

SSH through HTTPS

The following guide describes how to set up a SSH connection with tunnels through a HTTPS connection. As long as HTTP on port 80 and HTTPS on port 443 is enabled, you can establish a SSH connection.

Setup

Other setups than the one explained below are of course possible, but here is an overview on how I set up my environment.

1. SSH connection to a linux server running Debian 7 and Ubuntu 12.04
2. SSH public key authentication, login with password is disabled
3. Tunnels to services on my server, for example the web interface of [BackupPC](#)
4. Transfer files from and to the server with [WinSCP](#)
5. You will need a google account to be able to use the http proxy

Installation

The connection will be established through your browser. At this time, I got it working with Chrome only.

1. Download [Chrome](#) and install the [Secure Shell](#) plugin.
2. Open Secure Shell in Chrome and enter the following settings:

```
free form text (line 1): name your connection, for example the server's
name
username: <user>
hostname: <www.mydomain.com>
port: <port> (note: this is the SSH port on the server)
relay options: --proxy-host=relay.wsn.at --proxy-port=443 --use-ssl
Identity: <your SSH keypair>
SSH Arguments: -L 7000:anothermachine:80 -L 22:localhost:22
Terminal Profile: leave at default or give the current profile any name
```

3. Note on SSH keypair: upload your SSH keypair, e.g. `id_rsa` and `id_rsa.pub` generated on your server (you might want to rename the files to `myserver_id_rsa` and `myserver_id_rsa.pub`, if you want to establish SSH connections to more than one machine)
4. Note on SSH Arguments: this is just an example. The first `-L` option establishes a tunnel to anothermachine's HTTP port through port 7000 on your client from where you initiate the connection, the second option establishes a tunnel to the server's SSH service you are connecting to. You will need this if you want to exchange files with the server through WinSCP
5. Download `puttygen.exe` from the [PuTTY](#) download page. Convert `myserver_id_rsa` to `myserver.ppk`, as WinSCP requires a PuTTY formatted private key.
6. Download [WinSCP](#) and enter the following settings:

```
File protocol: SFTP
Host name: <www.mydomain.com>
Port: 22
User name: <user>
Click button Advanced, then select your myserver.ppk file under
SSH->Authentication
```

Now, open Secure Shell in Chrome, establish the connect, then start WinSCP and connect. After a short while, you should see your remote directory.

Links

- [Chrome download](#)
- [Secure Shell plugin](#)
- [WinSCP download](#)
- [PuTTY download](#)
- [nassh-relay documentation and download](#)
- [nassh-relay](#)
- [Web-based SSH](#)
- [SSH/OpenSSH/PortForwarding](#)
- [SSH Through or Over Proxy](#)
- [List of TCP and UDP port numbers](#)

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