

## Re: Adding a second domain.

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*Source:*

<http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.networking/2005-12/msg00135.html>

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- *From:* "Kurt" <[lorentzenkurt@xxxxxxxxxxxxxxxxxxxxx](mailto:lorentzenkurt@xxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Wed, 7 Dec 2005 20:04:29 -0800
- 

If you create VLANs, you can segregate broadcast traffic into one subnet or the other. You'll need a router to pass traffic between the VLANs if your switch is not a layer-three switch. Once you do that, you can have a DHCP server and a DC on each VLAN (and yes, they'll have to be different subnets in order to route). As far as your question beginning with "Now, for our environment", I don't know enough about your environment to answer. But from your original post, you said domain 1 need to be able to access a server in domain 2 but domain 2 shouldn't be able to access domain 1 at all. This could be accomplished real easily with routes:

If the Internet router is in the subnet for domain 1, all of the workstations in domain 1 will use the Internet router as their default gateway, so they won't have a route to domain 2's subnet. The file server will have a static route (using the "route add" command in a batch file/startup script) to the domain 2 subnet via the inter-vlan router.

On the other side, domain 2's clients will have the inter-vlan router as their default gateway, and the inter-vlan's default route will be the Internet router. That technically will give domain 2 access to domain 1, but since domain 1 (all but the file server) doesn't have a route back, no connections will be made.

You'll have to work around the lack of a trust if the file server is joined to domain1 by adding local accounts and permissions for users in domain 2.

....kurt

"it-al" <[ital@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:ital@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)> wrote in message <news:A2108036-9BCF-4025-83A3-6970E288E16E@xxxxxxxxxxxxxxxxxxxxx>  
> Thanks for replying, I appreciate your help.

>

> So, if I can create a VLAN on one of the blades of our switch then I can  
> contain broadcasts from each domain, correct? And once i do that, then  
> each  
> domain can have it's own dhcp server and independently authenticate their  
> own  
> respective users, right?

>

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> You brought up the subject of not needing both a separate subnet and  
> separate domain for our scenario. I always thought, incorrectly it seems,  
> that you need a separate subnet for each domain you add into your  
> environment. Now, for our environment, do we need another subnet given the  
> same requirements (each domain having it's own domain name, dns, dhcp, ad  
> authenticating its own set of users)?  
>  
> As for SBS not being able to set up trusts, I didn't know that and i'm  
> dissappointed but not a major stumbling block, we can work around that.  
>  
> I'm new at this, personnel changes and company directives have conspired  
> to  
> drop IT responsibility onto my novice lap. Thank you again.  
>  
>  
> "Kurt" wrote:  
>  
>>  
>> If the DHCP servers are connected to the same switch, you won't have any  
>> way  
>> of separating the clients. DHCP is broadcast based, and the first DHCP  
>> server that responds to a request will issue the IP address, no knowing  
>> or  
>> caring which subnet the computer requesting the address is supposed to be  
>> in. This is also true if you use a router with both interfaces plugged  
>> into  
>> the same switch. You will need to physically or logically (VLANs) contain  
>> broadcasts for each subnet. But do you need two domains? or two subnets?  
>> You  
>> don't have to have both. You can have two domains in the same subnet.  
>> Both  
>> domains will show up in the browser (My Network Places), but domain  
>> membership and permissions will prevent users from different domains from  
>> being able to access resources in the other. If you need one-way  
>> permissions  
>> between domains, you can create a one-way trust.  
>>  
>> ....kurt  
>>  
>> "it-al" <ital@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
>> [news:D0703BF1-6778-4D05-844A-737BEAC5EB4D@xxxxxxxxxxxxxxxxxxxx](mailto:news:D0703BF1-6778-4D05-844A-737BEAC5EB4D@xxxxxxxxxxxxxxxxxxxx)  
>> > What is the best way to add another domain into your existing network?  
>> >  
>> > The current Domain1 (10.10.10.xx) contains four 2k3 servers: AD, Exch,  
>> > File,  
>> > and Web. Everyone is connected to an HP Procurve switch and goes out to  
>> > the  
>> > internet through a PIX firewall. The AD server is also running DNS and  
>> > DHCP.  
>> >  
>> > We need to add another domian, Domain2 (10.10.11.xx), into our existing

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>> > infrastructure. The new domain will have 2 servers: an SBS 2k3 server  
>> > running  
>> > AD, DNS, DHCP, and Exchange, and a 2k File/Web server.  
>> >  
>> > Domain1 needs to be able to access Domain2's File/Web server but  
>> > Domain2  
>> > should not be able to browse or access anything in Domain1.  
>> >  
>> > Is it just a matter of entering the appropriate domain names and ip  
>> > addresses on Domain2's servers and then connecting them to the same HP  
>> > Procurve switch? Because they are on a different ip address scheme,  
>> > 10.10.10.xx vs. 10.10.11.xx, there should be not DHCP or any other  
>> > conflicts  
>> > right? Will I need a router to sit between the two domains or will the  
>> > switch  
>> > be enough?  
>>  
>>  
>>

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• **References:**

- ◆ **[Re: Adding a second domain.](#)**  
    ◇ From: Kurt
- ◆ **[Re: Adding a second domain.](#)**  
    ◇ From: it-al

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