Guide to Setting up Internet Connection Sharing for Windows

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INTRODUCTION

You've setup a small network at home or in the office and would like to get the most out of your equipment. One way you can achieve this objective is to share your internet connection using Internet Connection Sharing for Windows (ICS). This functionality not only reduces the number of telephone lines or modems required but also does away with the need to install separate proxy server software. So, let's get started...

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Installation of Internet Connection Sharing and Configuration

The First step to setting up ICS is to configure the Host, i.e. the computer with the Internet connection that will be share, all the Other Computer's in the network need to be configured as Clients which will explain in next sub title.

Host Configuration on Windows XP / Windows Server 2003

a. Double click on the Network and Dial up connections icon in Control Panel or right click on the My Network Places desktop icon and select Properties.



b. Here, you should have at least two connections listed: one for your internet connection, and one for your Local area connection.



- c. Right click on the entry corresponding to your **Local Area Connection**, and select properties.
- d. Among the installed components listed in the general tab the following should be checked here.
 - Client for Microsoft Networks
 - Internet Protocol (TCP/IP)

	-
Local Area Connection Properties	
General Authentication Advanced	1
Connect using:	
Bealtek RTL8139 Family PCI Fast Ethernet NIC	
J	
Connection assister following items	Client for Microsoft Networks
Gos Packet Scheduler	
Theref Protocol (TCP/IP)	Internet Protocol (TCP/IP).
Install Uninstall Properties	
Description	
Allow's your computer to access resources on a Microsoft network.	
Show icon in notification area when connected	
OK Cancel	

e. If there are extra entries just ignore them and click "**OK**" button.

f. Now right click on the entry corresponding to your **Internet Connection**, and select properties



g. Go to the "Advanced tab" and choose "Internet Connection Sharing" option, and turn on the enable Internet Connection sharing for this Connection option.



h. Click on "OK"

 You will get IP address changing indication message like shown below, click on yes, and change the IP address manually to your previous static IP (Note down your Previous IP address before doing the last step).

	<u>Eile E</u> dit <u>V</u> iew	🖌 vsnl2 Properties 🙎 🕺	
	🕤 Back 🔻 🌖 🝷	General Options Security Networking Advanced	
	Address 🔕 Netwo	Windows Firewall	
	Dial-up	Help protect my computer and network by <u>Settings</u>	
	vsni2		
	Discor Gener	Internet Connection Sharing	
Net	work Connections	<u>></u>	×
	When Interna computer ma addresses, y Internet Con	et Connection Sharing is enabled, your LAN adapter will be set to use IP address 192.168.0.1. Your y lose connectivity with other computers on your network. If these other computers have static IP ou should set them to obtain their IP addresses automatically. Are you sure you want to enable hection Sharing?	
	New C	Settings	

j. You can change your IP by right clicking on My networking place icon in Desktop and select properties, then right click on Local area connection and select properties, go to Networking tab, select Internet Protocol TCP/IP, click on Properties and enter the IP address, click on ok., Now Your Server side configuration is completed.

Host Configuration on Windows 2000

Note: Repeat the first 4 steps i.e. (step from "a" to "e") from the above Procedures, which is same in Windows XP, Windows 2003 and Windows 2000 Operating systems. The only discrepancy lies in the Internet Connection Properties which we brief down here for your information.

- *1*. Right click on the entry corresponding to your **Internet Connection**, and select properties.
- 2. Go to the "Sharing" tab and select "Enable Internet Connection sharing for this connection" option. Then click on "OK"

Dial-up Connection Properties	<u>?×</u>	
General Options Security Networking	Sharing	
Internet Connection Sharing allows	other computers on your cources through this	
Shared access		
Local network operation may be momenta	arily disrunted	
Enable Internet Connection Sharing fo	or this connection	Shared Access
Con-demand dialing		
With on-demand dialing, when another co network attempts to access external reso will be dialed automatically.	omputer on your local urces, this connection	
Enable on-demand dialing		
	Settings	
	OK Cancel	

You will be prompted with a window like the following one; there you have to click on "Yes", it will change your Local area IP address to "192.168.0.1"

Change your IP address back to the previous one manually likewise that we have done in the "Host Configuration on Windows XP / Windows Server 2003"

Now your server side settings are complete.



Client Configuration

a. There is no need to change the IP address in the Client Machine's, what you have to do is right click on My networking place icon in Desktop and select properties or Double click on the Network and Dial up connections icon in Control Panel, then right click on Local area connection and select properties,



b. Select **Internet Protocol TCP/IP**, click on Properties.

🚣 Local Area Connection Properties	<u>? ×</u>
General Authentication Advanced	
Connect using:	
B Realtek RTL8139 Family PCI Fast Ethernet NIC	
<u>C</u> onfigure.	
This connection uses the following items:	
Client for Microsoft Networks File and Printer Sharing for Microsoft Networks One Recket Scheduler	
Internet Protocol (TCP/IP)	nternet Protocol TCP/IP
Install Uninstall Properties	
Description	
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	t
Show icon in notification area when connected	
OK Car	incel

c. Enter the ICS Server IP address as default gateway and select use the following DNS Server address, enter the default gateway address in the Preferred DNS server tab also.

nternet Protocol (TCP/IP) Propertie	25	<u>?</u> ×	
General			
You can get IP settings assigned autor this capability. Otherwise, you need to the appropriate IP settings.	natically if your network supports ask your network administrator fo	r	
O <u>O</u> btain an IP address automatica	lly		
🕞 🕒 Use the following IP address: —		- 11	
<u>I</u> P address:	1 . 0 . 0 . 130		
S <u>u</u> bnet mask:	222 . 222 . 222 . 0		
Default gateway:	1.0.0.130		Type ICS Server IP address
O Obtain DNS server address autor	matically		
 □ Use the following DNS server ad	dresses:	_	
Preferred DNS server:	<u> </u>		Type ICS Server IP address
<u>A</u> lternate DNS server:			
	Ad <u>v</u> anced.		
	OK Can	cel	

d. Right click Internet explore on desktop select **properties**, go to **connections** tab, click on **LAN settings** button,

ernet Options	? ×
eneral Security Privacy Content Connections Programs A	Advanced
To set up an Internet connection, click Setup.	
Dial-up and Virtual Private Network settings	
MTNL_Unlimited Add	
Tata Indicom Wireless Service	/e
Choose Settings if you need to configure a proxy Settings	s
Never dial a connection	
Dial whenever a network connection is not present	
C Always dial my default connection	
Current None Set Defe	ault
– Local Area Network (LAN) settings	
LAN Settings do not apply to dial-up connections.	ngs LAN Setting Butto
choose bearings above for dial-up settings.	
OK Cancel	Apply

e. Make sure that **"Automatically detect settings"** is selected, click on ok...Try Browsing on Client machine.

Local Area Network (LAN) Settings	
Automatic configuration Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration	
Automatically detect settings	ect settings
Use automatic configuration script Address	
Proxy server Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).	
Address: 10.0.0.11 Port: 8080 Advanged	
OK Cancel	

Congratulations! Internet Connection sharing is now setup on your network you can now establish the connection on the host PC and use it on your network.