

Re: Why adding secondary IP to NIC of DNS servers failed ?

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.dns/2006-08/msg00059.html>

- *From:* "Marlon Brown" <MarlonBrown@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 2 Aug 2006 10:48:28 -0700
-

Just one correction below:

In preparation to the IP address migration to the 1.0.0.x range, I assigned the IP address in the 1.0.0.x range to the TCP/IP properties on the respective DNS01 and DNS02 only. I did not touch application servers or devices pointing to the server yet.

That said, yes, both DNS01 and DNS02 are configured to listen on "All IP addresses".

When I added the 1.0.0.x IPs to the respective NICs on the DNS server, then the application servers and devices on the same network 1.0.0.x experienced the name resolution issue.

From my AppSvr, which is originally on the 1.0.0.x network, I can

portqry.exe TCP 53 and UDP 53 Ok, pointing to the DNS01 and DNS02 servers (using original 200.1.1.x range).

If you agree with me that it makes no sense that the addition of the 1.0.0.x and coexistence of IP's should cause a problem, I will have to focus on the layer 3 switch to see what's going on.

"Greg Lindsay [MSFT]" <greg.lindsay@xxxxxxxxxxxxxxxx> wrote in message news:e4E4FratGHA.1504@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Let me see if I understand the issue correctly.

You had some DNS servers and application servers on subnet 200.1.1.x and everything was working fine.

You are planning to migrate this subnet to a new range of addresses: 1.0.0.x. In preparation, you assigned a secondary IP address in the 1.0.0.x range to the interfaces of all the servers (DNS and application servers).

You also added the new DNS server IP addresses (1.0.0.x range) to the "Use the following DNS server addresses" list on your application server. If

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needed to list more than 2 DNS servers, you used the advanced TCP/IP settings DNS tab.

After you made these changes, the application server was unable to resolve DNS names. It's IP address was in the 1.0.0.x range, but the DNS server it was trying to use was in the 200.1.1.x range.

If all of this is correct, then please tell me:

- 1) Can you ping the DNS server from the application server?
- 2) Does the application server show that the interface is assigned 2 addresses, or just 1?

If the application server has just one IP address in the 1.0.0.x range, then you need to add a 200.1.1.x to it.

I hope I understood this correctly, and I apologize if I am making this more complicated than it needs to be.

--

Greg Lindsay [MSFT]
greg.lindsay@xxxxxxxxxxxxxx

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"Marlon Brown" <MarlonBrown@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:OHWhUkZtGHA.3912@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

From a member server MyAppserver which experienced the DNS resolution issues after DNS01 and DNS02 got the additional IP 1.x.x.x added to the NIC:

Advanced TCP/IP Settings

DNS Server addresses
200.1.1.2 (note it is pointing to the original DNS IP address)
200.1.1.1

As you can see the member servers were not touched. All I did was adding the 1.x.x.x. IPs to the TCP/IP properties on the respective DNS Servers and let the new IP's ready for people to use them if they wanted, while letting the original 200.x.x.x IP's coexist for few days.

"Jorge Silva" <jorgesilva_pt@xxxxxxxxxxxx> wrote in message news:%23i6uMzYtGHA.1216@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

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Hi

I hope that you don't mind for me to step in.

I just want to add something:

Check if you have under the dns properties:
netmask ordering selected on advanced tab, and under the
interfaces tab
if you have listen for both ipaddress.

--

I hope that the information above helps you

Good Luck
Jorge Silva
MCSA
Systems Administrator

"Greg Lindsay [MSFT]" <greg.lindsay@xxxxxxxxxxxx>
wrote in message
news:OwOOYWYtGHA.1216@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

You mean it is input manually with different
subnets for DNS and
IP/gateway? When you correct it, does it
stay corrected, or return to
the previous values?

I've not heard of this sort of problem before,
but perhaps someone else
has. If it's happening on more than one
machine, I still think it might
be related to the new DHCP server test. Is it
possible that someone
else was messing with the settings?

