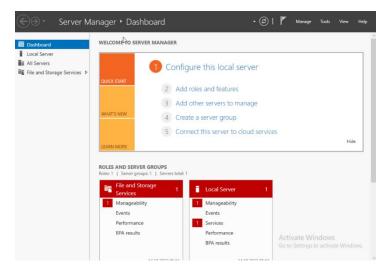
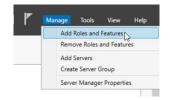
Internet Information Services

1.1 How to install the ISS on a Windows Server virtual machine

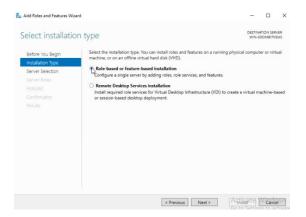
- 1. First, you need to connect yourself on your virtual machine on VCenter.
- 2. Then you search **Server Manager** and open it. It looks like that:



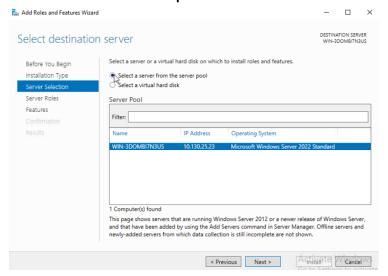
3. You go to "Manage" → "Add Roles and Features".



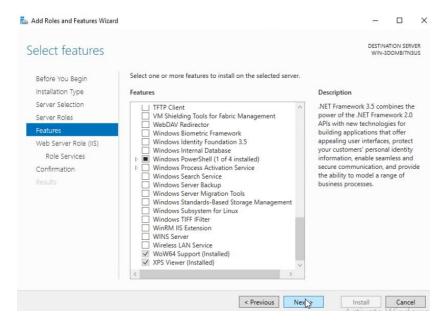
- 4. Skip the 1st page (if you want you can skip it by default).
- 5. Choose the "Role-based or feature-based installation" and click next.



6. Choose "Select a server from the server pool" and click next. The local server is selected by default.



- 7. Choose "Web Server (IIS)" and click next.
- On select features, don't do anything, just click next.



9. On the features of Web Server Role (IIS) choose these ones and click next:



10. Confirm installation selections and install.

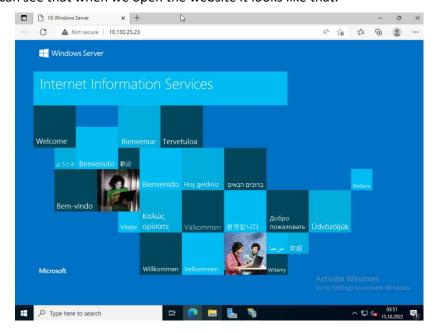
Switch to Content View

1.2 Create a site on :80

- 1. Open the ISS.
- 2. On "sites", right click and select "add website".
- 3. Choose a site name, a physical path, an IP address and an 80 port.

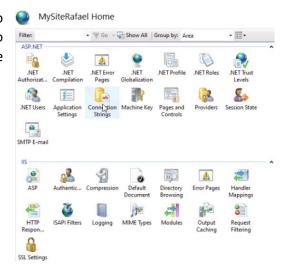


4. We can see that when we open the website it looks like that:

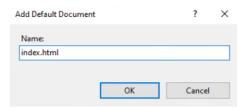


OK Cancel Ctily

 To change the display of the website, we need to set up the order of the default documents. To do it, we need to choose "default document" on the site features.



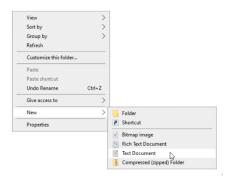
6. Right click → add. Add a default document with the name "index.html".



7. To prioritize the **index.html** document we need to put it on 1st in the list. To do it we have a button **"Move Up"** on the right column.



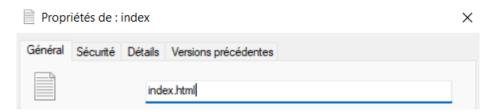
8. Then we go on the **physical path** of the site and create a **text document**.



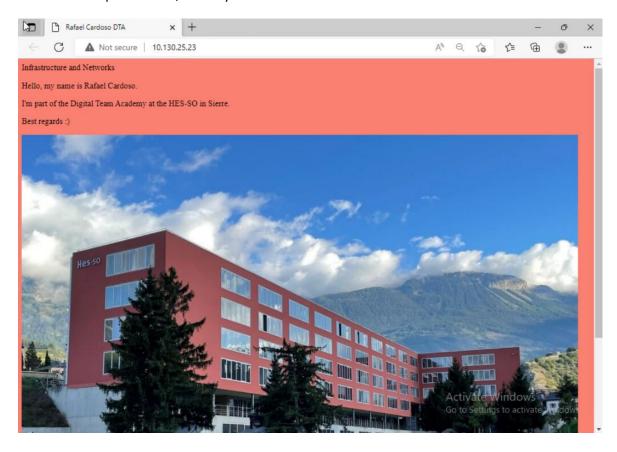
9. We write our HTML code on the notepad:



10. When we save the text file, we need to change it to a **html file**. To do it we right click and go to **properties**. Then we change the file name to **"index.html"** and save.

