

Re: DNS not dynamically updating clients

Source:

<http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.dns/2006-04/msg00196.html>

- *From:* "Herb Martin" <news@xxxxxxxxxxxxxxxx>
 - *Date:* Fri, 28 Apr 2006 17:31:30 -0500
-

"TripleT" <TripleT@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message news:85D83787-D75A-4B61-8D95-E35AB1A32D0D@xxxxxxxxxxxxxxxxxxxxxxxx

Thanks for all your help. I added the 015 DNS Domain Name to our DHCP server. I also found out that 2000 SP4 and XP clients do not by default dynamically update to single level domains unless you add the registry hack.

I already see 1 NT40 workstation we had left register on our DNS.

I just have 1 more question, If I wanted to make dynamic updates work before we upgrade to AD can I just go ahead and rename our Primary DNS server to name.mydomain.local. – this is the naming convention we are going to use with AD. It is already joined to our NT40 domain, so could I trick this 2K3 member server by just renaming it?

It really has nothing to do with the NAME OF THE DNS server. It has to do with the name of the ZONE, and the DNS domain of the clients (and specified by DHCP.)

Now, technically the DNS server is (going to be) a domain member and DNS client eventually too, but the registration is not dependent on that, or its name.

(Real analogy: You could have a Unix box with an arbitrary name doing this if it had a dynamic zone that matched the client DNS name — I am not recommending this, just pointing out that the DNS server, especially its own name, is irrelevant if it can do the task.)

—
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Re: DNS not dynamically updating clients

[phone number on web site]

"Herb Martin" wrote:

"TripleT" <TripleT@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:3E375D46-A330-400B-8B90-5149EC959E73@xxxxxxxxxxxxxxxxxxxx

Thanks for your reply.

1. DNS is set for nonsecure and secure updates
2. I am sure what you asking when you want to know how DHCP finds Dynamic master. ie. Primary DNS. I listed the scope options below if this helps:
 - 003 Router
 - 006 DNS Server - Added Primary and Secondary DNS here
 - 044 WINS Svr
 - 046 Wins Node - 0x8
 - 001 MS Disable Netbios - 0x1

How about the DNS Domain name/suffix? (option 015)

Otherwise it won't know which zone to register in.

Make sure the clients and the DHCP server are also in this DNS domain in the SYSTEM CONTROL panel. (not the NIC suffixes.)

DHCP Server Options enabled:

1. Enable DNS dynamic update
 - a. Dynamically update DNS A and PTR records if requested
2. Discard A and PTR records
3. Update DNS for clients that do not request

This part is for NT/9x

The DHCP and Primary DNS reside on the same server.
Thanks for all
your

Re: DNS not dynamically updating clients

help.

Also from your other message there are issues with SINGLE LABEL DNS domain names and dynamic registration.

Your zone should have at least two labels but you might look into the fixes in the Knowledge base:

Single Label domain zone names are a problem Google:
["SINGLE LABEL" domain names DNS 2000 | 2003 microsoft:]

—
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"Herb Martin" wrote:

"TripleT"
<TripleT@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote in message
<news:642F6D6E-4EED-4F0F-BD20-8106A9076AA7@xxxxxxxxxxxxxxxxxxxx>

Thanks for all your help in
this matter.

Current Configuration:
Primary DNS, DHCP,
WINS – 2K3 server –
member server on NT40
domain
Secondary DNS, WINS –
2K3 server – member server
on NT40 domain
Workstation clients – All
Windows XP Pro

Is your primary Zone set to allow updates?

Re: DNS not dynamically updating clients

I have all the necessary configurations set in DHCP to dynamically update the DNS servers but it is not working.

When you say "all the necessary..." we cannot really help you. Unless you list those we have to presume you know and have everything correct.

The Primary DNS server is working without any errors. We did however, change the name of the SOA to NS1 instead of using the name of the server. Could this be the problem?

Probably not, with one exception: If the DHCP server is set to use the Secondary, and the SOA record lists the Master under a name which is NOT resolvable to an IP (i.e., no A record for the Primary which accepts the dynamic updates.) (Maybe even if it is set to use the Primary.)

How does the DHCP FIND the Dynamic Master (i.e., the Primary)?

We are not using the DNS registration credentials in the DHCP Advanced options.

That shouldn't matter since (presumable in an NT domain) you don't have AD Integrated DNS and thus

Re: DNS not dynamically updating clients

don't have "secure updates"
enabled.

Those credentials only matter for secure updates. (And although I don't know this, I would be unsurprised if using them when not necessary confused the DHCP server.)

The Primary and Secondary
DNS servers are pointing
repectively to
themselves
in IP Config for thier
preferred DNS with no
alternate DNS.

That's irrelevant to all except those two
specific servers.

Where is the DHCP server pointed and how
can it resolve
to FIND the DYNAMIC Primary DNS
server?

The errors in in the DHCP
log I am getting is as
follows:
31,04/28/06,00:20:25,DNS
Update
Failed,10.100.101.91,IT-10058.,-1,
31,04/28/06,00:20:25,DNS
Update
Failed,10.100.101.92,it-10131.,-1,
31,04/28/06,00:20:25,DNS
Update
Failed,10.100.101.93,IT-10127.,-1,

You might not want to truncate those line.

It looks like DHCP is trying
to update DNS but fails.
Any ideas?
Thanks.

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It's probably not finding the DYNAMIC
Primary for the zone.

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