



**Module Code & Module Title**

**Level 5 – CT5052NP Network Operating System**

**Assessment Type**

**Logbook Report-4**

**Semester**

**2023/24 Spring/Autumn**

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**Assignment Due Date:** 2024/11/30

**Assignment Submission Date:** 2024/11/26

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*I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

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# 1.Introduction

This project is designed to demonstrate how to configure a windows server 2022 to host a static website. This workshop project goes through installing necessary roles and feature of server , configuring the server and hosting a static website .

## 2.Objective

The main objectives of this workshop are :

- Give us hand-on guide for web hosting in windows server 2022.
- To guide us to install roles and features in windows server which can be helpful for web hosting process.

## 3.Required tools and software

### 3.1 Free-CSS website

Free-CSS is a website where you can submit your website template or can found many types of website templates for free or in premium .

Free CSS has 3552 free website templates coded using HTML & CSS in its gallery. The HTML website templates that are showcased on Free CSS.com are the best that can be found in and around the net. (contact us, n.d.)

### 3.2 windows server 2022

Windows Server is a line of Microsoft operating systems (OSes) comprised of extremely powerful machines. Windows Server was first launched in April 2003. It's typically installed on heavy-use servers serving as a backbone for most IT companies, applications, and services. The server handles the administrative group-related activities on a network. It organizes, stores, sends, and receives files from devices connected to a network (windows-server 2022, n.d.)

### 3.3 Virtual Box

Oracle VirtualBox, the world's most popular open source, cross-platform, virtualization software, enables developers to deliver code faster by running multiple operating systems on a single device. IT teams and solution providers use VirtualBox to reduce operational costs and shorten the time needed to securely deploy applications on-premises and to the cloud. (virtualbox, n.d.)

