

Lab 3 Implement Static Website with S3

In this challenge, you will create an S3 bucket with version control to be a static website. Note: Once you begin a challenge you will not be able to pause, save, or return to your progress. Please ensure you have set aside enough time to complete the challenge before you start.

Task 1: Create an S3 bucket for your website

S3 -> create bucket -> create bucket

Create S3 bucket | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/bucket/create?region=us-east-2&bucketType=general

aws Search [Alt+S] United States (Ohio) LabUserRole/LabUseriod51567034 @ 5575-9460-5467

Amazon S3 > Buckets > Create bucket

Create bucket [Info](#)

Buckets are containers for data stored in S3.

General configuration

AWS Region
US East (Ohio) us-east-2

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](#)

companywebsite-51567034

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](#)

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Create S3 bucket | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/bucket/create?region=us-east-2&bucketType=general

Amazon S3 > Buckets > Create bucket

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.

We recommend disabling ACLs, unless you need to control access for each object individually or to have the object writer own the data they upload. Using a bucket policy instead of ACLs to share data with users outside of your account simplifies permissions management and auditing.

Object Ownership

☒ **Bucket owner preferred**
If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

☐ **Object writer**
The object writer remains the object owner.

If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads.
[Learn more](#)

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Create S3 bucket | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/bucket/create?region=us-east-2&bucketType=general

Amazon S3 > Buckets > Create bucket

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. 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.

Turning off block all public access might result in this bucket and the objects within becoming public
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

☒ I acknowledge that the current settings might result in this bucket and the objects within becoming public.

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Task 2: Enable versioning

Open the bucket created -> properties -> bucket versioning

Edit versioning - S3 bucket companywebsite-51567034 | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/bucket/companywebsite-51567034/property/versioning/edit?region=us-east-2&bucketType=general

Amazon S3 > Buckets > companywebsite-51567034 > Edit Bucket Versioning

Edit Bucket Versioning [Info](#)

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

☐ Suspend
This suspends the creation of object versions for all operations but preserves any existing object versions.

☒ Enable

After enabling Bucket Versioning, you might need to update your lifecycle rules to manage previous versions of objects.

Multi-factor authentication (MFA) delete

An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

Disabled

[Cancel](#) [Save changes](#)

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companywebsite-51567034 - S3 bucket | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/buckets/companywebsite-51567034?region=us-east-2&bucketType=general&tab=properties

Amazon S3 > Buckets > companywebsite-51567034

Successfully edited Bucket Versioning
To transition, archive, or delete older object versions, [configure lifecycle rules](#) for this bucket.

companywebsite-51567034 [Info](#)

Objects Metadata **Properties** Permissions Metrics Management Access Points

Bucket overview

AWS Region US East (Ohio) us-east-2	Amazon Resource Name (ARN) arn:aws:s3:::companywebsite-51567034	Creation date May 22, 2025, 16:09:56 (UTC+05:30)
---	---	--

Bucket Versioning [Edit](#)

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

Enabled

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Task 3: Configure the bucket to be a website

Open bucket -> properties -> static website hosting

The screenshot shows the 'Edit static website hosting' page in the AWS console. The breadcrumb trail is 'Amazon S3 > Buckets > companywebsite-51567034 > Edit static website hosting'. The page title is 'Edit static website hosting' with an 'Info' link. Under 'Static website hosting', the 'Enable' radio button is selected. Under 'Hosting type', 'Host a static website' is selected. A blue information 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 is empty, with a placeholder 'index.html'.

The screenshot shows the 'Static website hosting' properties page in the AWS console. A green success message at the top reads 'Successfully edited static website hosting.' with an 'Edit' button. The page title is 'Static website hosting' with an 'Edit' button. Under 'Static website hosting', the 'Enable' radio button is selected. Under 'Hosting type', 'Bucket hosting' is selected. The 'Bucket website endpoint' section shows the endpoint 'http://companywebsite-51567034.s3-website-us-east-2.amazonaws.com'. A blue information box recommends using AWS Amplify Hosting, with a 'Create Amplify app' button.

Task 4: Allow public access to the website

Add bucket policy to the bucket

The screenshot shows the 'Edit bucket policy' page in the AWS console. The breadcrumb navigation is 'Amazon S3 > Buckets > companywebsite-51567034 > Edit bucket policy'. The page title is 'Edit bucket policy' with an 'Info' link. Below the title, there are links for 'Policy examples' and 'Policy generator'. A paragraph explains that the bucket policy, written in JSON, provides access to the objects stored in the bucket. The 'Bucket ARN' is displayed as 'arn:aws:s3:::companywebsite-51567034'. The 'Policy' section shows a JSON policy with a single statement 'PublicReadGetObject' that allows the 's3:GetObject' action for the bucket's ARN. To the right of the JSON editor is a panel titled 'Edit statement' with a 'Select a statement' button and a note to 'Select an existing statement in the policy or add a new statement.'

