



# Installation tcpwrapper access control for inetd 19<sup>th</sup> of October 2000

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Author:	Ivan Buetler, Compass Security AG <a href="mailto:ivan.buetler@csnc.ch">ivan.buetler@csnc.ch</a> <a href="http://www.csnc.ch/">http://www.csnc.ch/</a>
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GLÄRNISCHSTR. 7  
POSTFACH 1671  
CH-8640 RAPPERSWIL

Tel. +41 55-214 41 60  
Fax +41 55-214 41 61  
info@csnc.ch www.csnc.ch



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## 1 Installation

### 1.1 Introduction

With this package you can monitor and filter incoming requests for the SYSTAT, FINGER, FTP, TELNET, RLOGIN, RSH, EXEC, TFTP, TALK, and other network services.

Compass has also tried out xinetd. This inetd daemon provides a cool feature to bind inetd services to specific interfaces. This is mostly interesting on Solaris system with multiple interfaces.

### 1.2 Version control

Version	Author	Description	Filename
1.0	Ivan Buetler ivan.buetler@csnc.ch	Initial version saved on <a href="http://www.csnc.ch/download/">http://www.csnc.ch/download/</a>	Installation-tcpwrapper-V1.0.pdf

[Ivan] If you feel like having something you would like to see in this document, pls. Let me know. I will leave the version control chapter in the future. So everybody can see who did what on this document.

### 1.3 Download source

Download tcpwrapper from:

<ftp.win.tue.nl:/pub/security/>

### 1.4 Copy the source to /opt/download

Compass recommends to copy or move all sources to the /opt/download directory. After the successful compilation and installation, the sources go to /opt/installed directory. If the Solaris Administrator wants to check whether a package is already installed or not, he can use the traditional pkginfo (Solaris packages) and the list of /opt/installed to check versions of installed packages.

### 1.5 Unpack the source

```
gzip -d tcpwrapper.tar.gz  
tar -xvf tcpwrapper.tar
```

This will untar the sources into /opt/download/tcpwrapper directory



## 1.6 Installation

edit Makefile

```
# SysV.4 Solaris 2.x OSF AIX
REAL_DAEMON_DIR=/usr/local/sbin
```

make

```
corro:tcp_wrappers_7.6# make
```

Usage: edit the REAL\_DAEMON\_DIR definition in the Makefile then:

```
make sys-type
```

If you are in a hurry you can try instead:

```
make REAL_DAEMON_DIR=/foo/bar sys-type
```

And for a version with language extensions enabled:

```
make REAL_DAEMON_DIR=/foo/bar STYLE=-DPROCESS_OPTIONS sys-type
```

This Makefile knows about the following sys-types:

```
generic (most bsd-ish systems with sys5 compatibility)
386bsd aix alpha apollo bsdos convex-ultranet dell-gcc dgux dgux543
dynix epix esix freebsd hpux irix4 irix5 irix6 isc iunix
linux machten mips(untested) ncrsvr4 netbsd next osf power_unix_211
ptx-2.x ptx-generic pyramid sco sco-nis sco-od2 sco-os5 sinix sunos4
sunos40 sunos5 sysv4 tandem ultrix unicos7 unicos8 unixware1 unixware2
uts215 uxp
```

If none of these match your environment, edit the system dependencies sections in the Makefile and do a 'make other'.

make sunos5

```
corro:tcp_wrappers_7.6# make sunos5
make[1]: Entering directory `/opt/cd-burn/installed/source/tcp_wrappers_7.6'
cc -O -DFACILITY=LOG_MAIL -DHOSTS_ACCESS -DPARANOID -DNETGROUP -DGETPEERNAME_BUG -
DBROKEN_FGETS -DLIBC_CALLS_STRTOK -DSOLARIS_24_GETHOSTBYNAME_BUG -DDAEMON_UMASK=022 -
DREAL_DAEMON_DIR="/usr/local/sbin" -DSEVERITY=LOG_INFO -DRFC931_TIMEOUT=10 -
DHOSTS_DENY="/etc/hosts.deny" -DHOSTS_ALLOW="/etc/hosts.allow" -DTLI -DALWAYS_HOSTNAME -c tcpd.c
cc -O -DFACILITY=LOG_MAIL -DHOSTS_ACCESS -DPARANOID -DNETGROUP -DGETPEERNAME_BUG -
DBROKEN_FGETS -DLIBC_CALLS_STRTOK -DSOLARIS_24_GETHOSTBYNAME_BUG -DDAEMON_UMASK=022 -
DREAL_DAEM
```

copy binaries into /usr/local/sbin

```
find . -type f -perm 755|xargs cp /usr/local/sbin
```

```
-rwxr-xr-x 1 root other 10572 Sep 18 17:32 safe_finger
-rwxr-xr-x 1 root other 29888 Sep 18 17:32 tcpd
-rwxr-xr-x 1 root other 29852 Sep 18 17:32 tcpdchk
-rwxr-xr-x 1 root other 37808 Sep 18 17:32 tcpdmatch
-rwxr-xr-x 1 root other 25176 Sep 18 17:32 try-from
```



## 1.7 Configure software

- edit /etc/hosts.allow
- edit /etc/hosts.deny
- edit /etc/inetd.conf

## 1.8 Configuration Example

The following inetd entry is a tcpwrapper protected example. We assume ftp would be started by inetd.

/etc/hosts.deny

```
ALL: ALL
```

/etc/hosts.allow

```
in.ftpd: 192.168.100.20
```

/etc/inetd.conf

```
ftp stream tcp nowait root /usr/local/sbin/tcpd in.ftpd
```

## 1.9 Clean-up Installation

Compass recommends to tar the already running distribution and move it to /opt/installed directory.

```
cd /opt/download/tcpwrapper
tar -cvpf tcpwrapper-compiled.tar *
mv ./tcpwrapper-compiled.tar /opt/installed
```