

The background is a deep blue with a complex digital theme. It features glowing blue circuit lines, a large gear at the bottom, a rocket ship on the right, and various geometric shapes like cubes and spheres. The title is in large, bold, white capital letters.

DIGITAL CERTIFICATE IMPLEMENTATION

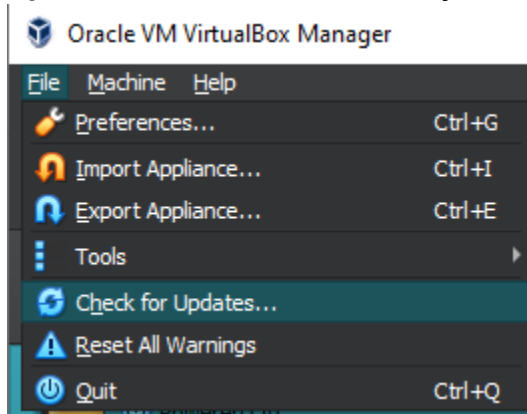
Christian Anthony C. Stewart
18103264@usc.edu.ph

FINAL SKILLS-BASED ASSESSMENT

Implementing Digital Certificate on a Website

Virtual Box Setup

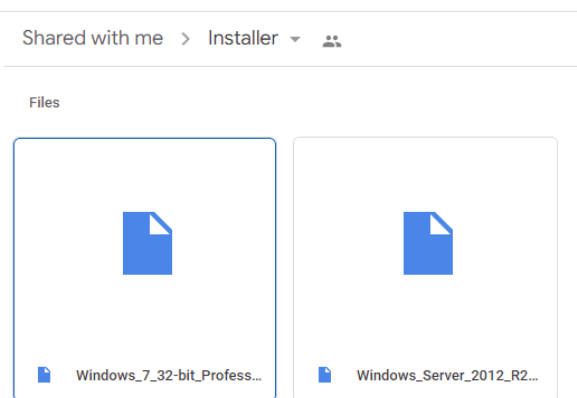
1. Update Virtual Box to avoid any version conflict



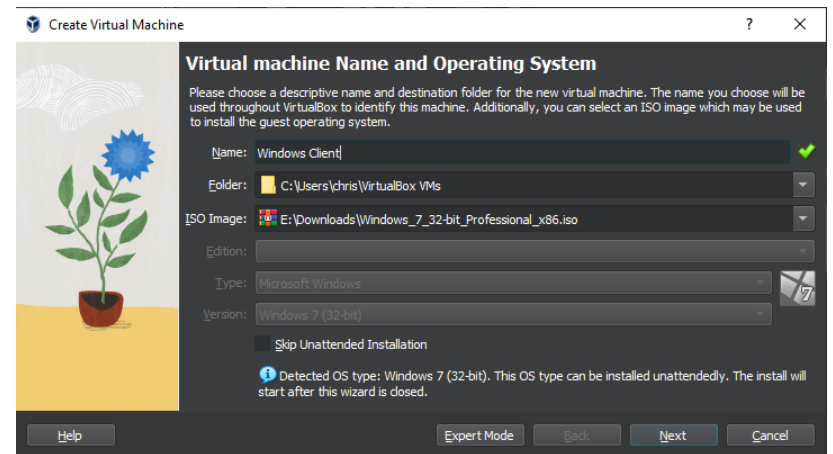
2. Make sure Virtualization is on for your Processing Platform (in my case AMD)

3. Install Windows 7 Client

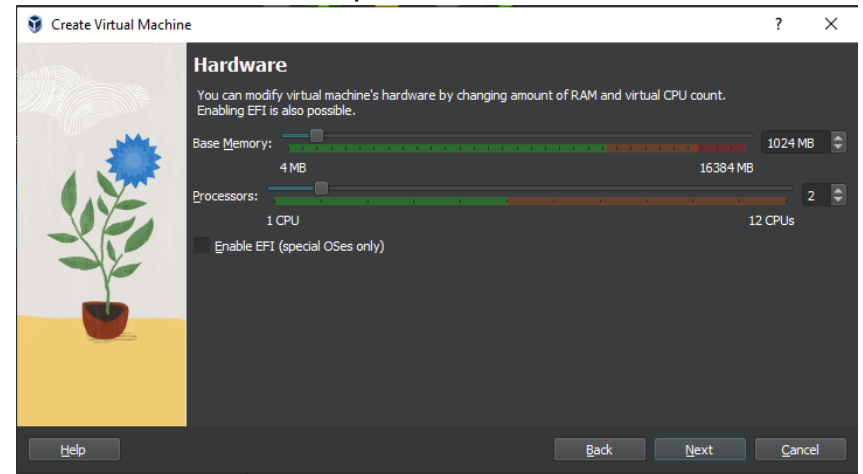
a. Download provided ISO file from Google Drive



b. Once file is downloaded onto the system, create a new virtual machine using Virtual Box – Make sure to find the ISO image and name your VM



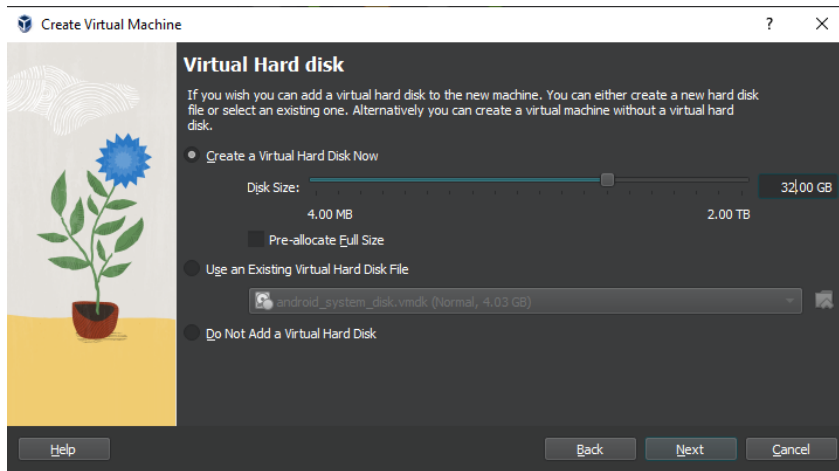
c. Personalize Hardware specifications



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d. Virtual Hard Disk



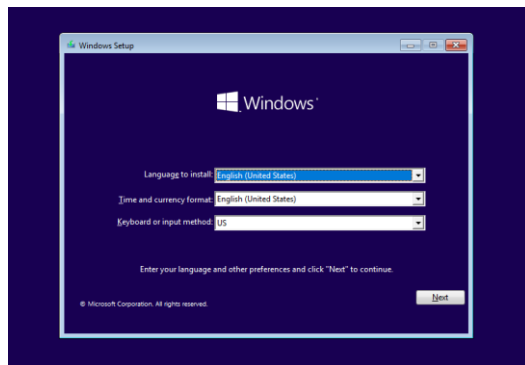
4. Make sure that you use 2 network adapters (1 as Internal Adapter and another 1 as NAT for Internet Connection)

5. Install Windows Server

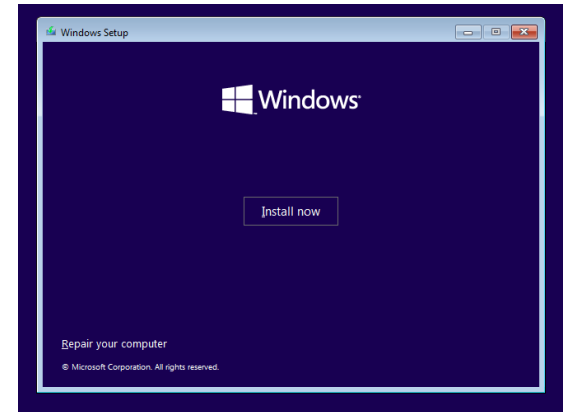
**Repeat Step 2 but use Windows Server ISO instead*

6. Setup Windows in Virtual Machine for both OS

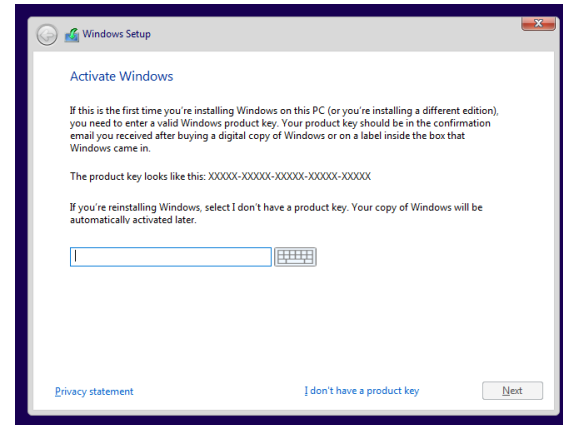
a. Select preferred language and keyboard input



b. Begin Installation



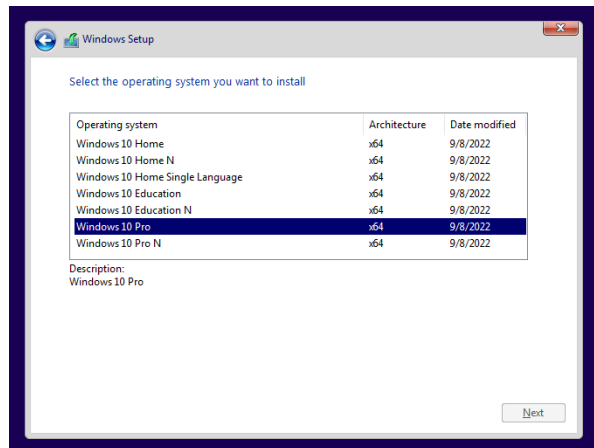
c. Enter Product Key to Activate Windows or skip this step



