

Re: [SLE] DSL problem

Source: <http://linux.derkeiler.com/Mailing-Lists/SuSE/2005-03/0285.html>

From: Jeffrey Laramie (*suse-linux-e_at_trans-star.net*)

Date: 03/02/05

To: suse-linux-e@suse.com

Date: Wed, 2 Mar 2005 09:00:09 -0500

On Wednesday 02 March 2005 09:37, Damon Register wrote:

> *Jeffrey Laramie wrote:*

> > *OK, well I think this is probably a routing problem then. It probably has
> > to do with the point Ian made about your IP addresses. If the DSL modem
> > insists on being 192.168.0.1 then you should change the subnet of your
> > lan to*

>

> *I am really confused here. Why would a DSL modem be presenting an
> address like that? Why would a modem even have an address? Are
> you referring to the address your provider gives you? Just
> yesterday a coworker told me about his father who had Bellsouth.
> He said that Bellsouth was putting the users on a private subnet
> so it was impossible for the coworker to access his fathers pc with
> pcAnywhere. Is "your name" on such a private subnet? Is it Bellsouth?*

This may vary based on the hardware. DSL services here use routers that are assigned a valid external IP by the ISP and then route IPs in your subnet to the inet facing NIC in your firewall box or alternately to a hub/switch. If you connect a firewall then you use NAT/masq on the firewall to connect the private IPs on the lan to the internet. If you use a hub/switch then the boxes on that subnet should have valid external IPs assigned.

In his original post the OP assigned 3 different IPs in the same local subnet so I assumed that represented 1 remote DSL router and 2 NICs on the host. If there is only a dsl modem and one NIC then I don't know what the other IP is assigned to. Jim, maybe you can clarify this by posting the output of ifconfig and describing the physical layout of your LAN.

>

> > *something else like 192.168.1.0/24. Try this:*

>

> *Yes, this is very important. It must be on a different subnet*

>

> > *DSL modem – 192.168.0.1*

> > *inet facing NIC – 192.168.0.2*

> > *LAN facing NIC – 192.168.1.1*

> > *LAN Client – 192.168.1.2*

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> >
> > *Make sure masquerading and IP forwarding are up. You'll need to configure*
> > *your routing table too, setting your default gateway to 192.168.0.2. I'm*
> > *not*
>
> *No, the default gateway should be 192.168.1.1, the address of the LAN*
> *facing NIC.*

That's correct for the clients on the LAN, but the host acting as a router needs to have the default route set to the internet facing device. Otherwise that host/router will send all non-local traffic back to the LAN. I'd post an example from my firewall but it's a lot different configuration and would only confuse the issue.

>
> > *reached the end of my usefulness (at least for today, although I fear*
> > *permanent obsolescence is approaching faster than I care to admit).*
>
> *Is that a funny way of saying you are getting older?*

Yup, afraid so.

Jeff

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