



TECHNOLOGY CAMP

DAY 3 : CLOUD COMPUTING

Web Apps in Microsoft Azure

Session 2



YELLOW CIRCLE INC
PO Box 2383
Elk Grove, CA 95759-2383

Teacher Lesson Plan

Web Apps in Microsoft Azure

Session Name:

Web Apps in Microsoft Azure

Summary:

In this lesson, you will learn how to use Microsoft Azure to build a Shared Web App and then to use Filezilla to FTP content to an Azure Web App.

Time Allotment:

65 minutes

Learning Objectives:

- *Learn How to Login to Azure*
- *Build a Web App using Azure*
- *Learn how to use Filezilla to FTP content to an Azure Web App*

Supplies:

- *Scrap paper / notepad to take notes*
- *Laptop / computer with Internet access*
- *Microsoft Azure Login Credentials (provided)*

Learning Activities:

- **(4 minutes) - Session overview**

In this session, students learn how to login to Microsoft Azure, build a Web App using Azure portal, and then learn how to use Filezilla to FTP content to an Azure Web App.

Discuss how Azure allows for the deployment of web apps without the need to maintain the infrastructure through PaaS. Explain how to use Filezilla to FTP content to an Azure Web App.



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- (6 minutes) - Video - Create Azure Web App in the Azure Portal

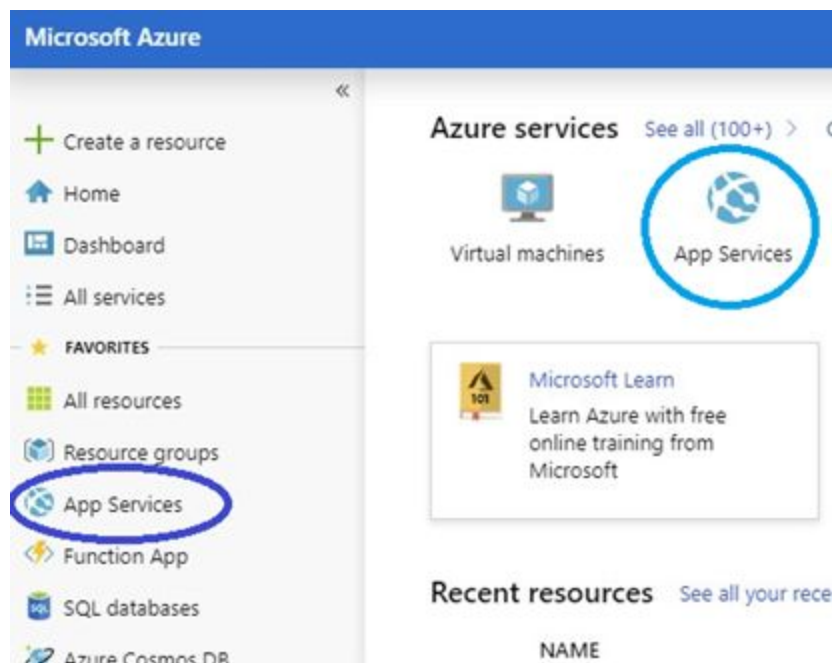
<https://www.youtube.com/watch?v=sdpxddDzXfE>

- (5 minutes) - Lab: Login to Azure

- Quick safety talk about the use of laptops
- Provide students with password to student account (password will be provided)
- Remind students to follow along with the demonstration and that they will have time at the end of the lesson to work and experiment.
- Confirm that everyone is logged into the Azure Portal before beginning the lesson.

