COMPUTER NETWORKS(CS-307)
Sharing Files Between Two Computers Using LAN Cable
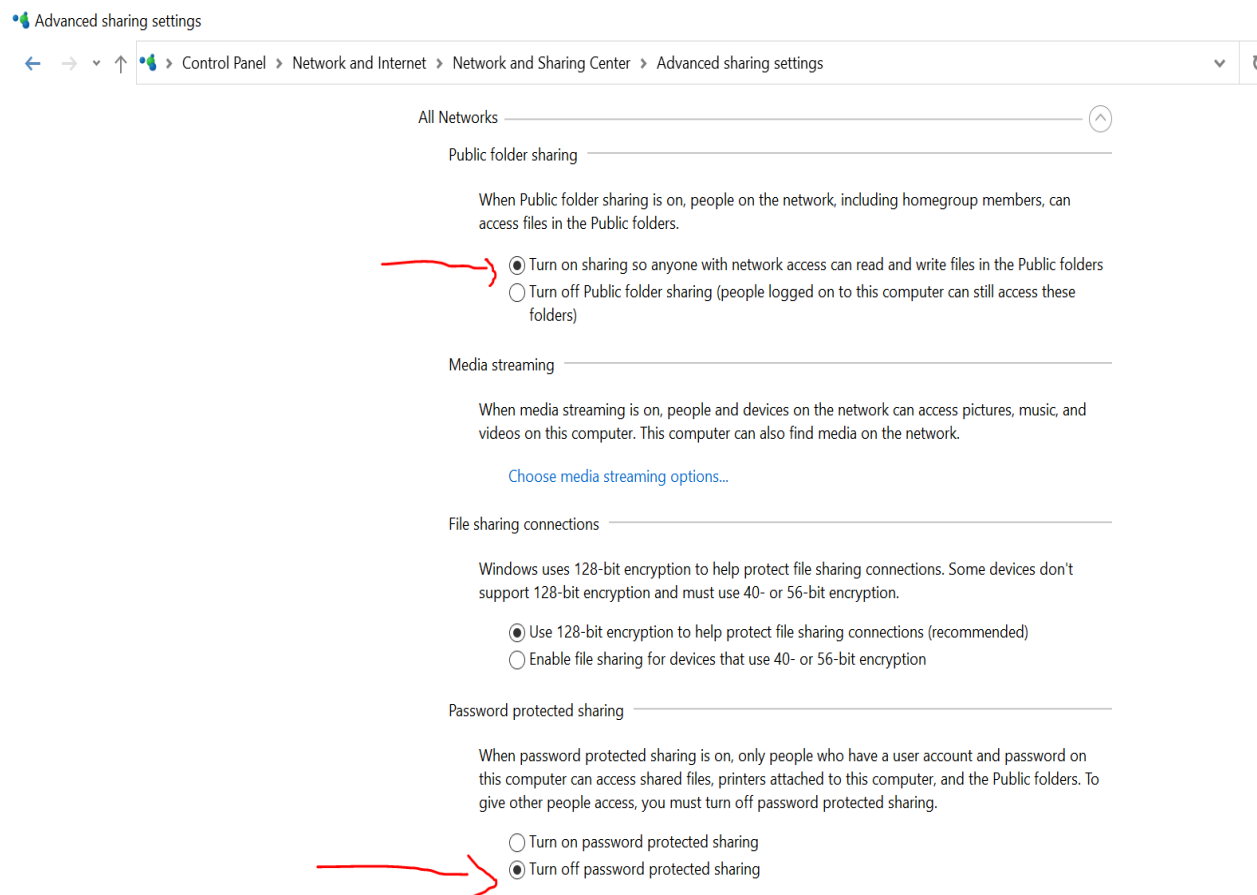
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BSSE-5A

Step1: Connect Both PC's With LAN Cable

Connect both computers to a LAN cable.

