

## Re: Problem with FreeBSD 4.8, ipf, ipfnat and forwarding for pcAnywhere

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2004-05/0703.html>

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**From:** adp ([dap99\\_at\\_i-55.com](mailto:dap99_at_i-55.com))

**Date:** 05/10/04

To: <[Barbish3@adelphia.net](mailto:Barbish3@adelphia.net)>, <[questions@freebsd.org](mailto:questions@freebsd.org)>

Date: Mon, 10 May 2004 10:34:46 -0500

I am using telnet just to see if the port accepts connections. That test works fine internally. We are not running a telnet server. Also, we are telnetting to the pcAnywhere port, not the telnet port. :)

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

From: "JJB" <[Barbish3@adelphia.net](mailto:Barbish3@adelphia.net)>

To: "adp" <[dap99@i-55.com](mailto:dap99@i-55.com)>; <[questions@freebsd.org](mailto:questions@freebsd.org)>

Sent: Friday, May 07, 2004 7:47 AM

Subject: RE: Problem with FreeBSD 4.8, ipf, ipfnat and forwarding for pcAnywhere

> *For your telnet test to pcanywhere ports on target Lan pc to work*  
> *you have to tell telnet on the target to listen on those ports.*  
>  
> *I believe pcanywhere is one of those applications that imbed the ip*  
> *address of the remote and host into the packet data and used by the*  
> *application to establish bi-directional packet exchange. This means*  
> *that pcanywhere will not work using nated ip address. This is an*  
> *common design flaw in many 3rd party software providers*  
> *applications, mostly seen in games and ms/windows netmeeting.*  
> *Pcanywhere only works over the public internet between two ms/window*  
> *boxes that use public routable IP address. It will also work between*  
> *two pc on the Lan because Nating only occurs as packet leaves Lan*  
> *headed for public internet.*

>  
> *If you have an range of static public IP address assigned to you by*  
> *your ISP then you could assign one of those ip address to the LAN pc*  
> *you want pcanywhere to work on and you should be good to go.*

> -----Original Message-----

> From: owner-freebsd-questions@freebsd.org

> [<mailto:owner-freebsd-questions@freebsd.org>]On Behalf Of adp

> Sent: Friday, May 07, 2004 12:37 AM

> To: [questions@freebsd.org](mailto:questions@freebsd.org)

freebsd-questions: Re: Problem with FreeBSD 4.8, ipf, ipfnat and forwarding for pcAnywhere

> *Subject: Problem with FreeBSD 4.8, ipf, ipfnat and forwarding for  
> pcAnywhere*  
>  
> *This shouldn't be that hard, but I can't get it working.*  
>  
> *I have a FreeBSD firewall with three NICs (Internet, LAN, DMZ). I  
> have*  
> *bridging enabled between the Internet and DMZ interfaces.*  
>  
> *I now have an internal computer (LAN) that needs to be accessible  
> via*  
> *pcAnywhere.*  
>  
> *I can telnet to the pcAnywhere ports on the internal computer fine  
> from the*  
> *firewall or the LAN. So that works. However, when I configured ipnat  
> to*  
> *forward my pcAnywhere ports a telnet from the Internet just stalls.*  
>  
> *My ipnat configuration:*  
>  
> *# cat /etc/ipnat.conf*  
>  
> *(xl0 = internet, xl1 = lan, xl2 = dmz)*  
>  
> *#####*  
> *# pcAnywhere*  
> *# normal nat for office disabled - this is all i have in ipnat.conf*  
> *rdr xl0 public-ip/32 port 5631 -> 192.168.99.9 port 5631*  
> *rdr xl0 public-ip/32 port 5632 -> 192.168.99.9 port 5632*  
>  
> *And I am allowing in accessing via ipf:*  
>  
> *pass in quick proto tcp from any to public-ip port = 5631 group 200*  
> *pass in quick proto udp from any to public-ip port = 5631 group 200*  
> *pass in quick proto tcp from any to public-ip port = 5632 group 200*  
> *pass in quick proto udp from any to public-ip port = 5632 group 200*  
>  
> *(If I take these out I see the ipmon block messages, but with these  
> they go*  
> *away, so it's not ipf I don't think.)*  
>  
> *Am I missing something here? This should work!*  
>  
> *A tcpdump. I am remote (remote-client):*  
>  
> *%telnet public-ip 5631*  
> *Trying public-ip...*  
>  
> *(just sits there)*  
>

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freebsd-questions: Re: Problem with FreeBSD 4.8, ipf, ipfnat and forwarding for pcAnywhere

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> On the FreeBSD box:
>
> # tcpdump -n -i xl0 port 5631
> tcpdump: listening on xl0
> 23:26:41.772801 remote-client.3755 > public-ip.5631: S
> 2174885259:2174885259(0) win 57344 <mss 1460,nop,wscale
> 0,nop,nop,timestamp
> 99416198 0> (DF) [tos 0x10]
> 23:26:44.772018 remote-client.3755 > public-ip.5631: S
> 2174885259:2174885259(0) win 57344 <mss 1460,nop,wscale
> 0,nop,nop,timestamp
> 99416498 0> (DF) [tos 0x10]
> 23:26:48.013346 remote-client.3755 > public-ip.5631: S
> 2174885259:2174885259(0) win 57344 <mss 1460,nop,wscale
> 0,nop,nop,timestamp
> 99416818 0> (DF) [tos 0x10]
> 23:26:51.230241 remote-client.3755 > public-ip.5631: S
> 2174885259:2174885259(0) win 57344 <mss 1460> (DF) [tos 0x10]
> 23:26:54.429267 remote-client.3755 > public-ip.5631: S
> 2174885259:2174885259(0) win 57344 <mss 1460> (DF) [tos 0x10]
> 23:26:57.596288 remote-client.3755 > public-ip.5631: S
> 2174885259:2174885259(0) win 57344 <mss 1460> (DF) [tos 0x10]
> 23:27:03.809921 remote-client.3755 > public-ip.5631: S
> 2174885259:2174885259(0) win 57344 <mss 1460> (DF) [tos 0x10]
> 23:27:16.050057 remote-client.3755 > public-ip.5631: S
> 2174885259:2174885259(0) win 57344 <mss 1460> (DF) [tos 0x10]
> ^C
> 48 packets received by filter
> 0 packets dropped by kernel
>
> Oh, and again, I do have bridging enabled between Internet and DMZ:
>
> My bridge script:
>
> #!/bin/sh
>
> echo -n "Enabling bridging: "
> if sysctl -w net.link.ether.bridge=1 > /dev/null 2>&1; then
> echo "activated."
> else
> echo "failed."
> fi
>
> echo -n "Enabling bridging between xl0 and xl2 interfaces: "
> if sysctl -w net.link.ether.bridge_cfg=xl0,xl2 > /dev/null 2>&1;
> then
> echo "activated."
> else
> echo "failed."
> fi
>
```

freebsd-questions: Re: Problem with FreeBSD 4.8, ipf, ipfnat and forwarding for pcAnywhere

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> \_\_\_\_\_  
> *freebsd-questions@freebsd.org mailing list*  
> *<http://lists.freebsd.org/mailman/listinfo/freebsd-questions>*  
> *To unsubscribe, send any mail to*  
> *"freebsd-questions-unsubscribe@freebsd.org"*  
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>

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