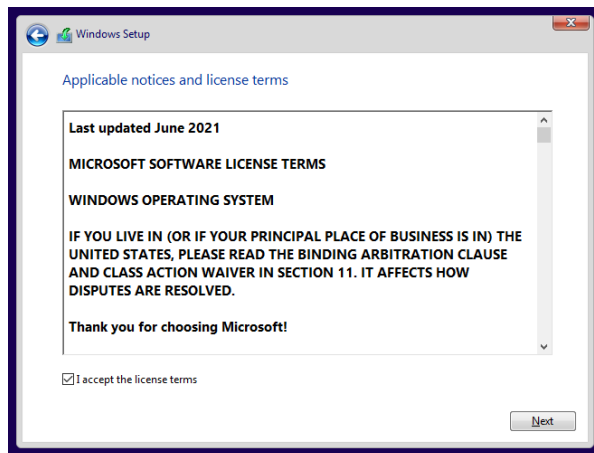
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Implementing Digital Certificate on a Website

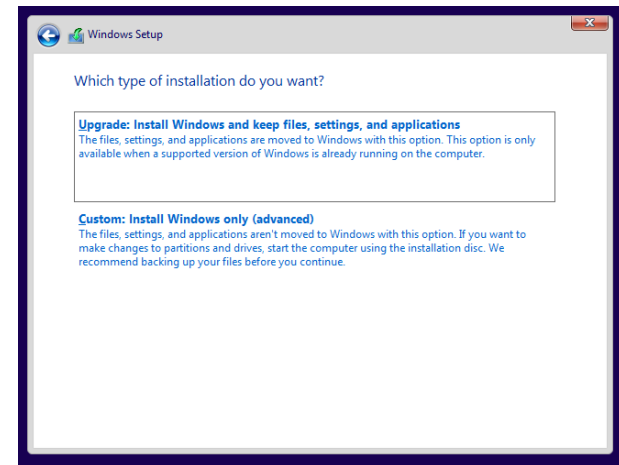
d. Select which type of Windows you want



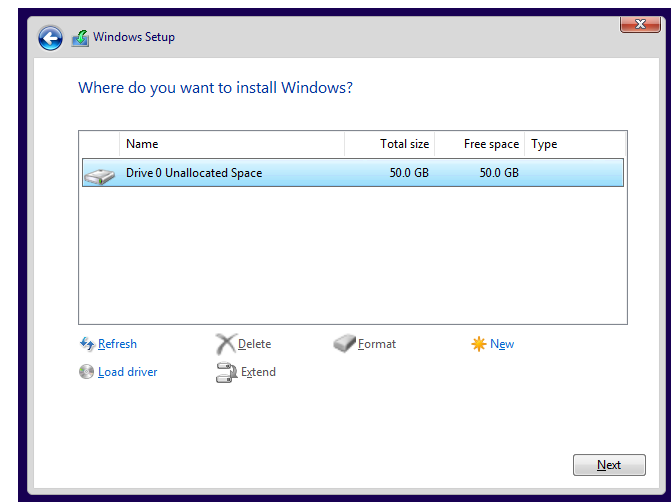
e. Accept License Terms



f. Select which type of installation you want (preferably custom)



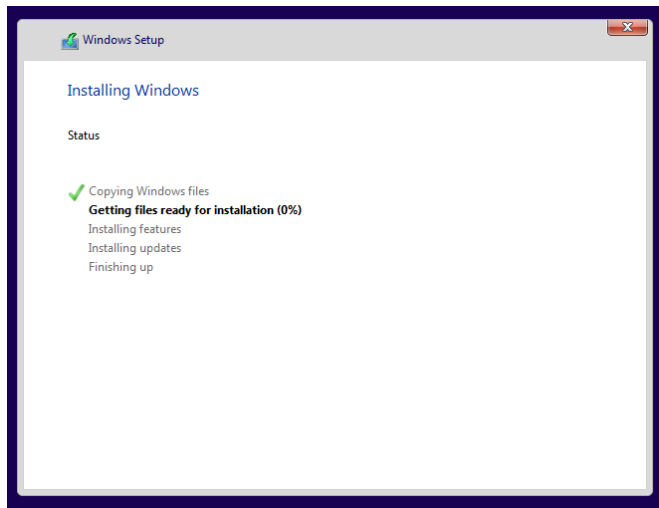
g. Select Windows Installation Location & Allocate Partition



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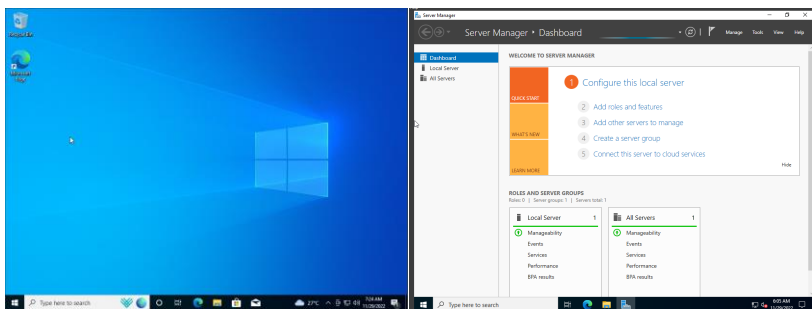
Implementing Digital Certificate on a Website

h. Installation of Windows Begins



i. Repeat for Windows Server

7. Once installation is finished, open both Windows Client and Server

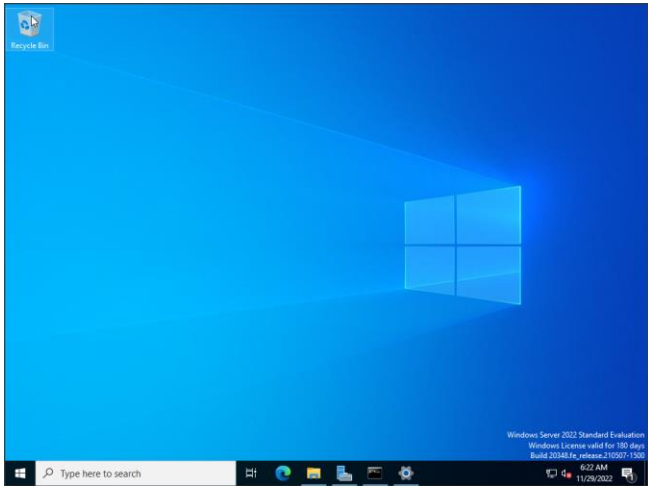


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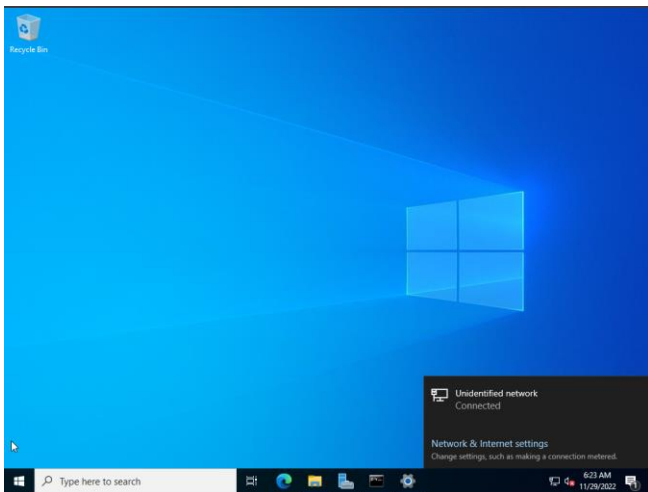
Implementing Digital Certificate on a Website