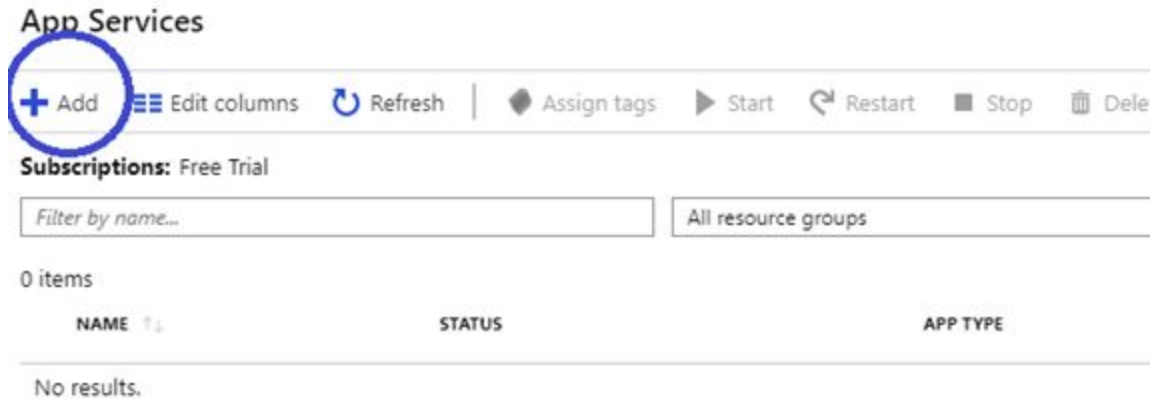
- (15 minutes) – Demonstration: Build a Web App in Azure

1. After logging in, you will be on the Azure Home, Select App Services from either menu.



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2. From the App Services Screen select Add



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3. From the Web App Create Screen - Complete the fields.


Web App


Create

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. [Learn more](#)


Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

* Subscription 

* Resource Group  [Create new](#)

Instance Details

* Name  .azurewebsites.net

* Publish


* Runtime stack

* Operating System

* Region

App Service Plan

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

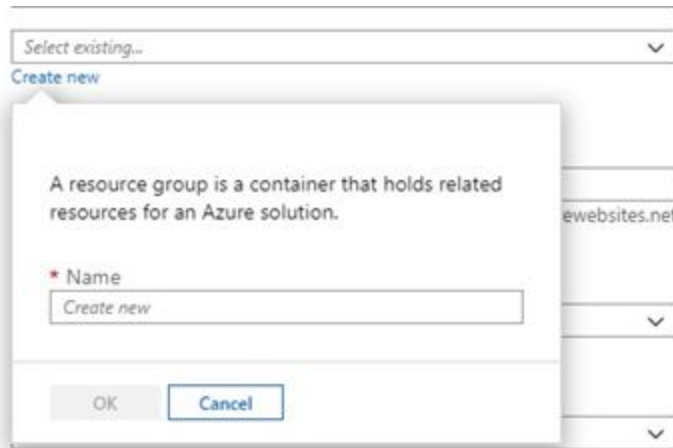
* Windows Plan (Central US)  [Create new](#)

* Sku and size

Free F1
Shared infrastructure, 1 GB memory
[Change size](#)

Under Project Details Resource Group, you will need to click create new and create a new Resource Group in the popup

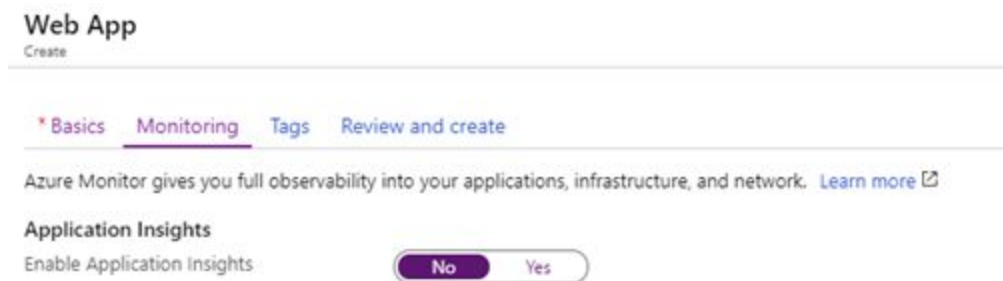
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Note: The Instance Details Name must be unique as this will be used to create the subdomain for the URL. Also, you may discuss the importance of selecting a region to minimize lag time.

