

Re: Trying to assemble home LAN with 4 routers, need help with subnets!

Re: Trying to assemble home LAN with 4 routers, need help with subnets!

Source:

http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.network_web/2005-07/msg01707.html

- *From:* Chuck <none@xxxxxxxxxxx>
 - *Date:* 26 Jul 2005 00:52:02 -0500
-

On Mon, 25 Jul 2005 23:20:14 -0600, "Chris Shearer Cooper" <chrisnews@xxxxxxx> wrote:

>"Chuck" <none@xxxxxxxxxxx> wrote in message
>news:jfebe1p7ob4sff1k3mi5romjlp5fo01cm@xxxxxxxxxxx
>> On Mon, 25 Jul 2005 22:13:07 -0600, "Chris Shearer Cooper"
>> <chrisnews@xxxxxxx>
>> wrote:
>>
>>>"Chuck" <none@xxxxxxxxxxx> wrote in message
>>>news:u38be115gql7j4md1fpv321av94vid5s5r@xxxxxxxxxxx
>>>> On Mon, 25 Jul 2005 20:09:09 -0600, "Chris Shearer Cooper"
>>>> <chrisnews@xxxxxxx>
>>>> wrote:
>>>>
>>>>>First let me describe the situation ... first comes a DSL router, then a
>>>>>router that does my VoIP, then a router that does my firewall and VPN,
>>>>>then
>>>>>a wireless router. What a pain.
>>>>>
>>>>>I've gotten pretty good at getting things to basically function, but I
>>>>>don't
>>>>>know enough to get things to work like I really want.
>>>>>
>>>>>For example – the wireless router plugs into one of the ports on the
>>>>>firewall/VPN router. Right now, I've got the firewall/VPN router set to
>>>>>a
>>>>>subnet of 192.168.2.*, and the wireless router set to a subnet of
>>>>>192.168.3.*. I used to have the wireless router set to "gateway" mode,
>>>>>which meant that my laptop (on the wireless router) was able to use a
>>>>>printer on my main computer (on the firewall/VPN router). However, some
>>>>>of
>>>>>the multi-player games my son and I like to play didn't function
>>>>>properly
>>>>>in
>>>>>that mode, so I tried setting the wireless router to "router" mode (it
>>>>>recommended that anyway) and it didn't help the multi-player games, and

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>>>>>now
>>>>>the laptop can't share the printer.
>>>>>
>>>>>Do folks have recommendations about where I can go to learn more about
>>>>>how
>>>>>routers differ from gateways, how to get subnets working properly, what
>>>>>Windows needs to have file/printer sharing work, what multi-player games
>>>>>require of their network, that sort of thing?
>>>>>
>>>>>Thanks!
>>>>>Chris
>>>>>
>>>>> Chris,
>>>>>
>>>>> I'm not really clear how the "DSL router" and the VOIP router are setup.
>>>>> Do you
>>>>> mean that the 4 routers are connected in series?
>>>>> Internet <=> DSL router <=> VOIP router <=> firewall / VPN <=> wireless
>>>>> or is it more complicated?
>>>>>
>>>>> Is the only problem between the firewall and wireless routers? That's
>>>>> an
>>>>> easy
>>>>> one to fix. Use the wireless router as a WAP.
>>>>> <<http://nitecruZR.blogspot.com/2005/06/file-sharing-on-lan-with-two-routers.html>>
>>>>>
>>>>> If that's not it, please repost, and provide more detail as to what
>>>>> connects to
>>>>> what.
>>
>>>>>You are correct that currently, all 4 routers are connected in series.
>>>>>
>>>>>I don't see any setting on the router for WAP (it's a LinkSys WRT54GS) but
>>>>>it's got an "Operating Mode" I can switch between Router and Gateway; I'm
>>>>>thinking that Gateway might be the equivalent of WAP, it lets the laptop
>>>>>(on
>>>>>the wireless router) see a shared drive on the desktop (on the
>>>>>firewall/VPN
>>>>>router).
>>>>>
>>>>>What's strange in this setup, is that the laptop can ping the desktop but
>>>>>not vice-versa. I set up some static routing in the VPN/Firewall router
>>>>>that directs 192.168.3.* via gateway 192.168.2.139 (which is the static IP
>>>>>of the wireless router in the VPN/Firewall router's subnet) but that
>>>>>doesn't
>>>>>help. What can I look into, to find out why that is?
>>>>>
>>>>>See if I can draw this with ASCII characters ...
>>>>>
>>>>>(Internet IP)
>>>>>DSL modem

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>>>11.0.0.1
>>>|
>>>11.0.0.5
>>>VoIP router
>>>192.168.14.1
>>>|
>>>192.168.14.2
>>>VPN/firewall router
>>>192.168.2.1 ----- 192.168.2.160 desktop
>>>|
>>>192.168.2.139
>>>Wireless router
>>>192.168.3.1 ----- 192.168.3.5 laptop
>>
>> Chris,
>>
>> OK, your layout is approximately what I was thinking. And the DSL device
>> is a
>> MODEM not a ROUTER. Thank you.
>>
>> The relationship between the laptop and the desktop pingging is not
>> strange –
>> it's what you should expect.
>>
>> Don't waste time looking for a WAP setting on the router, read the article
>> which
>> I listed previously. It was written for precisely this situation. The
>> article
>> explains how to use the wireless router as a WAP.

>Aha! I read the article more closely and voila! I have one nice little
>subnet instead of two. Very clever. Thanks for the advice!
>
>Actually, the DSL modem is a Cisco 678 so it's got routing capabilities. It
>was a real pain getting Remote Desktop working into the desktop, I had to
>set up port forwarding on 3 different routers ...
>
>So the only issue remaining, and maybe it's hopeless ... when we play
>Galactic Battlegrounds, I have to host on the desktop; if the laptop hosts,
>the desktop can't find the game. I suspect it's related to the ping issue.
>It makes sense; the firewall/VPN router doesn't know that the laptop exists
>on the far side of the wireless router ... I was thinking about setting up
>some port forwarding to get through the wireless router to the laptop, but
>the only way I know to do port forwarding is to a static IP, and I don't
>want to assign the laptop a static IP because I unplug it and take it to
>work with me. Is there a way to do port forwarding in this situation? Or
>is this what UPnP forwarding was designed for?
>
>Thanks!
>Chris

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Chris,

Glad to help some. But maybe I'm not understanding what your problem is now.

So you setup the wireless router as a WAP now? Is the desktop still having a problem locating the laptop? Even with everything on the same subnet?

Port forwarding doesn't work with dynamic LANs. You're right, you would have to use a static address on the laptop. But why is this even a concern, if you have both computers on the same subnet?

Will the DSL modem / router work in bridge mode? Any reason why you wouldn't want to make it into just a modem?

--

Cheers,

Chuck, MS-MVP [Windows - Networking]

<http://nitecruZR.blogspot.com/>

Paranoia is not a problem, when it's a normal response from experience.

My email is AT DOT

actual address pchuck mvps org.

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• ***Follow-Ups:***

- ◆ ***Re: Trying to assemble home LAN with 4 routers, need help with subnets!***
◇ From: McSpreader

• ***References:***

- ◆ ***Trying to assemble home LAN with 4 routers, need help with subnets!***
◇ From: Chris Shearer Cooper
- ◆ ***Re: Trying to assemble home LAN with 4 routers, need help with subnets!***
◇ From: Chuck
- ◆ ***Re: Trying to assemble home LAN with 4 routers, need help with subnets!***
◇ From: Chris Shearer Cooper
- ◆ ***Re: Trying to assemble home LAN with 4 routers, need help with subnets!***
◇ From: Chuck
- ◆ ***Re: Trying to assemble home LAN with 4 routers, need help with subnets!***
◇ From: Chris Shearer Cooper

• Prev by Date: ***SOHO peer file & print sharing***

• Next by Date: ***Re: Access problem restrictanonymous=0 didn't work***

• Previous by thread: ***Re: Trying to assemble home LAN with 4 routers, need help with subnets!***

• Next by thread: ***Re: Trying to assemble home LAN with 4 routers, need help with subnets!***

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- ◆ ***Date***
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