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I confirm that I understand my coursework needs to be submitted online via MST Classroom under the relevant module page before the deadline 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.

Table of Contents

1	Aim.....	1
2	Objective.....	1
3	Requirement.....	1
4	Tools and Concept.....	1
5	Configuration Steps.....	2
5.1	Open server manager dashboard	2
5.2	Click on Next Button.	2
5.3	Tick the “Role-based or feature-based Installation”.....	3
5.4	Click on next button.....	3
5.5	Find Web server (IIS) ticks the feature.....	4
5.6	Click on “Add Features”.....	4
5.7	Web server role is activated	5
5.8	Click on next.	5
5.9	Click on next button as it is leaving all default options.....	6
5.10	Tick the restart the destination server	6
5.11	Leave it few seconds it will take some time to get installed features.	7
5.12	Successful installation role in windows server.	7
5.13	Now, IIS manager will open there is server name in the left side.	8
5.14	Click on dropdown button and you may see Sites options.....	8
5.15	After clicking on sites we see one default server.....	9
5.16	Now we need to fill the form to enter the site credentials.	9
5.17	Now we can see there our website has been listed.	10
5.18	Website is not loaded.....	10
5.19	Open Notepad to Configure.....	11
5.20	Save Changes in Notepad.....	11
5.21	Successfully hosted.....	12
6	Conclusion	13

Table of Figures

Figure 1 Server Manager Dashboard.....	2
Figure 2 Add Roles and Featured	2
Figure 3 Select Installation Type	3
Figure 4 Select destination Server	3
Figure 5 Select Server roles	4
Figure 6 Add features for web server (IIS)	4
Figure 7 Select server Roles.....	5
Figure 8 Web server Roles (IIS)	5
Figure 9 Select role services	6
Figure 10 Confirm Installation Selections	6
Figure 11 Installation Process	7
Figure 12 Server Dashboard	7
Figure 13 IIS Manager	8
Figure 14 Default Website	8
Figure 15 To add a New Website	9
Figure 16 Add a new host name	9
Figure 17 Successfully added new website.....	10
Figure 18 Could not load the website.....	10
Figure 19 Open notepad	11
Figure 20 Give local address to the website	11
Figure 21 At last Website is hosted	12

Hosting a static Website on Windows Server 2022

1 Aim

The main of this logbook is to set up a windows server 2022 environment for hoisting a static website by installing and configuring the necessary roles and features.

2 Objective

- To setup and configure the windows server for hoisting website.
- To configure a new website using the Internet Information Services (IIS).
- To deploy a website by specifying its physical path.
- To successfully access the hosted static website using custom hostname (Eijkeyal.local).

3 Requirement

- Windows Server 2022 machine with administrative access.
- Download a static website template from <https://templatemo.com/>.
- Extract the ZIP files and put them into a folder on the local disk or c: drive.

4 Tools and Concept

- **Server Manager:** This is the main dashboard where we start the process of adding roles.
- **Internet Information Services (IIS) Manager:** Primary tool used to create, configure and manage website after installed.
- **Notepad:** This is the text editor where we modify the host file and grant permission.
- **Web Browser:** I used Microsoft Edge to test and view my hosted website.
- **Web Server (IIS):** It is the software that understands web requests from a browser and deliver webpages inn response basically it is engine that makes hosting possible.
- **Static website:** A website that is built with (HTML, CSS, JavaScript, Images). It contains simple content without dynamic processing.
- **Site Binding:** This configuration tells IIS to listen for specific website it uses port 80.
- **Physical path:** This is actual folder location on the server's hard drive. Basically, it means where the website's files are located or stored.
- **Hosts File:** This is a local text file that acts as a small, private DNS system. It is used to map a local IP address to a custom hostname, allowing it to be accessed within the local environment.

5 Configuration Steps

5.1 Open server manager dashboard

click on the “Add roles and feature”.

