

Home networking steps

page 1 of 11

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1 **Install the NIC cards**

- 2 you will need a **HUB (or Router) and two cables**, for two computers, one additional cable for each additional computer or location.

HUB or Router?

HUB:

Note: here are some special instructions, in the event that you are **using a HUB** and not a Router.

Right click on Network Neighborhood, right click on TCP/IP properties to find the IP address choices, manual or automatic:

Look at the TCP/IP properties

Under "Use the following IP address"

Subnet Mask: first computer	10.0.0.1
Second computer	10.0.0.2
Default Gateway: on all PCs	255.255.0.0

HUB note: if this does not work, try the opposite. i.e. subnet mask 255.255.0.0; default gateway 10.0.0.1. I might have swapped these by mistake.

Router:

If you have **a Router**, then select "obtain an IP address automatically."

3 **run home networking**

or look at **NETWORK (in the control panel)** and make sure you have the following listed:

- a **Client for Microsoft Networks** - double click on it and make sure **"quick logon"** is the ONLY thing checked.

- b your **network card** (two of them if you have two computers)
If you are using a **Router**, you will probably only have one.
double click on the **network card icon**, click **bindings** -
must have : **"internet connection sharing"**

protocol

IPX/SPX (for peer to peer) compatible protocol, and
TCP/IP (Shared - for Internet)

- c **dial-up adapter**

- d **Internet connection sharing**

double click on the **Internet connection sharing icon**, and check for the same things as you checked for the network card

Home networking steps

page 2 of 11

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- e (3) (4 if you have two nic cards) **Internet connection sharing** (protocol) icons with the **NIC card, dial up adapter** and **Internet connection sharing**
 - f (3) **IPX/SPX compatible Protocol** icons with the same cards, etc as in "e" above
 - g (3) **TCP/IP icons** with the same cards, etc as in "e" above
 - h **File and printer sharing** for Microsoft Networks
 - l **The Network Name must be the same on all computers on the Network**
- 4 If you don't use **passwords**, select Windows Logon, for the "Primary Network Logon". If you use passwords, select **"Client for Microsoft Networks"** - Windows passwords

Home networking steps

page 3 of 11

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test the connection (Once you have everything setup)

On computer 1 (named: dell)

Click: **start**

type: **run**

type: [\\notebk](#) (where notebk is the name of another computer on the network) press return (enter).

If the remote computer shows up, with it's shared drives and directories, it works!

On computer 2 (named: notebk)

Click: **start**

type: **run**

type: [\\dell](#) (where dell is the name of another computer on the network) press return (enter).

If the the remote computer shows up, with it's shared drives and directories, it works!

Home networking steps

page 4 of 11

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Troubleshooting:

- 1 Change in **computer names**:
Sometimes when you are having issues with the network, a change in the names of the network computers might make the difference.
- 2 Network working and then for some reason it quit:
Start from scratch, remove all the sharing in MY Computer and My documents.
Do your installation, and then redo the sharing.

Home networking steps

page 5 of 11

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determine IP address

WINIPCFG

Click: **start**

type: **run**

type: **winipcfg**

gateway 192.168.1.1

[HTTP://192.168.1.1](http://192.168.1.1) to get to router

Home networking steps

page 6 of 11

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how to get rid of passwords:

start/search/for files or folders

*.PWL

Be careful not to delete passwords that you might need.

5 Click **File and Print sharing**. Check marks next to both "I want to be able to "give others access to my files" and ... "allow others to print to my printer(s)".

6 Click **Identification tab** at top of Network screen. Give the computer a **unique (short) name**.

Workgroup might be "**mshome**". Describe your computer, "Dell 4100 Me computer"

7 Click **Access Control** select "Share-level access control"

8 Repeat this process for each computer on the network

9 Now go to "**My computer**" and choose what you want to **share**, by right clicking on each drive and select sharing.

Shared as C: Comment "hard-drive", Full, assign a password.
Repeat this process with each computer.

10 If you want to share "MY DOCUMENTS" right click on it, properties, sharing, shared as, share name "my documents", FULL, password.

You can use different passwords or the same one throughout. Repeat this process on each computer.