Step 2: Enable Network Sharing on Both PCs

1- Goto Control Panel->Network and Internet->Network and Sharing Center->Advanced sharing settings.
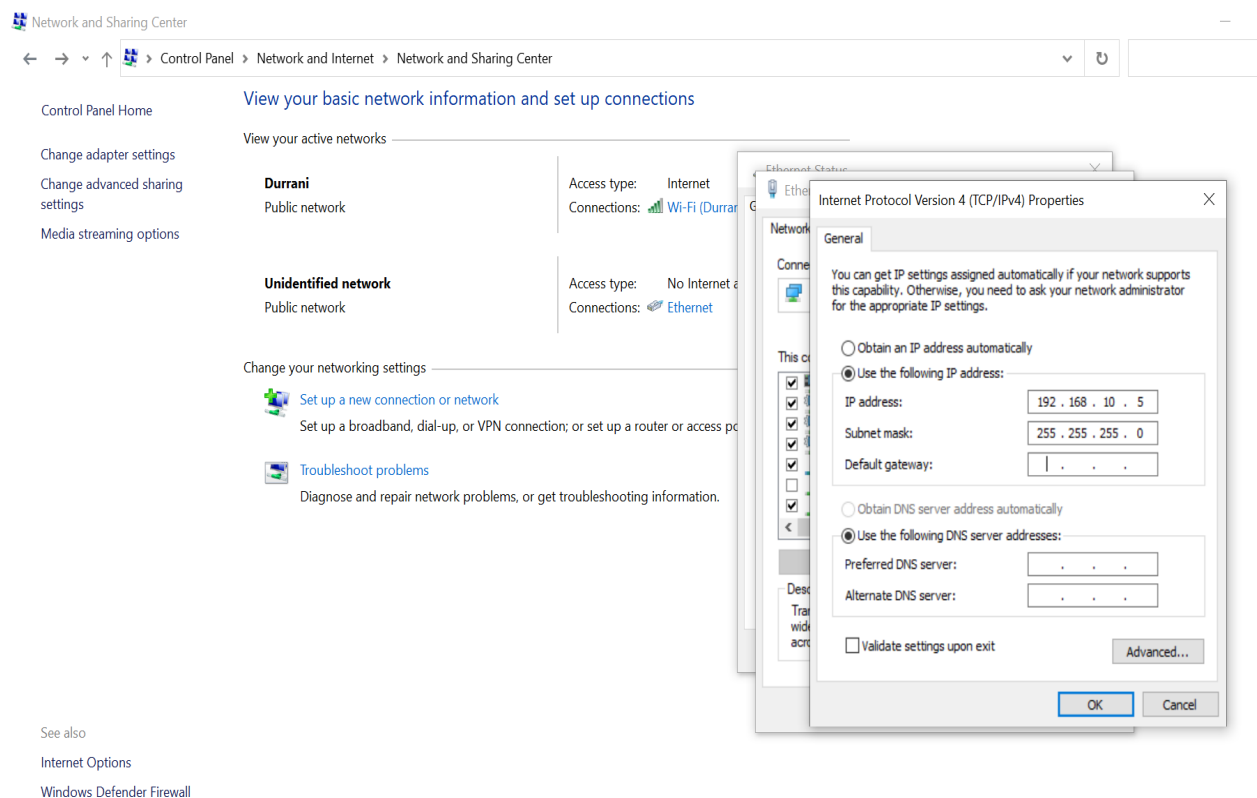2- Next, expand All Networks by clicking on the drop-down icon. Here, we need to enable Public Sharing so that the PCs can access files from each other over the LAN cable. To avoid more configuration, just Turn off password protected sharing. By doing so, you enable the other