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Configure and manage inetd, xinetd, and related services Weight 4

Linux Professional Institute Certification — 102

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Description of Objective

Candidates should be able to configure which services are available through inetd, use tcpwrappers to allow or deny services on a host-by-host basis, manually start, stop, and restart internet services, configure basic network services including telnet and ftp. Set a service to run as another user instead of the default in inetd.conf.

Key files, terms, and utilities include:

/etc/inetd.conf
/etc/hosts.allow
/etc/hosts.deny
/etc/services
/etc/xinetd.conf
/etc/xinetd.log

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Configure and manage inetd, xinetd, and related services

Candidates should be able to configure which services are available through inetd, use topwrappers to allow or deny services on a host-by-host basis, manually start, stop, and restart internet services, configure basic network services including **telnet** and **ftp**. Set a service to run as another user instead of the default in inetd.conf.

Configure and manage inetd, xinetd, and related services

```
/etc/inetd.conf
/etc/hosts.allow
/etc/hosts.deny
/etc/services
/etc/xinetd.conf
/etc/xinetd.log
```

inetd/xinetd

The internet "super-server"

A daemon which listens on many ports and fires off the appropriate command to handle incoming requests

Controlled through /etc/inetd.conf

xinetd is an enhanced replacement

Fields are:

service name sock type proto flags user server path args

```
# UW-IMAP server
imap2 stream tcp nowait root /usr/sbin/tcpd /usr/sbin/imapd
imap3 stream tcp nowait root /usr/sbin/tcpd /usr/sbin/imapd
imaps stream tcp nowait root /usr/sbin/tcpd /usr/sbin/imapd
# Exim mail server
smtp stream tcp nowait mail /usr/sbin/exim exim -bs
```

Built-in services (often disabled)

echo	stream	tcp	nowait	root	internal
echo	dgram	udp	wait	root	internal
chargen	stream	tcp	nowait	root	internal
chargen	dgram	udp	wait	root	internal
discard	stream	tcp	nowait	root	internal
discard	dgram	udp	wait	root	internal
daytime	stream	tcp	nowait	root	internal
daytime	dgram	udp	wait	root	internal
time	stream	tcp	nowait	root	internal
time	dgram	udp	wait	root	internal

hosts.allow / hosts.deny

"TCP Wrappers" aka **tcpd**

```
Manpage is hosts_access(5)
# /etc/hosts.allow
sshd: ALL
imapd: 10.0.6.19
       10.0.128.96/255.255.255.224
# /etc/hosts.deny
#ALL: PARANOID
ALL:
       ALL
xinetd
  Same idea—ludicrous number of options
service smtp
        socket_type
                         = stream
        protocol
                         = tcp
        wait
                         = no
                         = mail
        user
                         = /usr/sbin/exim
        server
```

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server args

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