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## Cascading a Router With Another Router

Cascading routers in essence changes the entire layout of your network. This should only be done in a few rare cases (if you have a specialty router that was given to you by your job or 3rd party company. Once this is setup there will be many limitations to your browsing experience. Please see the bottom of this document for other alternatives and details.

The first thing to do is make sure the specialty router is the one connected to the modem. Consider the Linksys Wireless router as the second router. We need to make an adjustment to the second router so that it does not conflict with the first router.

There are 3 steps to cascade two routers:

1. Changing the Local IP Address Of the Second Router
2. Connecting the Routers Together
3. Rebooting the computer(s)

To begin cascading routers together, please follow the instructions below.


### Changing the Local IP Address of the Second Router:

#### Step 1:

Make sure there is nothing connected to this router except power and a WIRED computer at port 4 of the router (at this time we do not want the modem or the other router interfering with the following steps). Hold the reset button on the SECOND (new) router for 30 seconds, then unplug the power for 10 seconds and plug it back in.

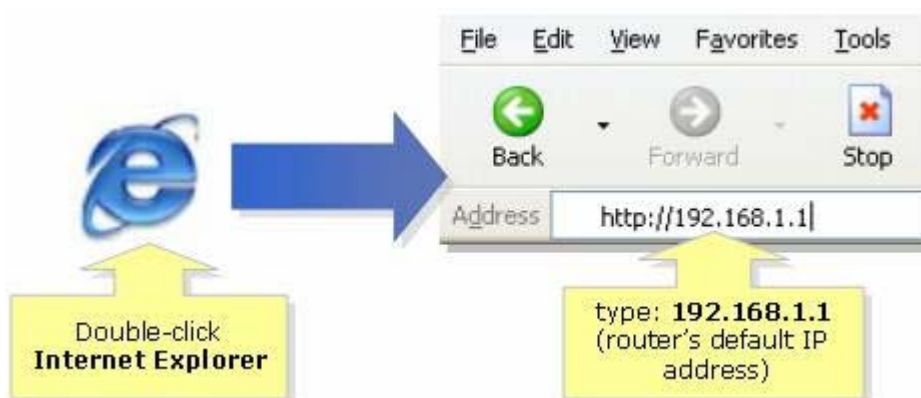
#### Step 2:

Make sure that the router is not connected to anything besides power and a wired computer. Open a

web browser such as **Internet Explorer**  (don't worry that the modem is not connected. Simply wait until it tells you, "The page can not be displayed" or "Action canceled").

#### Step 3:

Go to the **Address** bar and enter your router's IP Address (**192.168.1.1** is the default IP of most Linksys routers) then press the **[Enter]** key.



**Step 4:**

A new window will appear and ask for a "User name" and "Password." Leave the **User name** space blank, type in your router's password (**admin** is the default password), then click **OK**.

**Step 5:**

When the router's web-based setup page appears, click the **Status** tab.

**Step 6:**

Check the value of the Internet **IP Address** at the bottom.

**step 7:**

If the IP Address does not have the same first three numbers as the router's IP address, this means that the router is now cascaded to the other router.

**Step 8:**

Look for "Local IP Address" here on the SETUP tab and change it to **192.168.2.1**. Ignore the rest of the settings on this page.

Automatic Configuration - DHCP ▾

Router Name :

Host Name :

Domain Name :

MTU : Auto ▾

Size :

Local IP Address :  .  .  .

Subnet Mask :  ▾

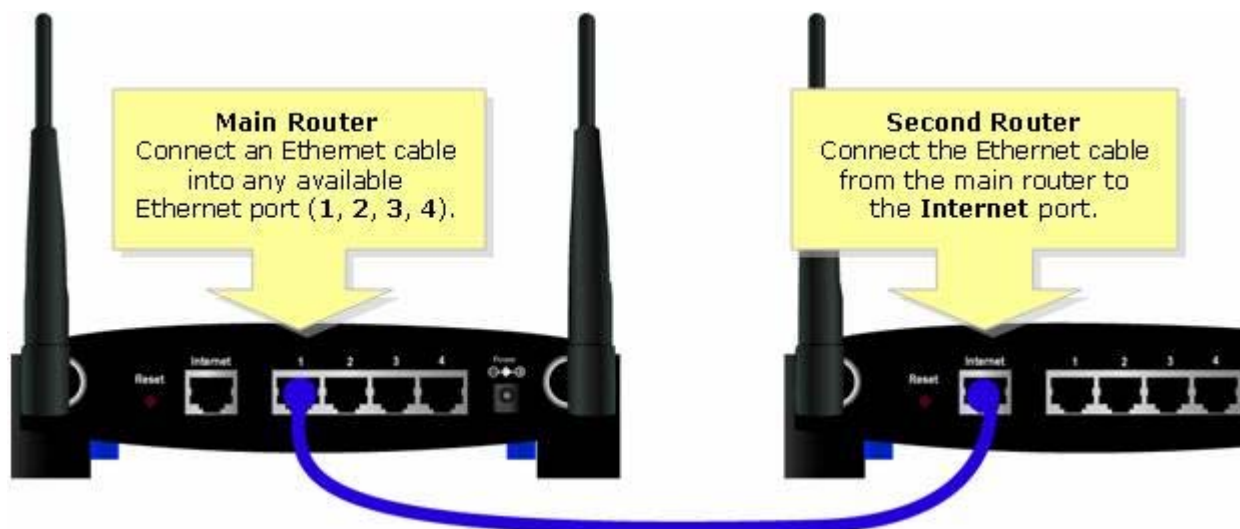
Change this to  
**192.168.2.1**

**Step 9:**

Click . The screen will state "Settings are Successful". We do not have to wait any further. Simply close this Internet Explorer window and move on to the next step. (If you wait for this screen to come back, it will state "Page Can Not Be Displayed". Please close the window at this time).

**Connecting the Routers Together:****Step 1:**

Connect any of the available Ethernet ports (1, 2, 3, 4) of the first router (main) to the **Internet** port of the second router.

**Step 2:**

Unplug the power on the SECOND router and plug it back it.

**Step3:**

Please connect ALL hard-wired computers to the second router from now on. Only the second router and the modem should be connected to the FIRST (specialty) router. (If you connect computers to the FIRST router, you will get internet access but you will not be able to talk to the other computers on the network.

**Step4:**

Reboot all the computers at this time.

You have now successfully cascaded two routers together.

Better alternatives and details about cascading routers

1. If you have a router and simply need to add more computers please purchase a Linksys switch. They are simple devices with NO configuration whatsoever. Think of it as a splitter. You plug a cable into one of the numbered ports on your current router and the other end into the switch, giving you will anywhere from 4 to 24 extra ports for computers.
2. If you already have a router and you want to add wireless to the network, either replace the old router with a wireless router or simply ADD Linksys Wireless Access Point to the router you own. Again, this is a simple installation and does not change the overall dynamics of your network.

One reason to cascade routers is if you have a specialty router (Voice router from a phone company, a router your job issued to you, a VPN router with no wireless capabilities) and need to add another capability that that one will not handle (example – you already own a Linksys wireless router and Vonage sent you a Voice router but it has no wireless capabilities).

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