11 Then go to Internet Explorer.

- a Tools/internet options/connections. Make sure nothing is checked (can be greyed out).
- b Click LAN setting - nothing should be checked here either.
- c Sharing - both should be checked "enable..." and "show icon..."
- d the connection that you use to access the internet is your NIC card
- e connect to my home network (if separate card) is another NIC card, or the same one if you are using a router
- f done

Home networking steps

page 7 of 11

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OTHER

Password: pals

IP address – how to determine

Click: **start**

type: **run**

winipcfg

192.168.1.1

IP address <http://192.168.1.1> to open up the linksys router.

SSID

MYOWNNETWORK

map each drive

on the network if you wish. Right click on the network drive and select MAP

network

DHCP setup

host name C1593076-a

domain name mshome.net

mac address 000103c4c25d

Home networking steps

page 8 of 11

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Checklist for creating a network: Steps for creating a home or small office network

This checklist is provided so you can successfully set up your home network using the [Network Setup Wizard](#).

The checklist is a guideline of the steps needed, in the order they should be completed. Once you complete a step, or if it does not apply to you, check it off and then go on to the next step.

Before doing each task in the checklist, it is suggested you read the [Home and small office networking overview](#).

Before starting to set up your home or small office network, print this checklist so you will have it handy while completing each step.

Step

Sketch out your network: draw a diagram of your house or office where each computer and printer is located. Or, you can create a table that lists the hardware on each computer.

Next to each computer, note the hardware, such as modems and network adapters, each computer has.

Choose your Internet Connection Sharing (ICS) host computer. It is recommended that this computer be running Windows XP Home Edition or Windows XP Professional and have a working Internet connection.

Determine the type of network adapters you need for your home or small office network: [Ethernet](#), home phonenumber network adapter (HPNA), wireless, or IEEE 1394.

Make a list of hardware you need to purchase. This includes modems, network adapters, [hubs](#), and cables.

Purchase the hardware. For a comprehensive list of hardware supported by Windows operating systems, see in Help and Support Center.

Home networking steps

page 9 of 11

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Install the network adapters and modems to create your network connections on each computer. See the manufacturers documentation.

Physically connect the computers together. Plug in the cables to hubs, phone jacks, and the computer.

Turn on all computers and printers.

Make sure your ICS host computer has an active Internet connection. To establish your Internet connection, run the New Connection Wizard.

[Internet Connection Sharing;](#)
[To make an Internet connection](#)

Run the Windows XP Professional [Network Setup Wizard overview](#) [Wizard](#) on the ICS host computer.

Run the Network Setup Wizard on the other computers on your network.

[Configure other computers on your network using a floppy disk](#)

Home networking steps

page 10 of 11

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Notes

- To start the Network Setup Wizard, click **Start**, click **Control Panel**, and then double-click **Network Connections**. Under **Common Tasks**, click **Network Setup Wizard**.
- If another computer using an earlier version of Windows has ICS activated, or there is another Internet sharing solution, disable ICS on this computer before activating ICS on Windows XP Home Edition or Windows XP Professional. For more information, see [Change the Internet Connection Sharing host computer](#).
- The Network Setup Wizard is only supported on computers using Windows 98, Windows 98 Second Edition, Windows Millennium Edition, Windows XP Home Edition, or Windows XP Professional.
- Windows Millennium Edition has a Home Networking Wizard. When joining this computer to the Windows network, make sure you run the Windows XP Professional Network Setup Wizard on the computer running Windows Millennium Edition.

Home networking steps

page 11 of 11

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Computer name and description overview

A computer name identifies your computer on the network. To participate in the network, each computer must have a unique name. If two computers have the same name, it creates a conflict for network communications. When choosing a computer name, it is suggested you keep it short and simple, such as *family* or *den*.

Some Internet service providers (ISPs) require that you use a specific computer name. The computer name identifies the computer to the ISP's network and is used to validate your Internet account. Check with your ISP to see if they require a specific computer name. If so, do not change the computer name provided by your ISP.

The computer name is limited to fifteen characters and cannot contain spaces or any of the following special characters:

; : " < > * + = \ | ? ,

The computer description is a short explanation of the computer. For example, if you have a computer in your family room, the description could be "family room computer." If your network is a combination of Windows operating systems, such as Windows XP, Windows Millennium Edition, and Windows 98, the computer description is only displayed on Windows XP.