When all the required fields are complete, select Next:Monitoring

4. *We will not be using monitoring for this lesson so slide the slider to No and select Review and create*



5. *From the Summary Screen review that all of the details are correct and select Create*

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Web App

Create


* Basics

Monitoring

Tags

Review and create

Summary

 **Web App**
by Microsoft

Details

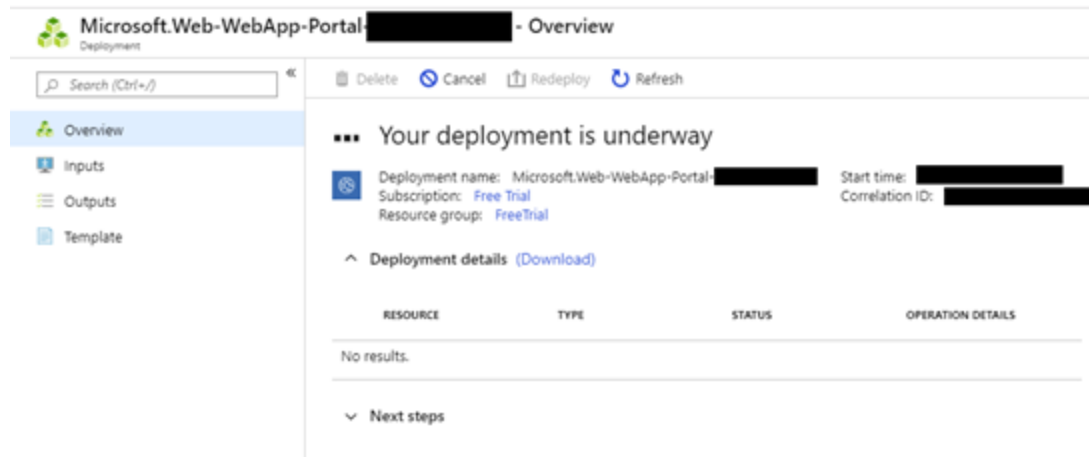
Subscription	
Resource Group	FreeTrial
Name	YCDemoWebApp
Publish	Code
Runtime stack	ASP.NET V4.7

App Service Plan

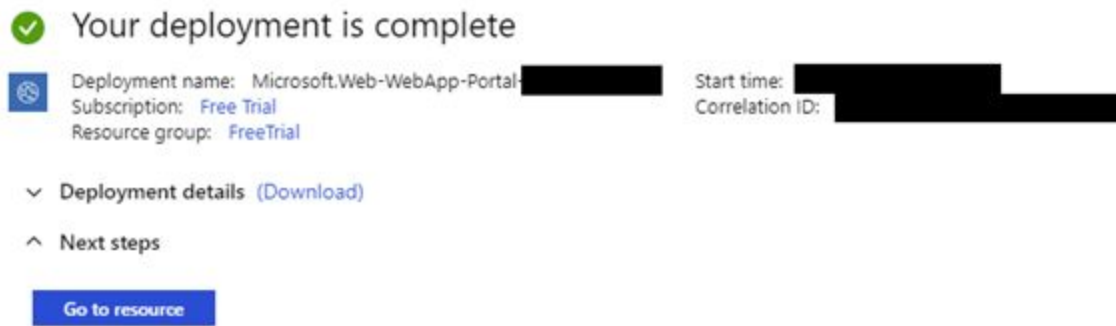
Name	ASP-FreeTrial
Operating System	Windows
Region	Central US
SKU	Free
Size	
ACU	Shared infrastructure
Memory	1 GB memory

6. The deployment underway screen will display...wait for Azure to complete the provisioning of the Web App

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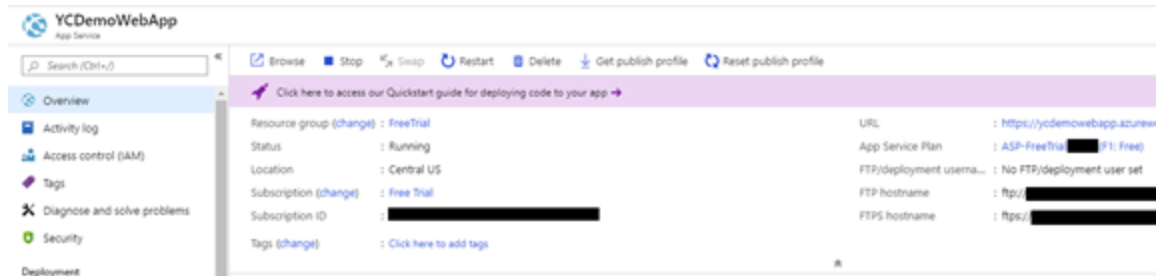


7. Once Provisioning is complete, the following screen will display. Select Go to Resource to display the Web App Details screen

