Table Of Contents

| Fable Of Contents | 1 |
|--|---|
| Display stat for /etc/passwd file | 2 |
| Other valid format sequences for files | |

nixCraft: Linux Tips, Hacks, Tutorials, And Ideas In Blog Format http://www.cyberciti.biz/

Home > Faq > BASH Shell

Find the file permission without using Is -I command

Posted by Vivek Gite <vivek@nixcraft.com>

Q. I need to find file permission and store the same to a shell variable. How do I find out the file permission without parsing Is -I output?

A. Use GNU stat command to display file or file system status. It has option to display output in specific format.



[1]

Display stat for /etc/passwd file

Type the following command:

```
$ stat /etc/passwd
```

Output:

```
File: `/etc/passwd'
Size: 1675 Blocks: 8 IO Block: 4096 regular file
Device: 802h/2050d Inode: 7899368 Links: 1
Access: (0644/-rw-r--r--) Uid: ( 0/ root) Gid: ( 0/ root)
Access: 2007-12-05 08:20:31.0000000000 +0530
Modify: 2007-12-04 23:36:50.0000000000 +0530
Change: 2007-12-04 23:36:50.00000000000 +0530
```

Print access rights in octal format:

```
$ stat -c %a /etc/passwd
```

Output:

644

Print access rights in human readable format, enter:

```
$ stat -c %A /etc/passwd
```

Output:

-rw-r--r--

Store access rights in octal format to a shell variable:

```
$ VAR=$(stat -c %a /etc/passwd)
$ echo $VAR
```

Other valid format sequences for files

- %b: Number of blocks allocated (see %B)
- %B: The size in bytes of each block reported
- %d: Device number in decimal
- %C: SELinux security context
- %D: Device number in hex
- %f: Raw mode in hex
- %F : File type
- %g: Group ID of owner

- %G: Group name of owner
- %h: Number of hard links
- %i: Inode number
- %n: File name
- %N: Quoted file name with dereference if symbolic link
- %o: I/O block size
- %s: Total size, in bytes
- %t : Major device type in hex
- %T : Minor device type in hex
- %u: User ID of owner
- %U: User name of owner
- %x : Time of last access
- %X: Time of last access as seconds since Epoch
- %y: Time of last modification
- %Y: Time of last modification as seconds since Epoch
- %z : Time of last change
- %Z: Time of last change as seconds since Epoch

4000+ howtos and counting! Want to read more Linux / UNIX howtos, tips and tricks? Subscribe to our <u>daily email</u> newsletter or <u>weekly newsletter</u> to make sure you don't miss a single tip/tricks. Alternatively, subscribe via <u>RSS/XML</u> feed.

Article printed from Frequently Asked Questions About Linux / UNIX: http://www.cyberciti.biz/faq/

URL to article: http://www.cyberciti.biz/faq/display-file-or-file-system-status/

URLs in this post:

[1] Image: http://www.cyberciti.biz/faq/faq/category/bash-shell/

Copyright © 2006-2010 <u>nixCraft</u>. All rights reserved. This print / pdf version is for personal non-commercial use only. More details http://www.cyberciti.biz/tips/copyright.