1.114.2 Setup host security Weight 3 Linux Professional Institute Certification — 102

Nick Urbanik <nicku@nicku.org> This document Licensed under GPL—see section 5

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1.114.2 Setup host security Weight 3

Nick Urbanik

Contex

Objective

Set up mail alias for root's mail

Turning off unused network services

Outline

Context Objectives Set up mail alias for root's mail Turning off unused network services Some basic rules of

some basic rules

Identify running services Turning off services on Red Hat/Fedora Turning off services on Debian/Ubuntu

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Topic 114 Security [8] Where we are up to

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1.114.1 Perform security administration tasks [4]

1.114.2 Setup host security [3]

1.114.3 Setup user level security [1]

Description of Objective 1.114.2 Setup host security [3]

use.

Candidate should know how to set up a basic level of host security. Tasks include syslog configuration, shadowed passwords, set up of a mail alias for root's mail and

turning of [sic] all network services not in

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Key files, terms, and utilities include: 1.114.2 Setup host security [3]

/etc/inetd.conf or /etc/inet.d/* — Where
 you turn off all unneeded xinetd
 services

/etc/nologin — only allows root to log in if this file exists. Other users shown contents of this file. For maintenance.

/etc/passwd — the file that should not contain passwords. See topic 1.111.1 Manage users and group accounts and related system files

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Set up mail alias for root's mail

- Many important problems are sent as mail to the root user
- You should not be logging in as root, use sudo
- You should be reading that email
- ... so you should create an alias for root that sends root's mail to you:

\$ grep '^root' /etc/postfix/aliases \leftrightarrow root: nicku

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Some basic rules of security

Use minimum privilege to do what is required

Provide only the services your users need

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Identify running services

Turning off services on Red Hat/Fedora

Turning off services on Debian/Ubuntu

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Identify running services

- See what services are configured to start:
 - $\$ chkconfig -list | grep on \leftarrow
- Determine what package each service turned on comes from with a command like
 - srpm -qif /etc/init.d/ $\langle service\text{-name} \rangle \leftrightarrow$
- Decide whether this service should be turned off
- You can also check running processes with ps and top

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Turning off services on Red Hat/Fedora

- On Red Hat/Fedora systems:
 - Remove the software package, e.g.,

```
\$ rpm -e telnet \hookleftarrow
```

```
or
```

- ► Disable the service: \$ chkconfig -del sendmail ↔ or \$ chkconfig sendmail off ↔
- Note that chkconfig also turns services on and off in xinetd as well.
- > You should also be able to turn them off manually:

```
$ grep disable /etc/xinetd.d/telnet ↔
disable = yes
```

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Identify what runlevels a service starts/stops

To find what runlevels a service (service) will start and stop on, do:

find /etc/rc* -name '*(*service*)' \leftrightarrow

- Example: to see what links exist for squid:
 - $find /etc/rc \star -name ' \star squid' \leftrightarrow$

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▶ See \$ man update-rc.d \leftarrow
```

- To disable a service (service) that normally starts, do: \$ sudo update-rc.d -f (service) remove <->
- ► For example, to disable initialisation of squid, do:
 - \$ sudo update-rc.d -f squid remove <-->
- Turn off xinetd service (service) by editing /etc/xinetd.d/(service), or if possible, turn xinetd off altogether:

\$ sudo update-rc.d -f xinetd remove \leftarrow

- Finally, if you liked ntsysv on Red Hat, then do
 - \$ sudo apt-get install rcconf \leftarrow

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Topics Covered

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