Network Connection (IPv4) Setup

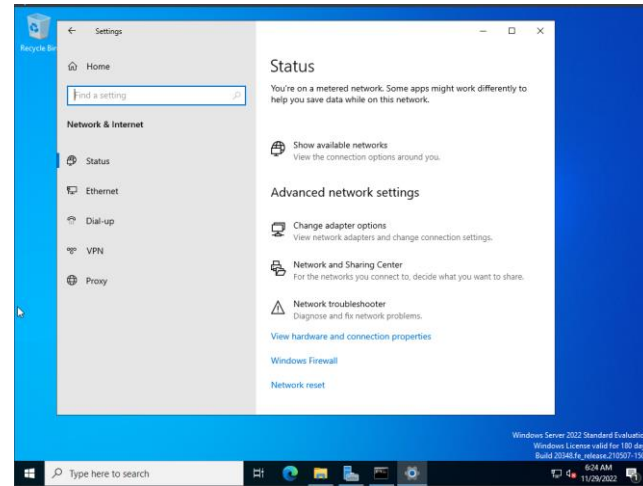
1. Open Windows Server



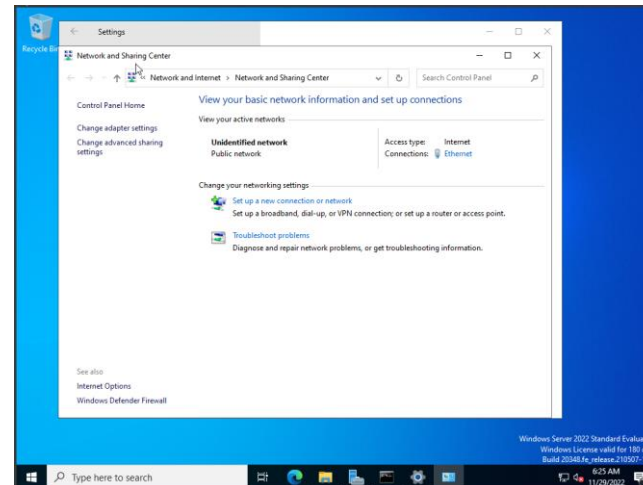
2. Access Network & Internet Settings



3. Open Network & Sharing Center



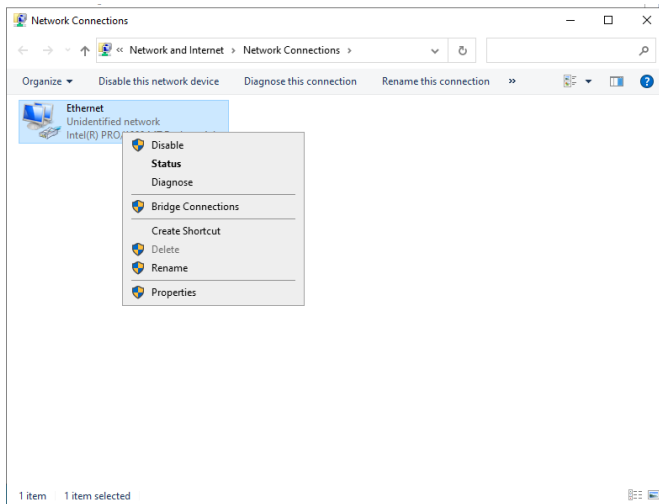
4. Click Change Adapter Settings



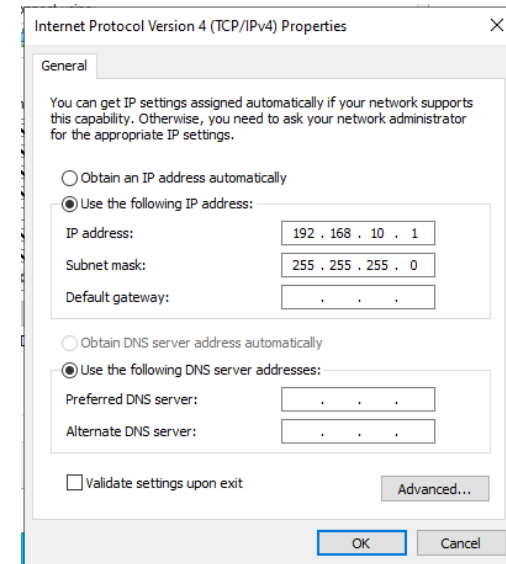
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Implementing Digital Certificate on a Website

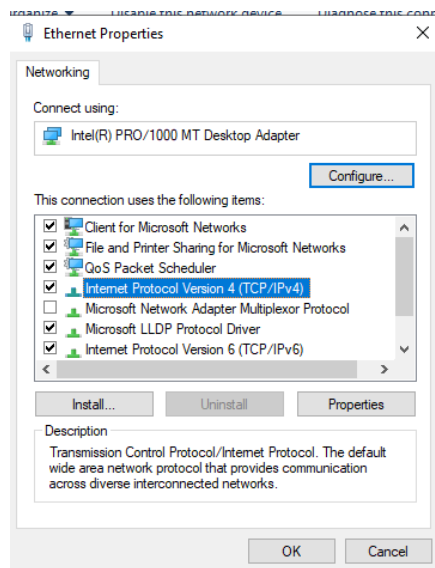
5. Right Click Ethernet and Press Properties



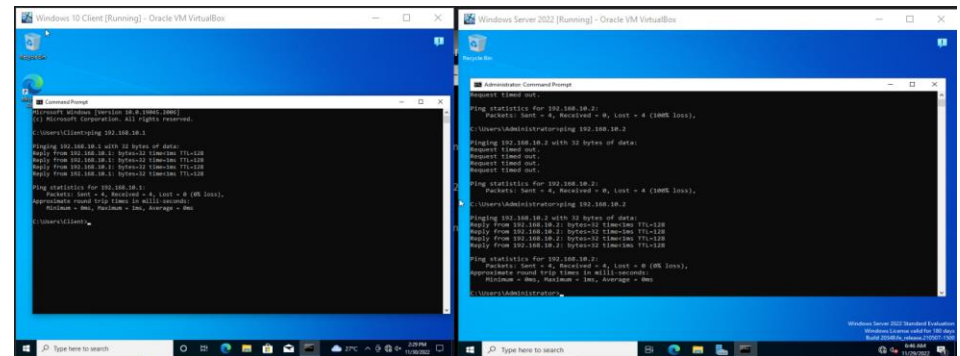
7. Set Server IP address and Subnet Mask and Click OK



6. Select Internet Protocol Version 4 and Press Properties



8. Do the same for Windows 10 Client and then check connectivity status



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Implementing Digital Certificate on a Website

Create a Website to be Hosted on the Server

1. Open an IDE of choice for website developing (personally VS Code)



2. Create your website

```
index.html > html > head > link
You, 3 days ago | 2 authors (Christian Stewart and others)
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <!--===== FAVICON =====>
  <link rel="shortcut icon" href="assets/img/favicon.png" type="image/x-ico

  <!--===== BOXICONS =====>
  <link href="https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css" rel="s

  <!--===== SWIPER CSS =====>
  <link rel="stylesheet" href="assets/css/swiper-bundle.min.css">

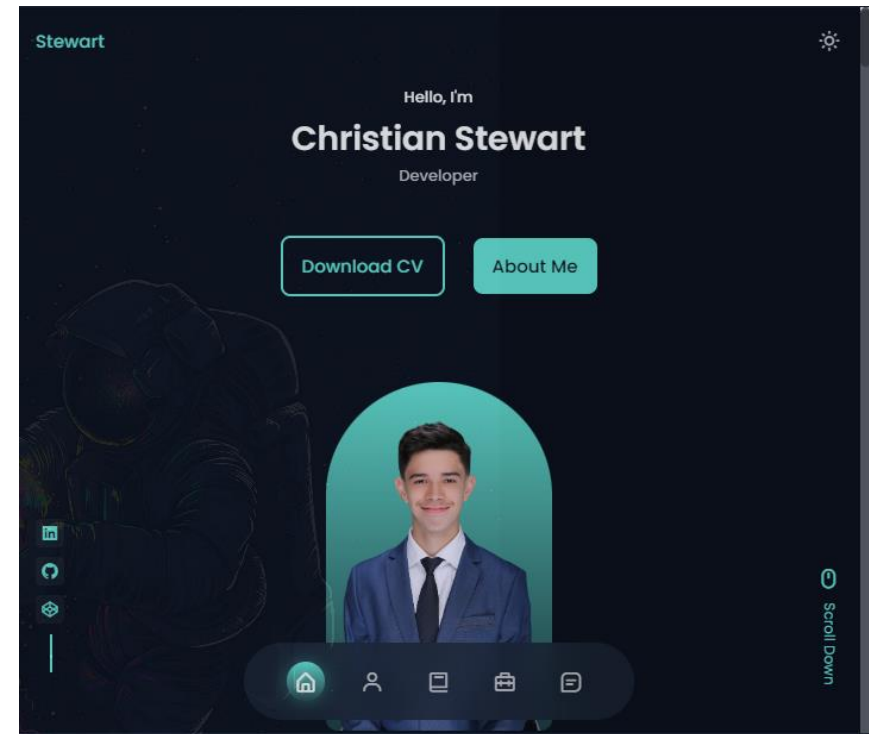
  <!--===== CSS =====>
  <link rel="stylesheet" href="assets/css/styles.css"> Christian Stewa

  <title>Stewart Portfolio</title>
</head>
<body>
  <!--===== HEADER =====>
  <header class="header" id="header">
    <nav class="nav container">
      <a href="" class="nav_logo">Stewart</a>

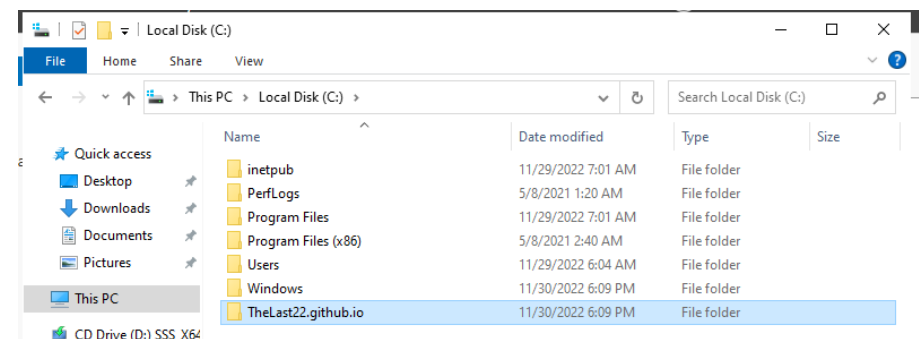
      <div class="nav__menu">...
    </div>

    <!-- Theme change button -->
    <i class='bx bx-moon change-theme' id="theme-button"></i>
  </nav>
```