## 4.Steps to replicate

### 4.1 Adding roles and feature

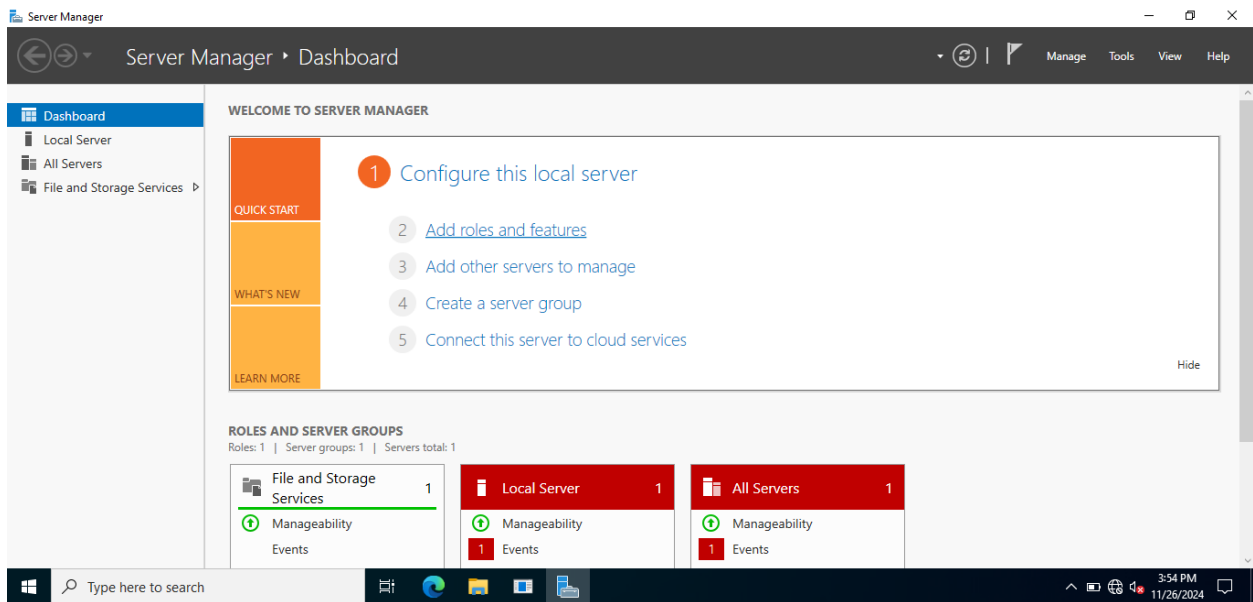


Figure 1 Clicking on add roles and features

After clicking on it , you've to click next button for the first page

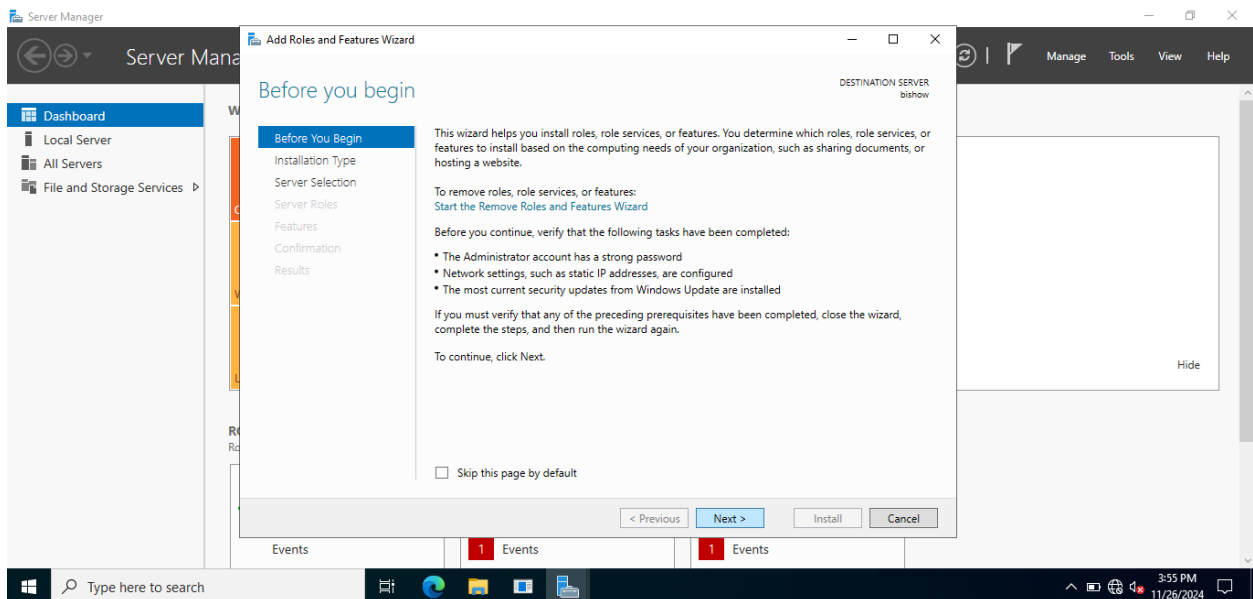


Figure 2 Clicking next button

After clicking on next button , another page will open where you've to choose role based or feature based installation ,