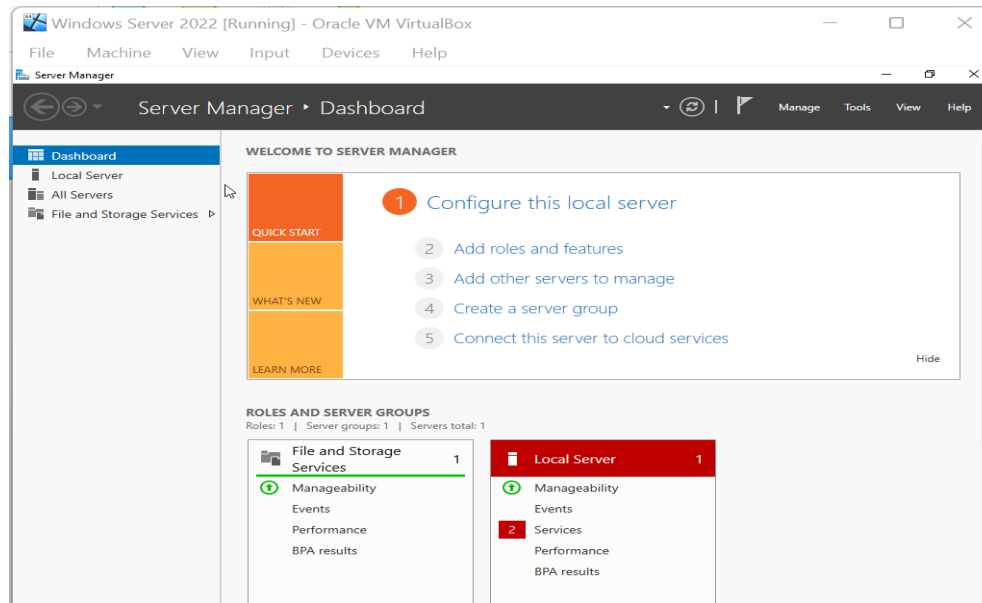


Figure 1 Server Manager Dashboard

5.2 Click on Next Button.

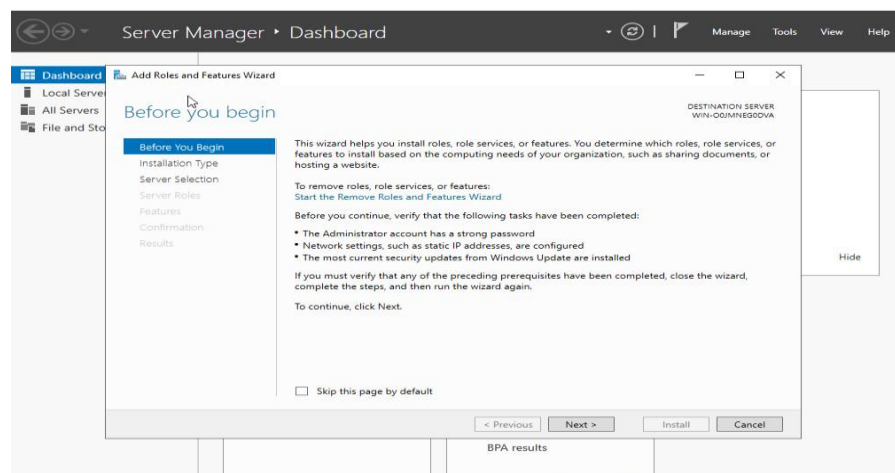


Figure 2 Add Roles and Featured

5.3 Tick the “Role-based or feature-based Installation”.

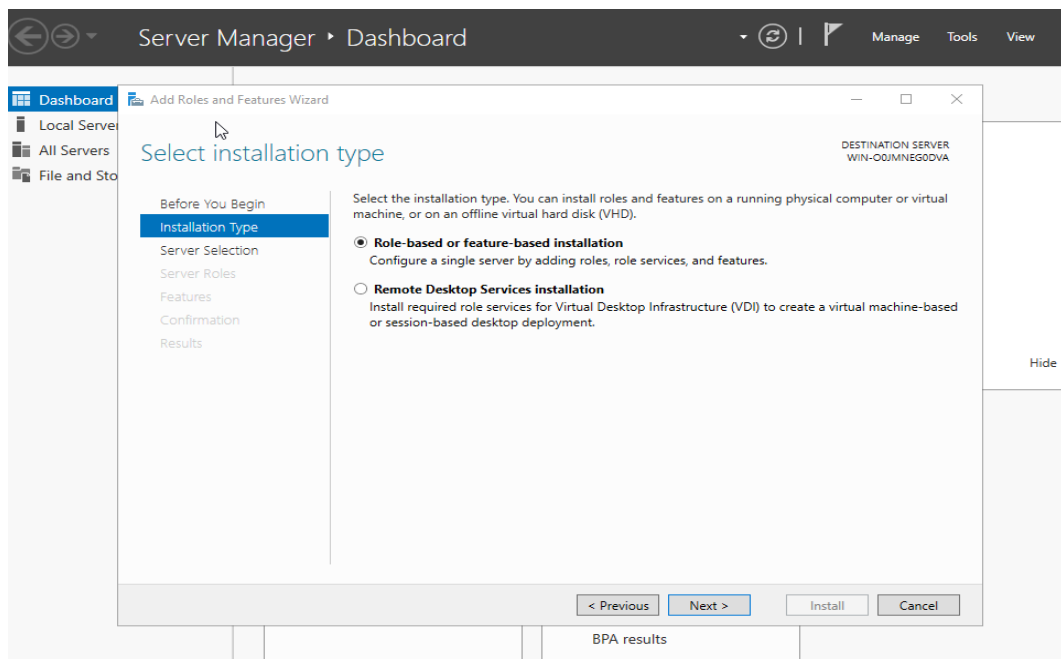


Figure 3 Select Installation Type

5.4 Click on next button.

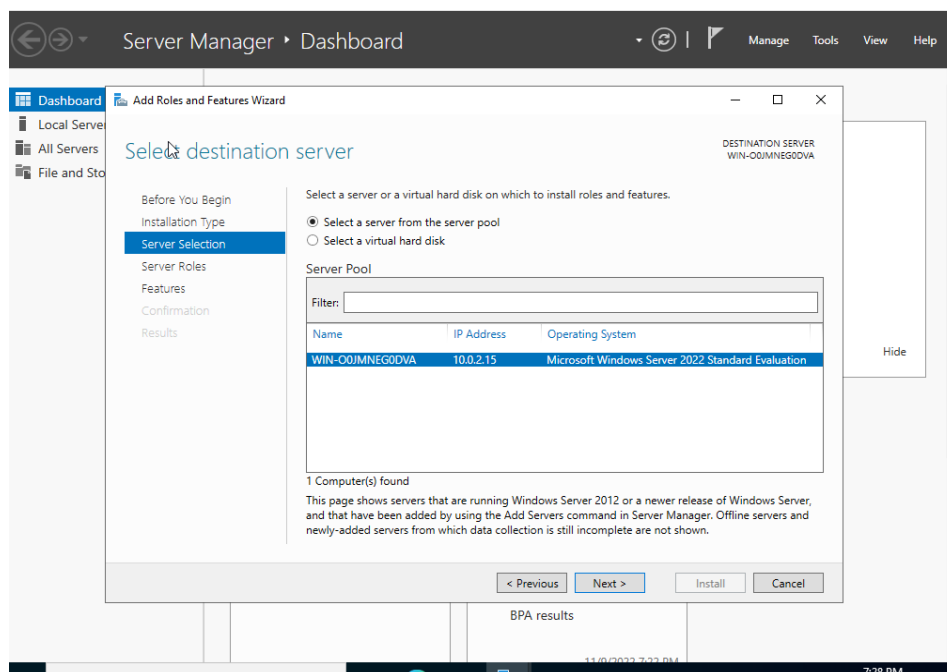


Figure 4 Select destination Server

5.5 Find Web server (IIS) ticks the feature.

click the next and Web Server is the engine where we host a website over the server.