3. Once finished, preview your website



4. Add website to the Windows Server Virtual Machine

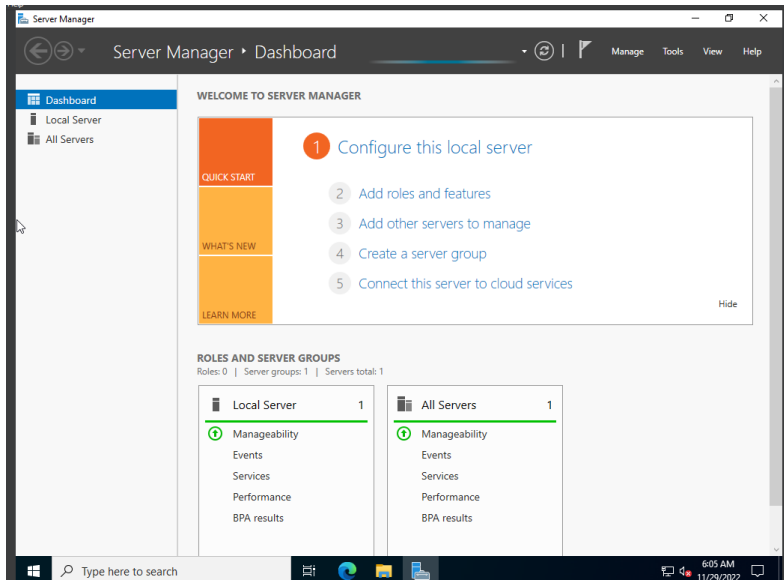


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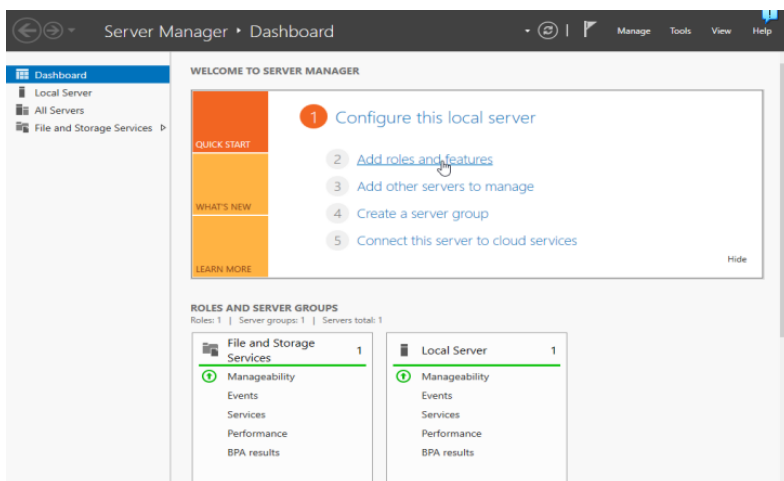
Implementing Digital Certificate on a Website

Install IIS using Server Manager

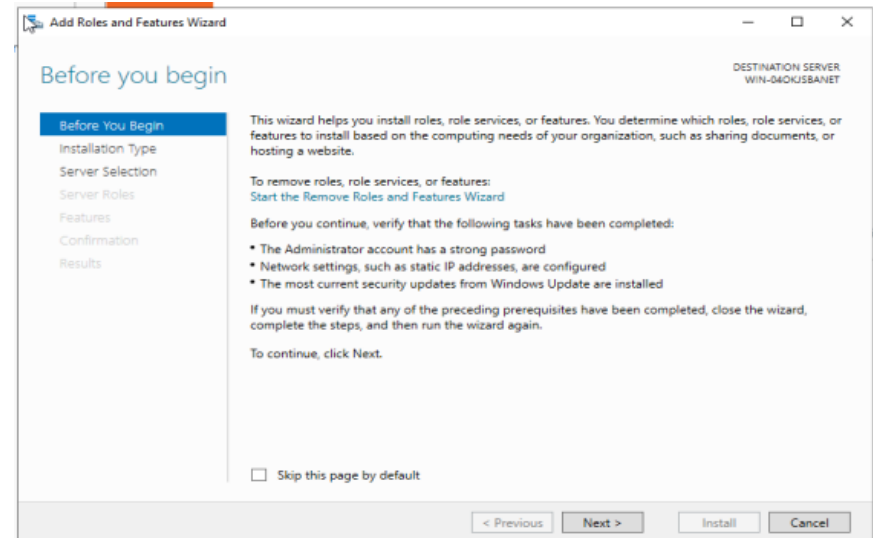
1. Open Windows Server VM and Open Server Manager



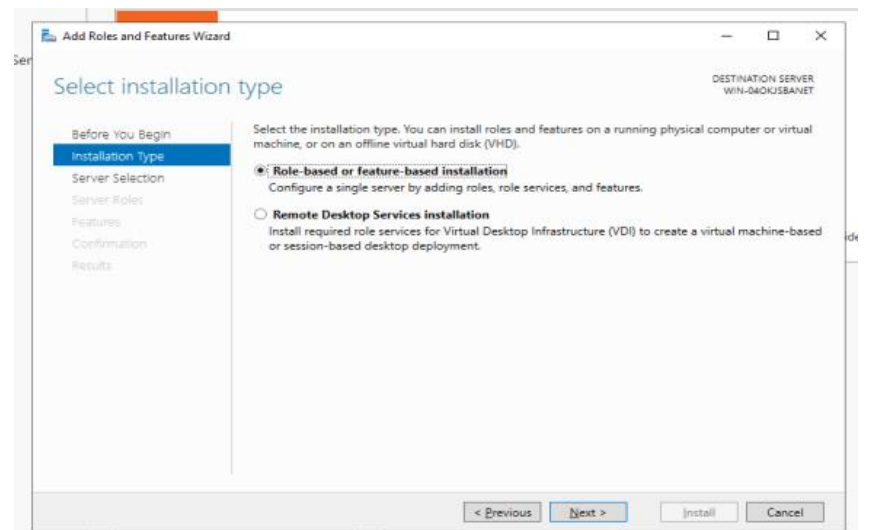
2. Click add roles and features



3. Click Next



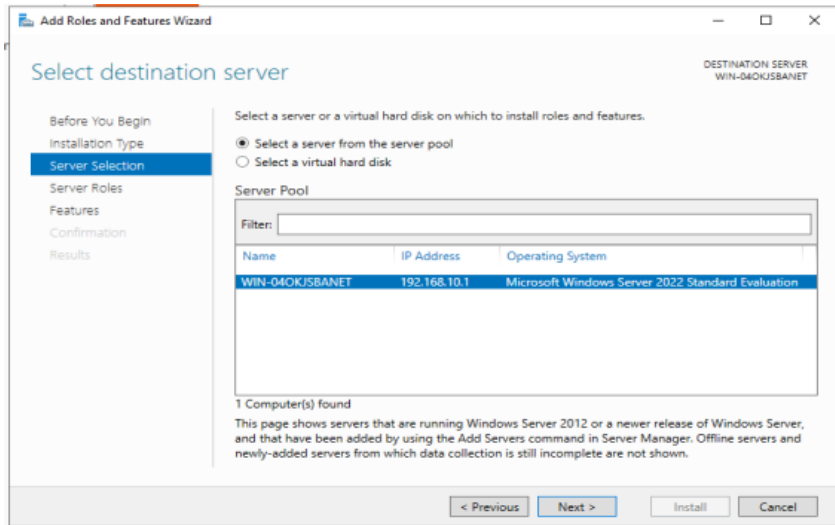
4. Select role-based/feature-based installation