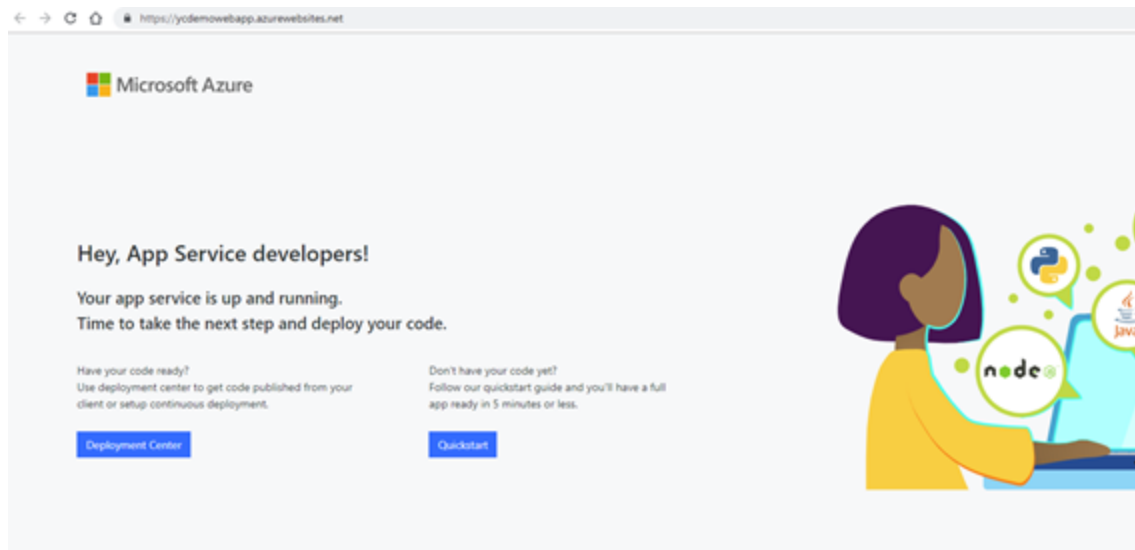


8. The App details screen will provide you with the URL of the web app, and clicking on this URL will launch the app to confirm that it is up and running

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9. Below is the Deployed Web App (Note the App Name is now a subdomain in the URL)

