

How to connect to server on strange port, or when you're behind a firewall

Situation

```
cpuxxxx -> FW -> intermediateserver -> targetserver  
  
22.....-> 22 -> 22.....-> portnumber_on_targetserver
```

Connect

On cpuxxxx:

```
ssh -  
L portnumber_on_targetserver:targetserver:portnumber_on_targetserver username_on_intermediateserver  
@intermediateserver
```

Leave terminal open!

Then on cpuxxxx again:

```
ssh -YC username_on_targetserver@localhost -p portnumber_on_targetserver
```

That's it!!

Copy files

from here tot server:

```
scp -P portnumber_on_targetserver file user@localhost:/path/were/to/put/it/
```

from server to local:

```
scp -P portnumber_on_targetserver user@localhost:/path/were/to/get/it/from/ .
```

mount filesystem over ssh using sshfs

```
sshfs user@localhost:/data/videos/ mnt/ -p portnumber
```

Rsync

from server to localdisk:

```
rsync -avz -e 'ssh -p PORTNUMBER' USER@localhost:/data/htdocs/motion/ /data/motion/
```

Start Konversation from behind a firewall

```
ssh -L 6667:irc.freenode.org:6667 user@xs3.xs4all.nl  
konversation --server localhost
```

Start Pidgin from home to wzs

- in a terminal typ:

```
ssh -L 8300:gwmmsg.wonen.amsterdam.nl:8300 root@wzs
```

- leave terminal open
- start pidgin and fill in:

```
server: localhost  
port: 8300
```

reverse tunnel

- From the machine at work, create a tunnel to your machine running ssh at home:

```
randolf@workserver:~$ ssh -vvv randolf@myhomeserver -R 44455:localhost:22
```

This will forward the remote port 44455 from your home server to port 22 (or whichever port ssh is listening on) on your work machine.

- From home, check to see if anything is listening on 44455

```
randolf@homeserver:~$ netstat -an | grep 44455
```

```
tcp        0      0 127.0.0.1:44455      0.0.0.0:*            LISTEN
```

- Next, to connect from home to your work machine, from your home server:

```
randolf@homeserver:~$ ssh localhost -p 44455
```

```
Password: *****
```

From there you should be connected to your work machine via your tunnel.

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