PRACTICAL-5

AIM

Configure a windows FTP server for user-based access. Capture packets while you connect to FTP server and Login. Find the packet that shows username and password. Capture packets and observe the results.

THEORY

FTP

- FTP (File Transfer Protocol) is a network protocol for transmitting files between computers over Transmission Control Protocol/Internet Protocol connections. Within the TCP/IP suite, FTP is considered an application layer protocol.

- In an FTP transaction, the end user's computer is typically called the local host. The second computer involved in FTP is a remote host, which is usually a server.

- Both computers need to be connected via a network and configured properly to transfer files via FTP. Servers must be set up to run FTP services, and the client must have FTP software installed to access these services.

FTP Server

- The primary purpose of an FTP server is to allow users to upload and download files. An FTP server is a computer that has a file transfer protocol (FTP) address and is dedicated to receiving an FTP connection.

- FTP is a protocol used to transfer files via the internet between a server (sender) and a client (receiver)**.**

- An FTP server is a computer that offers files available for download via an FTP protocol, and it is a common solution used to facilitate remote data sharing between computers.

IMPLEMENTATION

- Open Control Panel -> Programs and Features -> Turn the Windows Features on or off -> FTP server, FTP Extensibility, FTP service, Web management tools, WWW service.
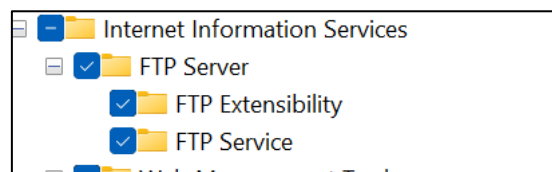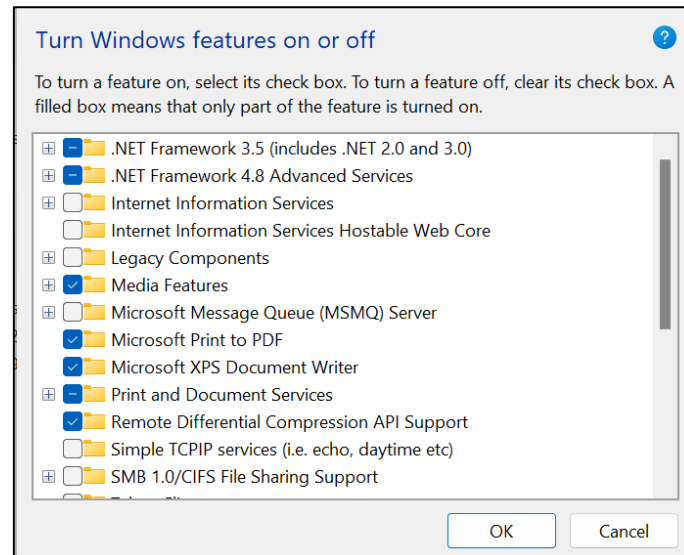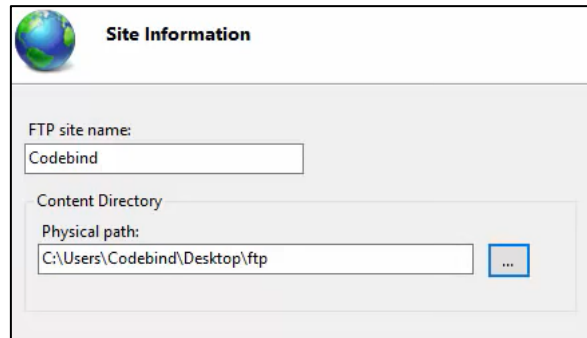

