft_Azure_Education_correlationId=3ff69c44-7dff-4f7d-8c42-4e5528ca6a17&view/Microsoft_Azure_Storage/ContainerMenuBlade/-/overview/storageAccountid%2Fsubscriptions%2F090417b7-a9c7-44f5-a691-ac73987dc0a9%2freourceGroups%2Fstorage%2Fproviders%2FMicrosoft.Storage%2FstorageAccounts%2Fconta...

- Upload your index.html file to your bucket or container. If needed, enable public access to this object or blob. What steps did you need to take to enable.

The screenshot shows the Microsoft Azure Storage interface for a static website container named "static-website". In the top right corner, there is a success message: "Successfully uploaded blob(s) Successfully uploaded 1 blob(s)". Below this, a table lists a single blob named "index.html" with details: Modified (5/7/2025, 8:14:19 PM), Access tier (Hot (inferred)), Archive status (Not yet archived), Blob type (Block blob), Size (326 B), and Lease state (Available). The table has columns for Name, Modified, Access tier, Archive status, Blob type, Size, and Lease state.

3

The screenshot shows the Microsoft Azure Storage interface for the "index.html" file within the "static-website" container. The file content is displayed in a code editor:

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <title>My Website</title>
6   </head>
7   <body>
8     <h1>My Static Webpage</h1>
9     <p>This webpage is hosted in my S3 bucket.</p>
10  </body>
11 </html>
```

Below the code editor, there is a "Preview" button.

5. Visit the website's public URL in an incognito window to ensure anyone can access your website. If you receive any error messages here, troubleshoot and fix the problem. Take a screenshot of your website showing the public URL in the browser's address bar and the personalized text on the webpage; submit this visual with your answers to this project's questions.

Azure Blob Storage Path

The provided URL structure indicates an attempt to access a blob named `index.html` within a container named `container_name` in an Azure Blob Storage account named `storage_account_name`. To access this blob, ensure that the container and blob names follow the naming rules specified by Azure Blob Storage. Container names must be lowercase and between 3 and 63 characters long, and can only contain lowercase letters, numbers, and the dash (-) character.

Introduction to Blob (object) Storage - Azure Storage | Microsoft Learn

Use Azure Blob Storage to store massive amounts of unstructured object data, such as text or binary data. Azure Blob Storage is highly scalable and available.

Naming and Referencing Containers, Blobs, and Metadata - Azure Storage

The URI to reference a container or a blob must be unique. Because every account name is unique, two accounts can have containers with the same name. However, within a given storage account, every container must have a unique name.

Videos

YouTube > Danny Moran

How to use Azure Storage Account Containers - YouTube

<https://learn.microsoft.com/en-us/azure/storage/blobs/storage-blob-introduction>

6. Delete all resources you created for this project, including any resource groups, storage accounts, buckets, containers, objects, or blobs. Check through your account to ensure you permanently deleted or terminated any resources created in this project.

Azure services

- Create a Resource
- Storage accounts
- Container Apps
- Subscriptions
- Resource groups
- Virtual machines
- Azure Database for MySQL...
- Virtual networks
- Network security groups
- More services

Resources

Name	Type	Last Viewed
Azure for Students	Subscription	an hour ago

Tools

- Microsoft Learn
- Azure Monitor
- Microsoft Defender for Cloud
- Cost Management

Useful links

- Technical Documentation
- Azure Migration Tools
- Azure Services
- Find an Azure expert
- Recent Azure Updates
- Quickstart Center

Azure mobile app

- Download on the App Store
- GET ON Google Play