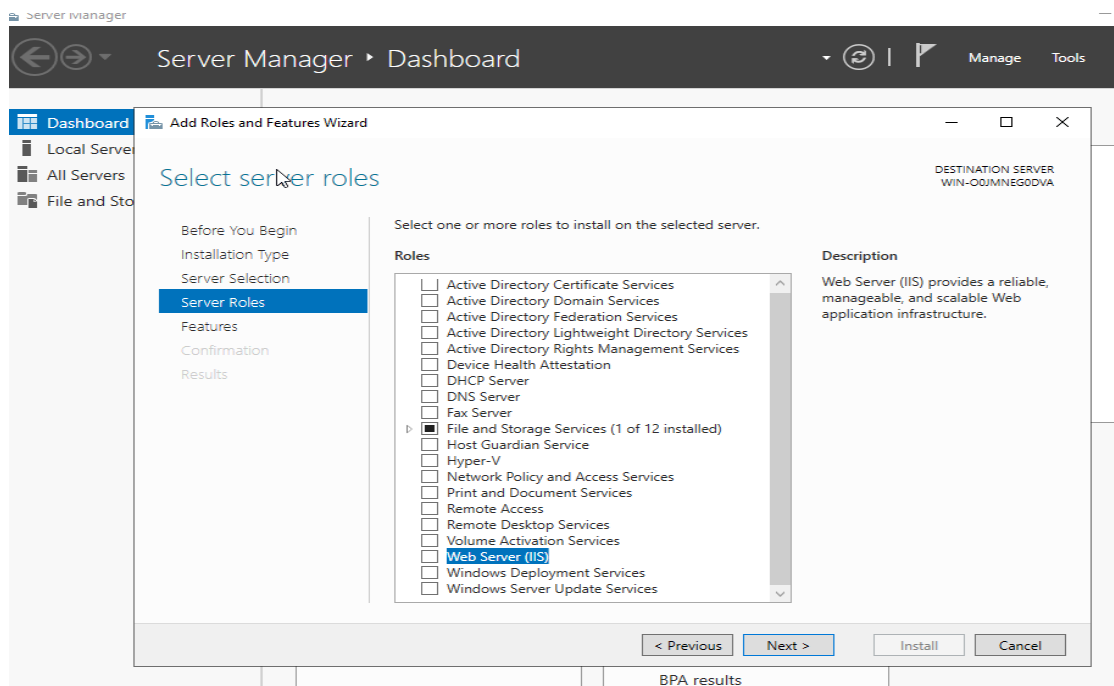


Figure 5 Select Server roles

5.6 Click on “Add Features”.

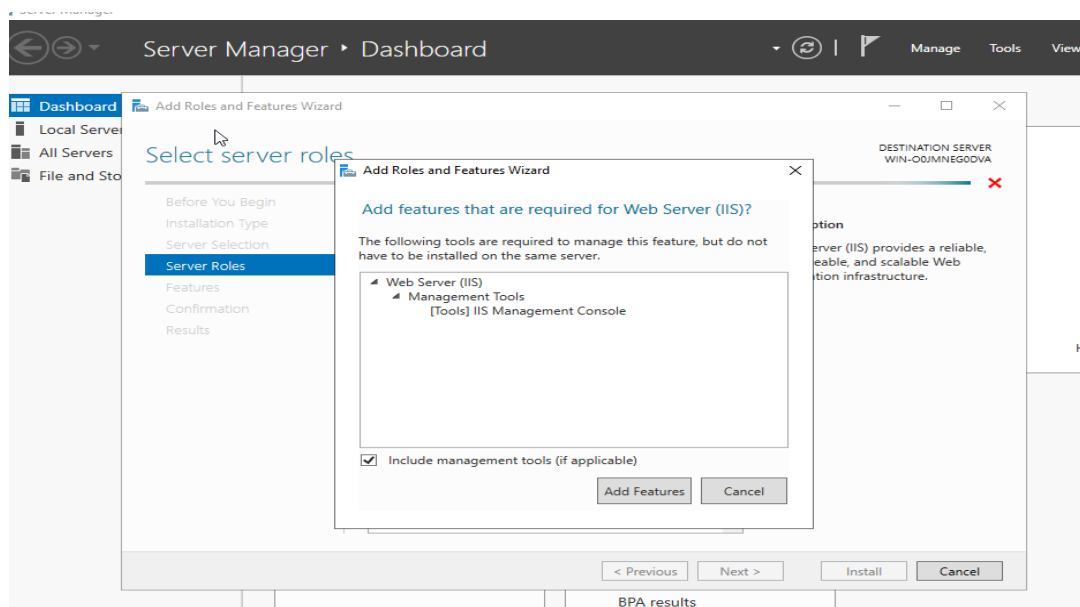


Figure 6 Add features for web server (IIS)

5.7 Web server role is activated

click on next leaving all default values.

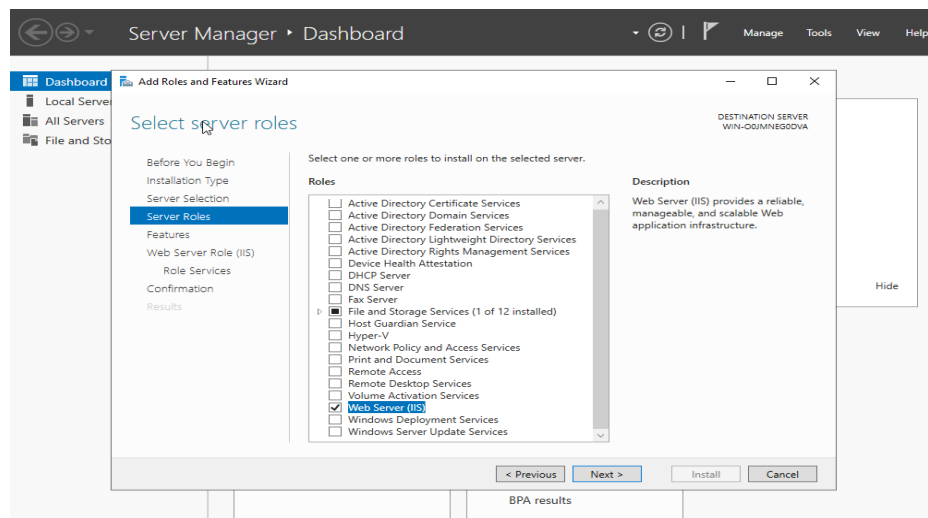


Figure 7 Select server Roles

5.8 Click on next.

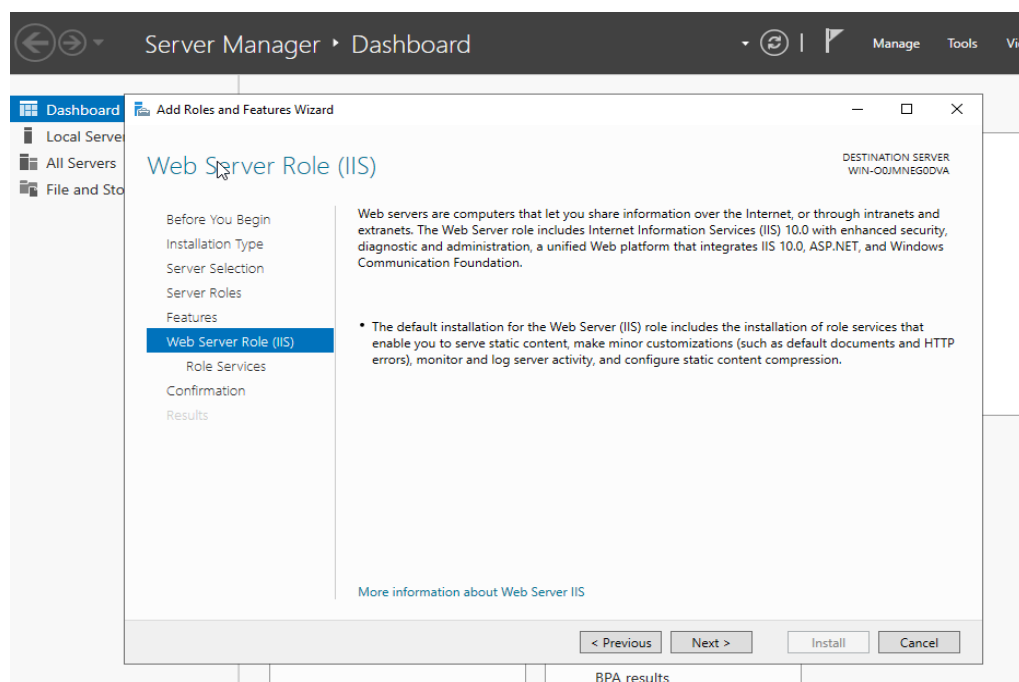


Figure 8 Web server Roles (IIS)

