

Re: DHCP keeping host names unique

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.dns/2006-01/msg00362.html>

- *From:* "mmccaws2" <mmccaws@xxxxxxxxxxx>
 - *Date:* 20 Jan 2006 17:09:29 -0800
-

Actually, that was one of the issues I've been trying to tease out of all that documentation. If a desktop has the check box set on the DNS tab of IP properties for it to register the desktop with DNS then I believe that DHCP server could literally register each name in some central dns-domain. Say the central domain is central.local, and the DHCP server would check each host (preferably netbios name) to ensure that the host has a unique name and IP address.

Then have the host login with it's primary domain, say AD1.biz.com. That login process would apply GPO s to assign primary domain name, AD1.biz.com, a list of search suffixs, say AD2.biz.com (a different AD forest same company, we have more than two AD forests), fin.AD1.biz.com (subdomain), update WINS server search list, update name server search list. I believe you can do all this with GPO?

I believe that the end result would be that each host would update it's own DDNS with it's assigned primary AD DNS. The central DHCP server would ensure unique names, All hosts are ensured to be in WINS.

We've had problems where someone has a server registered not by it's netbios name but some other name in DNS in the other AD forest. Then when another server administrator properly assigns that other domains server, netbios name as a DNS entry, WINS will see one, DNS will see the other, and depending upon which domain the desktop is assign to and if it has a suffix search list or not, the target name may or may not be seen.

I'd like to run a central dns/dhcp server to get a flat host name out there, have the AD DDNS update itself from the login process. Then have AD DNS domain use my central dns as a secondary name server, if they're not paranoid about the resources being 'available' on the central dns . If they are cautious, I'll forward the queries to their DNS and they may apply their own ACLs. Have all the AD DNS servers load the central (or buisness) zone, it's just host names. (security is in the authentication process, right) Have each host of AD point to it's own DNS. It'll see at one server the host names available. Other domain's resources will be available through trusts and priviledges.

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Or did I interpret your answer correctly

Herb Martin wrote:

> "mmccaws2" <mmccaws@xxxxxxxxxxxx> wrote in message
> news:113774853.362525.66080@xx
>> Because of Exchange and its WINS dependency is it possible of setting
>> the DHCP server to only provide addresses to hosts with unique netbios
>> names. WINS is a flat file system that does not understand subdomains.
>> So the objective is to ensure that the host names are unique. However
>> there are multiple domains. Is there a setting to test the uniqueness
>> of the host name?
>
> No. Not unless you can isolate the clients to different
> subnets and thereby to different scopes and perhaps even
> different DHCP servers.
>
> If the machines are all set to properly use their DNS-domain
> name (in the SYSTEM CONTROL panel), which they should
> be, then you can have the clients register themselves rather
> than the DHCP server do it.
>
> Start with getting the domain name correct on each machine
> (preferable AS it joins the domain but do it now if you must.)
>
> Usually the check box that have the name "follow" or "change"
> when the domain is changed should be checked to do that.
> (So if a machine leaves one domain and joins another the
> full name changes automatically whether you remember or not.)
>
> Also note that this is important to get right in the SYSTEM
> CONTROL panel (and that the NIC suffixes settings are not
> nearly as critical or useful on getting this right.)
>
> --
> Herb Martin, MCSE, MVP
> Accelerated MCSE
> <http://www.LearnQuick.Com>
> [phone number on web site]

• **Follow-Ups:**

- ◆ **Re: DHCP keeping host names unique**
 ◇ From: Herb Martin

• **References:**

- ◆ **DHCP keeping host names unique**
 ◇ From: mmccaws2
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◇ *From:* Herb Martin

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