computer to access shared data without providing any credentials. This is not a good security practice by since you are sharing your data with people you trust, you can make this one-time exception. Once you are done with file sharing, make sure you Turn off password protected sharing. Once done, click Save Changes. Just as I said in the beginning, repeat the same steps for the other PC.
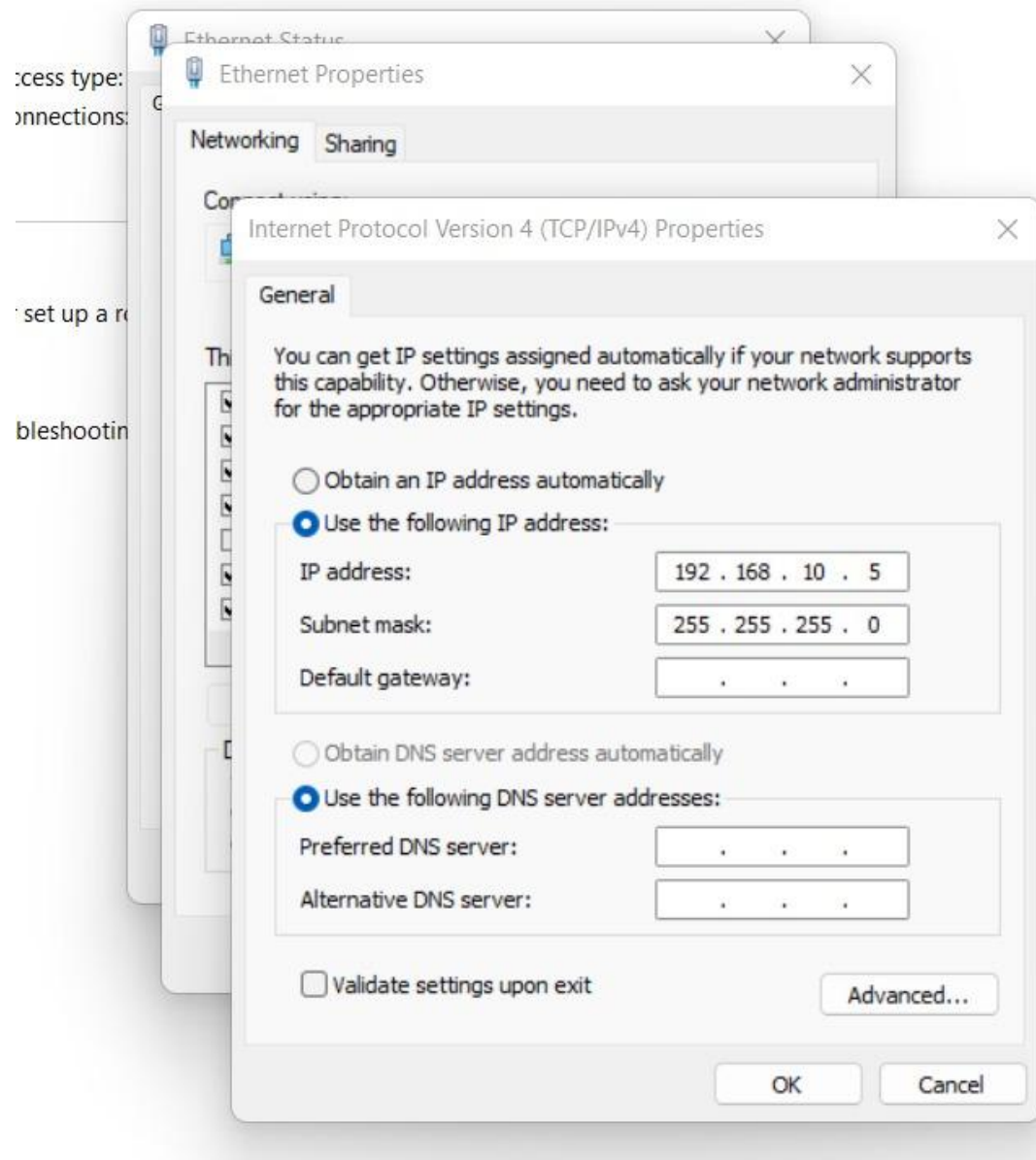
Step 3: Setup Static IP