5.9 Click on next button as it is leaving all default options.

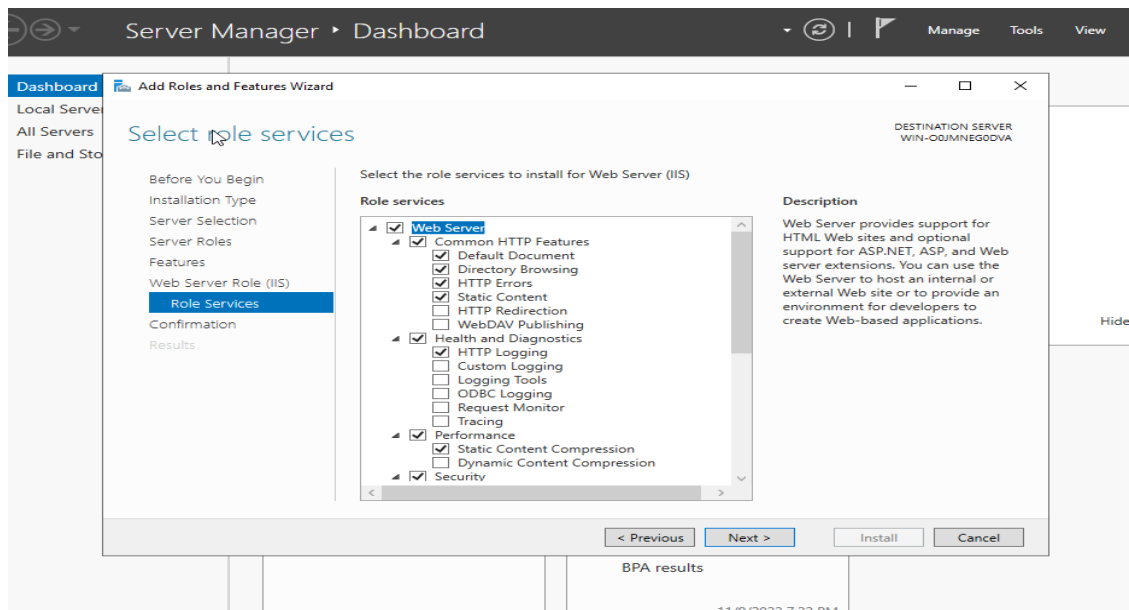


Figure 9 Select role services

5.10 Tick the restart the destination server click on yes button to restart the server.

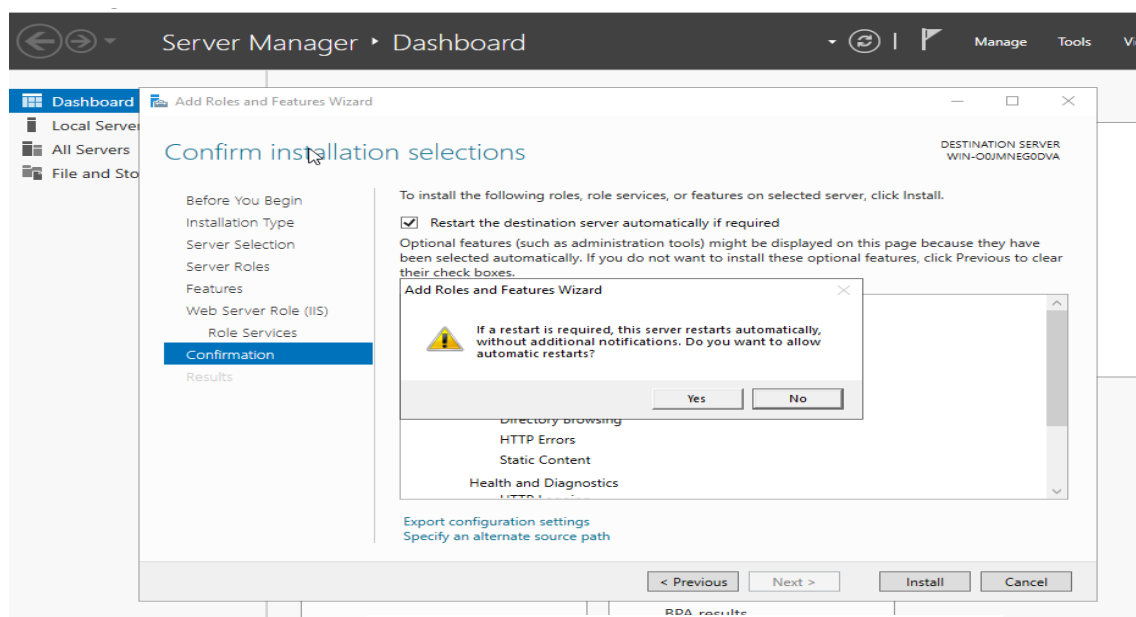


Figure 10 Confirm Installation Selections

5.11 Leave it few seconds it will take some time to get installed features.

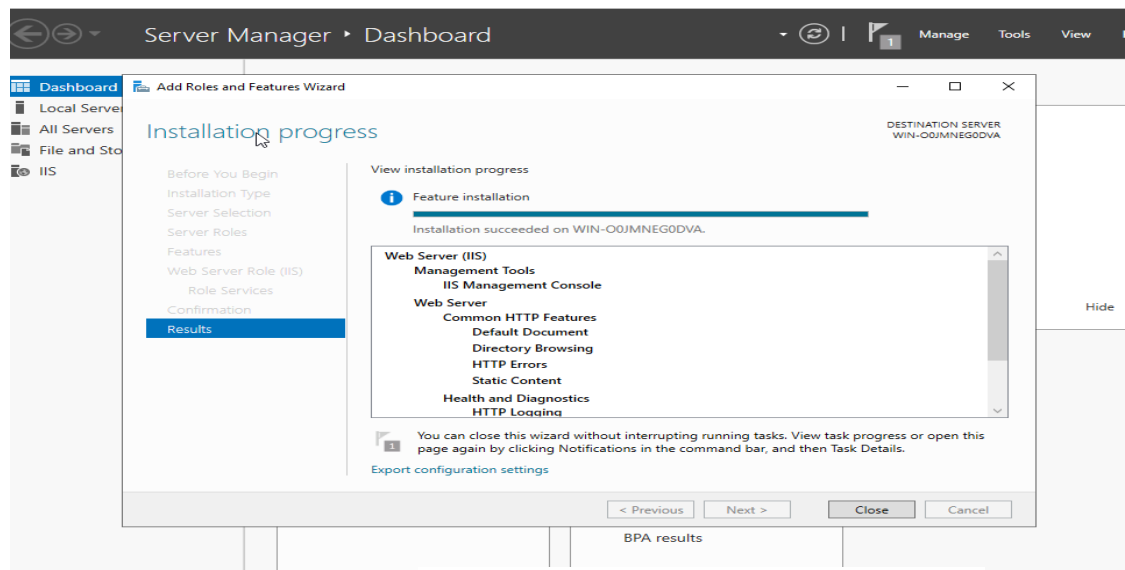


Figure 11 Installation Process

5.12 Successful installation role in windows server.

Go to dashboard and click on tools menu in right bar and search Internet Connection Services (IIS) click on it.

