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

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Context

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1.113.1

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

Linux Professional Institute Certification — 102

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Outline

Context
Objective
inetd, xinetd

inetd.conf tcpwrappers xinetd License Of This Document

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Contex

Objective

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inetd

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

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Objective

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1.113.1	Configure and manage inetd, xinetd, a	nc
	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]
- 1.113.7 Set up secure shell (OpenSSH) [4]

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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/etc/inetd.conf — configuration file for the older inetd /etc/hosts.allow — TCP Wrappers configuration file, consulted first

/etc/hosts.deny — TCP Wrappers configuration file, consulted second

/etc/services — file mapping service names ↔ network ports

/etc/xinetd.conf — configuration file for xinetd, which has built-in support for TCP Wrappers, so is now used more than inet.d

/etc/xinetd.log — a file that appears to exist only in LPI objectives, but see \$ man 5 xinetd.log ← ロト 4 伊ト 4 ヨト 4 ヨト ヨ の9 0

inetd/xinetd

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Objective

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- 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/

Outline

Context
Objective
inetd, xinetd

inetd.conf tcpwrappers xinetd 1.113.1 Configure and manage inetd, xinetd, and related services Weight 4

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Contex

Objective

inetd.conf

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inetd.conf

```
Fields are:
service_name sock_type proto flags user server path args
```

```
# UW-TMAP server
imap2
                   nowait
                                /usr/sbin/tcpd
                                                 /usr/sbin/imapd
     stream
              tcp
                           root
                                                /usr/sbin/imapd
imap3 stream
              tcp
                   nowait
                           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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inetd.conf

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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

Manpage is hosts access(5)

/etc/hosts.allow

sshd: ALL

imapd: 10.0.6.19

10.0.128.96/255.255.255.224 ALL:

/etc/hosts.deny

#ALL: PARANOID

ALL: ALL

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tcpwrappers

- ► Has built-in support for TCP Wrappers, so is now used for recent distributions instead of inet.d
- 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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Context

Objective

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xinetd

Context

Objective

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xinetd

Context

Objective

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xinetd

Context

Objective

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Context

Objective

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Weight 4
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Context

Objective

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xinetd

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Context

Objective

inetd, xinetd
 inetd.conf

tcpwrappers

xinetd

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Context

Objective

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