

Re: OpenSSH 3.4p1 port forwarding problem

Source: <http://unix.derkeiler.com/Newsgroups/comp.unix.sco.misc/2003-09/0046.html>

From: Steve Fabac (*smfabac_at_att.net*)

Date: 09/02/03

Date: Tue, 02 Sep 2003 21:18:11 GMT

Steve Fabac wrote:

- >
- > > *Reposted after cleaning text wrap problem*
- >
- > *I am attempting to setup port forwarding of port 1680 over the SSH*
- > *tunnel to allow Carbon Copy on the local Windows machine to connect*
- > *to CC on a Windows host at the client's office.*
- >
- > *When I proposed this 2 years ago, I had set up a test at another*
- > *client's office and I got it to work with very little trouble.*
- > *(SCO 5.0.5 Enterprise with either ssh_3.0.p1_os5.tar or ssh-504.tar.*
- > *I don't have access to the machine as the company went out of business)*

Stuff deleted

- > *But when I installed TTPRO on the .39 machine and used it to connect*
- > *to 192.168.10.33 (SCO 5.0.5) and set up forwarding as*
- > *local 1680:remote 192.168.10.34:1680.*
- >
- > *I got the same failed connection: "A program on the local machine*
- > *attempted to connect to a forwarded port. The forwarding request*
- > *was denied by the server. The connection has been closed."*

As Bela suggested, I removed openssh3.4p1 and reverted to installing ssh from ssh-504.tar (sshd version OpenSSH_2.2.0p1) and tested it. The problem still remained but the sshd -ddd output was different:

- > *debug: Attempting authentication for smf.*
- > *Accepted password for smf from 192.168.10.40 port 1616*
- > *debug: session_new: init*
- > *debug: session_new: session 0*
- > *debug: Received TCP/IP port forwarding request.*
- > *debug: Local forwarding listening on 127.0.0.1 port 2022.*
- > *debug: fd 5 setting O_NONBLOCK*
- > *debug: channel 0: new [port listener]*
- > *debug: Allocating pty.*
- > *debug: Entering interactive session.*
- > *debug: no set_nonblock for tty fd 9*

comp.unix.sco.misc: Re: OpenSSH 3.4p1 port forwarding problem

```
> debug: no set_nonblock for tty fd 10
> debug: server_init_dispatch_13
> debug: server_init_dispatch_15
> debug: tvp!=NULL kid 0 mili 10
repeated 4 times.
> debug: Window change received.
> debug: tvp!=NULL kid 0 mili 10
repeated 5 more times
> error: connect 192.168.10.34 port 1680: Connection refused
> error: connect 192.168.10.34 port 1680: failed.
> debug: tvp!=NULL kid 0 mili 10
repeated 4 more times
> debug: Received SIGCHLD.
> debug: tvp!=NULL kid 1 mili 10
> debug: tvp!=NULL kid 1 mili 100
> debug: End of interactive session; stdin 6, stdout (read 461, sent 461), stderr 0 bytes.
> debug: channel_free: channel 0: status: The following connections are open:
>
> debug: Command exited with status 0.
> debug: Received exit confirmation.
> debug: session_pty_cleanup: session 0 release /dev/tty4
> Closing connection to 192.168.10.40
> debug: writing PRNG seed to file //.ssh/prng_seed
```

Where openssh3.4p1 sshd -ddd resulted in:

```
> Accepted password for smf from 192.168.10.40 port 1609
> debug1: monitor_child_preauth: smf has been authenticated by privileged process
> debug3: mm_get_keystate: Waiting for new keys
> debug3: mm_request_receive_expect entering: type 24
> debug3: mm_request_receive entering
> debug3: mm_get_keystate: Getting compression state
> debug3: mm_get_keystate: Getting Network I/O buffers
> debug1: cipher_init: set keylen (16 -> 32)
> debug1: cipher_init: set keylen (16 -> 32)
> debug3: cipher_set_keyiv: Installed 3DES IV
> debug3: cipher_set_keyiv: Installed 3DES IV
> debug1: session_new: init
> debug1: session_new: session 0
> debug1: Installing crc compensation attack detector.
> debug2: SSH_PROTOFLAG_SCREEN_NUMBER: 1
> debug1: X11 forwarding disabled in server configuration file.
> debug1: Received TCP/IP port forwarding request.
> debug1: Local forwarding listening on 0.0.0.0 port 2022.
> debug1: fd 7 setting O_NONBLOCK
> debug2: fd 7 is O_NONBLOCK
> debug1: channel 0: new [port listener]
> debug1: Allocating pty.
> debug1: session_pty_req: session 0 alloc /dev/tty2
> debug3: tty_parse_modes: 1 3
> debug3: tty_parse_modes: 2 28
> debug3: tty_parse_modes: 3 8
```

