

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

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Source:

http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.network_web/2005-07/msg01724.html

- *From:* McSpreader <invalid@xxxxxxxxxxx>
 - *Date:* Tue, 26 Jul 2005 07:44:59 GMT
-

Chuck <none@xxxxxxxxxxx> wrote in
news:hbjbe1te8l4ffm8qf1bs98dmheduf9k1t1@xxxxxxxx:

> On Mon, 25 Jul 2005 23:20:14 -0600, "Chris Shearer Cooper"
> <chrisnews@xxxxxxx> wrote:
>
>> "Chuck" <none@xxxxxxxxxxx> wrote in message
>> news:jfebe1p7ob4sff1k3mi5romjpls5fo01cm@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

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>>>>>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 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-wi-th-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

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>>>>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
>>>>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 pinging 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

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>>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

>

> 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?

>

The OP could replace the 4 devices with one that is fit for
purpose, and eBay the rest, and avoid the unnecessary complexity.

.

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

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• Next by Date: **[networking bet win98 and xp](#)**

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