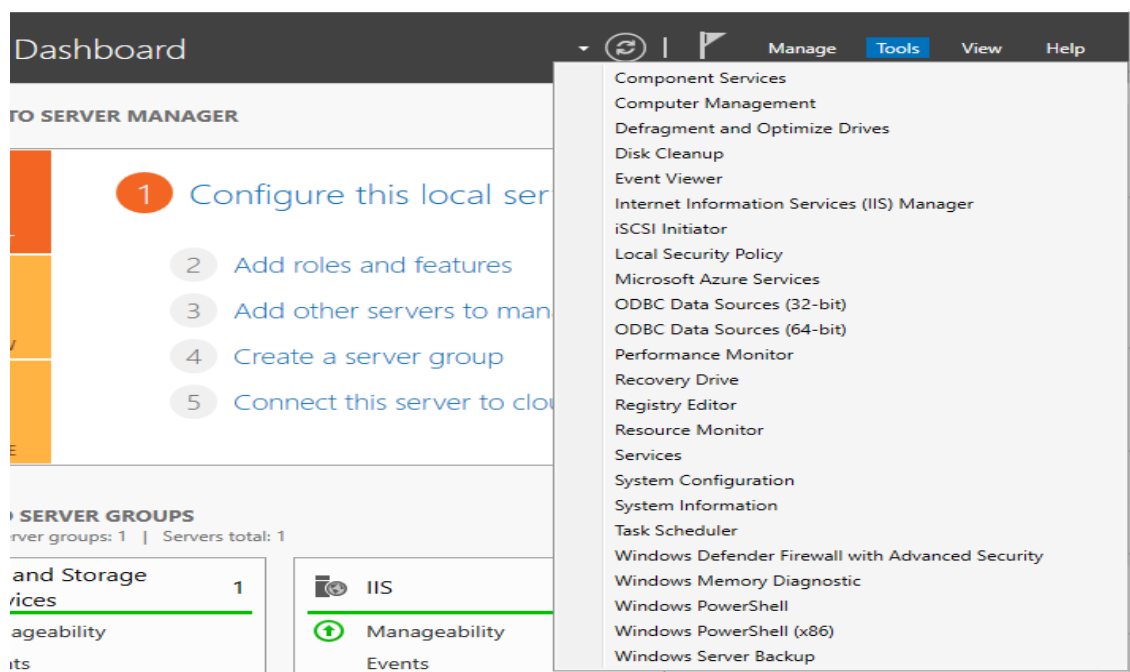


Figure 12 Server Dashboard

5.13 Now, IIS manager will open there is server name in the left side.

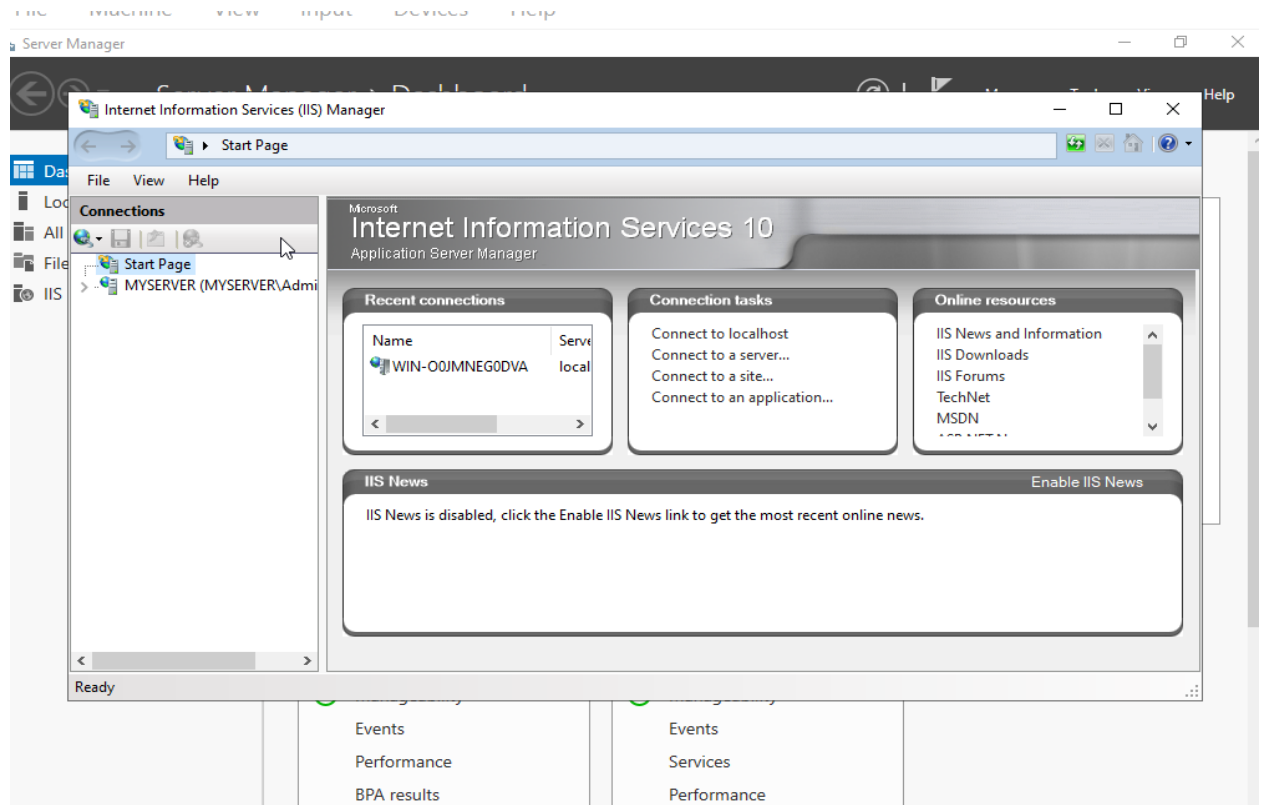


Figure 13 IIS Manager

5.14 Click on dropdown button and you may see Sites options.

Click on sites menu.

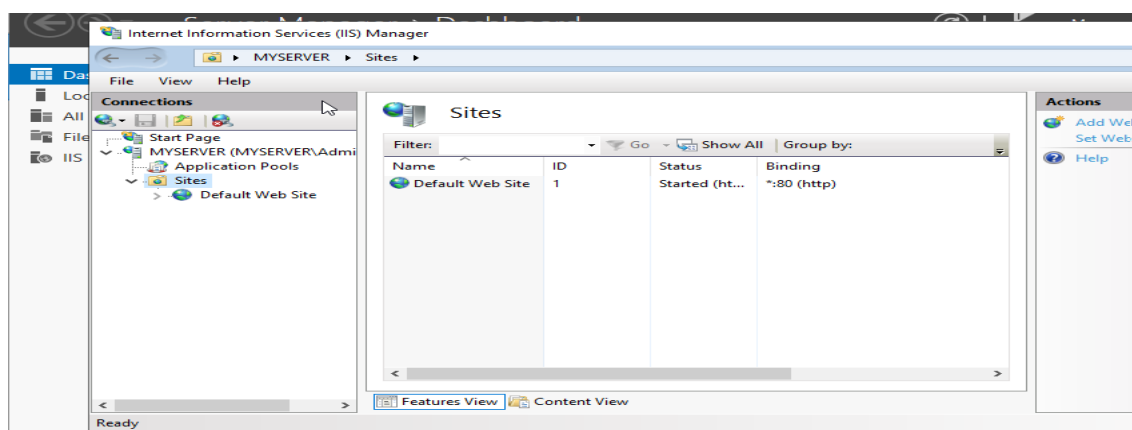


Figure 14 Default Website

5.15 After clicking on sites we see one default server.

Now right click on sites and click on “Add Feature”.