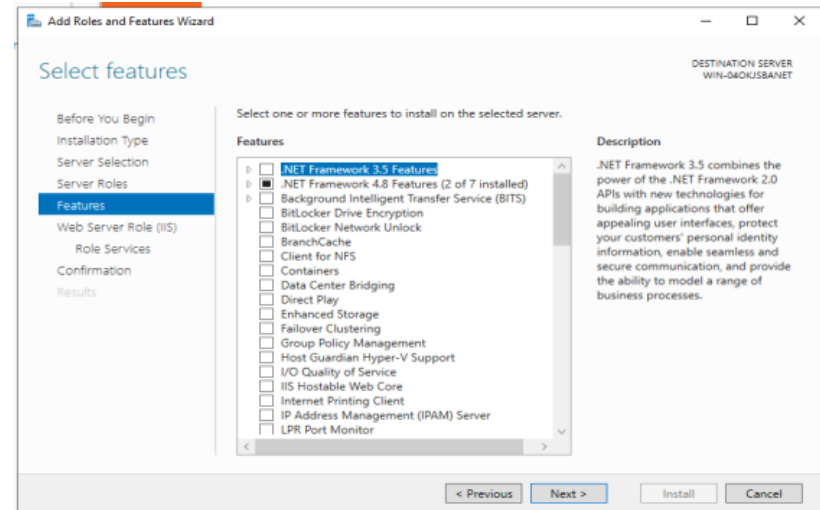
FINAL SKILLS-BASED ASSESSMENT

Implementing Digital Certificate on a Website

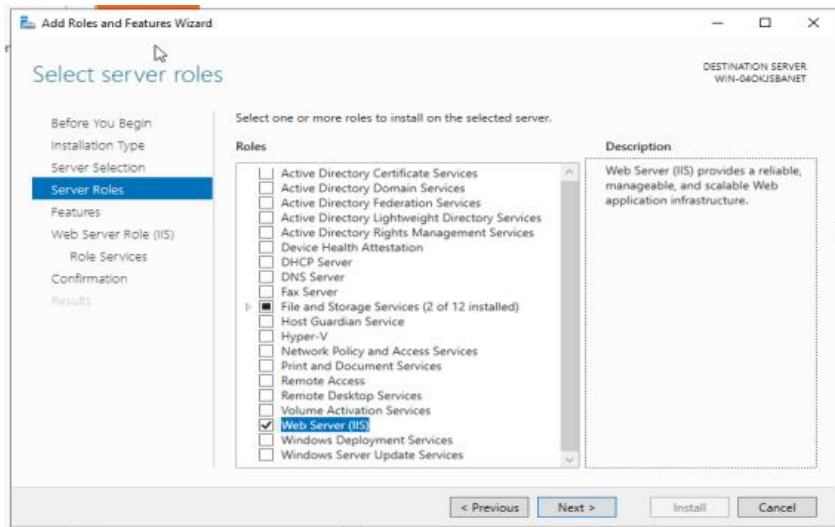
5. Select Destination Server and click next



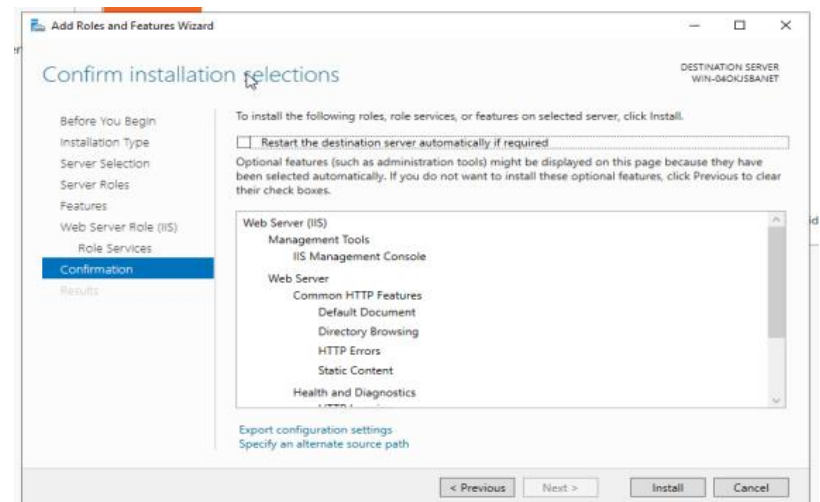
7. Click Next as we do not require extra features



6. Select Web Server (IIS) and click next



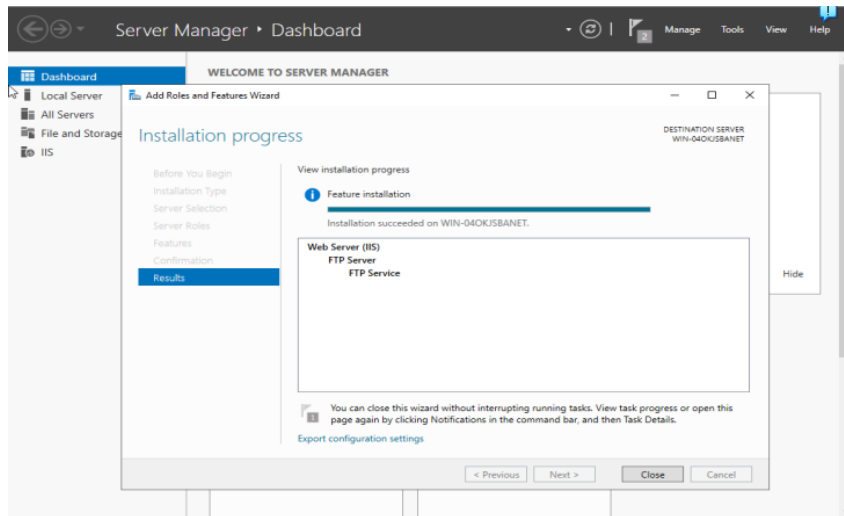
8. Click next until you confirm install selections and then press install



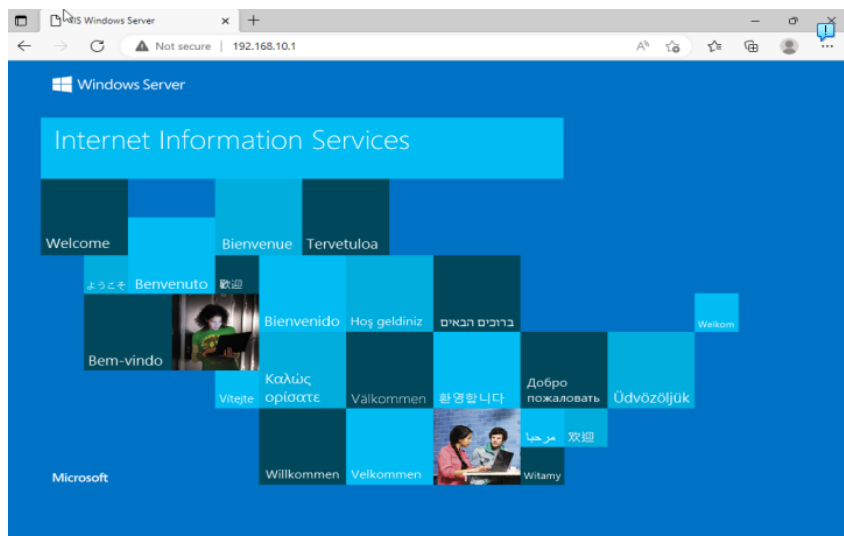
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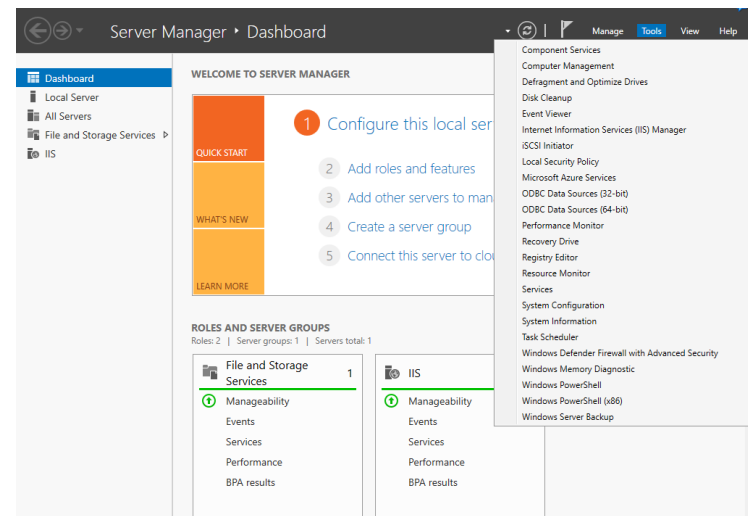
9. Wait for installation to finish and click close



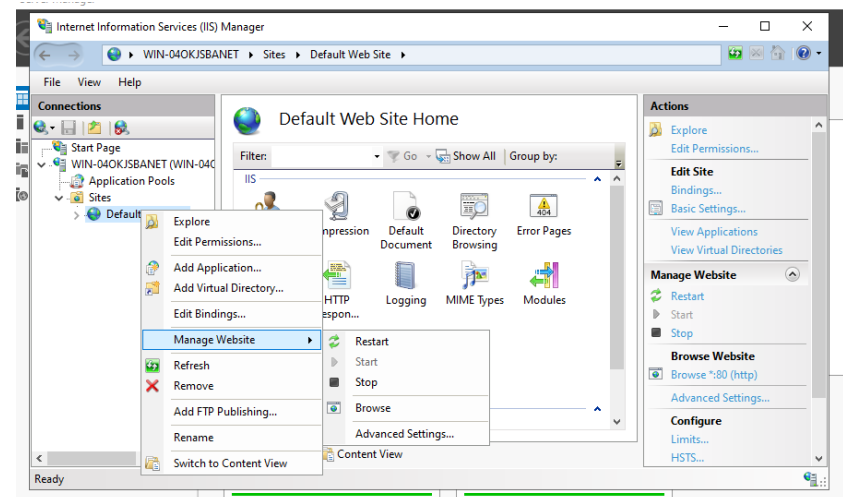
10. Run web browser to verify IIS is running normally