- Open Internet Information Services (IIS) Manager.
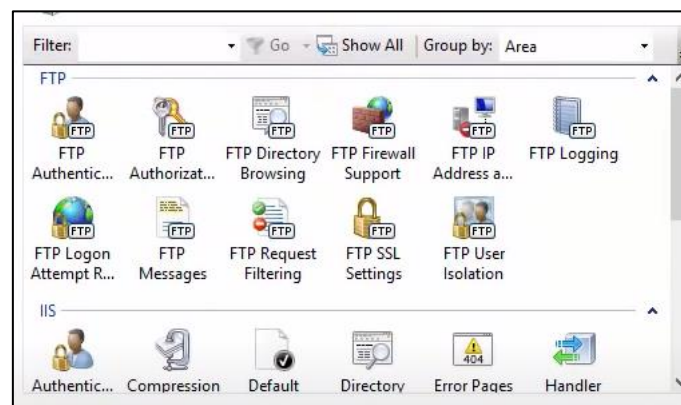
- Go to site -> Add FTP Site -> Give name and path -> Give IP Address, check start FTP site automatically, No SSL -> Give authentication, access and permission -> Finish.
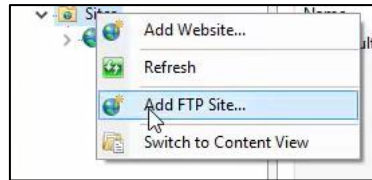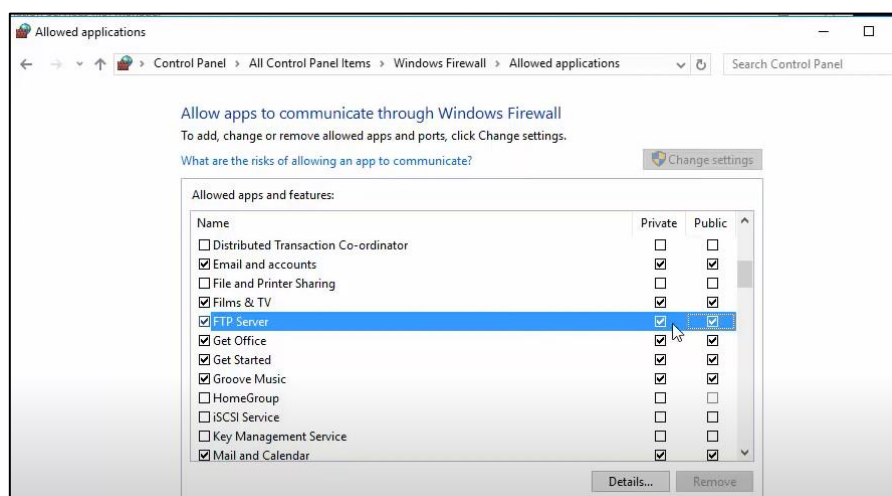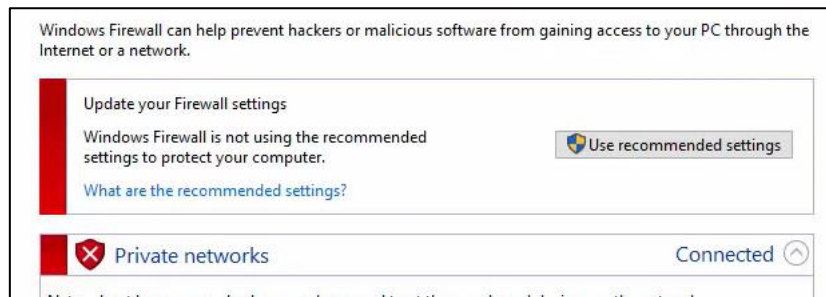
- Add site information

- Once, the site is created, go to windows firewall and allow it through windows firewall.
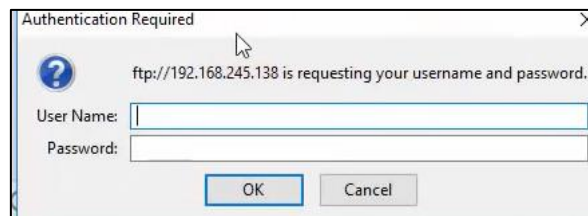

- Select the FTP server

- Then, turn-off the firewall

Windows Firewall can help prevent hackers or malicious software from gaining access to your PC through the Internet or a network.

Update your Firewall settings
Windows Firewall is not using the recommended settings to protect your computer.

[Use recommended settings]

What are the recommended settings?

❌ Private networks   Connected ⌄

- Now, to access the FTP server, we can use one of the two methods.
- We can use either command prompt or ftp command in the browser.

Authentication Required   ×

❓   ftp://192.168.245.138 is requesting your username and password.

User Name: [   ]
Password: [   ]

            [OK]   [Cancel]

- You will need to enter the username and password.

📁 Up to higher level directory

Name   **Size**   **Last Modified**

- Then, we can create some files and folders.

CONCLUSION

- In this practical, I learnt how to create a FTP server.