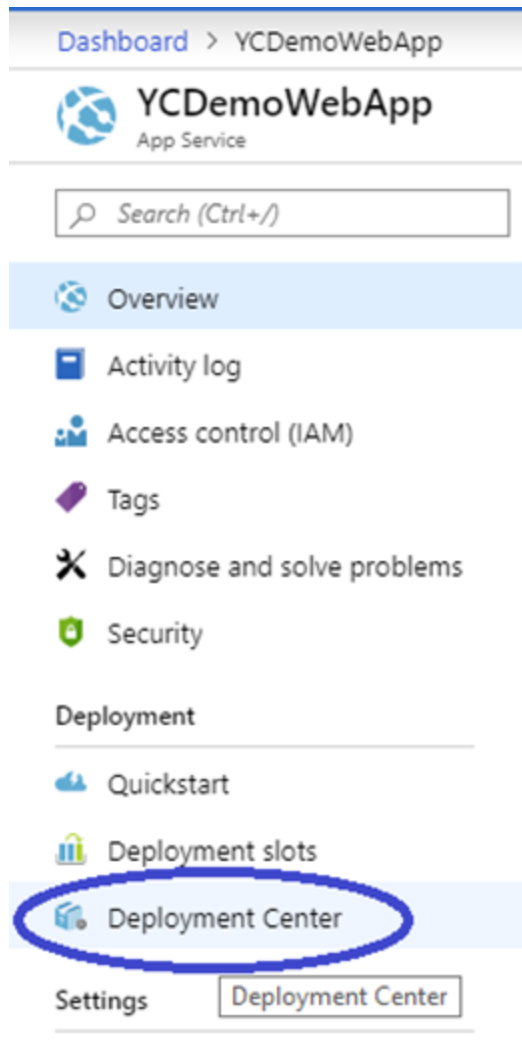


10. Confirm that all students have successfully deployed the Web App before continuing.

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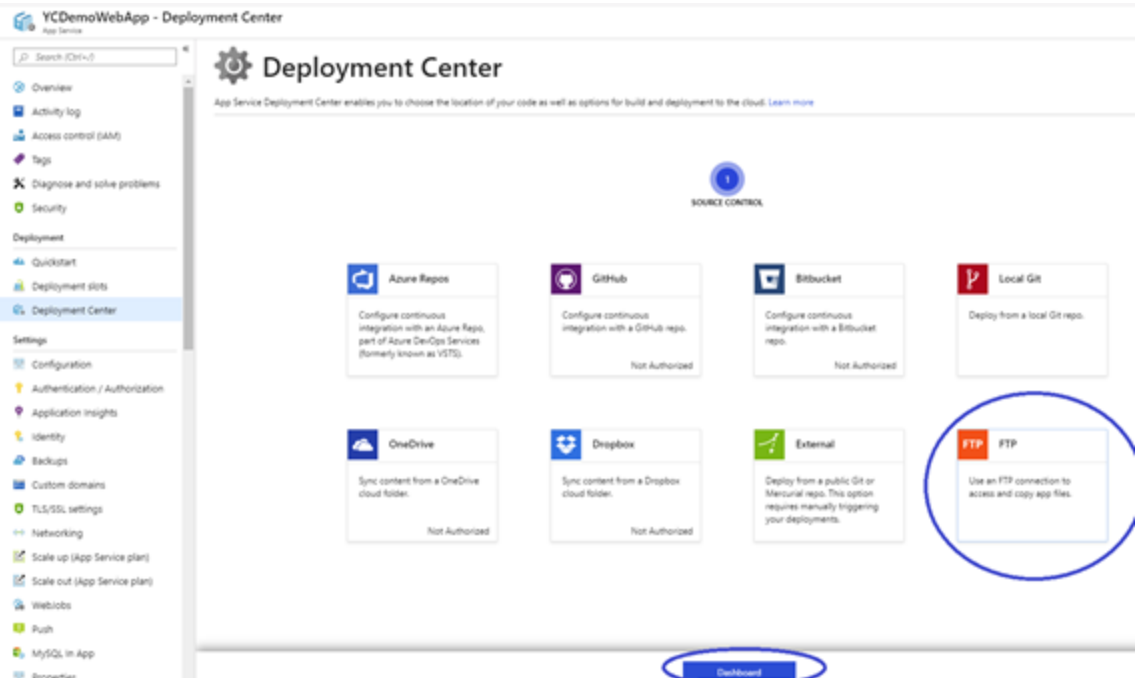
- (15 minutes) – Demonstration: Upload files to Web App

1. From your App Service Screen select Deployment Center



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2. From the Deployment Center Screen, select FTP and click Dashboard



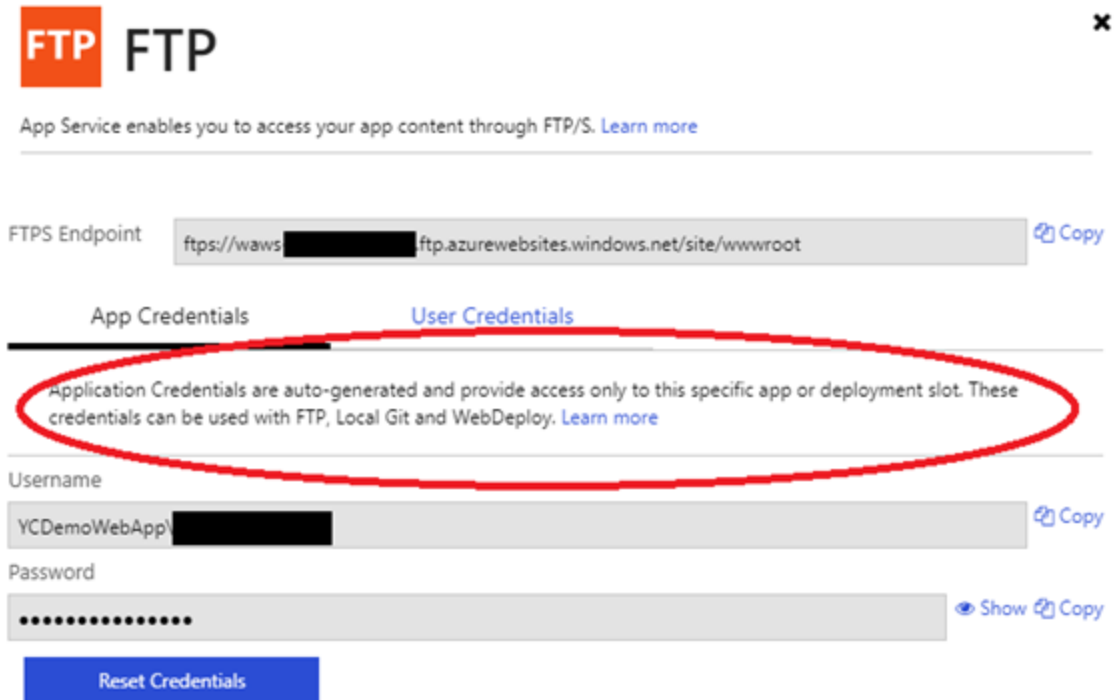
3. This will open the FTP slide out menu.

- i. The credentials provided are auto-generated and cannot be modified, but can be reset by clicking the reset credentials button at any time.
- ii. We will be using the FTPS Endpoint, Username, and Password in Filezilla to upload our Web App content.

Note for students: The description circled in red below "Application Credentials are auto-generated and provide access only to this specific app or deployment"

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slot. These credentials can be used with FTP, Local Git and WebDeploy.”



FTP **FTP** ✕

App Service enables you to access your app content through FTP/S. [Learn more](#)

FTPS Endpoint `ftps://waws[REDACTED]ftp.azurewebsites.windows.net/site/wwwroot` [Copy](#)

App Credentials **User Credentials**

Application Credentials are auto-generated and provide access only to this specific app or deployment slot. These credentials can be used with FTP, Local Git and WebDeploy. [Learn more](#)

Username

YCDemoWebApp[REDACTED] [Copy](#)

Password

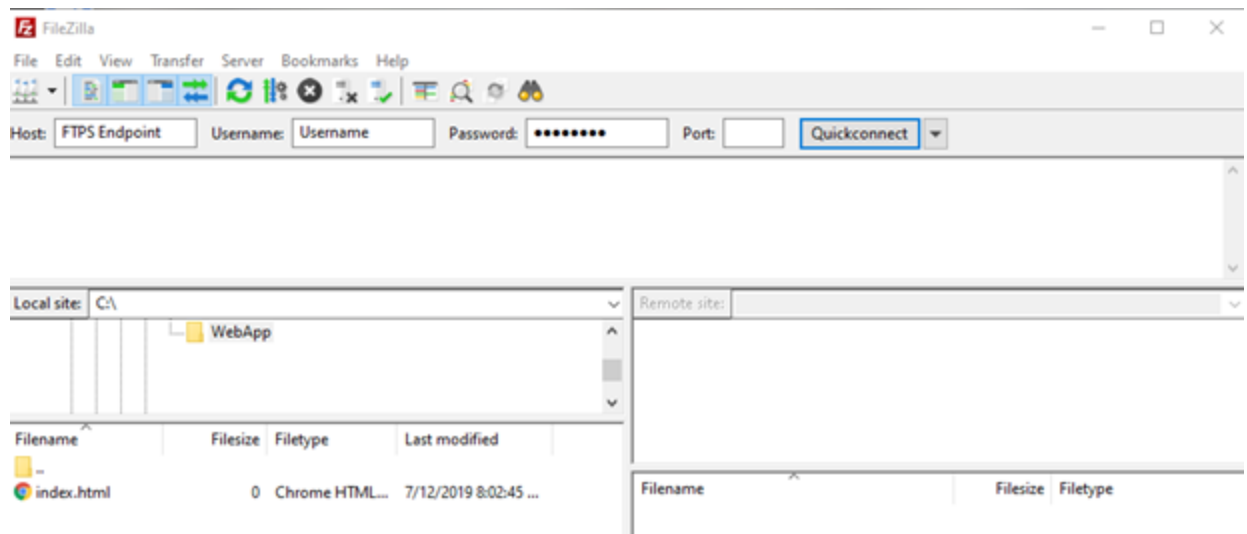
..... [Show](#) [Copy](#)