11. Open Server Manager, click Tools, and select Internet Information (IIS) Manager



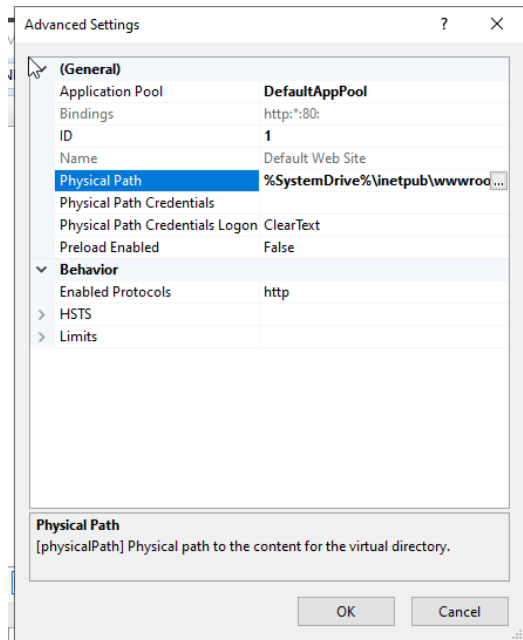
12. Right click on Default Website, click on Manage Website and then select Advanced Settings



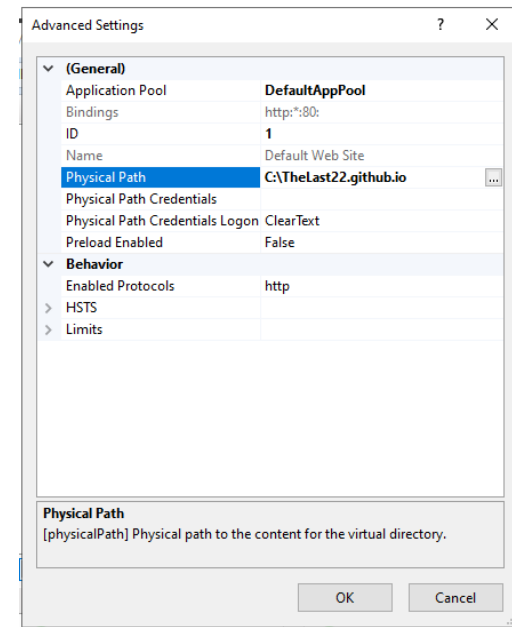
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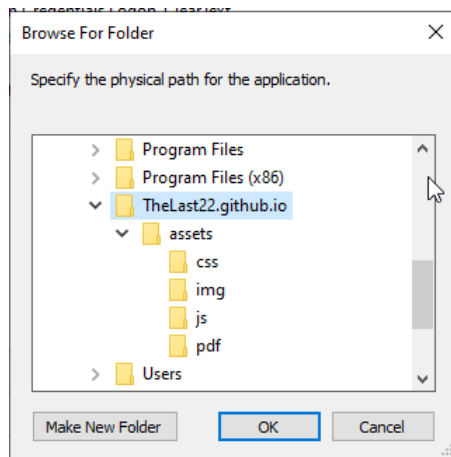
13. Click on the Settings icon of the Physical Path option



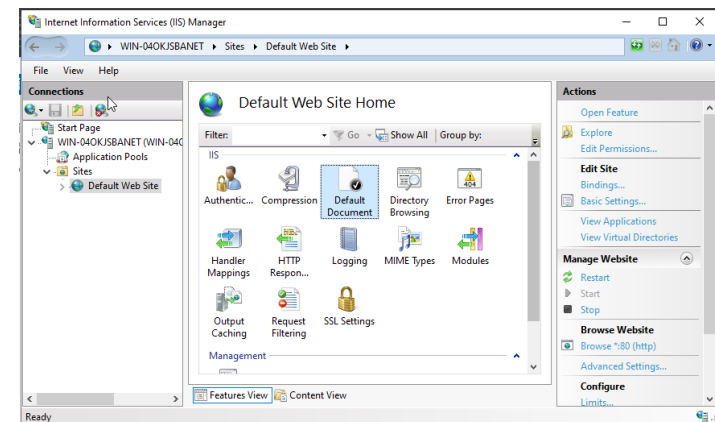
15. Click OK to continue



14. Locate and select the website root folder and click OK



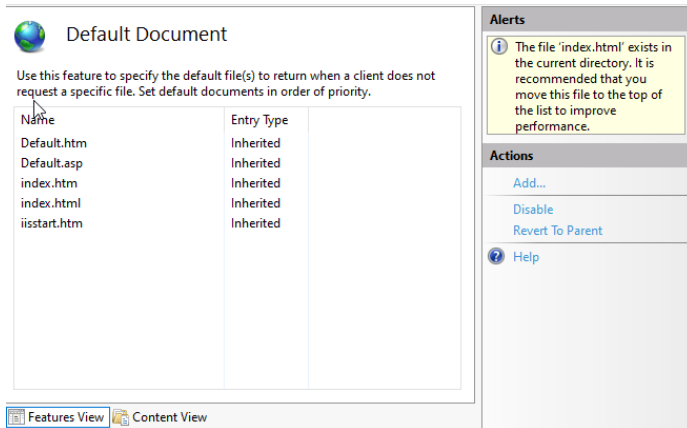
16. Select Default Document to specify the default file in the root folder you provided



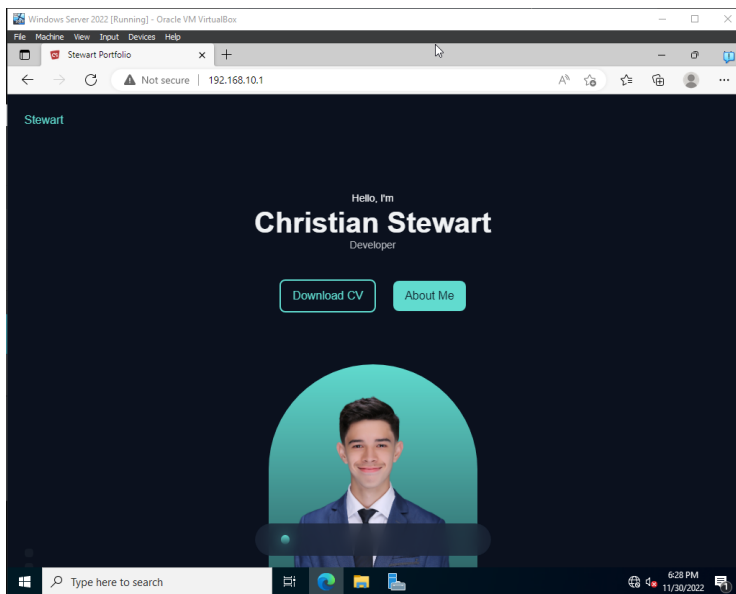
FINAL SKILLS-BASED ASSESSMENT

Implementing Digital Certificate on a Website

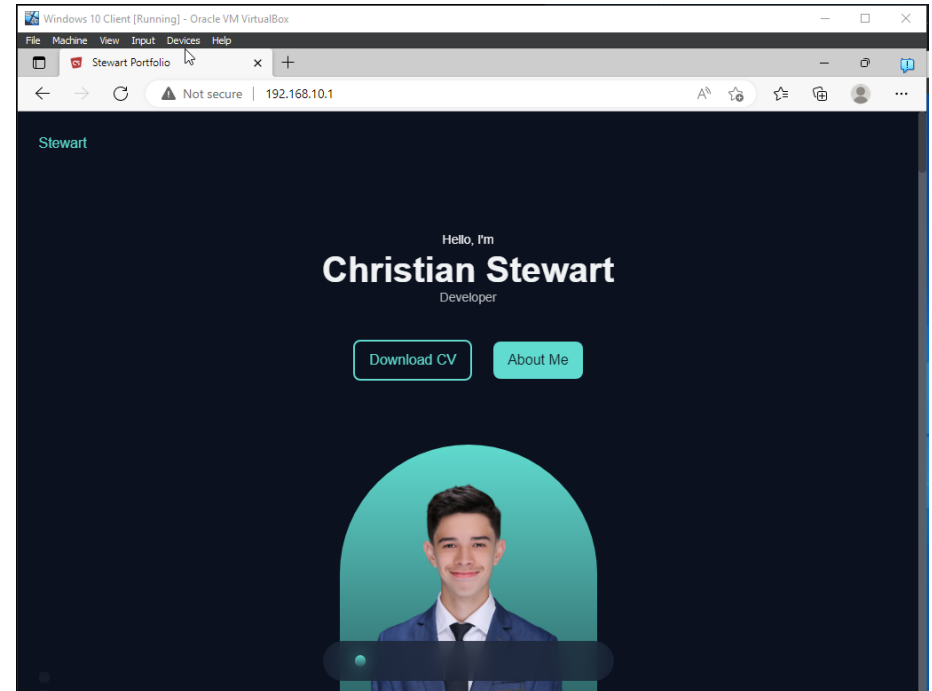
17. If your index page on the website is not named in the list, then add it – otherwise continue to next step.



