

1.108.5

Notify users on system-related issues

Weight 1

Linux Professional Institute Certification — 102

Geoffrey Robertson `ge@ffrey.com` Nick Urbanik
`nicku@nicku.org`

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Outline

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/etc/issue

Manpage for `issue`
getty strings you can use
in `issue`

`telnet` and `issue.net`

Message of the Day: `motd`

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Topic 108 Documentation [8]

Where we are up to

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1.108.1 Use and Manage Local System Documentation
[4]

1.108.2 Find Linux Documentation on the Internet [3]

1.108.5 **Notify Users on System Related Issues [1]**

Description of Objective

1.108.5 Notify users on system-related issues

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.

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Key files, terms, and utilities include:

`/etc/issue` —

`/etc/issue.net` — File containing message displayed when users log in via `telnet` (which should be never! :-)

`/etc/motd` — Message of the day file: displayed when log in via `ssh` or the console

Customize the Local Login screen with

/etc/issue

- ▶ The login screen for Fedora Core 4 looks like this:

```
Fedora Core release 4 (Stentz)
Kernel 2.6.13-1.1526_FC4smp 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 ↵
Fedora Core release 4 (Stentz)
Kernel \r on an \m
```

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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` insert the number of current users logged in
- `\U` inserts “1 user” or “ $\langle n \rangle$ users”, where $\langle n \rangle$ is the number of users logged in
- `\v` inserts operating system version (`uname -v`).

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Telnet uses /etc/issue.net

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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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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.

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MOTD (5) Linux Programmer's Manual MOTD (5)

NAME

motd - message of the day

DESCRIPTION

The contents of `/etc/motd` are displayed by `login(1)` after a successful 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)`

Linux 1992-12-29 MOTD (5)

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motd

```
$ cat /etc/motd ←  
G'day! :-)  
$ exit ←
```

```
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  
G'day! :-)  
You have new mail.  
$
```

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$ cat /etc/motd ←  
G'day! :-)  
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Red Hat Linux release 9 (Shrike)  
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G'day! :-)  
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It also works with `ssh`

```
$ ssh nicku.org ↵  
Last login: Thu Oct 27 10:51:21 2005 from nicku.org  
G'day! :-)  
$ cat /etc/motd ↵  
G'day! :-)  
$
```

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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

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Manpage for `issue`
getty strings you can use in `issue`

`telnet` and `issue.net`

Message of the Day: `motd`

Manpage for `motd`
`motd` in action

Ways of notifying users

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1.108.5
Notify users on
system-related issues
Weight 1

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Context

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