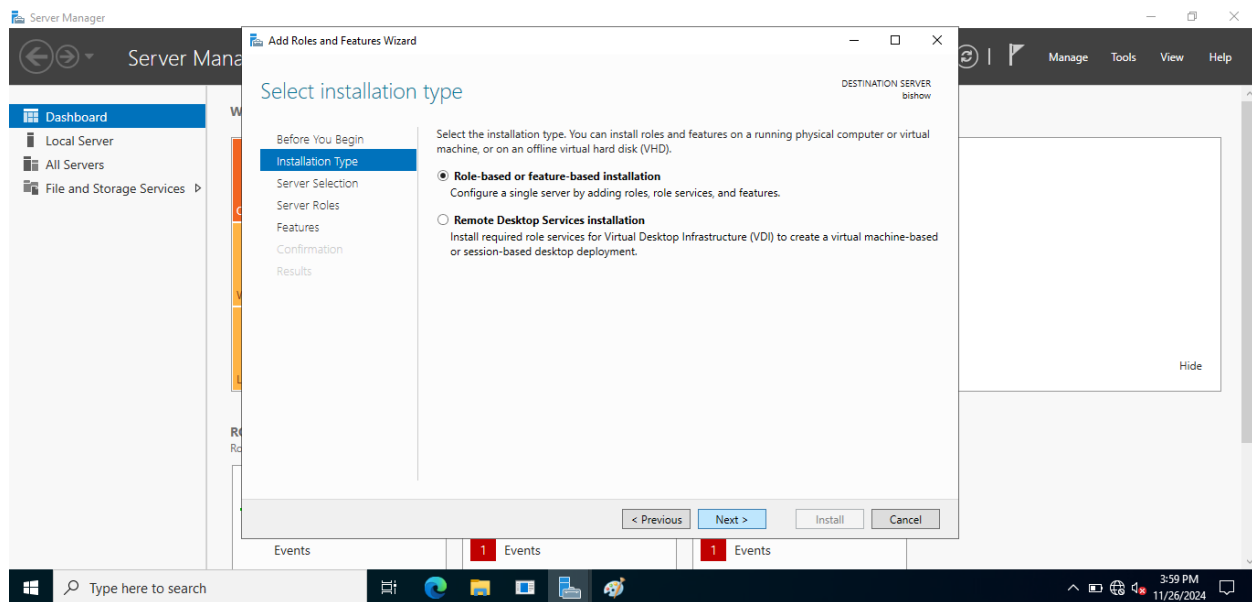


Figure 3 Selecting installation type

Clicking on next button

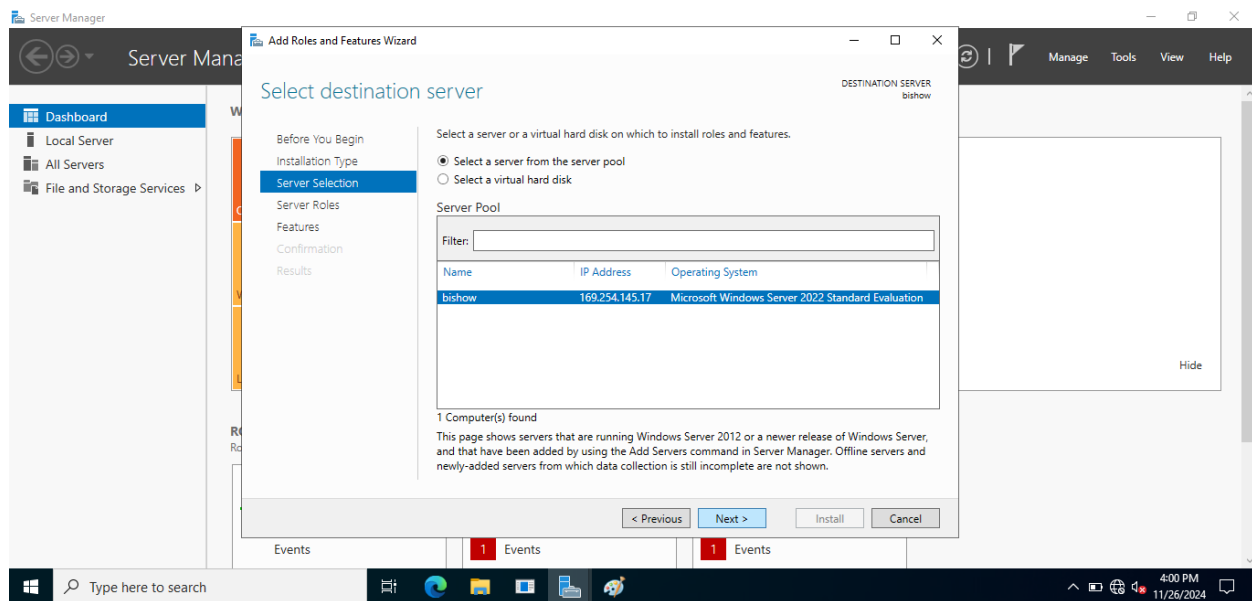


Figure 4 Server selection page

Clicking on next button without any changes on this page,

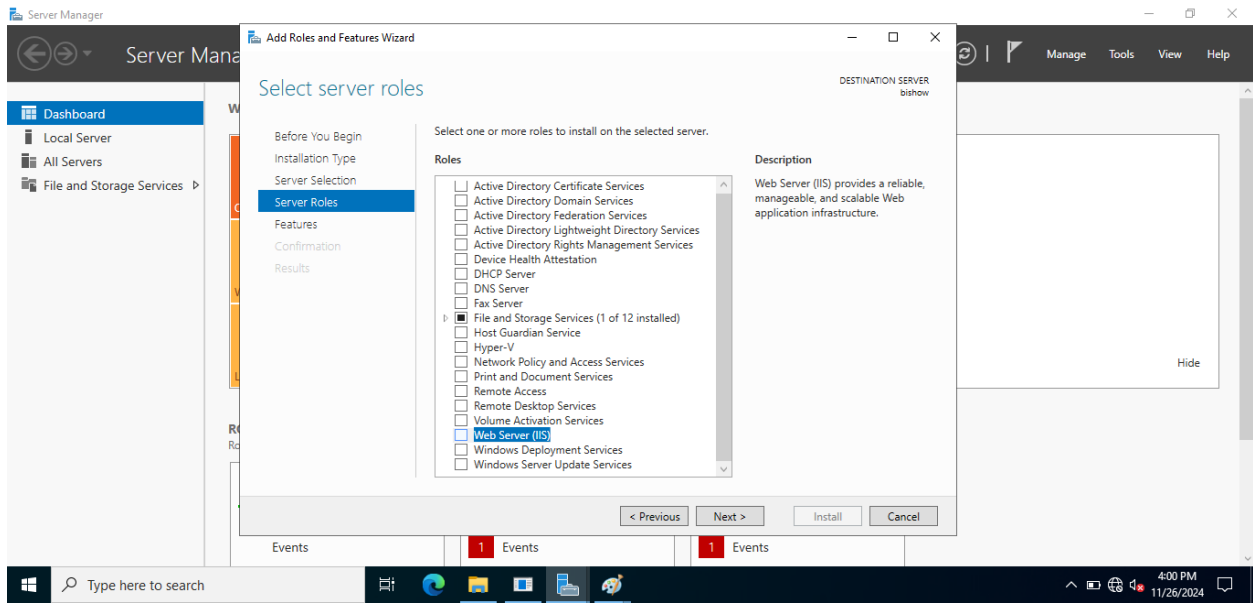


Figure 5 Adding web server(IIS) role

In this page above ,You've to scroll down a bit and double click on Web Server (IIS).

After clicking on it , One pop-up came and I clicked on Add features.