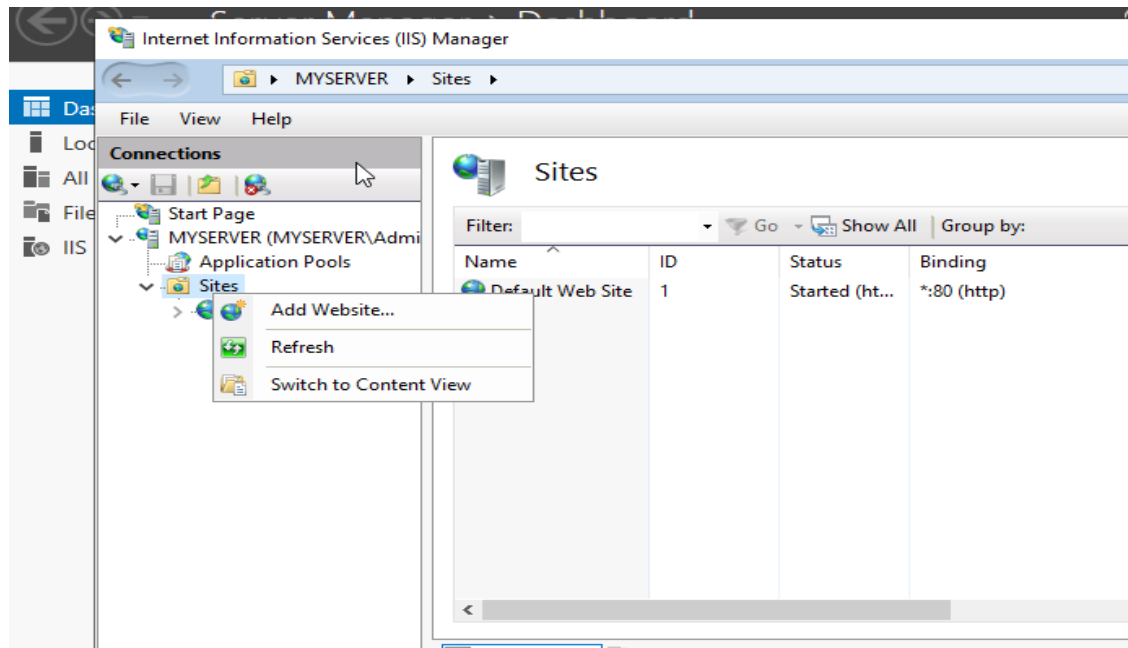


Figure 15 To add a New Website

5.16 Now we need to fill the form to enter the site credentials.

Site Name : Eijkeyal.local

Physical path : Select the folder where we extract the files of website.

Host Name: Eijkeyal.local

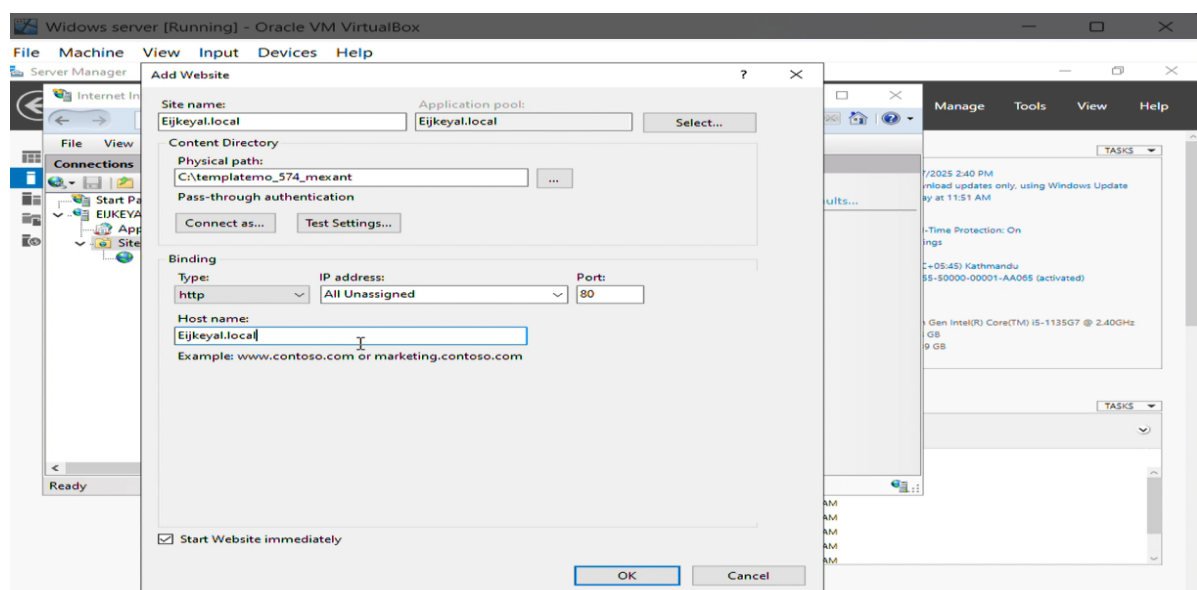


Figure 16 Add a new host name

5.17 Now we can see there our website has been listed.

Now open Microsoft edge to browse website by typing "Eijkeyal.local/".