18. Test it out in the browser using the server's IP address using the Windows Server OS



19. Access the website using the Windows Client OS in the browser

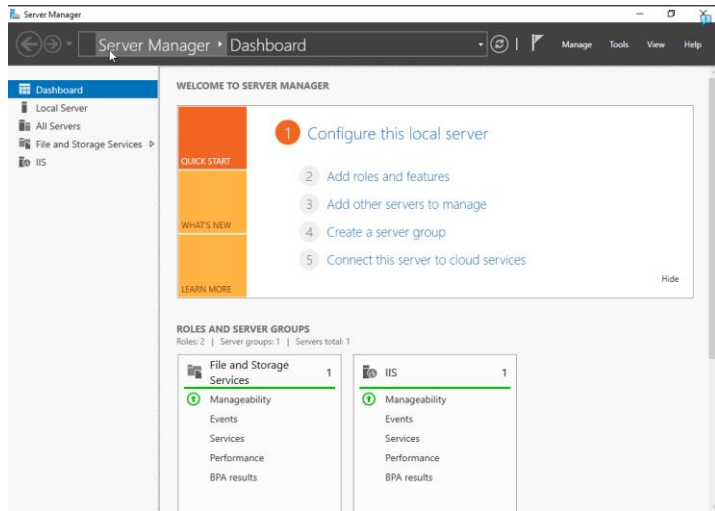


FINAL SKILLS-BASED ASSESSMENT

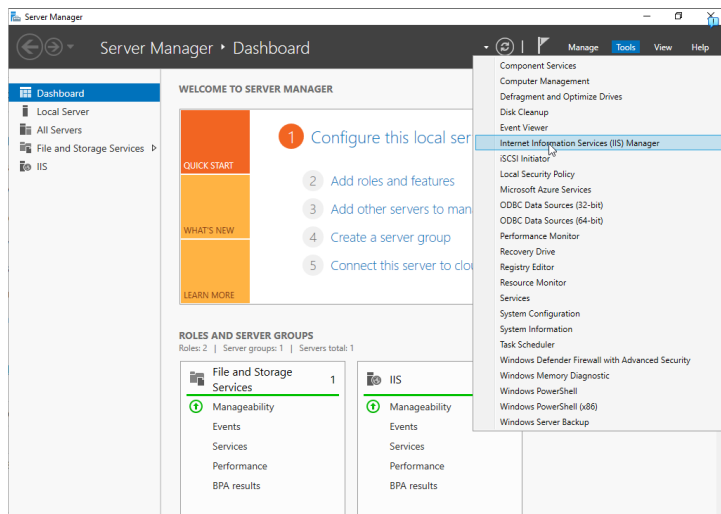
Implementing Digital Certificate on a Website

Apply Digital Certificate on the Website

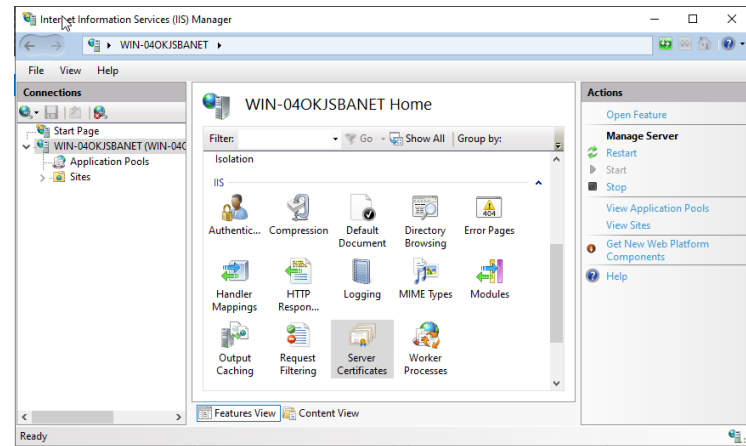
1. Open Windows Server VM and Open Server Manager



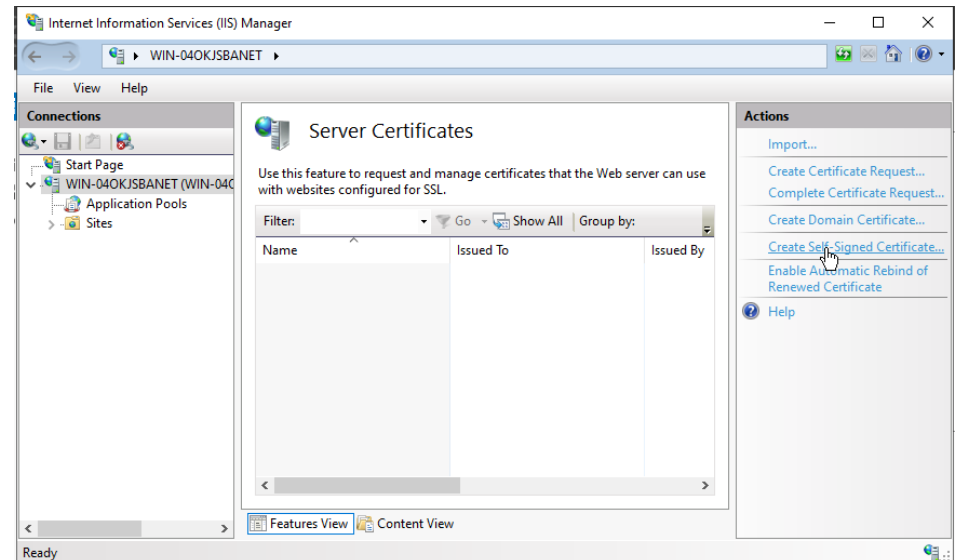
2. Click Tools and Select Internet Information Services (IIS) Manager



3. Select your Localhost on the connections panel and then click Server Certificates



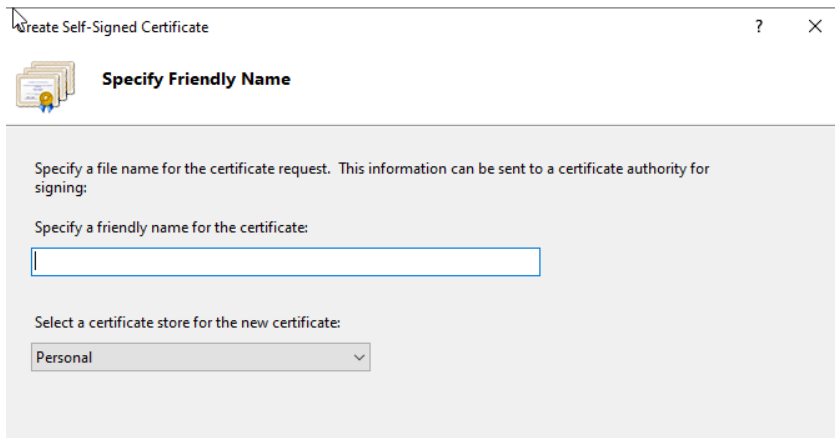
4. Click on Create Self-Signed Certificate



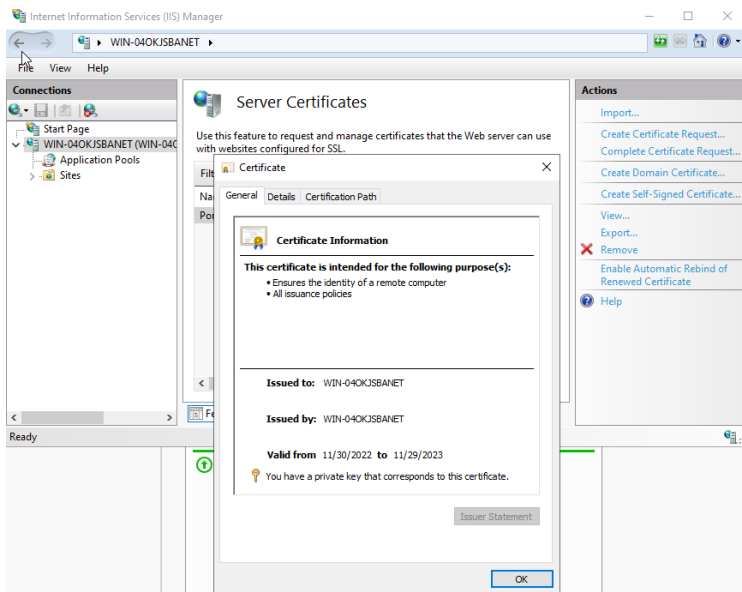
FINAL SKILLS-BASED ASSESSMENT

Implementing Digital Certificate on a Website

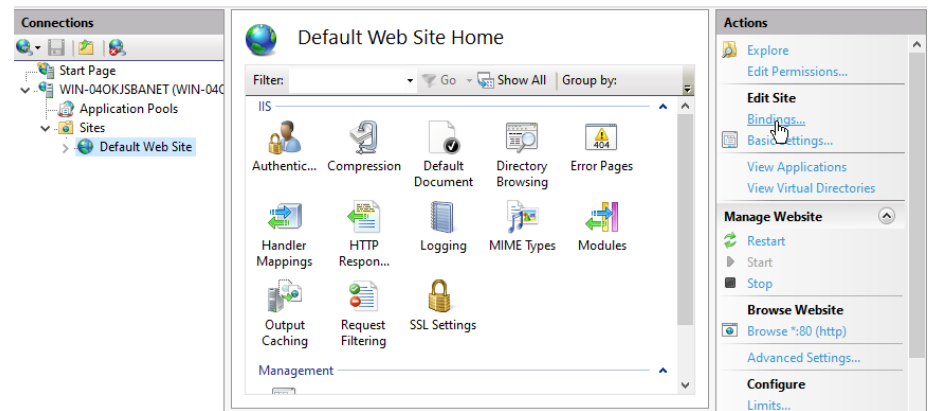
5. Enter a name for the Certificate and Select Certificate Type and press OK (Personal type for mine)