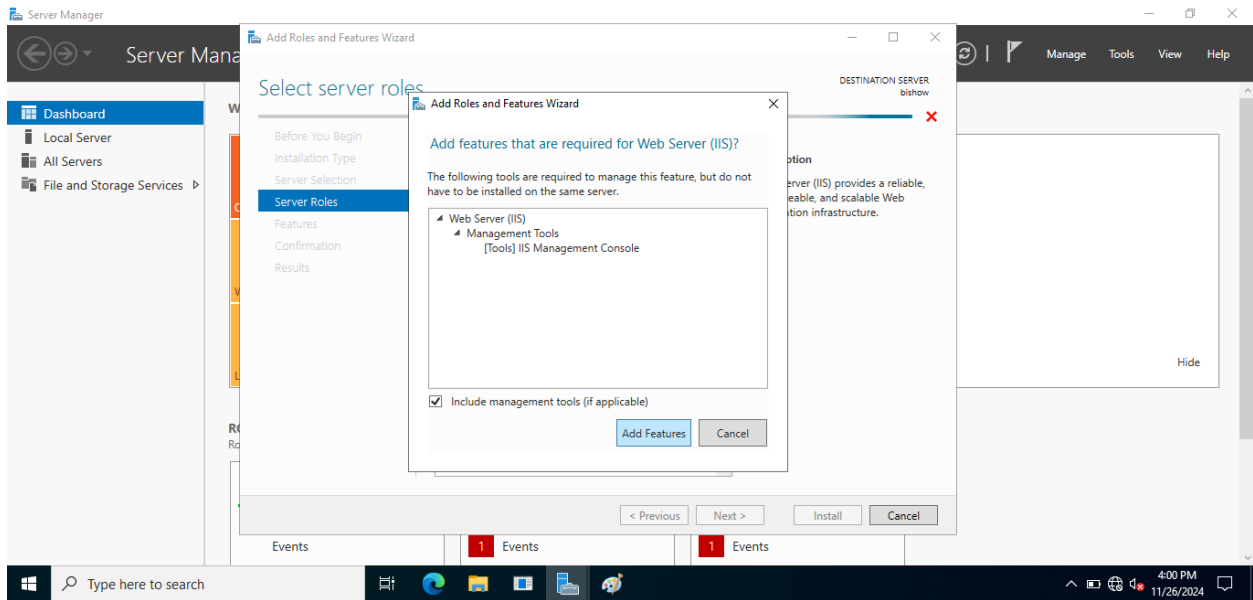


Figure 6 Clicking on add features in IIS role

Now look,

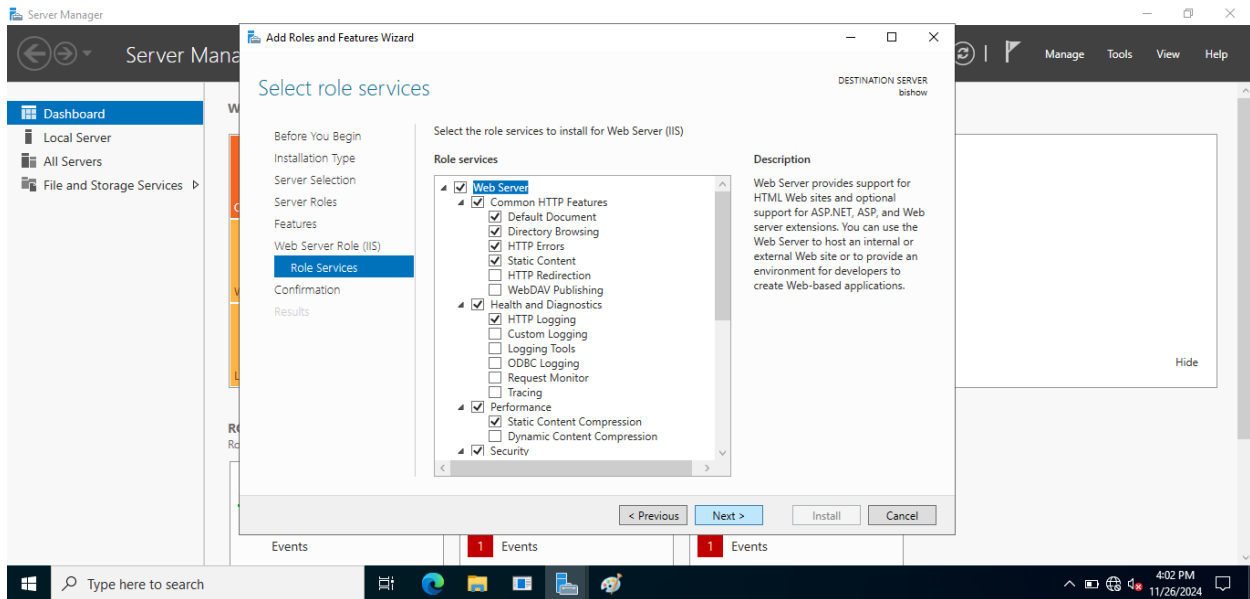


Figure 7 IIS role added

Web Server (IIS) role is added successfully to the server

Then, clicking on next button,

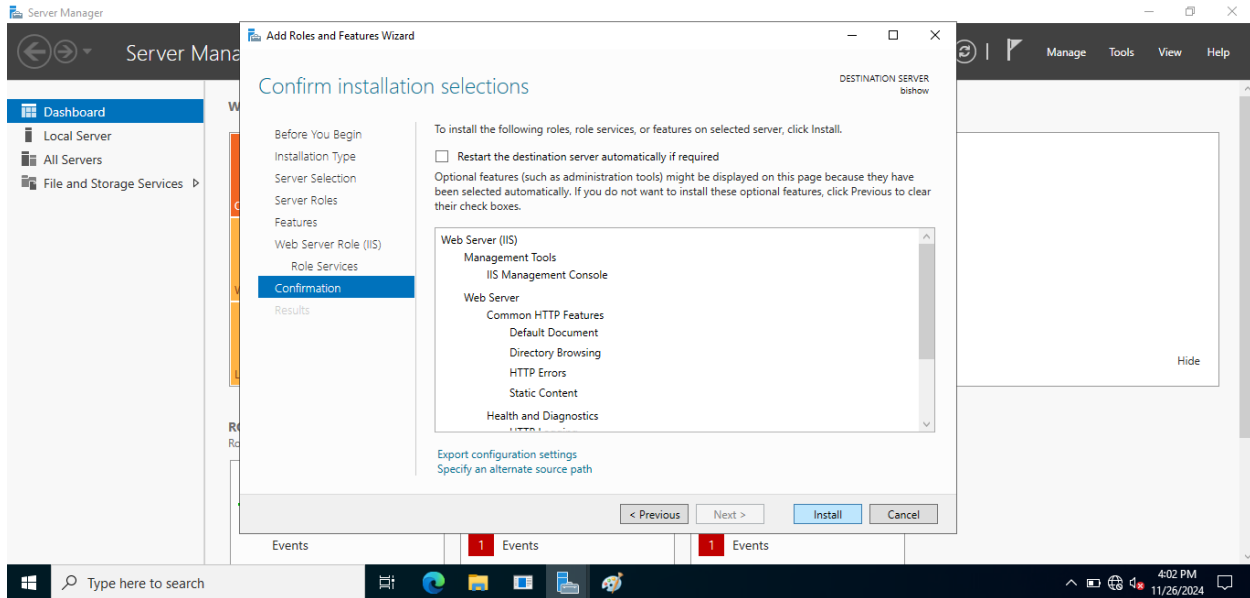


Figure 8 Role and Feature Install Confirmation page

Clicking install button for role and features installation in server.

## 4.2 Hosting Static Website

After the installation is complete , Now the work is to host the static website.

