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.

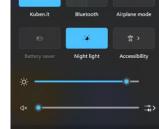
This menu should appear.

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

※ > 学 Kuben.it Bluetooth Airplane mode



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.

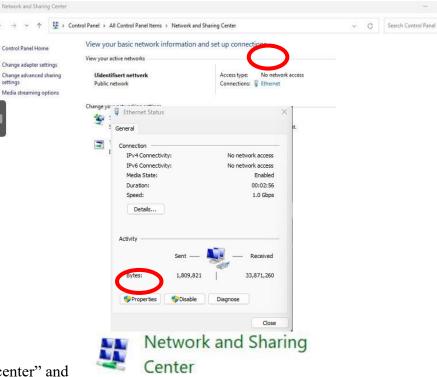
To change your IP address, you must:

 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

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)»

Connect using: Intel(R) Ethemet Connection (16) I219-V Configure.. This connection uses the following items: QoS-pakkeplanlegger ✓ Internet Protocol versjon 4 (TCP/IPv4) mtokoll for Microsoft Netwo ✓ <u>■</u> Microsoft LLDP-protokolldriver Install Uninstall Transmission Control Protocol / Internet Protocol. Standard protokoll for regionnett som tillater kommunikasjon over flere sammenkoblede nettverk. X Internet Protocol versjon 4 (TCP/IPv4) Properties General You can get IP settings assigned automatically if your network supports 6. here you are going to this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. change the Ip address først må Obtain an IP address automatically Use the following IP address: du bytte fra «obtain an IP IP address: 172 . 16 . 207 . 1 Subnet mask: 255 . 255 . 0 . 0 address automatically» I Default gateway: Obtain DNS server address automatically «Use the following ip address:» O Use the following DNS server addresses: Preferred DNS server: Under "ip address:" you must enter Alternate DNS server: one of the following ip addresses. Validate settings upon exit Advanced... Everyone in the group must choose

OK

Cancel

Ethernet Properties

Networking Sharing

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.

```
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.