– General Linux 2 –

Notify Users on System Related Issues [1]

(Linux Professional Institute Certification)

a

```
  .~.
  /V\       by: geoffrey robertson
 // \\         geoffrey@zip.com.au
 @._.@
%%$Id: gl2.108.5.slides.tex,v 1.1 2003/09/10 03:50:07 geoffr Exp $%$
```

Notify Users on System Related Issues

Objective

Candidates should be able to notify the users about current issues related to the system. This objective includes automating the communication process, e.g. through logon messages.

Notify Users on System Related Issues

Key files, terms, and utilities

```
/etc/issue
/etc/issue.net
/etc/motd
```

Customize the Local Login screen with `/etc/issue`

- The login screen for RH73 looks like this:

```
Red Hat Linux release 7.3 (Valhalla)
Kernel 2.4.18-3 on an i686

login:
```

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- The `getty` process spawned by init presents the contents of the file `/etc/issue` and provides a `login:` prompt for the user.

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Kernel 2.4.18-3 on an i686


login:
```

- The `getty` process spawned by init presents the contents of the file `/etc/issue` and provides a `login:` prompt for the user.

- The file `/etc/issue`

```
$ cat /etc/issue ↩
Red Hat Linux release 7.3 (Valhalla)
Kernel \r on an \m
```

man issue

NAME
       issue - pre-login message and identification file

DESCRIPTION
       The file /etc/issue is a text file which contains a message or
       system identification to be printed before the login prompt.   It
       may contain various @char and \char sequences, if supported by
       getty(1).

FILES
       /etc/issue

SEE ALSO
       getty(1), motd(5)

Linux
1993-07-24   ISSUE(5)

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man getty—embedded in the `/etc/issue`

```
\d      insert current day (localtime),

\l      insert line on which mingetty is running,

\m      inserts machine architecture (uname -m),

\n      inserts machine's network node hostname (uname -n),

\o      inserts domain name,

\r      inserts operating system release (uname -r),

\t      insert current time (localtime),

\s      inserts operating system name,

\u      resp. \U the current number of users which are currently
        logged in.  \U inserts "n users", where as \u only inserts "n".

\v      inserts operating system version (uname -v).
```

Telnet uses `/etc/issue.net`

The following sequences are supported by telnetd:

```
%l      - show the current tty
%h, %n
        - show the system node name (FQDN)
%D, %o
        - show the name of the NIS domain
%d, %t
        - show the current time and date
%s      - show the name of the operating system
%m      - show the machine (hardware) type
%r      - show the operating system release
%v      - show the operating system version
%%      - display a single '%' character
```

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Message of the Day—`motd`

Login Sequence

- Contents of `/etc/issue` is displayed.

Message of the Day—`motd`

Login Sequence

- Contents of `/etc/issue` is displayed.

- `getty` displays the login prompt.

Message of the Day—`motd`

Login Sequence

- Contents of `/etc/issue` is displayed.

- `getty` displays the login prompt.

- `/bin/login` handles the login process.

Message of the Day—`motd`

Login Sequence

- Contents of `/etc/issue` is displayed.

- `getty` displays the login prompt.

- `/bin/login` handles the login process.

    - User is authorized.

Message of the Day—`motd`

Login Sequence

- Contents of `/etc/issue` is displayed.

- `getty` displays the login prompt.

- `/bin/login` handles the login process.

  - User is authorized.

  - Contents of `/etc/motd` is displayed.

Message of the Day—`motd`

Login Sequence

- Contents of `/etc/issue` is displayed.

- `getty` displays the login prompt.

- `/bin/login` handles the login process.

  - User is authorized.

  - Contents of `/etc/motd` is displayed.

  - The login shell is executed.

Manpage for motd

NAME

       motd - message of the day

DESCRIPTION

       The contents of /etc/motd are displayed by login(1) after a suc
       cessful login but just before it executes the login shell.

       The abbreviation "motd" stands for "message of the day", and this
       file has been traditionally used for exactly that (it requires
       much less disk space than mail to all users).

FILES

       /etc/motd

SEE ALSO

       login(1), issue(5)

motd

motd

```
$ cat /etc/motd ←
Have a nice day :-)
$ ^D
```

motd

```
$ cat /etc/motd ↩
Have a nice day :-)
$^D
```

```
Red Hat Linux release 9 (Shrike)
Kernel 2.4.20-8 on an i686

marsbar login: geoffrey
Password:
Last login: Wed Sep 10 22:23:15 on tty2
Have a nice day :-)
You have new mail.
$
```

Notify Users of System Related Issues

Login Screen `/etc/issue`

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Login Screen `/etc/issue`

Telnet Login Screen `/etc/issue.net`

Notify Users of System Related Issues

Login Screen `/etc/issue`

Telnet Login Screen `/etc/issue.net`

Login message `/etc/motd`

Notify Users of System Related Issues

Login Screen `/etc/issue`

Telnet Login Screen `/etc/issue.net`

Login message `/etc/motd`

wall Message to all terminals

Notify Users of System Related Issues

Login Screen `/etc/issue`

Telnet Login Screen `/etc/issue.net`

Login message `/etc/motd`

wall Message to all terminals

talk Split screen message

Notify Users of System Related Issues

Login Screen `/etc/issue`

Telnet Login Screen `/etc/issue.net`

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wall Message to all terminals

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Email Users list

Notify Users of System Related Issues

Login Screen `/etc/issue`

Telnet Login Screen `/etc/issue.net`

Login message `/etc/motd`

wall Message to all terminals

talk Split screen message

Email Users list

Phone They have a phone

Notify Users of System Related Issues

Login Screen `/etc/issue`

Telnet Login Screen `/etc/issue.net`

Login message `/etc/motd`

wall Message to all terminals

talk Split screen message

Email Users list

Phone They have a phone

Visit They have an office

The End