

How to Configure Your PC to a Local Area Network

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This wikiHow teaches how to set up a LAN (Local Area Network) to connect multiple Windows PCs.

Method

1

Setting Up the LAN

1 Determine the number of computers you want to connect. The number of computers you're connecting will determine the type of network hardware you'll need.

- If you are connecting four or less computers, you'll just need a single router, or one switch if you don't need internet.
- If you're connecting more than four computers, you'll want a router and a switch, or just a switch if you don't need internet.

2 Determine your network layout. If your installing a permanent LAN solution, you'll want to keep cable length in mind. CAT5 Ethernet cables should not run longer than 250 feet. If you need to cover larger distances, you'll need switches at regular intervals, or you'll need to use CAT6 cables.

- You'll need one Ethernet cable for each computer you want to connect to the LAN, as well as an Ethernet cable to connect the router to the switch (if applicable).

- The easiest way to create a LAN where every computer has access to the internet is to use a router, and then add a network switch if the router doesn't have enough ports. A router will automatically assign an IP address to every computer that is connected to it.
- Switches are similar to routers but do not automatically assign IP addresses. Switches typically have many more Ethernet ports than a router has.

4 Connect your modem to the WAN port on the router. This port may be labeled "INTERNET" instead. This will provide internet access to every computer that is connected to your LAN.

- You can skip this if you're setting up a LAN without internet access.
- You don't need a router at all to create a LAN, but it makes things easier. If you just use a network switch, you'll need to manually assign IP addresses to each computer after connecting them.

5 Connect the switch to a LAN port on the router. If you're using a network switch to connect more computers, connect it to one of the LAN ports on the router. You can use any open port on the switch to make the connection. When connected, the router will provide IP addresses for every computer that is connected to either device.

Method

2

Connecting Your PC

1 Find the Ethernet port on your PC. You can usually find this on the back of your desktop tower, or along the side or back of a laptop.

- Slim laptops may not have an Ethernet port, in which case you'll need to either use a USB Ethernet adapter or connect wirelessly if your router allows it.

2 Plug one end of an Ethernet cable into your computer. Make sure you're using an Ethernet cable (RJ45), not a telephone cable (RJ11).

4 Test out your network (router only). If you're using a router, your work is complete. Once all of the computers are connected to a LAN port, they will be assigned IPs automatically and will appear on the network. If you set up your LAN for gaming, you should be able to start your LAN game and have each computer connect.

- If you're using a switch and no router, you'll still need to assign IP addresses to each computer.

5 Enable file and printer sharing. You won't be able to access resources on a networked computer until file and printer sharing is enabled. You can select specific files, folders, and drives to share on each computer, as well as share access to printers.

Method

3

Assigning IP Addresses (No Router)

1 Right-click on your network connection. You'll see this in your System Tray. If you are connecting your computers through a switch with no router, you'll need to assign each computer on the network its own individual IP address. This process is handled automatically if you're using a router.

- Think of an IP address as a mailing address. Each computer on the network needs a unique IP address so that information sent across the network reaches the correct destination.

2 Click Open Network and Sharing Center.

3 Click the Ethernet link at the top of the window. You'll see this next to "Connections."

4 Click Properties.

5

6 Click **Properties**.

7 Click the **Use the following IP address** radio button.

8 Type **192.168.1.50** into the IP address field.

9 Type **255.255.0.0** into the Subnet mask field.

10 Type **192.168.0.0** into the Default gateway field.

11 Click **OK**. This will save the settings for that computer. This computer is now configured on your network with a unique IP address.

12 Open the **Internet Protocol Version 4** properties on the next computer. Follow the steps above on the second computer to open the Internet Protocol Version 4 (TCP/IPv4) Properties window.

13 Click the **Use the following IP address** radio button.

14 Type **192.168.1.51** into the IP address field. Notice that the final group of numbers has incremented by 1.

15 Enter the same values for **Subnet mask** and **Default gateway**. These values should be the same as they were on the first computer (255.255.0.0 and 192.168.0.0 respectively).

16 Give each additional computer a unique IP. Repeat these steps for each additional computer, incrementing the IP address by 1 each time (up to 255). The "Subnet mask" and "Default gateway" fields should be the same on each computer.

Community Answer

Properly configure the IP of the printer, and connect it to your switch or router -- preferably a router (it will assign an IP that is compatible to your network). Make sure the port you are using is open.

Question

How can I recover my Wifi password?

Community Answer

Go to the help desk of your provider and enter your account details and they will help you recover it.

Question

What is the IP address?

Community Answer

A unique string of numbers separated by full stops that identifies each computer using the Internet Protocol to communicate over a network.

Question

My computer is connected to the internet by WiFi, but cannot pull up a site. What should I do?

Community Answer

Try rebooting your WiFi router and your computer. If that doesn't work, try contacting your ISP.

and router are working. What should I do?

Community Answer

Try resetting the modem/router.

Question

I have an intermittent connection with my television. How do I stabilize it?

Community Answer

Try using another cable or if you are using WiFi, try placing your router in a better location.

Question

How do I assign an IP address to my desktop?

Community Answer

The best way would be to set a static IP address on your router. Check the manufacturer's website for directions specific to your device. An alternative is to set a static IP through your OS. However, this can create network collisions if another PC on your network has the same IP address.

Question

How do I configure my PC to connect it to the network?

Community Answer

Either wireless or wired, make sure you have connected it to the network by your Ethernet cable or by wifi.. 1st. A router will automatically do configurations

to>rightclick>properties>ipv4 settings>static ip addressing. make sure the default gateway are the same on all pcs, and the subnet mask, then save and okay.

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