

CheckPoint firewall behind DSL router

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Dear all,

Can anyone enlighten me on this? I'm trying to set-up a service (ftp for example) running on a PC (IP:192.168.0.100) behind a CheckPoint R55 firewall that is behind a DSL router (LinkSys) to be accessible from internet static IP. I think I am having trouble with NAT between the router and firewall as the packets don't even show up in the firewalled log. If I connect router to the ftp server directly (with port forwarding) it works fine:
(Internet) ---Public IP(LinkSys Router)192.168.0.2---(fwd port 20 to 192.168.0.100:20)---192.168.0.100(FTP server)
The above only works if the ftp server has default gateway and DNS set to 192.168.0.2

What I want to achieve is this:

(Internet) ---Public_IP(LinkSys Router)172.16.1.2---(fwd port 20 to 172.16.1.100:20)---172.16.1.1(Firewall)192.168.0.2---192.168.0.100(FTP server) with default gateway and DNS set to 192.168.0.2

Problem appears to be in NAT-ing 172.16.1.100 to 192.168.0.100 and NAT-ing 192.168.0.2 to 172.16.1.2

Here is what I tried:

Original packet:

Source: 172.16.1.2

Dest: 172.16.1.100

Service: ftp-pasv

Translated packet:

Source: original

Dest: 192.168.0.100

Service: original

Original packet:

Source: 192.168.0.100

Dest: 192.168.0.2

Service: Any

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Translated packet:

Source: original
Dest: 172.16.1.2
Service: original

What am I doing wrong?

Thanks,

Dave