

Re: Port Forwarding

Source: <http://linux.derkeiler.com/Mailing-Lists/RedHat/2007-12/msg00182.html>

- *From:* Troy Amburg <troya@xxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 19 Dec 2007 09:49:25 -0800
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So you can traceroute from Machine1 to Machine2 without any problem, and you can telnet to the port in question, from Machine1 to Machine2? If that's the case, I guess I don't understand what's not working.

On Dec 19, 2007, at 9:43 AM, Steven Buehler wrote:

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

From: redhat-list-bounces@xxxxxxxxxx [<mailto:redhat-list-bounces@xxxxxxxxxx>] On Behalf Of Troy Amburg
Sent: Wednesday, December 19, 2007 11:34 AM
To: General Red Hat Linux discussion list
Subject: Re: Port Forwarding

Do you have a traceroute from Machine1 to Machine2? Also, is the default route set correctly on Machine1?

On Dec 19, 2007, at 9:07 AM, Steven Buehler wrote:

I am trying to do port forwarding and I just can't seem to get it to work.
I hope that someone can help.

Machine 1 is running RHEL AS 4.4 with the 2.6.9-42.0.2.ELsmp kernel.
iptables has been running as my firewall since I set it up.

I am trying to get anything that comes in to port 3389 on "Machine 1" to go to "Machine2" at a different location. Lets say for this that the IP of "Machine1" is 70.70.70.70 and the remote machine ("Machine 2") that I want

Re: Port Forwarding

to forward to is 209.209.209.209. I am assuming that I don't have to do anything on "Machine2" except make sure the firewall for that port is opened to "Machine 1".

I have done the following on "Machine 1":
echo 1 > /proc/sys/net/ipv4/ip_forward

Here is my /etc/sysconfig/iptables file from "Machine 1". This is not the one that I would normally use because it is to open, but am for testing.

```
#####  
# Generated by iptables-save v1.2.11 on Wed Dec 19  
10:50:11 2007  
*nat  
:PREROUTING ACCEPT [3:536]  
:POSTROUTING ACCEPT [9:635]  
:OUTPUT ACCEPT [8:583]  
-A PREROUTING -p tcp -m tcp --dport 3389 -j DNAT  
--to-destination  
209.209.209.209:80  
COMMIT  
# Completed on Wed Dec 19 10:50:11 2007  
# Generated by iptables-save v1.2.11 on Wed Dec 19  
10:50:11 2007  
*mangle  
:PREROUTING ACCEPT [318:24902]  
:INPUT ACCEPT [312:24214]  
:FORWARD ACCEPT [3:152]  
:OUTPUT ACCEPT [276:32613]  
:POSTROUTING ACCEPT [279:32765]  
COMMIT  
# Completed on Wed Dec 19 10:50:11 2007  
# Generated by iptables-save v1.2.11 on Wed Dec 19  
10:50:11 2007  
*filter  
:INPUT ACCEPT [0:0]  
:FORWARD ACCEPT [0:0]  
:OUTPUT ACCEPT [276:32613]  
:RH-Firewall-1-INPUT - [0:0]  
-A INPUT -j RH-Firewall-1-INPUT  
-A FORWARD -i eth0 -p tcp -m tcp --dport 3389 -j  
ACCEPT  
-A FORWARD -j RH-Firewall-1-INPUT  
-A OUTPUT -o eth0 -j LOG --log-prefix
```

Re: Port Forwarding

```
"BANDWIDTH_OUT:" --log-level 7
-A RH-Firewall-1-INPUT -i eth0 -j ACCEPT
-A RH-Firewall-1-INPUT -i lo -j ACCEPT
-A RH-Firewall-1-INPUT -p icmp -m icmp --icmp-type
any -j ACCEPT
-A RH-Firewall-1-INPUT -d 224.0.0.251 -p udp -m udp
--dport 5353 -j
ACCEPT
-A RH-Firewall-1-INPUT -p udp -m udp --dport 631 -j
ACCEPT
-A RH-Firewall-1-INPUT -m state --state
RELATED,ESTABLISHED -j ACCEPT
-A RH-Firewall-1-INPUT -j REJECT --reject-with
icmp-host-prohibited
COMMIT
# Completed on Wed Dec 19 10:50:11 2007
#####
```

Thanks
Steve

A traceroute shows no problems. Goes to the remote machine just fine. I can also access the port on the remote machine with no problems.

```
[root@mymachine]# route -n
Kernel IP routing table
Destination Gateway Genmask Flags Metric Ref Use
Iface
70.70.70.0 0.0.0.0 255.255.255.0 U 0 0 0 eth0
169.254.0.0 0.0.0.0 255.255.0.0 U 0 0 0 eth0
0.0.0.0 70.70.70.175 0.0.0.0 UG 0 0 0 eth0
```

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