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:::companywebsite-51567034

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:::companywebsite-51567034/*"
10    }
11  ]
12 }
```

Edit statement

Select a statement

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

The screenshot shows the 'Bucket policy' page in the AWS console. A green banner at the top indicates 'Successfully edited bucket policy.' The breadcrumb navigation is 'Amazon S3 > Buckets > companywebsite-51567034'. The page title is 'Bucket policy' with 'Edit' and 'Delete' buttons. A paragraph explains that the bucket policy, written in JSON, provides access to the objects stored in the bucket. The JSON policy is displayed in a text area, and a 'Copy' button is available to the right. The policy is identical to the one in the previous screenshot.

Bucket policy Edit Delete

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](#)

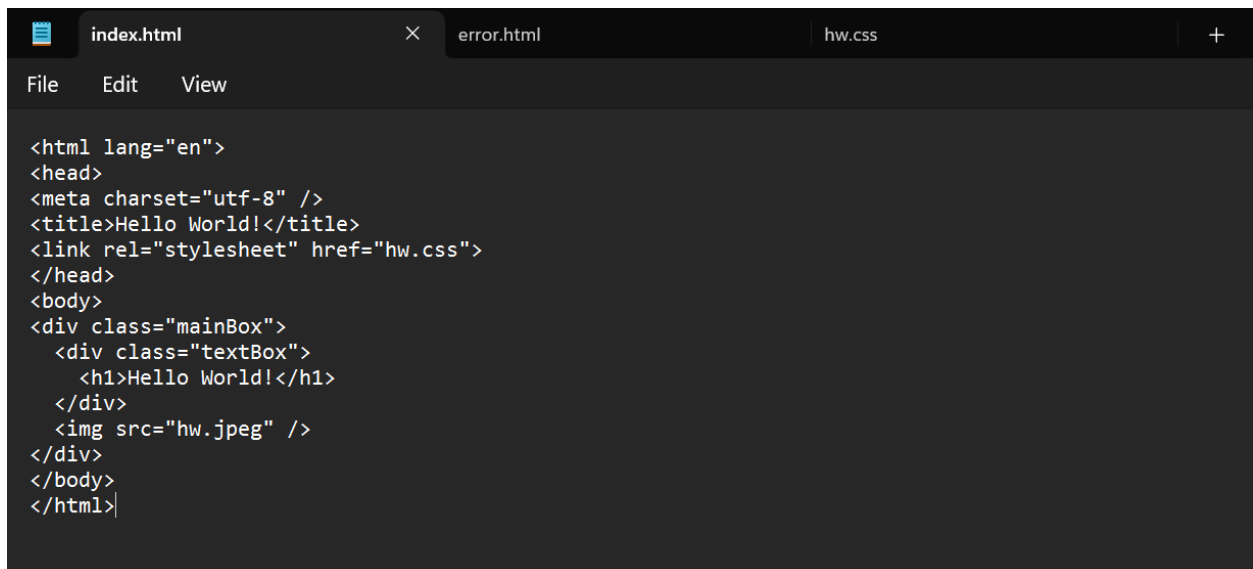
```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::companywebsite-51567034/*"
    }
  ]
}
```

Copy

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::companywebsite-51567034/*"
    }
  ]
}
```