[Reset Credentials](#)

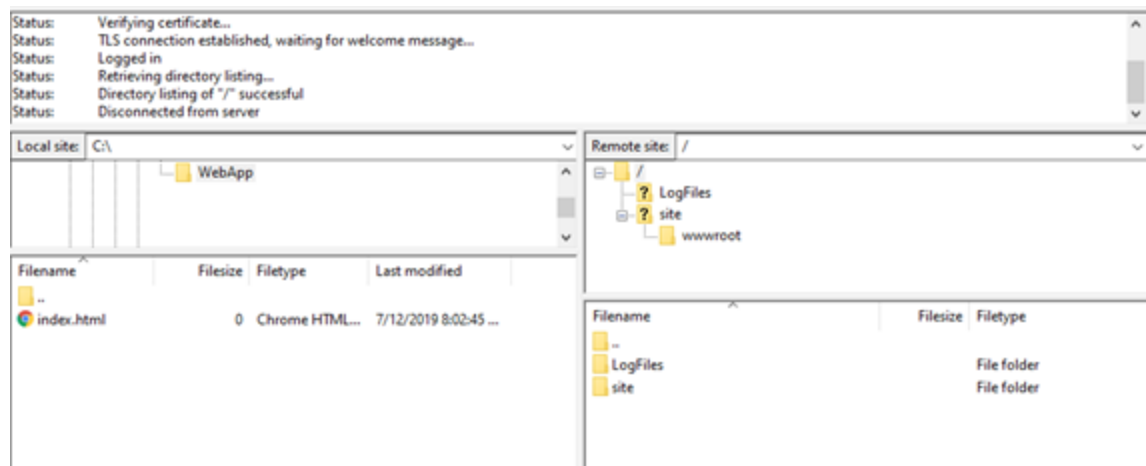
4. Open Filezilla and paste the FTPS Endpoint, Username, and Password into the Host: Username: and Password: fields (leave port blank) and select Quickconnect.

Note: An unknown certificate window will appear. Explain that this is a security feature that appears to let you know the name on the secure certificate is not an exact match to the URL. This is expected because the URL is created dynamically based on the Web App name. Advise students to select OK to dismiss this window

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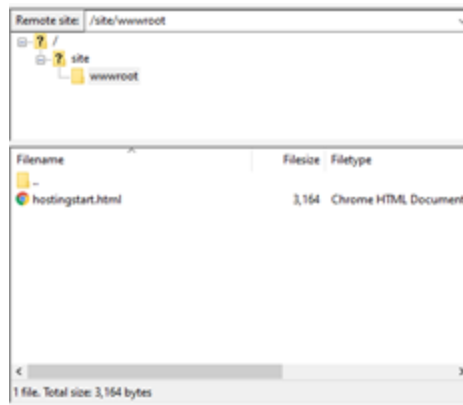


5. *Successful connection will be indicated by the following Status information and population of the Remote site (right) pane.*
 - i. *Explain that there are 2 panes that function similar to file explorer. The pane on the left is their local computer and the pane on the right is their Web App site in Azure.*



6. *Navigate to the wwwroot by selecting site then wwwroot in the right (Remote site) pane.*

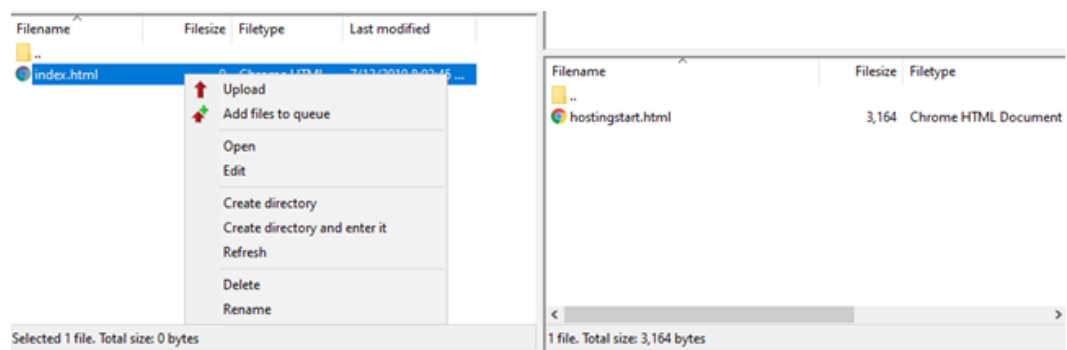
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This is the folder where we will upload our content. Note the .html file currently is this folder displays the default screen we saw when we first created the Web App

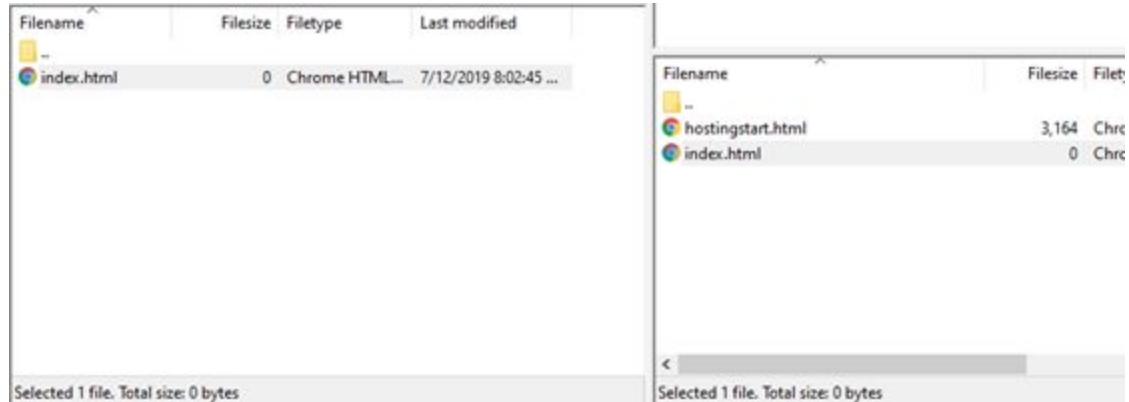
7. To upload a file:

- i. Navigate to the file location in the left (Local site) pane. Explain that this is exactly the same as using file explorer.
- ii. Select the file from the right (Local site) pane, right click and select upload.



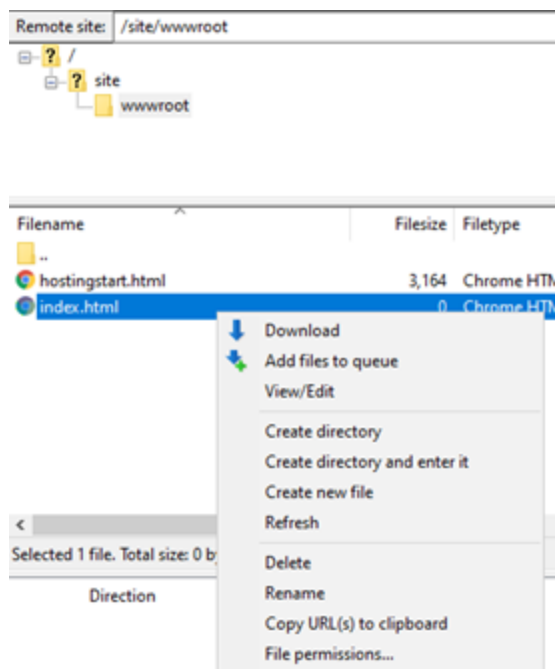
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8. *The file will be uploaded and appear in the right (Remote site) pane.*



Demonstrate by reloading the Web App URL in the browser. The default page should be replaced with new content.

9. *Filezilla can also be used to remove files. Right click on the file name and select delete.*



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- i. Demonstrate by reloading the Web App URL in the browser. The default page should be replaced with new content.
- ii. Demonstrate how by modifying the url with additional file names, they can display different pages in the Web App

10. Advise students of the Practice files folder on their desktops and explain how they can use the .html files in it the next lab to practice

- **(15 minutes) – Activity: Try It**

Build another Web App using Azure

Modify or create your own .html files

Use Filezilla to FTP content to an Azure Web App and see your changes

- **(4 minutes) Closing / Wrap-up**

How to Login to Azure

How to build a Web App using Azure

How to use Filezilla to FTP content to an Azure Web App

- **(1 minutes) - What's next?**

Inform students to head back to the cafeteria for lunch break, and remind them to use the restroom before next session starts.