

Re: Tunnelling SMB over SSH or SSL

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From: Jason Reeves (notr00t@yahoo.com)

Date: 11/05/01

Message-ID: <20011105021420.98215.qmail@web20204.mail.yahoo.com>

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From: Jason Reeves <notr00t@yahoo.com>

Subject: Re: Tunnelling SMB over SSH or SSL

To: focus-ms@securityfocus.com

> *Can anyone recommend another solution to have encrypted, secure file sharing between Windows machines and UNIX (specifically OpenBSD)?*

I've been looking into this problem recently myself and you might be able to use my information.

There is a port of openssh for windows. It's a console util that works just like it's *nix cousin, and it can handle tunneling. Example:

```
ssh -L 137:files.domain.com:137
ssh -L 138:files.domain.com:138
ssh -L 139:files.domain.com:139
```

The Windows port of openssh can be found here:

<http://www.networksimplicity.com/openssh/>

As for older OSs that have to have UDP to do things like browsing, etc., there's a way to handle that as well. Netcat will happily pipe UDP packets into a TCP stream:

#client side

```
ssh -L 9137:files.domain.com:9137
ssh -L 9138:files.domain.com:9138
ssh -L 9139:files.domain.com:9139
```

```
nc -l -u -p 137 | nc localhost 9137
nc -l -u -p 138 | nc localhost 9138
nc -l -u -p 139 | nc localhost 9139
```

#server side

```
nc -l -p 9137 | nc localhost -u 137
nc -l -p 9138 | nc localhost -u 138
nc -l -p 9139 | nc localhost -u 139
```

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I'm not sure if you'll need to install the Cygwin bash port in order for Windows to handle the piping properly, or if the Windows port of Netcat will handle that for you. By the way, Netcat for Windows is here: <http://www.atstake.com/research/tools/>.

I haven't tested this, but I believe the theory behind this is sound.

Hope this helps!

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