--

Greg Lindsay [MSFT]
greg.lindsay@xxxxxxxxxxxx

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"Marlon Brown"
<MarlonBrown@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in message
news:O3crZ5XtGHA.4140@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

I know, but in this case,
both IP and DNS

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information has been input manually. Any idea what could have caused this ?

"Greg Lindsay [MSFT]"

<greg.lindsay@xxxxxxxxxxxxxx>

wrote in message

news:eVDzAkPtGHA.4748@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Configuration of the TCP/IP settings for IP address and DNS are independent. You can have a static IP address, but still select "Obtain DNS server address automatically", and vice-versa.

Make sure you have both set to static (and have the correct addresses) if you aren't using DHCP. Later when you switch to DHCP, make sure to switch both again.

I hope this helps!

--

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Lindsay
[MSFT]
greg.lindsay@xxxxxxxxxxxxxx

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"Marlon
Brown"
<MarlonBrown@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in
message
news:umpOAKPtGHA.4140@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx

On
MyApplicationServer
on
the
network
1.0.0.0,
here
is
the
IP
address
configuration:
The
servers
which
freaked
out
are
all
under
static
IP
address
configuration.
It
is
true
folks
are

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:
1.0.0.200
Subnet
Mask
.
.
.
.
.
.
.
.
.
.
:
255.255.255.0
Default
Gateway
.
.
.
.
.
.
.
.
:
1.0.0.254
DNS
Servers
.
.
.
.
.
.
.
.
:
200.1.1.2
(note
it
is
pointing
to
the

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original
DNS
IP
address)
200.1.1.1
Primary
WINS
Server

.
. .
. .
. .

Wrong
IP
(
I
don't
think
this
is
related
to
the
DNS
issue,
but
I
noticed
that
WINS
IP
existing
there
is
invalid)
Secondary
WINS
Server

.
. .
. .
Wrong
IP

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"Greg
Lindsay
[MSFT]"
<greg.lindsay@xxxxxxxxxxxxxx>
wrote
in
message
news:u4%23nqnOtGHA.4968@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Are
the
people
on
other
networks
using
a
different
DHCP
server?

What
is
the
order
of
the
preferred
DNS
servers
being
sent
to
clients
on
the
200.1.1.x
network?

--
Greg
Lindsay
[MSFT]
greg.lindsay@xxxxxxxxxxxxxx

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"Marlon
Brown"
<MarlonBrown@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote
in
message
news:ea3NWiLtGHA.1888@xxxxxxxxxxxxxxxxxxxxxxxx

This
is
the
situation:

DNS-ADI-WINS1
=
IP=200.1.1.1
DNS-ADI-WINS2
=
IP=200.1.1.2

I
will
have
to
replace
DNS-ADI-WINS1
IP
addresses
by
IP=1.0.0.1
and
1.0.0.2
respectively.
What
I
did:

I
added
the
IP
addresses

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to
the
NIC
of
the
DNS
servers.
That
way
addresses
200.1.1.1
and
1.0.0.1
coexist.
I
did
that
so
people
could
start
updating
firewall
rules,
static
member
server
IP
addresses,
DHCP
scope
to
point
to
the
new
DNS
IP
addresses
10.0.0.x.
At
scheduled
date
I
would
remove
the
200.1.1.1
addresses
from
the

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NIC
of
the
respective
DNS-ADI-WINS
servers.

Problem:
After
adding
the
secondary
1.x.x.x
IP
addresses
to
the
DNS
servers
TCP/IP
properties,
people
with
servers
on
the
specific
network
200.1.1.x
experienced
problems
with
server
resolution.
All
servers
on
200.1.1.1
was
unable
to
successfully
return
nslookup
queries
and
locate
DNS
resources.
Can
someone

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explain
what
could
be
causing
this
?
Servers
on
other
networks
performed
OK,
only
the
ones
on
the
same
network
than
the
DNS
servers

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