



Exercise 15.1: Lock down services using tcpwrappers

- Install and test the **telnet** server.
- Using TCP wrappers, lock down all services except **sshd**.

Solution 15.1

1. Ensure that the **telnet** server is installed:

- On **CentOS**:

```
# yum install telnet-server
```

- On **OpenSUSE**:

```
# zypper install telnet-server
```

- On **Ubuntu**:

```
# apt-get install telnetd xinetd
```

2. Enable and test the **telnet** server: NOTE: you may have to enable the **xinetd** daemon.

- On **CentOS** or **OpenSUSE**

```
# systemctl start telnet.socket
# telnet localhost
```

- On **Ubuntu**:

Create an **xinetd** configuration file for the **telnet** daemon. Edit the file `/etc/xinetd.d/telnet` and add the following contents:

```
service telnet
{
    socket_type    = stream
    protocol      = tcp
    wait          = no
    user          = root
    server        = /usr/sbin/in.telnetd
}
```

Restart the xinet daemon to have it pick up the new service. Test the telnet service.

```
# systemctl restart xinetd
# telnet localhost
```

3. Enable **sshd** in `/etc/hosts.allow`:

```
sshd : all
```

4. Disable all other access in `/etc/hosts.deny`:

```
all : all
```

5. Test the connection to **telnet** (it should fail):

```
$ telnet localhost
```