

Re: Help With DNS Through VPN

Source: <http://www.tech-archive.net/Archive/ISA/microsoft.public.isa/2005-12/msg00093.html>

- *From:* "ZVR" <nospamever@xxxxxx>
 - *Date:* Tue, 6 Dec 2005 22:15:30 -0500
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"Bill" <billyg1943@xxxxxxxxxxxx> wrote in message
<news:eeBOWw1%23FHA.2464@xxxxxxxxxxxxxxxxxxxxxxxx>

> Hi Virgil.

> Almost success! I read Tom's entire article and noted the section on DNS.

> Checked the DNS server and it was configured to listen only on the

> internal interface so I added the external interface.

If you want to use packet filtering to allow access to your DNS server then you need indeed to bind the service to the external interface. Rule of thumb with packet filters in ISA2000 is that you use them to control traffic between "Internet" and the external NIC on ISA, so if the DNS service is not running on the external NIC packet filters will do you no good.

>It was also configured to enable forwarding and the DNS servers were not

>correct (ISP was recently changed). I left this enabled and entered the

>correct DNS servers. Not sure whether to leave recursion on in this

>scenario so I left this alone. What do you think about this?

I would leave recursion off – that way if there is a problem with the ISP's name servers your DNS server will resolve the queries by itself; otherwise it will just behave as a 'slave' to the ISP servers.

> So now nslookup finds:

Please forget about nslookup :-), that is such a poor tool. Here's a link to a freeware utility I've been using for a while, and it's simply great. It has ping, tracert, nslookup and many other things and it's graphical and very easy to use. It is called INetQuery by Atrium Software and can be downloaded from here:

<http://www.atrium-software.com/download/iNetQuery.exe>

Just remember to specify the address of your DNS server in the Extras/Settings dialog, after you install it.

> C:\Documents and Settings\Bill>nslookup

> Default Server: merry.christmas

> Address: 192.168.xxx.yyy (external interface)

>

> Don't know where the hostname comes from!

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merry.christmas – That is how the DNS server used by your workstation sees itself when you run nslookup. When you run nslookup for the first time, it will read the DNS server setting from the TCPIP config on your workstation – so it gets the IP address of the DNS server. Then it performs a reverse lookup for that IP, against the name server selected in nslookup (and the first time you run nslookup that will be the same IP).

- > Remote client is still unable to resolve hosts on the internal network.
- > What is missing here?

What do you mean by that. When they connect to the Cisco VPN clients, are your clients getting the correct IP address as their DNS server? They should get the external IP of the SBS machine from what I understand from your setup.

Moreover, what kind of DNS queries come from your clients? Suppose you want to PING from a VPN client... do you do a < PING server01 > or a < PING server01.yourinternaldomain.com >. You have to use the full FQDN (the second example)... resolution by name only (not fully qualified name) works only within the boundaries of your LAN – not with VPN clients.

Finally, what happens if you install INetQuery on a remote PC, connect that PC via VPN, then launch some DNS queries from that PC against the external SBS IP?

Virgil

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◇ *From:* Bill

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