

SecurityFocus Linux: RE: decent loadbalancing with 2 different ISP's with minimum risks

## RE: decent loadbalancing with 2 different ISP's with minimum risks

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*From:* Bryce Porter ([bporter\\_at\\_heart.net](mailto:bporter_at_heart.net))

*Date:* 04/16/04

Date: Fri, 16 Apr 2004 16:18:56 -0500

To: <[focus-linux@securityfocus.com](mailto:focus-linux@securityfocus.com)>

P. Deelman,

You probably can not do this the way you want to, as both of your ISP providers would have to support asynchronous routing or BGP if you have multiple IPs routed to your location. And therefore you will not be able to 'bond' the connections into a single 'virtual interface' of 3mbit (2mbit + 1mbit).

If you are doing NAT on both connections, it might be possible to select the least-saturated link before transmitting data out, but you could not control how data is initially delivered to you. You would definitely need to NAT stacks, and you could probably do the saturation-based routing with iproute2's traffic control utility (assuming that you have all the QoS classifiers, queues, etc compiled or loaded into your kernel). Check out the LARTC Howto located at <http://www.lartc.org/> for more details on that.

Not sure how well this helps you, but if you would like to give me more details I may be able to assist you further.

Regards,

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-----Original Message-----

From: P. Deelman [<mailto:p.deelman@hccnet.nl>]

Sent: Friday, April 16, 2004 2:18 PM

To: [focus-linux@securityfocus.com](mailto:focus-linux@securityfocus.com)

Subject: decent loadbalancing with 2 different ISP's with minimum risks

RE: decent loadbalancing with 2 different ISP's with minimum risks

## SecurityFocus Linux: RE: decent loadbalancing with 2 different ISP's with minimum risks

Due to a little mistake i now have 2 broadband connections at home and somehow i want to balance them (2mbit + 1 mbit). I wondered what the most efficient way of doing this is and with possible security risks involved.

At the moment i have a nice setup with a statefull designed iptables firewall and i want to keep it that way. I've googled some and i found some vague tools for windows that i really don't trust (well the entire windows part, but that's something else) and a router that has 2 wan connectors that claims that can do it. Since i also have wlan at home in

a wlan-dmz at my gateway i just want to insert a 4th nic into my box and do some configging.

My current setup includes:  
debian 3.0 stable 2.4.26 kernel  
3 networks: wlan, internal, external  
statefull iptables-script

my future setup needs to include just an extra network namely external2 :) without too many implications such as running a proxy with patches which should be the last option to consider since my gateway isn't all that fast :)

Any help welcome,  
Regards,  
P.Deelman