

Re: Relaying DHCP request on 2003 Server, challenge!

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.networking/2006-02/msg00015.html>

- *From:* Joris van der Struijk <JorisvanderStruijk@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 1 Feb 2006 04:25:27 -0800
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Were monitoring the DHCP server right now and it receives DHCPdiscover packets from the Cisco relaying router and nothing else. No offer, nothing. What could be the problem of this?

"Doug Sherman [MVP]" schreef:

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> Well, now I'm confused too. I thought you were trying to use a Relay Agent
> on the Windows server: "Windows 2003 server with DHCP-relay installed."
>
> Anyway, as long as LAN routing is enabled, the Cisco device should be able
> to forward directly to the DHCP server. However, the Cisco device needs a
> default gateway or route to the DHCP server's subnet AND the DHCP server
> needs a default gateway or route to the Cisco device.
>
> Doug Sherman
> MCSE, MCSA, MCP+I, MVP
>
> "Joris van der Struijk" <JorisvanderStruijk@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote
> in message news:AF263A27-E7C3-4777-B7A7-4F48FB653C7D@xxxxxxxxxxxxxxxxxxxxx
> > I don't exactly get what you mean.
>
>
> > What i think at the moment is that i don't need to install Relay agent on
> > the W2K3 server but only need to correctly setup routing on the server.
>
> > The Cisco router is configured to act as Relay agent, so it uses unicast
> > to
> > contact the DHCP server. This unicast only needs to be rerouted through
> > the
> > W2K3 server to access the DHCP server, am i right or completely wrong?
> > Couse
> > this isn't working.
>
>
> > > But when you say that the relay agent of the Windows server is able to
> > > forward the request, how do i setup this scenario? I've tried my best and
> > im
> > lockup right now and could really need some help.
>
>
> > "Doug Sherman [MVP]" schreef:
>
> > > 'Probably' this is not an issue. You can forward through multiple Relay
> > > Agents. The initial relay should construct a directed packet in which
> > the
> > > header includes the IP of the interface upon which the discover
> > broadcast
> > > was received. The DHCP server will offer an address from a scope which
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> > > matches the IP in the header. You may have an issue if the server is
> > > running NAT:
> > >
> > >
> > > http://technet2.microsoft.com/WindowsServer/en/Library/202b5d35-7247-4759-8d
> > > 6e-e400f77424651033.msp
> > >
> > > Doug Sherman
> > > MCSE, MCSA, MCP+I, MVP
> > >
> > > "Joris van der Struijk" <JorisvanderStruijk@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
> > > wrote
> > > in message news:A2E849C1-5173-475C-800C-E62544FD556E@xxxxxxxxxxxxxxxxxxxx
> > > > Ok, i've fixed that problem by configuring a right scope.
> > > >
> > > > Next major problem that's bothering me the whole day.
> > > >
> > > > The DHCP server has to be placed behind a Windows 2003 server with
> > > > router
> > > > functionality. This server will be promoted to an ISA server later in
> > > > the
> > > > project. First we have to setup the connection properly.
> > > >
> > > > I've setup a 3600 router with the appropriate "ip helper-address
> > > > xx.xx.xx.xx" command to forward DHCP request trough the router. This
> > > > works.
> > > >
> > > > The DHCP server that's going to serve the IP-addresses is placed
> > > > behind a
> > > > Windows 2003 server with DHCP-relay installed.
> > > > Interface 1 of the Windows 2003 Router is connected to the Cisco
> > > > router,
> > > > interface 2 is connected to the subnet where the DHCP server resides.
> > > > This
> > > > Windows 2003 router has to forward the already forwarded DHCP request
> > > > (by
> > > > the
> > > > ciscro router) to the correct DHCP server.
> > > >
> > > > That's the problem, i don't know how to let Windows 2003 correctly
> > > > forward
> > > > the Cisco router's DHCP request.
> > > >
> > > > HELP ;)
> > > >
> > > > "Joris van der Struijk" schreef:
> > > >
> > > > > Were having problems creating the following scenario.
> > > > >
> > > > > Windows Server 2003:
> > > > > Int1: 10.6.0.1
> > > > > 255.255.224.0
> > > > > Int2: 10.6.128.2
> > > > > 225.225.224.0
> > > > >
> > > > > Server is acting as router with RRAS installed.
> > > > > DHCP relay is configured to listen in Int2
> > > > > DHCP relay is configured to send request to DHCP server with IP:
> > > > > 10.6.0.2
> > > > > wich is in network connected to Int1
> > > > >
> > > > > What i want is for clients connected to the subnet on Int2 to
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> recieve a
> > > IP
> > > > from DHCP server in subnet connected to Int1. For this i installed
> DHCP
> > > relay
> > > > on the server.
> > > > Is this at all possible??
> > > > I notice that requests never make it to the DHCP server connected to
> the
> > > > subnet on Int1.
> > > >
> > > > Any help is realy appreciated.
> > >
> > >
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>
>
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```