# ❖ LABS

# Network

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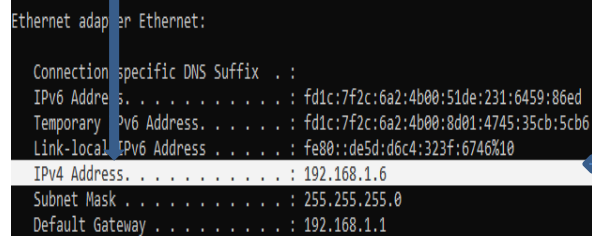- ➢ *17/7/2023*

# *Lab 1*

- **To know your current IP address (logical) use the command**

  ➢ ***Ipconfig Command***
  ➢ ***Ipconfig***

  Gives details about your network settings

  ➢ *Star……cmd …..ipconfig*

```
Ethernet adapter Ethernet:

   Connection specific DNS Suffix  . :
   IPv6 Address. . . . . . . . . . . : fd1c:7f2c:6a2:4b00:51de:231:6459:86ed
   Temporary IPv6 Address. . . . . . : fd1c:7f2c:6a2:4b00:8d01:4745:35cb:5cb6
   Link-local IPv6 Address . . . . . : fe80::de5d:d6c4:323f:6746%10
   IPv4 Address. . . . . . . . . . . : 192.168.1.6
   Subnet Mask . . . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . . . : 192.168.1.1

Wireless LAN adapter Wi-Fi:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :

C:\Users\AIA>
```

  ➢ ***Ipconfig /all***

  Gives more details about your network setting

  ➢ ***Star ….cmd…. Ipconfig /all***

```
Wireless LAN adapter Local Area Connection* 1:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
   Physical Address. . . . . . . . . : F8-59-71-7E-D9-76
   DHCP Enabled. . . . . . . . . . . : Yes
   Autoconfiguration Enabled . . . . : Yes

Wireless LAN adapter Local Area Connection* 10:

   Media State . . . . . . . . . . . : Media disconnected
   Connection-specific DNS Suffix  . :
   Description . . . . . . . . . . . : Microsoft Wi-Fi Direct Virtual Adapter #2
   Physical Address. . . . . . . . . : FA-59-71-7E-D9-75
   DHCP Enabled. . . . . . . . . . . : No
   Autoconfiguration Enabled . . . . : Yes
```

➢ *__Configure IP address manually….__*

➢ Start ….Control panel…..Network and Internet…. Change Adaptor settings … select Local Area Connection adaptor
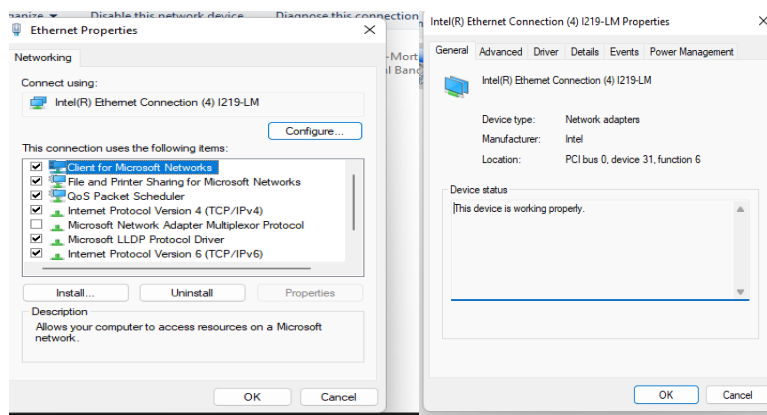


➢ *__Ping Command__*

**Check the connectivity**

**Ip my dives *192.168.1.6***

- ***Ping 192.168.1.6***

```
C:\Users\AIA>ping 192.168.1.6

Pinging 192.168.1.6 with 32 bytes of data:
Reply from 192.168.1.6: bytes=32 time<1ms TTL=128
Reply from 192.168.1.6: bytes=32 time<1ms TTL=128
Reply from 192.168.1.6: bytes=32 time<1ms TTL=128
Reply from 192.168.1.6: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\AIA>
```

➢ ***Check the Availability of website And Domain name System:***

   *C:\Users\AIA>nslookup*

   *>www.yahoo.com*

   *>www.google.com*

```
C:\Users\AIA>nslookup
Default Server:  UnKnown
Address:  192.168.1.1

> www.yahoo.com
Server:  UnKnown
Address:  192.168.1.1

Non-authoritative answer:
Name:    new-fp-shed.wg1.b.yahoo.com
Addresses:  2a00:1288:110:c305::1:8001
            2a00:1288:110:c305::1:8000
            87.248.100.215
            87.248.100.216
Aliases:  www.yahoo.com

> www.google.com
Server:  UnKnown
Address:  192.168.1.1

Non-authoritative answer:
Name:    www.google.com
Addresses:  2a00:1450:4002:411::2004
            142.251.209.36
```

➢ ***MAC address***
➢ **Get mac**

```
Command Prompt                                                              –  □  X
Microsoft Windows [Version 10.0.22000.2124]
(c) Microsoft Corporation. All rights reserved.

C:\Users\AIA>getMac

Physical Address    Transport Name
==================  ========================================================
F8-59-71-7E-D9-75   Media disconnected
D4-81-D7-FA-27-79   \Device\Tcpip_{536D3095-64C9-4C39-B371-A6800681FA0F}

C:\Users\AIA>
```
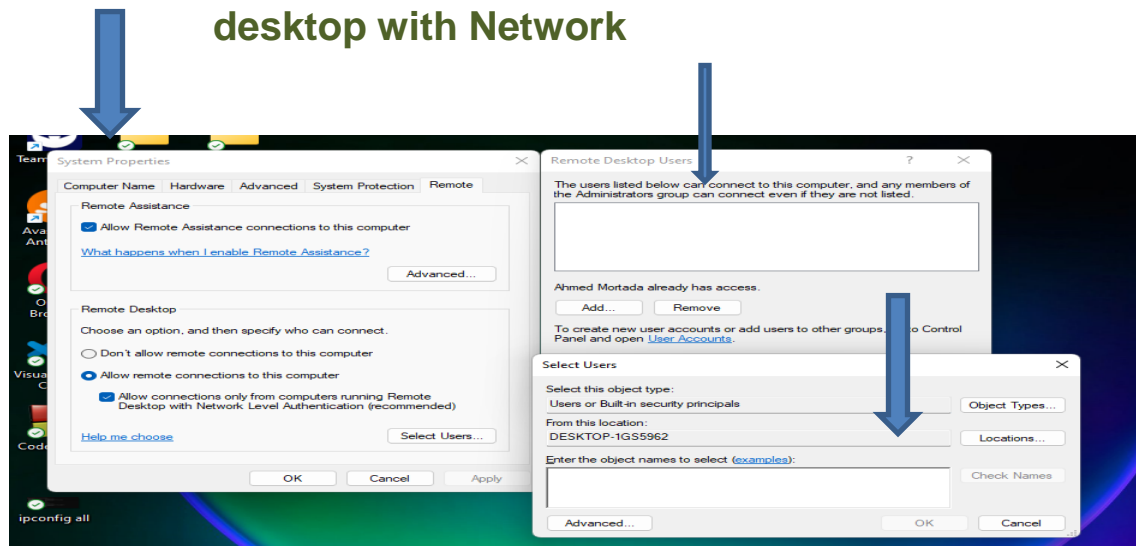
## ➢ *Using Remote Administration…..*

- Remote Desktop

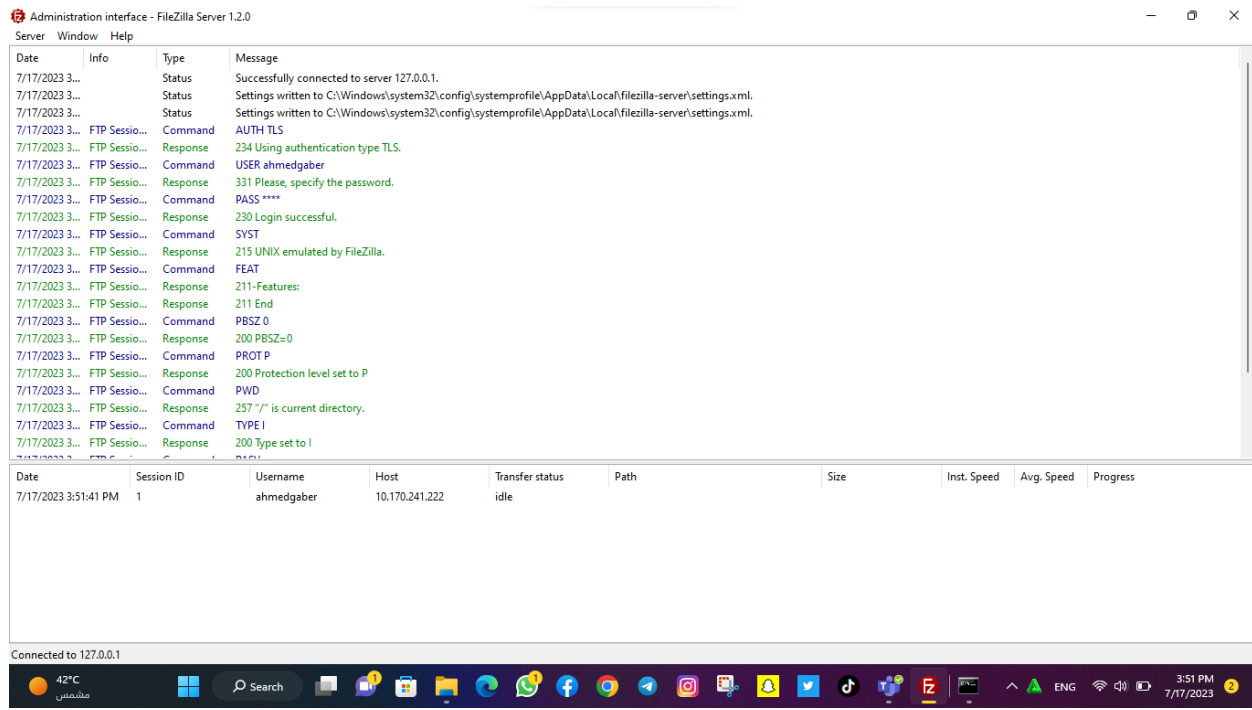➢ *Start …. R_Click on my computer ….. Remote Settings……*
*Remote Desktop*

1. **Do not allow connection to the computer**
2. **Allow connection to your computer**
3. **Allow connections from computers running of remote desktop with Network**

➢ ***Dealing with FTP protocol***
➢ *need to have:  server*
***1.*** Install FileZilla ftp server on one machine.
***2.*** add users
***3.*** Edit menu…Users, …then click the Add butto
***4.***



➢ ***FileZilla Client***....
➢ First check connectivity
➢ Start the FileZilla ftp server, then go to the Client and run the Filezilla ftp client.

➢ Type the IP address of the ftp server host and the username and password