Going back to server manager dashboard and clicking on tools and clicking on IIS Manager

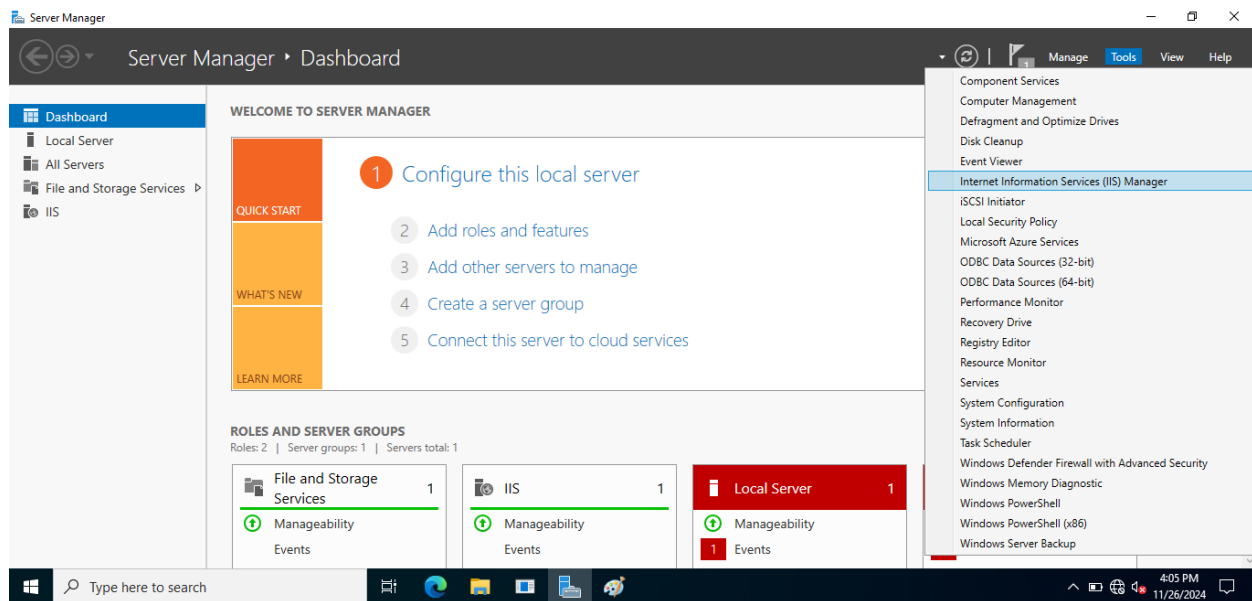


Figure 9 Clicking on IIS manager

And you'll see the start page of IIS manager.

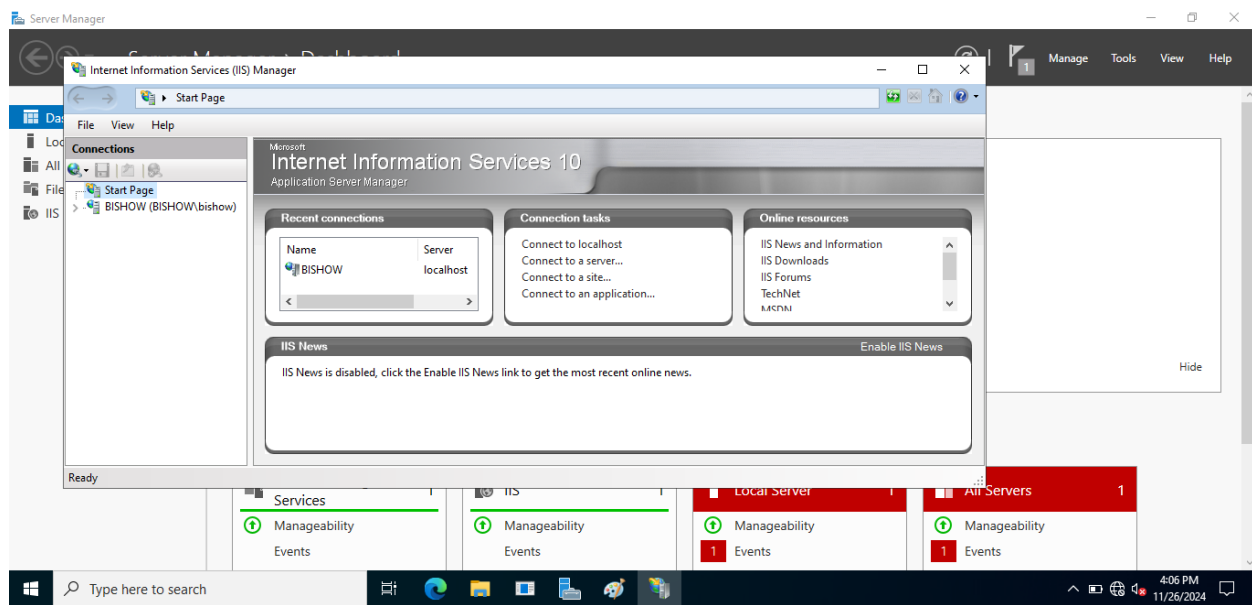


Figure 10 IIS Manager Start page



Now, clicking the dropdown button on my server name (BISHOW ) and again clicking on the dropdown button of sites .

