

Re: Disable Bridge Loop Detection?

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/net/2003-11/0027.html>

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Date: 11/05/03

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To: Tim Wilde <twilde@dyndns.org>

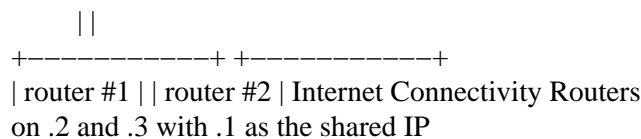
I don't see why do you have 2 FreeBSD Boxes running as bridges. The only reason I could possibly imagine, is that you are using IPFW or IPFilter to do some packet filtering.

Now with vrrp, each router would have a unique IP and only one of the routers would have the shared IP at any given time using the shared vrrp mac address.

Your problem lies in Layer 2 packets – where vrrp functions. A bridge/switch is a layer 2 device that only passes traffic to the ports that need the traffic and nothing more. The vrrp advertisements will be from the shared MAC to ff:ff:ff:ff:ff:ff. with the IP src being the sending router and the IP dst being a multicast address. Now when the change from router 1 to router 2 takes place, router 1 will go back to it's original mac and router 2 will get the shared mac and start sending advertisements. So now from your picture, Bridge #2 would see that the vrrp mac is coming from the other side, thus causing a loop to be detected.

You're best solution is to remove one of the bridges, and add a cheap 10/100 hub and connect like this:

???????????????????????????????????? Internet Connection



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  ||
+-----+ This will solve your bridge seeing a loop
by putting all vrrp traffic on only 1 side.
| $10-$15 10/100 Hub | You shouldn't see any major network
performance hit from using a hub here.

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+-----+ .The only way you could possibly see a network performance hit, would be if you had a huge pipe.



freebsd-net: Re: Disable Bridge Loop Detection?

>router1, before it will take control again).

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>Thanks,

>Tim

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