comp.unix.sco.misc: Re: OpenSSH 3.4p1 port forwarding problem

```
> debug3: tty_parse_modes: 4 21
> debug3: tty_parse_modes: 5 4
> debug1: fd 4 setting TCP_NODELAY
> debug1: Entering interactive session.
> debug1: fd 10 setting O_NONBLOCK
> debug2: fd 11 is O_NONBLOCK
> debug1: fd 13 setting O_NONBLOCK
> debug1: fd 14 setting O_NONBLOCK
> debug1: server_init_dispatch_13
> debug1: server_init_dispatch_15
> debug1: Window change received.
> debug1: fd 15 setting TCP_NODELAY
> debug2: fd 15 is O_NONBLOCK
> debug2: fd 15 is O_NONBLOCK
> debug1: channel 1: new [127.0.0.1]
> debug3: channel 1: waiting for connection
> debug1: channel 1: not connected: Connection refused
> debug1: channel 1: zombie
> debug1: channel 1: garbage collecting
> debug1: channel_free: channel 1: 127.0.0.1, nchannels 2
> debug3: channel_free: status: The following connections are open:
>
> debug3: channel_close_fds: channel 1: r 15 w 15 e -1
> debug1: Received SIGCHLD.
> debug2: notify_done: reading
> debug1: End of interactive session; stdin 6, stdout (read 596, sent 596), stderr 0 bytes.
> debug1: channel_free: channel 0: port listener, nchannels 1
> debug3: channel_free: status: The following connections are open:
>
> debug3: channel_close_fds: channel 0: r 7 w 7 e -1
> debug1: Command exited with status 0.
> debug1: Received exit confirmation.
> debug1: session_close: session 0 pid 4023
> debug1: session_pty_cleanup: session 0 release /dev/tty2
> Closing connection to 192.168.10.40
```

Note the more descriptive debug output of ssh2.2p1 for the forwarded port failure:

```
> error: connect 192.168.10.34 port 1680: Connection refused
> error: connect 192.168.10.34 port 1680: failed.
```

vs ssh3.4p1:

```
> debug1: channel 1: new [127.0.0.1]
> debug3: channel 1: waiting for connection
> debug1: channel 1: not connected: Connection refused
> debug1: channel 1: zombie
> debug1: channel 1: garbage collecting
```

With 2.2.0p1 debug information clearly indicating that the connection on port 1680 was being refused by 192.168.10.34 and is not a problem with

comp.unix.sco.misc: Re: OpenSSH 3.4p1 port forwarding problem

ssh port forwarding, I reviewed the "wait for connection" configuration tab for CC and noted that "use internet" was not checked.

I checked "use internet" and un-checked "use network broadcasts." Then deleted the default "Internet Locator Servers" leaving the configuration field blank. (This is the recommended configuration when connecting through a firewall on port 1680 when not using Internet Locator Server to connect by name.)

When I tested the forwarded connection on port 1680 by pointing CC to localhost on the Win98 client machine, I was able to successfully connect to CC waiting for a TCP connection on 192.168.10.34.

I un-installed SSH2.2.0p1 and reinstalled openssh3.4p1 and with the default sshd_config file was able to use CC over the forwarded connection.

So, by not being familiar with the debug output of 3.4p1 I was unable to identify the source of the connection problem. Only when I re-installed ssh2.2.0p1, and obtained an indication that clearly showed that CC on the target machine was rejecting the connection, I was chasing problems with ssh when the problem was an improper configuration choice in CC.

Thanks for the utility of openssh3.4p1, but "Bronx Cheer" for adopting the cryptic debug messages.

--

Steve Fabac
S.M. Fabac & Associates
816/765-1670