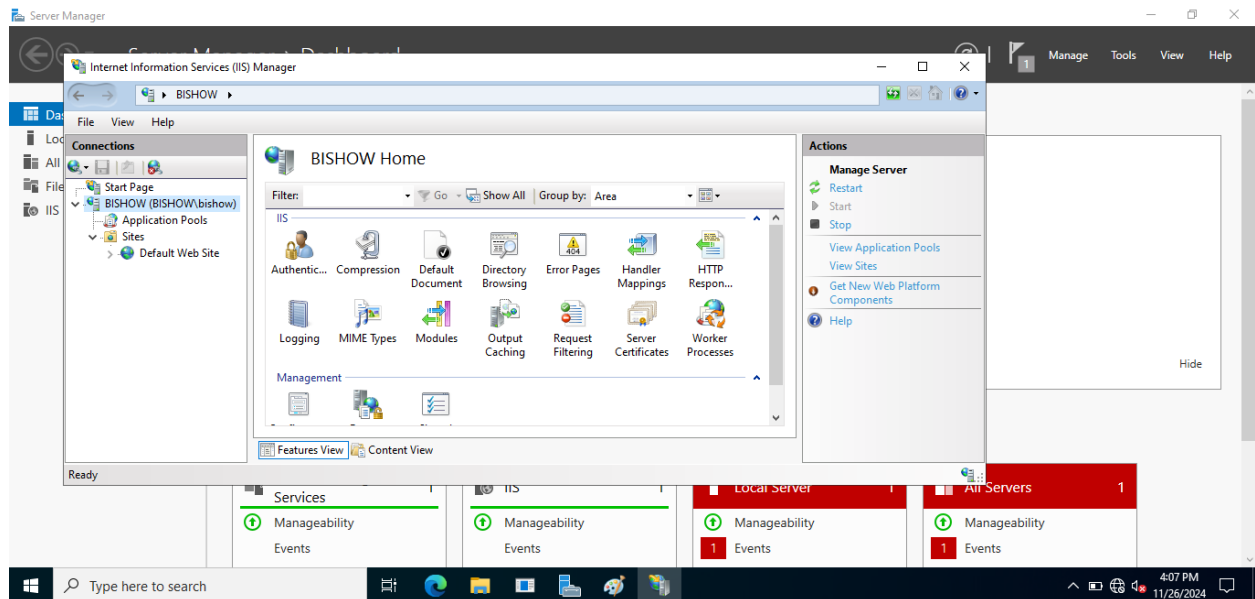


Figure 11 Server default sites

Right clicking on sites will give you a option to add a new website .

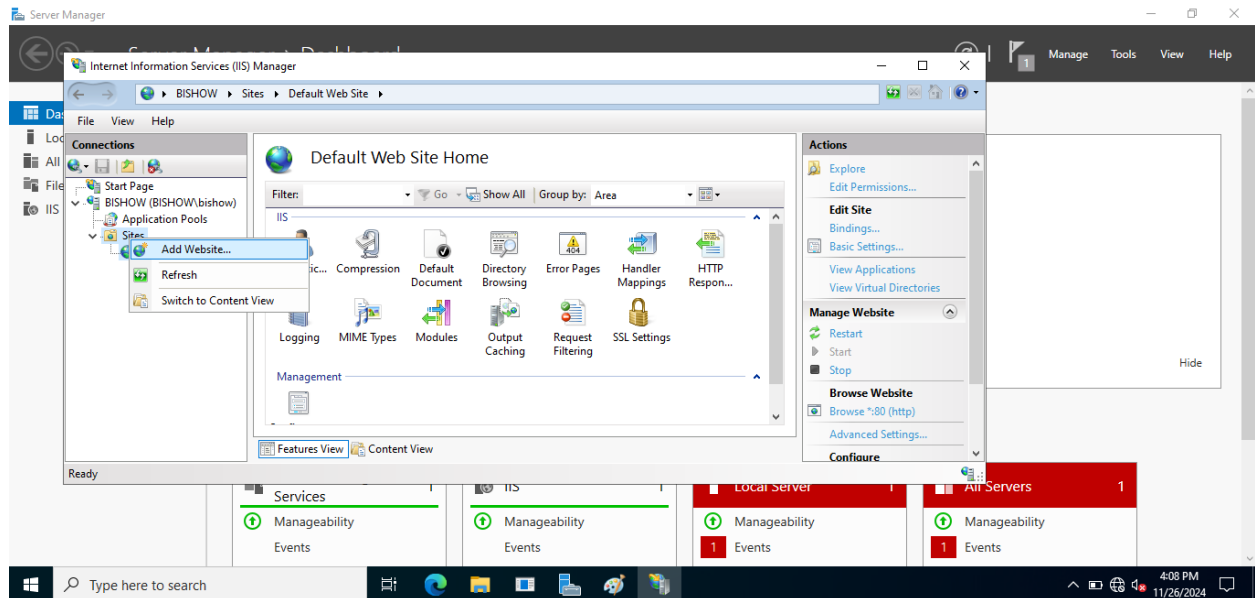


Figure 12 Clicking Add website

Clicking on add website

After clicking on Add website you'll have a page to fill the details of the website.

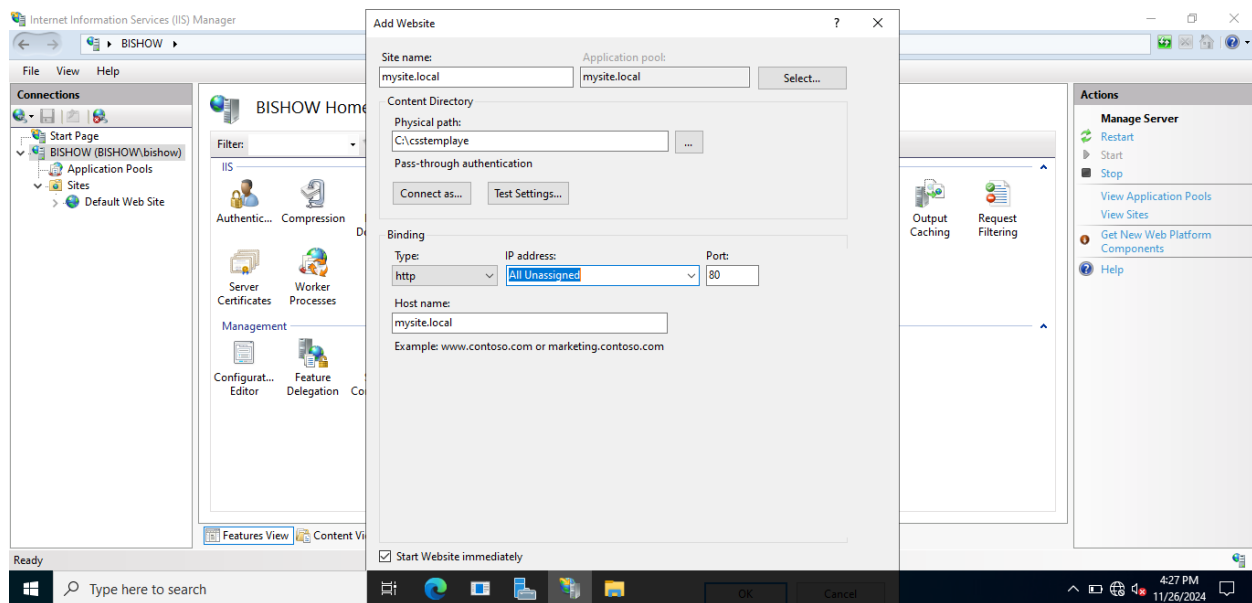


Figure 13 Filling details of website.

Site name : mysite.local (as mentioned on workshop)

Physical path : path of the folder where the website documents are kept.

Ip address : default ( All Unassigned)

Hostname : mysite.local (as mentioned)

and then, Clicking enter to add the website.

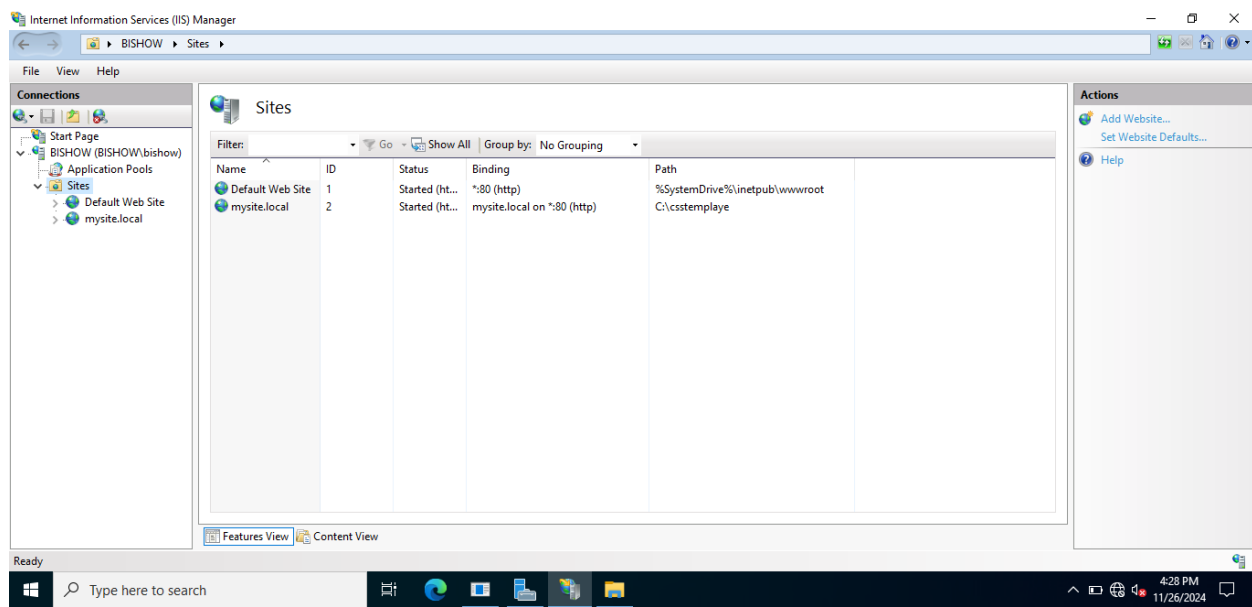


Figure 14 mysite.local added to server

As shown, static website is added successfully.

## 4.3 Registering mysite.local in host file

After the website is added on the server , we've to first register it on the host file of the system.

To do that , firstly opening the host file using note pad which is running as a administrator.