Task 5: Create the files for a static website

Create the **index.html** file



```
index.html  error.html  hw.css  +
File Edit View

<html lang="en">
<head>
<meta charset="utf-8" />
<title>Hello World!</title>
<link rel="stylesheet" href="hw.css">
</head>
<body>
<div class="mainBox">
  <div class="textBox">
    <h1>Hello World!</h1>
  </div>
  
</div>
</body>
</html>
```

```
<html lang="en">

<head>

<meta charset="utf-8" />

<title>Hello World!</title>

<link rel="stylesheet" href="hw.css">

</head>

<body>

<div class="mainBox">

  <div class="textBox">

    <h1>Hello World!</h1>

  </div>

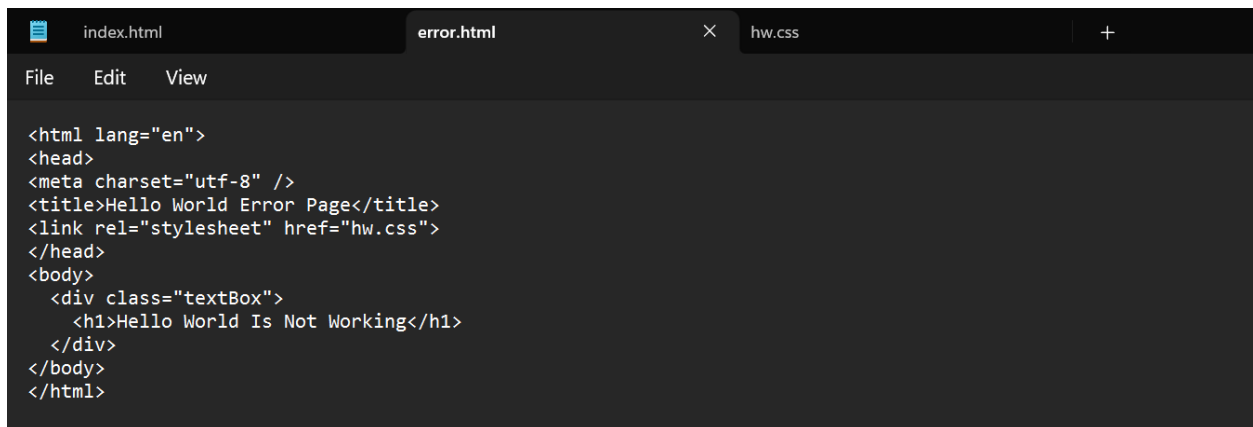
  

</div>

</body>

</html>
```

error.html file

A screenshot of a code editor with a dark theme. The editor has three tabs at the top: 'index.html', 'error.html' (which is the active tab), and 'hw.css'. Below the tabs is a menu bar with 'File', 'Edit', and 'View'. The main area of the editor displays the HTML code for 'error.html'. The code is as follows:

```
<html lang="en">
<head>
<meta charset="utf-8" />
<title>Hello World Error Page</title>
<link rel="stylesheet" href="hw.css">
</head>
<body>
  <div class="textBox">
    <h1>Hello World Is Not Working</h1>
  </div>
</body>
</html>
```

```
<html lang="en">

<head>

<meta charset="utf-8" />

<title>Hello World Error Page</title>

<link rel="stylesheet" href="hw.css">

</head>

<body>

  <div class="textBox">

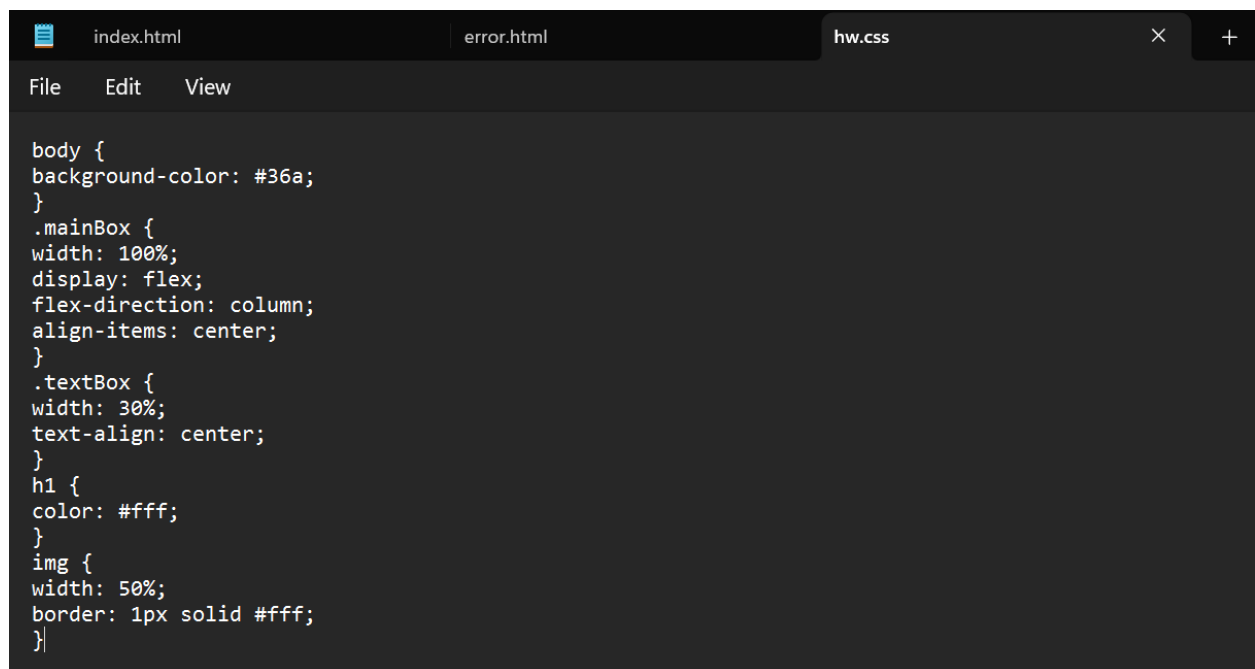
    <h1>Hello World Is Not Working</h1>

  </div>

</body>

</html>
```