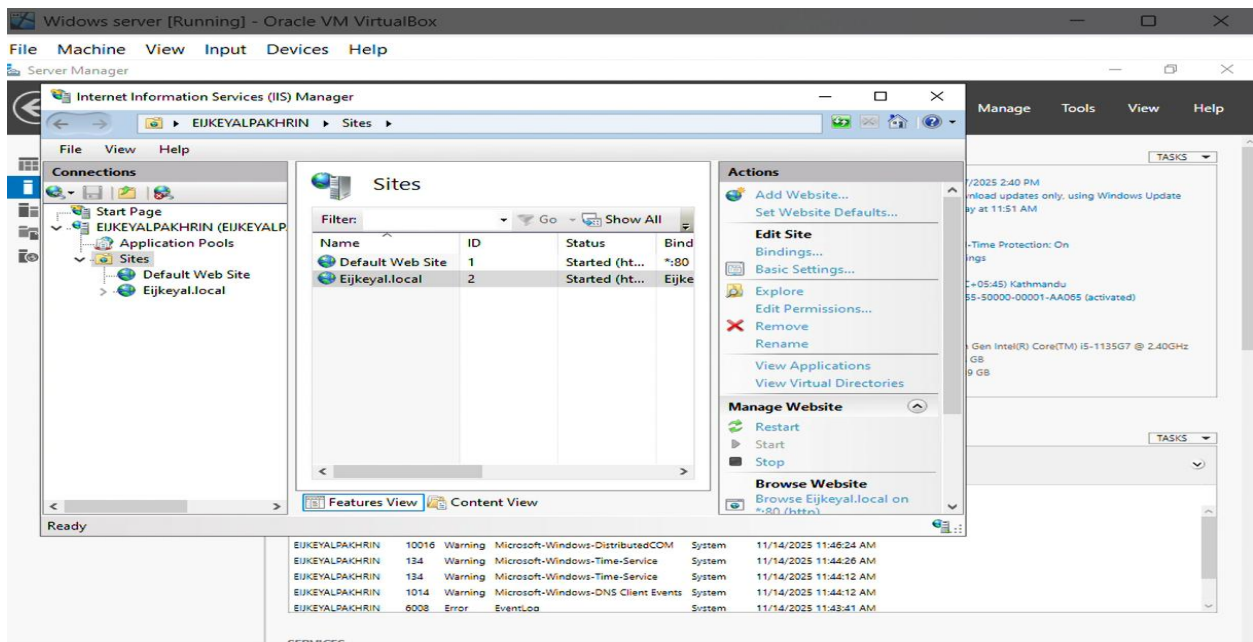


Figure 17 Successfully added new website

5.18 Website is not loaded.

We can face issues while browsing like this, this means we need to register our site in host file which is 127.0.0.1 Local server Ip address.

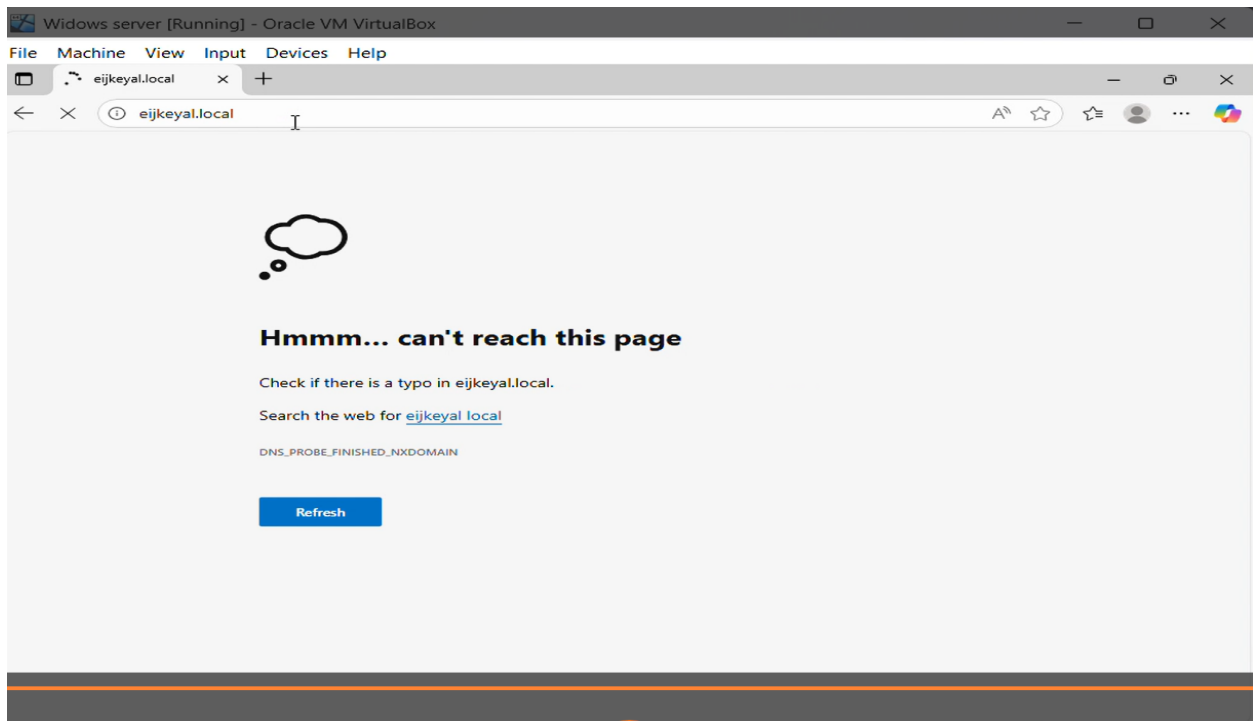


Figure 18 Could not load the website

5.19 Open Notepad to Configure.

To register our file in host file open my folder go to the local disk or c:\ drive or click on system inside system find drivers. Inside drivers there is host file opened in notepad. (e.g:C/Windows/System32/drivers/etc/hosts.).

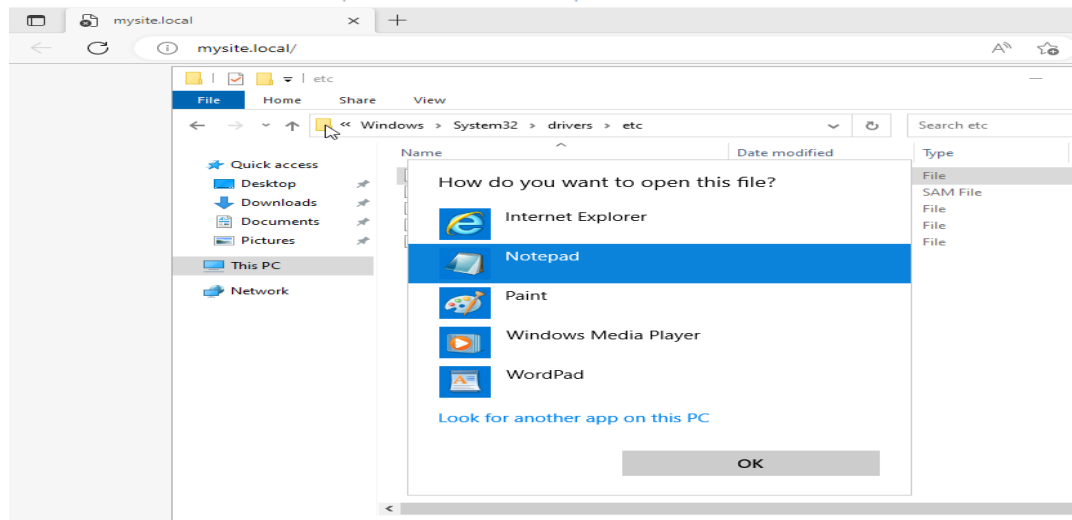


Figure 19 Open notepad

5.20 Save Changes in Notepad.

In the end of txt file add this 127.0.0.1 Eijkeyal.local save the file which means our site is published in locally.