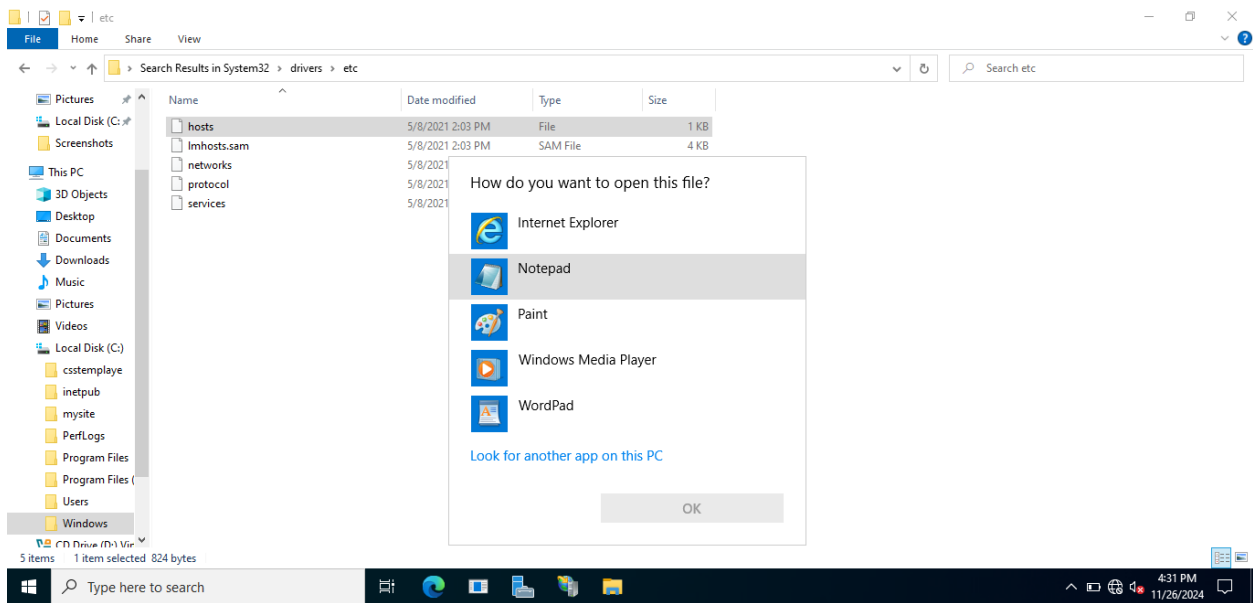


Figure 15 Opening host file using notepad

After that , writing 127.0.0.1 mysite.local in last of the file and saving it

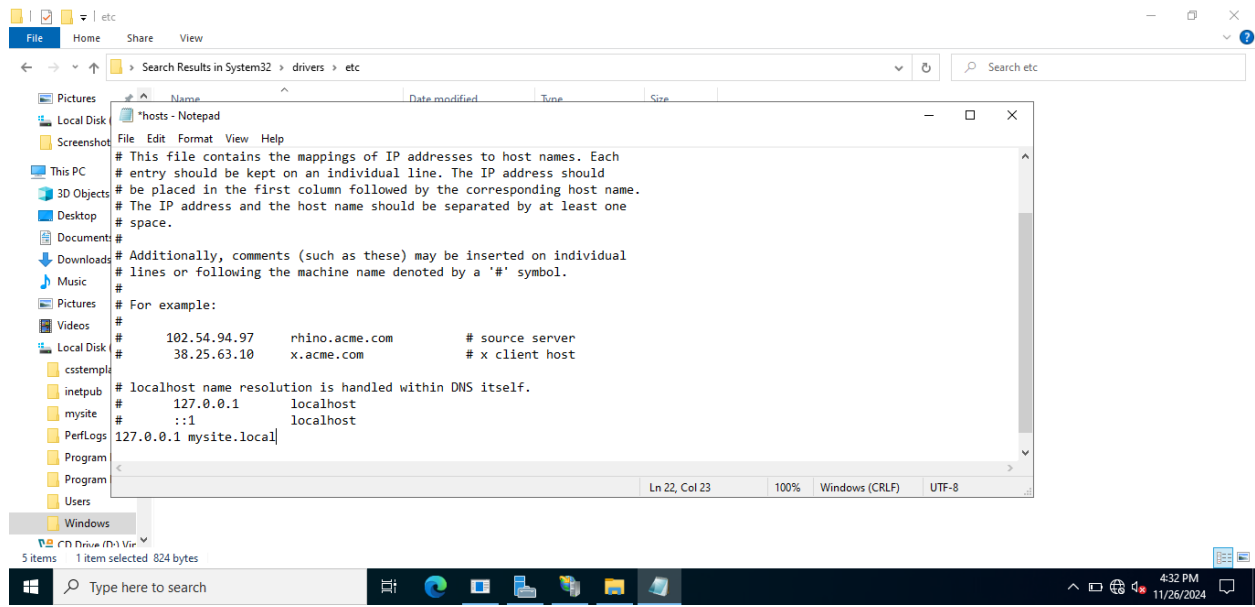


Figure 16 Registering site in host file

Now site is ready to be hosted on any browser of the server.

### 4.3 Loading webpage of mysite.local

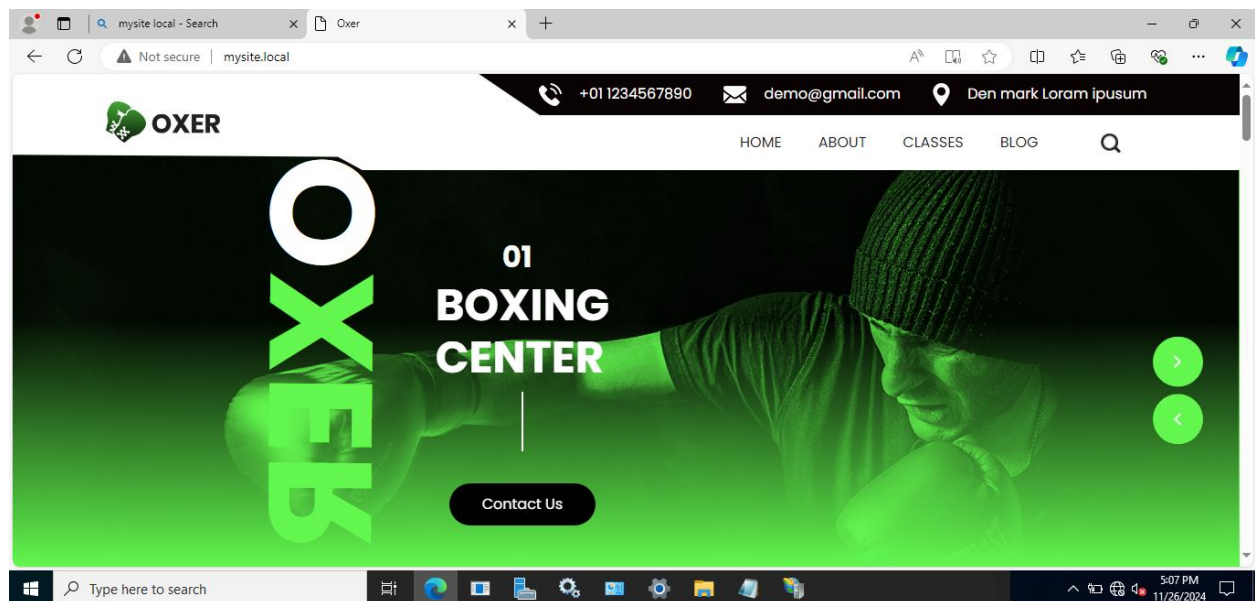


Figure 17 Webpage of mysite.local

Finally , our website mysite.local is loaded on a browser.

## 5.Conclusion

In this project, we learned how to set up a Windows Server 2022 to host a static website using IIS. By following the steps, we successfully installed the necessary features and hosted the website. This hands-on experience gives us a clear understanding of how web hosting works and how to manage a basic server setup. It's a simple but important step towards mastering server management and web deployment.

## References

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