1- Goto Control Panel->Network and Internet->Network and Sharing Center.
2- Then On the next window, you will see the active connections which should be Ethernet, since both PCs are connected with a physical LAN cable. Click on the Ethernet link. A new dialog box will open, here click on the Properties button.
3- In the next pop-up, select "Internet Protocol Version 4 (TCP/IPv4)". Now, click on Properties. This will open another dialogue box.
4- Here, you need to configure the two PCs with different IP settings. On computer 1, select the option "Use the following IP address." and, put the following values: IP Address: 192.168.10.10 Subnet mask: 225.225.225.0 Default gateway: empty Of course, it's not necessary you use these IP addresses. You can use any Class A or B IP address. In case you are not sure what this all means, better stick with this example. On the second computer, do similar steps, but flip the IP address and Default gateway values: IP address: 192.168.10.5 Subnet mask: 225.225.225.0 Default gateway: empty
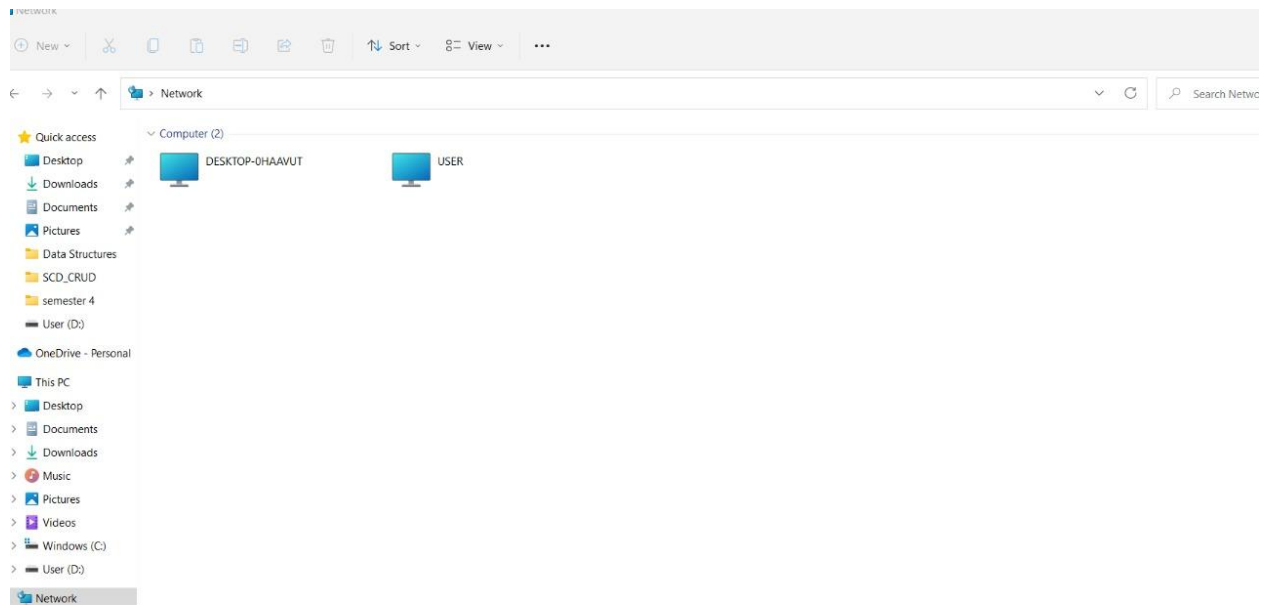
PC1:

PC2:

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Ethernet Properties

Networking Sharing

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Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically

● Use the following IP address:

IP address: 192 . 168 . 10 . 5

Subnet mask: 255 . 255 . 255 . 0

Default gateway: .   .   .

○ Obtain DNS server address automatically

● Use the following DNS server addresses:

Preferred DNS server: .   .   .

Alternative DNS server: .   .   .

☐ Validate settings upon exit   Advanced...
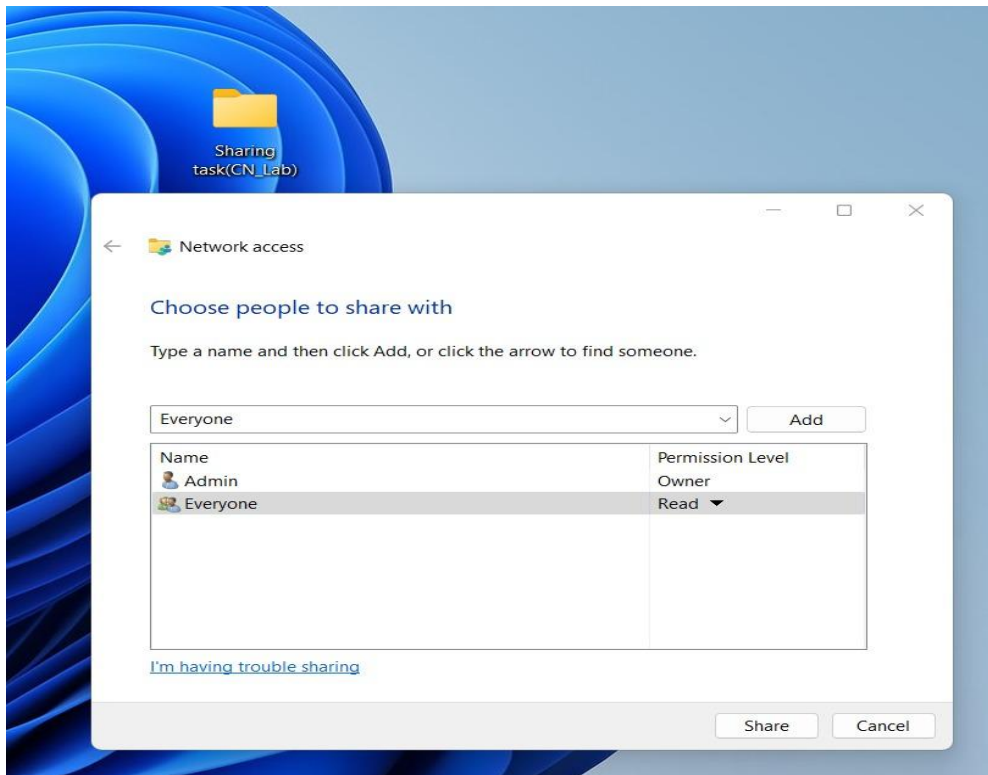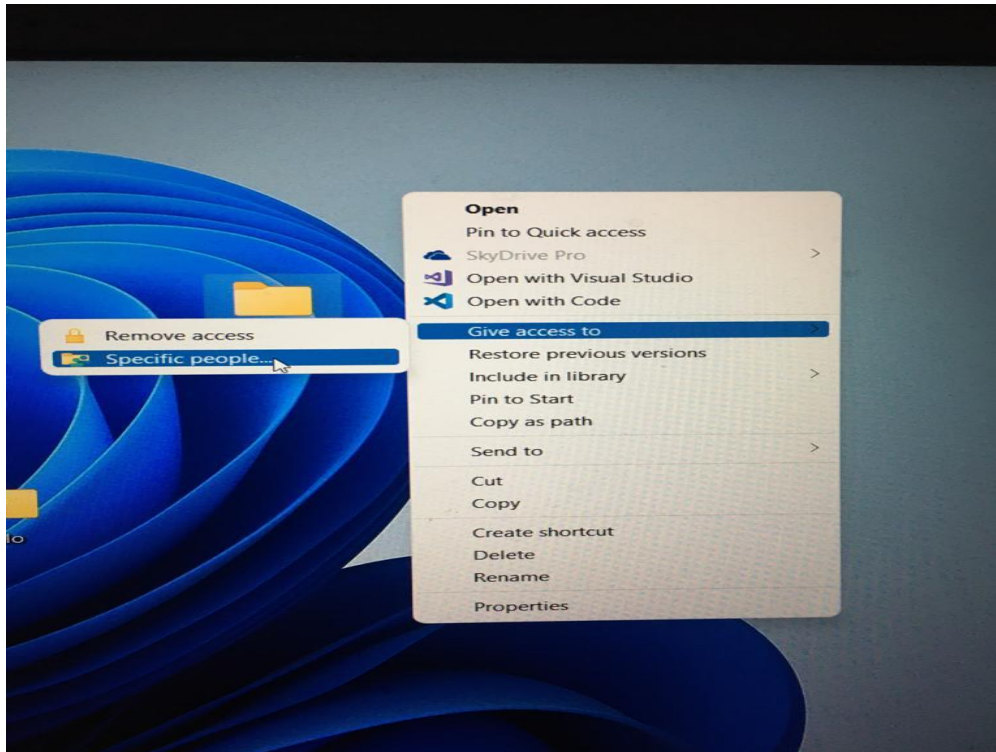
OK   Cancel

