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Share wireless Internet connection through ethernet

I want to share the wireless Internet connection on my desktop with my old laptop, through ethernet.

I have ticked the option "Make available to others" on both connections, on my desktop, but my laptop doesn't connect. Am I doing something wrong or is it a bug?

wireless ethernet connection-sharing

edited May 24 '14 at 13:22



Eric Carvalho

23.6k 14 59 92

asked Oct 16 '13 at 14:07



Christos Baziotis

517 3 8 14

Before checking software configurations... how are you connecting the two PCs? If directly, you need a crossed cable (do they exist anymore?). See en.wikipedia.org/wiki/Ethernet_crossover_cable. Otherwise you'll need at least a bridge... – [Rmano](#) Oct 16 '13 at 15:52

I have done the exact same thing on 12.04 before. I am thinking there is a problem with network manager since i have Gnome 3.10 and it got updated today. – [Christos Baziotis](#) Oct 16 '13 at 18:03

3 @Rmano: According to that article, modern Ethernet hardware auto-negotiates so crossover cables are not needed. I've also done this before with ordinary Ethernet cables. – [Mechanical snail](#) Oct 30 '13 at 1:25

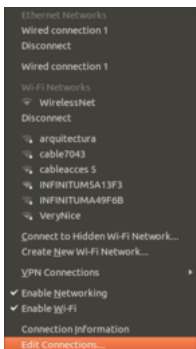
@Mechanical snail: thanks, I didn't noticed that. So I suppose I can dispose my precious manually connected cross-over cable :-). – [Rmano](#) Oct 30 '13 at 15:37

possible duplicate of [Share Wireless connection with Wired Ethernet Port](#) – [bcbc](#) Nov 29 '14 at 21:51

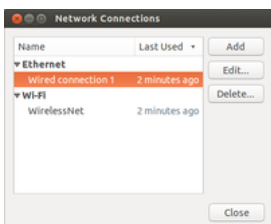
1 Answer

In the server computer:

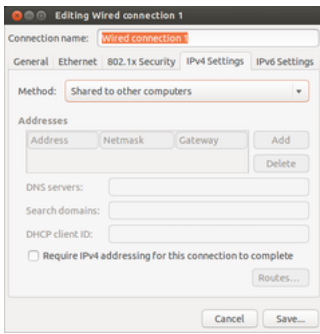
1. On the computer connected to the Internet, click the network icon in the panel and go to "Edit Connections..." at the bottom of the menu.



2. Double click your **Wired Connection** (Leave your wireless connection untouched, the one connected to Internet and the one you want to share, as I understand)



3. In the "IPv4 Settings tab", select Method: "Shared to other computers"



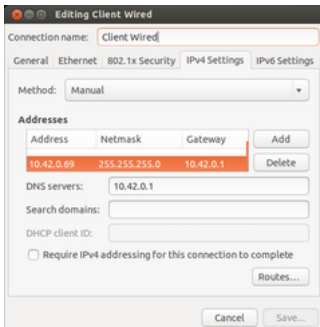
4. Reconnect clicking on the *Wired Network* so it gets its new IP address. (The two computers must be connected by an ethernet cable for this step, so connect them now if you have not already.)

5. Click on *"Connection Information"* in the network menu and write down the IP address and network mask (in my case it was assigned 10.42.0.1/255.255.255.0 but I do not know if that will always be the case)



In the client computer:

6. Go to "Edit Connections..." and assign a "Manual" Method. Assign an IP address in the same subnetwork (10.42.0.69 for example) and put the IP and network mask you wrote down in "Netmask" "Gateway" and "DNS servers"



7. Reconnect to the network to let the new settings be assigned.

8. Pat yourself in the back and surf away!!!

edited Sep 22 '15 at 23:22



ntc2
167 6

answered Oct 30 '13 at 1:15



SuperMau
503 3 7

5 The first 4 steps were enough in my case (Ubuntu 14.04). What is wrong with the automatic assignment (DHCP)? Why are you manually reassigning it? – [toto_tico](#) Dec 6 '14 at 22:54

If i try to put wired and wifi network in same network, and configure wired network with manual it will it work? – [Ankur Loriya](#) Jan 10 '15 at 17:39

How to do the same, but using DHCP on the client? – [dolmen](#) Apr 16 '15 at 12:43

1 This should be marked as the correct answer! :) – [jackyalcine](#) Sep 20 '15 at 18:36

1 I've done this dozens of times. Just use auto instead of manually assigning it on the non-server computer and don't forget to leave ports 67, 68, 52 and 53 open for dhcp and dns access. Also, don't forget that ufw blocks incoming, so you will have to either disable it on the server computer or set the rules accordingly. – [mchid](#) Sep 23 '15 at 0:10

protected by **Community** ♦ Jun 6 '15 at 4:06

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