1.113.1

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

Linux Professional Institute Certification — 102

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

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Context

Objective

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Outline

Context
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inetd, xinetd

inetd.conf tcpwrappers xinetd License Of This Document

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Topic 113 Networking Services [24] Where we are up to

1.113.1 Configure and manage inetd, xinetd, and related services [4]

- 1.113.2 Operate and perform basic configuration of sendmail [4]
- 1.113.3 Operate and perform basic configuration of Apache [4]
- 1.113.4 Properly manage the NFS, smb, and nmb daemons [4]
- 1.113.5 Setup and configure basic DNS services [4]
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inetd

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Description of Objective

1.113.1 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.

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```
Key files, terms, and utilities include:
```

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/etc/inetd.conf — configuration file for the older inetd

/etc/hosts.allow — TCP Wrappers configuration file, consulted first

network ports
/etc/xinetd.conf — configuration file for

xinetd, which has built-in support for TCP Wrappers, so is now used more than inetd

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inetd/xinetd

- ► The internet "super-server"
- A daemon which listens on many ports and fires off the appropriate command to handle incoming requests
- ▶ inetd is used in older/smaller systems
 - Controlled through /etc/inetd.conf
- xinetd is an enhanced replacement
 - Controlled through /etc/xinetd.conf...
 - ... and through individual files in directory /etc/xinetd.d/

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Fields are: service_name sock_type proto flags user server_path args

UW-TMAP server

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

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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

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inetd.conf

hosts.allow / hosts.deny

"TCP Wrappers" aka **tcpd**

Manpage is hosts_access(5)

/etc/hosts.allow

sshd: ALL

imapd: 10.0.6.19

ALL: 10.0.128.96/255.255.255.224

/etc/hosts.deny
#ALL: PARANOID

ALL: ALL

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xinetd

- Same function as inetd
- Has built-in support for TCP Wrappers, so is now used for recent distributions instead of inetd
- package management system (i.e., dpkg, rpm) drops a file into directory

```
/etc/xinetd.d/ instead of having to edit
/etc/inetd.conf
```

Here is such a file for the exim mail server to run under xinetd:

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Topics Covered

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 inetd.conf

tcpwrappers

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