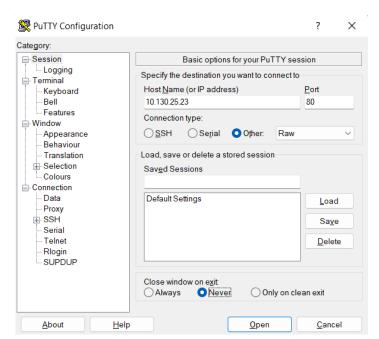


- 11. Then on the ISS we select the site \rightarrow right click \rightarrow refresh.
- 12. When we open the site, it finally looks like this:



How to access the site from my workstation with putty:

1. On **putty**, select the following settings:

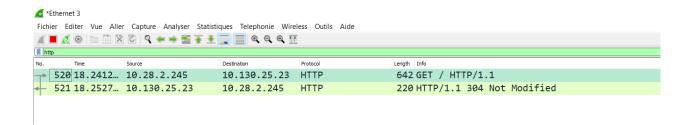


2. When the command prompt opens, do a **GET request**:

GET / HTTP/1.1 Host: 10.130.25.23

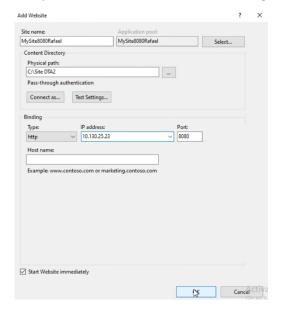
We receive the following answer:

Access the site with my browser and capture the conversation with Wireshark:

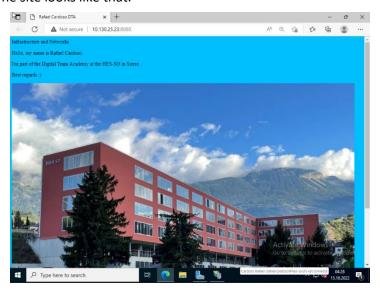


1.3 Create a site on:8080

1. Do the same steps as to create a site on :80 but change the port to 8080.

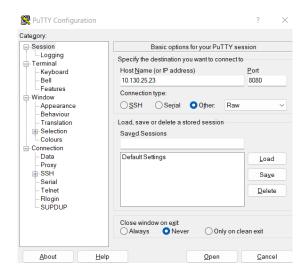


2. The site looks like that:



Access the site from my workstation with putty:

1. On putty, select the following settings:



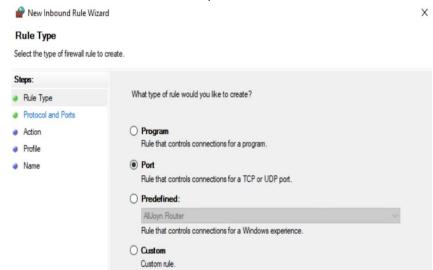
2. This time when we do a **GET request** it doesn't work. Putty marks an error:



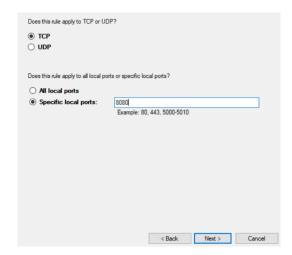
3. To solve this problem, we need to create a rule on the firewall that allows the connection to 8080 ports.

To do it, we need to go on Control Panel \rightarrow System and Security \rightarrow Windows Defender Firewall \rightarrow Advanced settings.

4. On "Inbound rules", create a new port rule.



5. Choose the following settings:

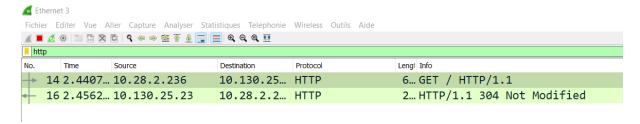


- 6. Select "allow the connection".
- 7. Apply the rule to all the 3 options.



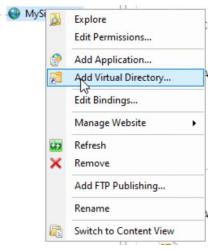
- 8. Give a name to the rule and click on finish.
- 9. Now, when we connect with Putty it works:

Access the site with my browser and capture the conversation with Wireshark:

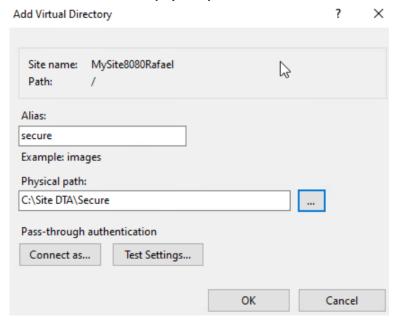


2.0 Authenticated access on a folder

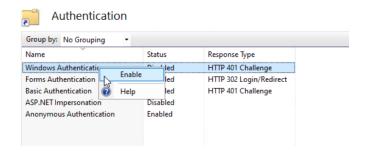
1. Right click on the site → "Add virtual directory".



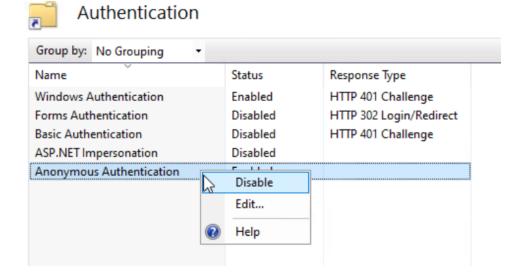
2. Choose a **folder name** and the **physical path**:



- 3. To add an authentication, we need to choose "Authentication" on the IIS.
- 4. Then we need to enable a type of authentication. Here, I choose the "Windows Authentication". To enable it, we do a right click → enable.



5. We also need to disable the "anonymous authentication".



6. Now, when we try to connect on our website it looks like this:

