User guide Network Jonas Yalkhoroev

Class: 1IMC

This is a user manual for how to connect two or more PCs to a local network via a Switch.

Equipment you should need:

• 2 or more PCs

• As many Ethernet cables as PCs

• A Switch with enough Ethernet ports

Step 1: turn off Wi-Fi

Tap on the wifi logo in the bottom right corner.

This menu should appear.
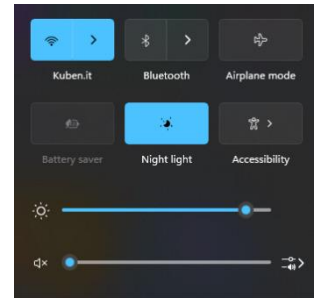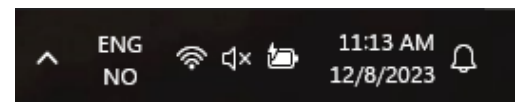
Press the wifi logo again. It should be white.

If it is already white, it is already turned off

When the internet is turned off, you are ready to start

Find a switch and ethernet cables.

Plug the cables into the switch like this:

Plug the other end of the ethernet cable into

an equal hole in the PC.

The next stage is to change the IP address.

To change your IP address, you must:

1. press the windows button on either your keyboard or in the task bar. A menu should pop up search «control panel» or «kontroll panel» in the search bar. go in

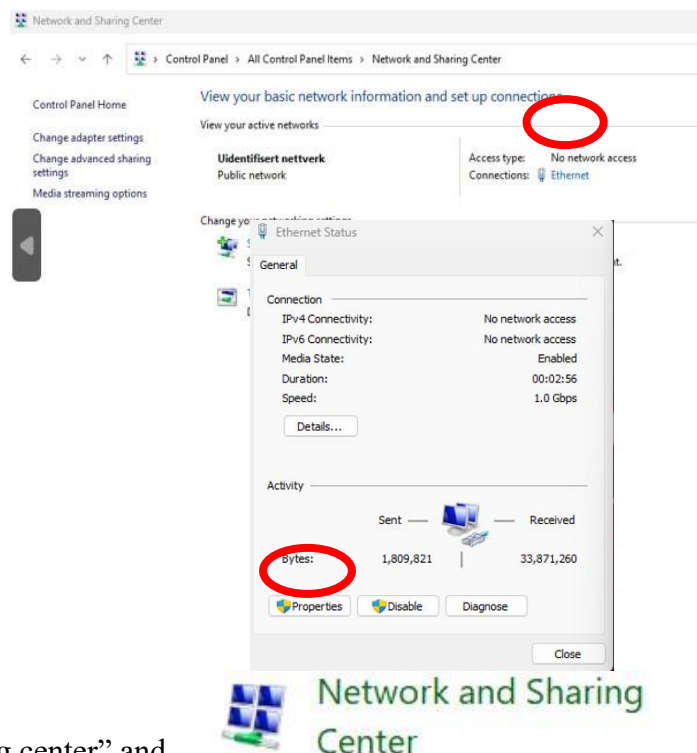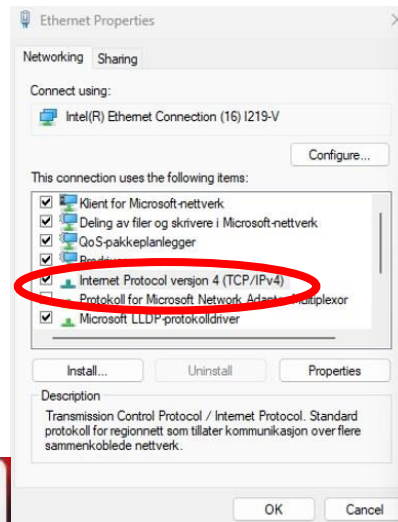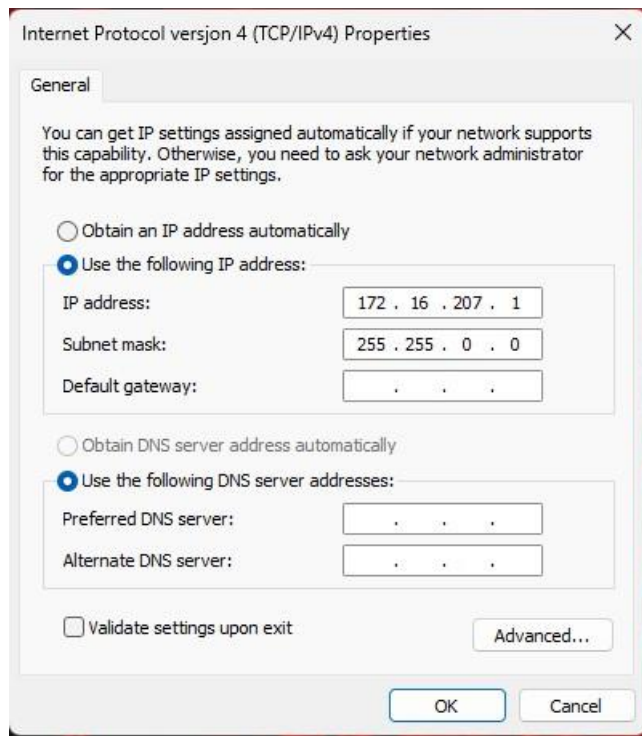4.   clicking on ethernet a small menu should appear. It looks like this: Here you must press. "Properties"

on the control panel.

2. look for "network and sharing center" and tap on it.

3. this screen should come up. Press ethernet.

5. in properties, a number of signs appear. here click on

    «internet protocol version 4 (TCP/IPv4)»

6. here you are going to

    change the Ip address først må

    du bytte fra «obtain an IP

    address automatically» l

    «Use the following ip address:»

    Under "ip address:" you must enter

    one of the following ip addresses.

    Everyone in the group must choose

    different IP addresses.

    Pc 1: 172.16.207.1

    Pc 2: 172.16.207.87

    Pc 3: 172.17.07.100

    Pc 4: 172.17.05.152

you have chosen the IP address and entered it; press "ok".

A pop-up should appear that says, "fill in subnet mask". Then press OK.

Then it fills in a subnet mask for you automatically. Now you can press OK again and

proceed to the next part.

The next part is about sending pings to the other PCs.

1. press and hold the Windows button, and press r at the same time.

2. in the search field, type "cmd" here you must send pings to each

other.

3. write "ping" also the IP address that someone else in the group has chosen.

Ex: ping 172.16.207.1

Then press enter to complete.

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C:\Users\joyaa001>ping 172.16.207.82

Pinging 172.16.207.82 with 32 bytes of data:
Reply from 172.16.207.82: bytes=32 time<1ms TTL=128
Reply from 172.16.207.82: bytes=32 time=1ms TTL=128
Reply from 172.16.207.82: bytes=32 time<1ms TTL=128
Reply from 172.16.207.82: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.207.82:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

1. Here you have finished pinging, something like this should come up.

2. Every time you ping someone, you send four pings.

3. In the second part it says

4. "packets: sent = 4, received = 4, lost = 0"

5. This means that the other person in the group received all four pings I sent. If it says that some or all were lost, you must try again. If you never receive ping from anyone, something has been done wrong.