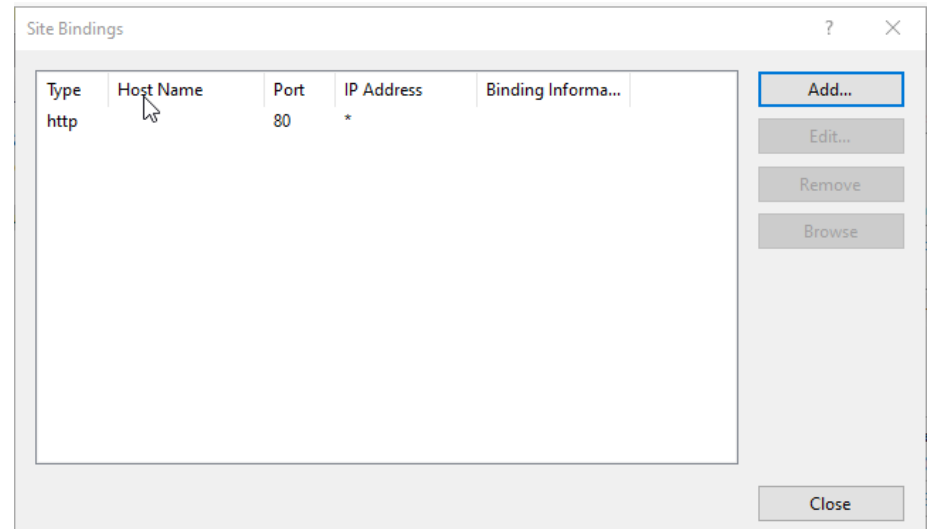
6. Once created, Double-click the certificate to check its contents, then click OK



7. Go to Default Web Site in Connections Panel, and select Bindings from the Actions Panel on the right



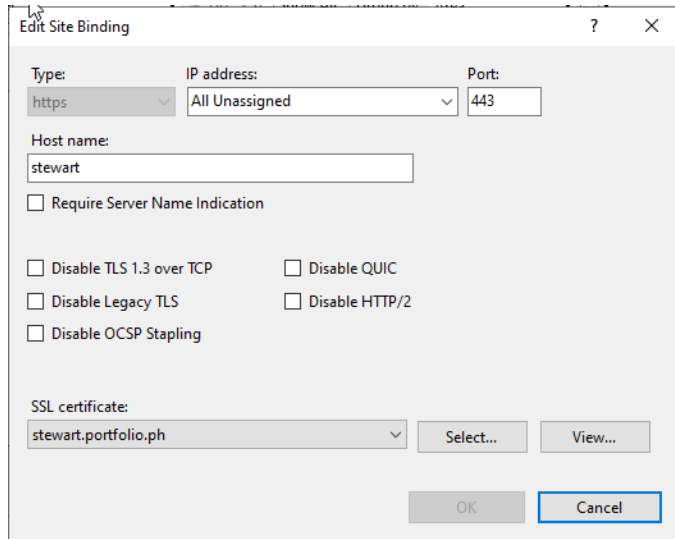
8. Add a HTTPS Binding by clicking the Add button



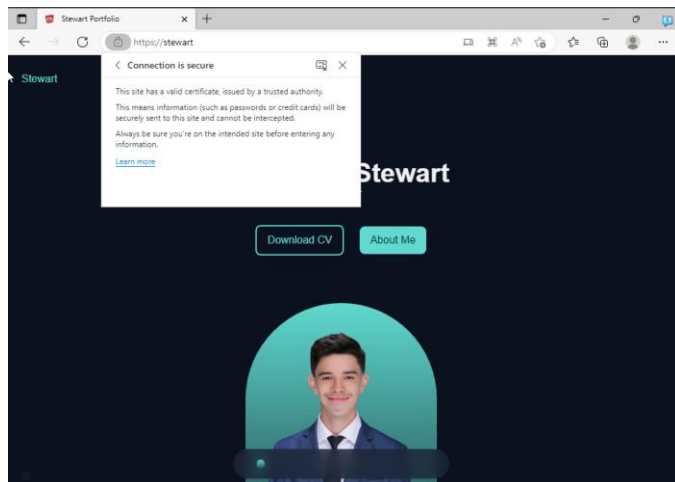
FINAL SKILLS-BASED ASSESSMENT

Implementing Digital Certificate on a Website

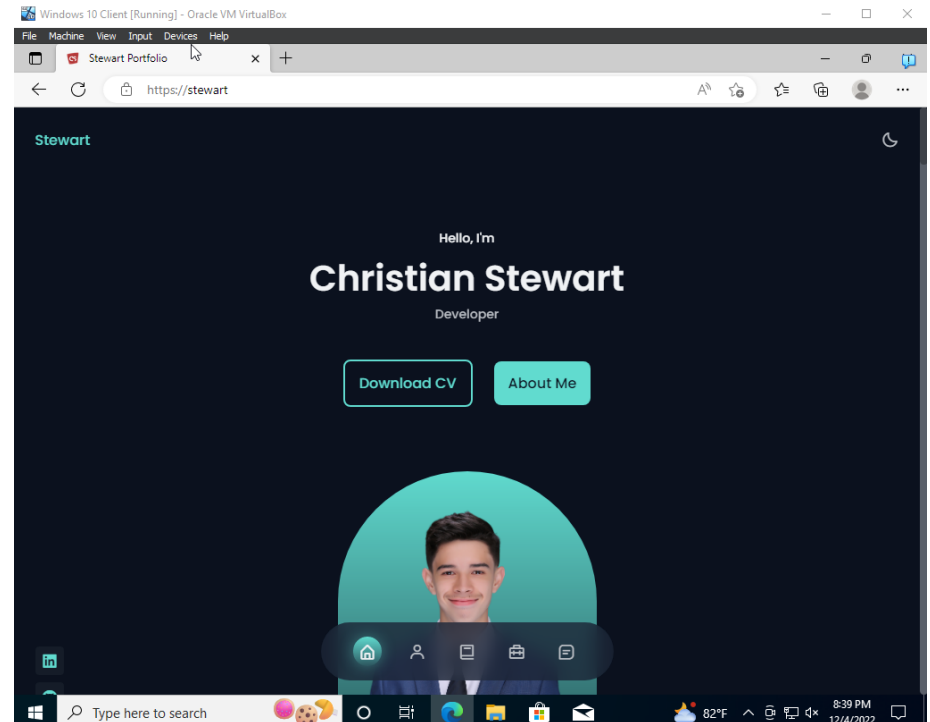
9. Select HTTPS as Type, enter a host name and choose the SSL Certificate you created beforehand. Click OK after everything is done



10. Test it on Browser in Windows Server OS



11. Test it on Windows Client browser using the host name



FINAL SKILLS-BASED ASSESSMENT

Implementing Digital Certificate on a Website

12. Check the Certificate Details

Certificate Viewer: Stewart ✕

General Details

Issued To

| | |
|--------------------------|---------------------------|
| Common Name (CN) | Stewart |
| Organization (O) | <Not Part Of Certificate> |
| Organizational Unit (OU) | <Not Part Of Certificate> |

Issued By

| | |
|--------------------------|---------------------------|
| Common Name (CN) | Stewart |
| Organization (O) | <Not Part Of Certificate> |
| Organizational Unit (OU) | <Not Part Of Certificate> |

Validity Period

| | |
|------------|--|
| Issued On | Wednesday, November 30, 2022 at 7:55:27 PM |
| Expires On | Wednesday, November 29, 2023 at 4:00:00 PM |

Fingerprints

| | |
|---------------------|--|
| SHA-256 Fingerprint | C4 D6 BA 4E 22 03 77 D8 86 3A EA 7A 24 28 38 77 66 59 52 9A BD A6 9A F6 AA 12 DE 01 97 C3 5C 82 |
| SHA-1 Fingerprint | 0D 61 13 9C 86 89 52 5C 28 17 81 6B 5A B9 11 19 F9 5C 80 20 |