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To port Forward general ports from a Linux box to a Windows Client

Problem: MySQL will only allow connections coming from localhost.

Solution: Port Forward port 3306 through a SSH tunnel. Connect to MYSQL on mysql.server.ie

```
Putty:  
mysql.server.ie:22  
user = steve  
pass = usual one
```

```
SSH Tunnel:  
Source port: 3306  
Destination: localhost:3306  
(Local Port)
```

On the Windows Client:

```
mysql -h localhost -u steveb -p  
pass = password  
Use database
```

To Port Forward a Windows/ Samba Network share via an Outside Linux Box onto a Windows PC

Tunneling using Putty: In Tunnels Option ->

```
Source Port: 127.0.0.2:139  
Destination: 136.x.x.x:139
```

In an Address Bar or Run box (Windows):

```
\\127.0.0.2\sharename
```

Port Forwarding in Linux

This can also be automated in the ~/.ssh Directory

Has to be tested and confirmed:

```
ssh -N -L 3333:136.xxx.xxx.xxx:5900 -x skynet.ie
```

Semi-Long Term Port Forwarding from Windows to Linux

Situation: you can connect to a Linux server on your LAN - however you need to access an external server through this linux server. You want to put a semi-permanent port forwarding in place.

You could use PuTTY using the method above - but putty would have to be open all the time.

Use portforwarding on the local linux server.

Login to the ssh server:

```
ssh -f -g -L 3221:test.burkesys.com:22 -l username local.linux.pc sleep 600d
// -f = fork into the background
// -g = allow external clients from the LAN connect to 3221
// -L = Local port forward
// -l = username of local linuxpc

telnet local.linux.pc 3221
//try the above on your local windows pc etc. It should connect through on port 3221.
```

Note if the linux pc has a firewall - it wont work. To see if its working on the local linux pc:

```
ps -eaf
netstat -na
```

More Info: http://www.howtoforge.com/nfs_ssh_tunneling

Long Term Port Forwarding using iptables

Not tested yet. I presume NAT will have to be used.