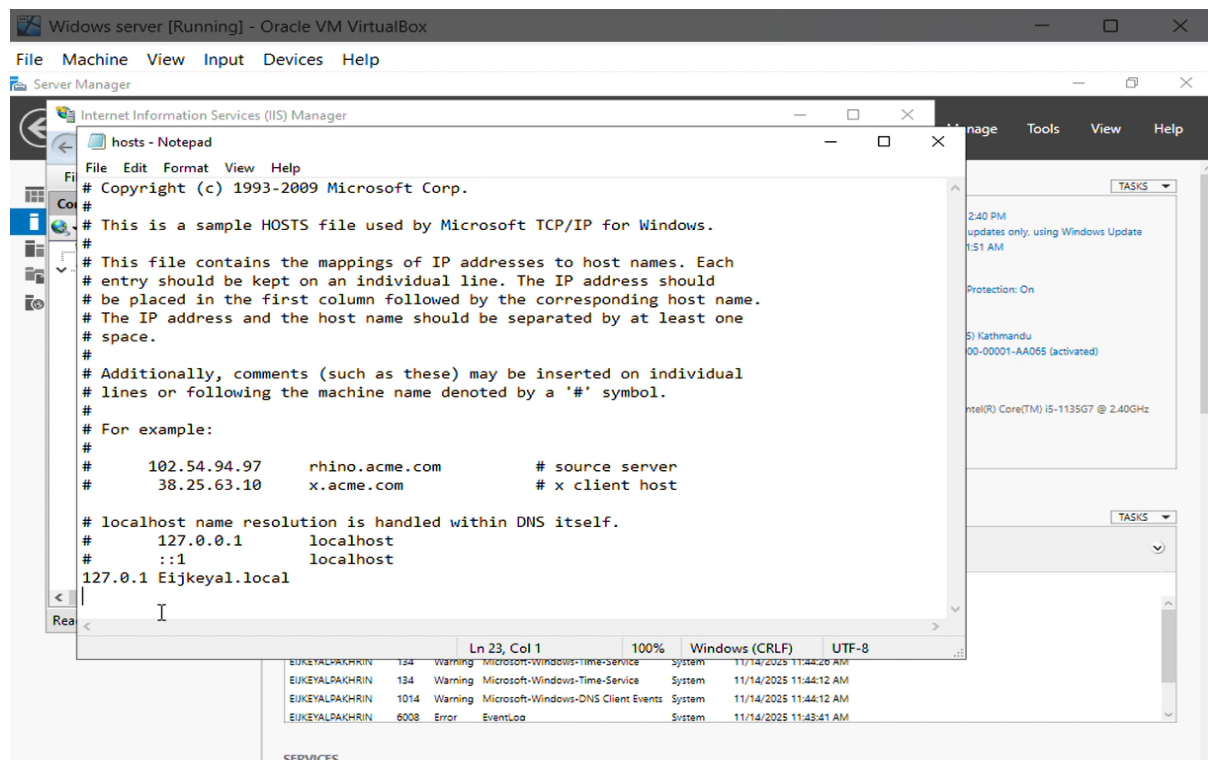


Figure 20 Give local address to the website

5.21 Successfully hosted.

At last, we need to browse the webpage. Finally, our website has been hosted in internet.

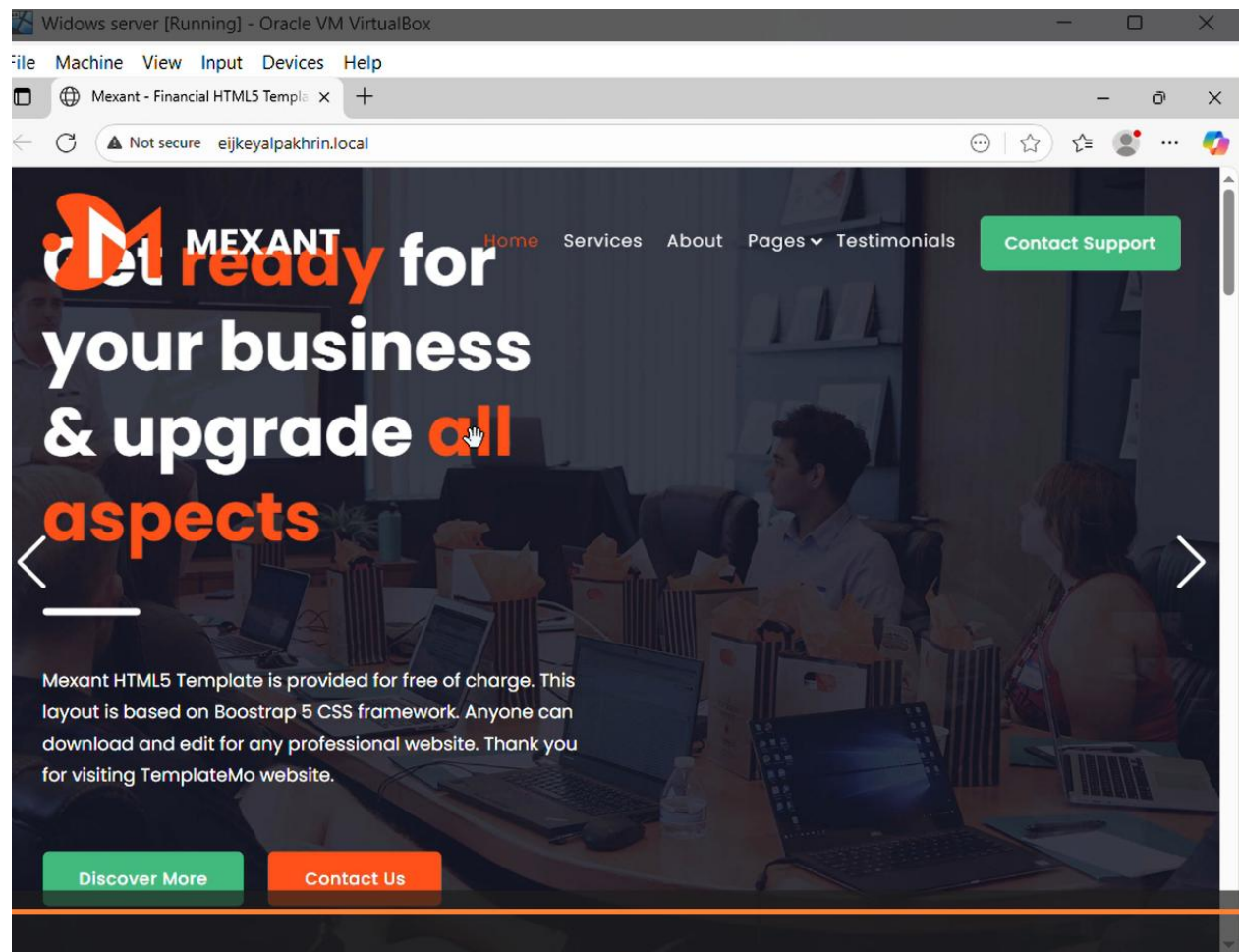


Figure 21 At last Website is hosted

6 Conclusion

This workshop successfully demonstrated how to configure the Web Server role on Windows Server 2022 to host a static website. The website is now live and accessible via the domain name EijkeyalPakhrin.local in a web browser.