hw.css file

A screenshot of a code editor with a dark theme. The editor has three tabs at the top: 'index.html', 'error.html', and 'hw.css'. The 'hw.css' tab is active. Below the tabs is a menu bar with 'File', 'Edit', and 'View'. The main area of the editor contains CSS code for the 'hw.css' file. The code defines styles for the body, .mainBox, .textBox, h1, and img elements. The body has a background color of #36a. .mainBox is a flex container with a column direction and centered items. .textBox has a width of 30% and centered text. h1 is white. img has a width of 50% and a white border.

```
body {
background-color: #36a;
}
.mainBox {
width: 100%;
display: flex;
flex-direction: column;
align-items: center;
}
.textBox {
width: 30%;
text-align: center;
}
h1 {
color: #fff;
}
img {
width: 50%;
border: 1px solid #fff;
}
```



```
body{
background-color: #36a;
}
.mainBox{
width: 100%;
display: flex;
flex-direction: column;
align-items: center;
}
.textBox {
width: 30%;
text-align: center;
}
h1 {
color: #fff;
}
img{
width: 50%;
border: 1px solid #fff;
}
```

Download a photo with **hw.jpeg**

Upload all the four files to the bucket

Upload objects - S3 bucket companywebsite-51567034 | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/upload/companywebsite-51567034?region=us-east-2&bucketType=general

aws Search [Alt+S] United States (Ohio) LabUserRole/LabUserIod51567034 @ 5575-9460-5467

Amazon S3 Buckets companywebsite-51567034 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)

Remove Add files Add folder

All files and folders in this table will be uploaded.

< 1 >

	Name	Folder	Type	Size
No files or folders				
You have not chosen any files or folders to upload.				

Destination Info

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Upload objects - S3 bucket companywebsite-51567034 | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/upload/companywebsite-51567034?region=us-east-2&bucketType=general

aws Search [Alt+S] United States (Ohio) LabUserRole/LabUserIod51567034 @ 5575-9460-5467

Amazon S3 Buckets companywebsite-51567034 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 (4 total, 757.9 KB)

Remove Add files Add folder

All files and folders in this table will be uploaded.

< 1 >

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	hw.jpeg	-	image/jpeg	757.2 KB
<input type="checkbox"/>	hw.css	-	text/css	246.0 B
<input type="checkbox"/>	error.html	-	text/html	239.0 B
<input type="checkbox"/>	index.html	-	text/html	271.0 B

Destination Info

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Upload objects - S3 bucket companywebsite-51567034 | S3 | us-east-2 - Work - Microsoft Edge

https://us-east-2.console.aws.amazon.com/s3/upload/companywebsite-51567034?region=us-east-2&bucketType=general

aws Search [Alt+S] United States (Ohio) LabUserRole/LabUserIod51567034 @ 5575-9460-5467

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

Files and folders Configuration

Files and folders (4 total, 757.9 KB)

Find by name

Name	Folder	Type	Size	Status	Error
hw.jpeg	-	image/jpeg	757.2 KB	✓ Succeeded	-
hw.css	-	text/css	246.0 B	✓ Succeeded	-
error.html	-	text/html	239.0 B	✓ Succeeded	-
index.html	-	text/html	271.0 B	✓ Succeeded	-


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Mail - Sharma, Mansi - Cloud Foundation Schoo Percipio Lab Can You Ser Lab Setup Hello World!

https://companywebsite-51567865.s3.us-east-2.amazonaws.com/index.html

Hello World!




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labclient.labondemand.com/Instructions/ExamResult/ed4d463e-a899-4849-8534-3f9cb3cc48c3 - Work - Microsoft Edge
https://labclient.labondemand.com/Instructions/ExamResult/ed4d463e-a899-4849-8534-3f9cb3cc48c3

Congratulations! [Print](#)

You'll want to put this on the fridge!



100%

Areas where you excelled

- **Create an S3 bucket for your website**
Looks like you have a strong grasp on this material.
- **Enable versioning**
After completing this section, it's obvious you know what you're talking about.
- **Configure the bucket to be a website**
No doubt about it, in this section you know your stuff.

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Search
4:30 PM 5/22/2025

You are done with the Lab!!!!