Step 4: Check Networks on PC's

Next, open your Window's File Explorer and click on Network tab at the left side of the window. You see two PC's on your computer.
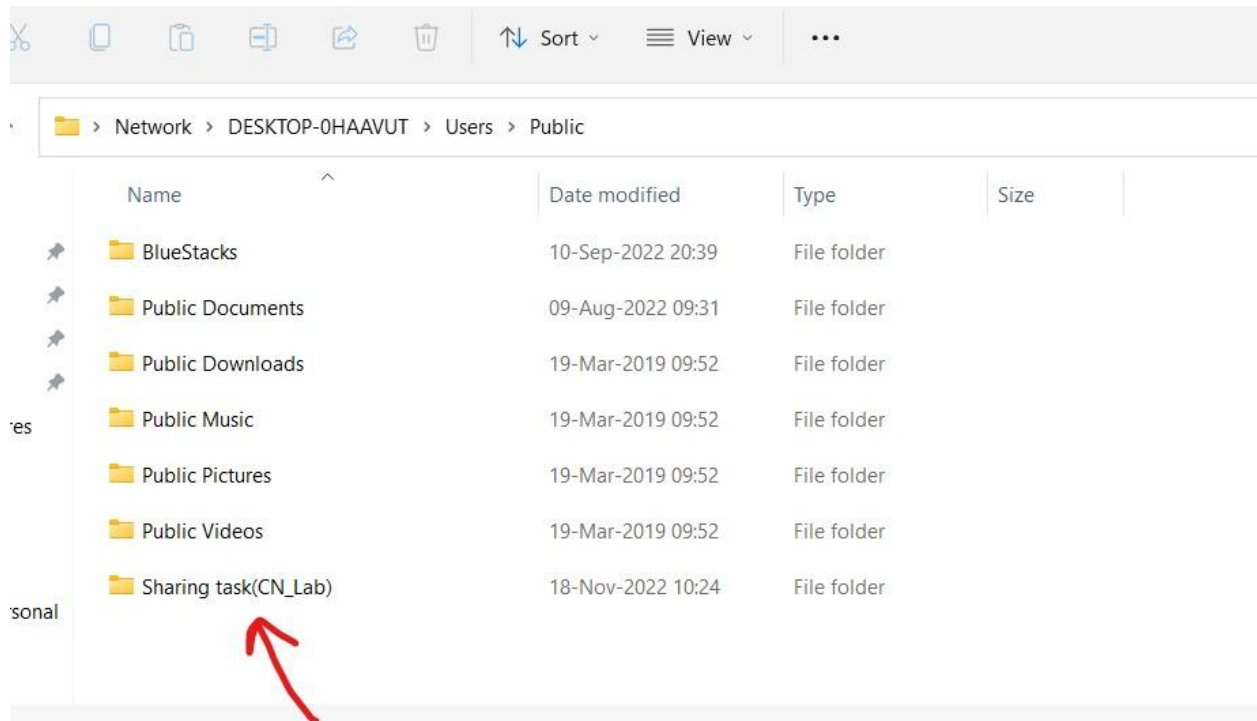

Step 5: Share a folder

1- Next, select the folder you want to share and right-click on it. From the context menu, navigate to "Give access to" and select the option "Specific People."
2- In the File Sharing window, choose Everyone from the drop-down menu. Click on the Add button next to it and finally hit the Share button.
3- Once you have shared it, the next window will show you the network location of the folder.
4- That's it. Just go back to the other PC from where you want to access the file, open the Networks panel and click on the other computer's name.
5- Here, you will see the folder you just shared. From there, just open the folder and transfer the files and folders as you normally do. i.e, by copy and paste. Similarly, you can repeat the same steps from the other computer.

PC1:

PC2: