

# Re: Multiple IP Schemes for Different Buildings

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*Source:*

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.general/2007-08/msg00209.html>

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- *From:* Tom <[Tom@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:Tom@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Mon, 6 Aug 2007 20:32:16 -0700
- 

As of right now I have a linksys router on both ends and no hardware firewall. Can I use just one router and have it feed both networks?

"Anthony" wrote:

Here's a couple of link on Trusts.

[http://www.microsoft.com/windowsserver2003/community/centers/security/security\\_faq.msp](http://www.microsoft.com/windowsserver2003/community/centers/security/security_faq.msp)

<http://technet2.microsoft.com/windowsserver/en/library/1fa50f2f-52b2-4985-84aa-4fb95486828c1033.mspx>

DHCP broadcast is on the local subnet only, unless you specifically forward it on the switch or router, so they won't interfere.

The second site needs a router to act as the subnet's gateway. You need that router to forward internet traffic to your firewall. It would have a line in the config like ip route 0.0.0.0 0.0.0.0 [meaning anything that does not have a specific route elsewhere] 192.168.1.1 [your firewall]. The second site can't use the firewall directly as a gateway, because clients have no way to get to it except through a router.

255.255.255.0 is the "mask". It tells you that you only need to look at the end octet to identify the device. 192.168.x.0 address ranges generally have that mask.

As your two sites have (presumably) been working fine up to now, you just need to have a router on the second site with two ethernet interfaces, connected to both networks, and forward everything it doesn't know about to the firewall on the first site.

Hope that helps,

Anthony

<http://www.airdesk.co.uk>

## Re: Multiple IP Schemes for Different Buildings

"Tom" <Tom@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
news:DDEC7AC7-38F3-4167-9EAC-06BA942250B2@xxxxxxxxxxxxxxxxxxxx

Thanks for the info.

We would like to keep separate AD domains for now since we have a lot of software that would need to be changed if we reduce to one.

Can you send me a link on how to setup a two way trust?

If each server has it's own DHCP server then I don't need to worry about a client in one building getting an IP from the wrong server?

We currently have a linksys router that will share the internet for both buildings. Can setup both DHCP servers to point their default gateways to the same router?

Our current DHCP servers are using the same subnet: 255.255.255.0 , but the

IP ranges are different: 192.168.1.x & 192.168.2.x. Should I change that?

Any links would be greatly helpful. I sure appreciate you taking the time to answer.

Thanks,

Tom

"Anthony" wrote:

Tom,

1) If you don't need separate AD domains you can consider reducing them

down

to one

2) For now, you could just set up a two way trust

3) Ideally you would want at least two DC's for a domain anyway

4) This has no bearing on DHCP

5) Sharing an internet connection is just a routing matter. It does not

affect domains or DHCP

6) As you have a server in each subnet, you can just leave it at that.

Each

server can run DHCP for its own subnet.

7) If you ever wanted to, you can run more than one subnet on one DHCP

server. You use an ip-helper address to forward requests from each subnet

to

the DHCP, where it answers with the relevant scope.

Hope that helps,

Anthony

<http://www.airdesk.co.uk>

Re: Multiple IP Schemes for Different Buildings

"Tom" <Tom@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
news:47E65682-14A6-4C1F-AFB2-38AE80435474@xxxxxxxxxxxxxxxxxxxx

Thanks for the response Anthony. Sorry I didn't explain it better.  
The problem is I have 2 primary domain controllers on the same network. They were separate networks, but once they were connected with the T1 they now are sharing the same Internet connection. They server different domains.  
Ex. example.com and example1.com. The each are running their own DHCP server with different IP addressing Ex. 192.168.1.x and 192.168.2.x. We have to many machines to have just one scope. So should I make one of the servers a secondary domain controller and join the domains?  
Thanks,  
Tom

"Anthony" wrote:

Tom,  
Not sure if I understand the question correctly.  
A DHCP server can serve more than one scope. On the "other" subnet from the server you need to add an ip-helper address or some other way of forwarding the DHCP request from the client. This is normal practice when splitting

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a  
LAN into VLANS.  
You can also have more  
than one DHCP server  
serving a subnet, but they  
can't  
have the same range of  
addresses to give out. You  
need to use  
exclusions  
to  
keep different ranges on  
different servers. There is no  
way in MS to  
share  
the DHCP database of  
leases.  
Hope that helps,  
Anthony –  
<http://www.airdesk.co.uk>

"Tom"  
<Tom@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>  
wrote in message  
[news:5A284B9F-0D1D-40DE-A879-5D2C7AC915C8@xxxxxxxxxxxxxxxxxxxx](mailto:news:5A284B9F-0D1D-40DE-A879-5D2C7AC915C8@xxxxxxxxxxxxxxxxxxxx)

Hello,  
I currently  
have 2  
office  
buildings  
each with  
their own dc  
and dhcp  
servers.  
However,  
we are  
going to  
connect the  
2 buildings  
for internet  
purposes,  
but  
need to  
maintain the  
separate IP  
scopes.  
How can I

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have both  
dhcp  
servers  
running and  
have them  
only give a  
certain  
range of IPs  
for each  
building.

Ex.

Building

one uses

192.168.1.x

Building

two uses

192.168.2.x

Thanks for

the help.

Tom