

Table Of Contents

Table Of Contents 1

How do I find out owner / group name for a file? 2

 ls -l file mode (permissions) 3

[Home](#) > [Faq](#) > [BASH Shell](#)

UNIX / Linux Find File Owner Name

Posted by [Vivek Gite](#) <vivek@nixcraft.com>

Q. How do I find out the name of file / directory owner under UNIX / Linux operating systems?

A. You can use `ls -l` command (list information about the FILEs) to find out the file / directory owner and group names.

UNIX

[1]

The `-l` option is known as long format which displays Unix / Linux / BSD file types, permissions, number of hard links, owner, group, size, date, and filename. In some environments and UNIX versions / Linux distributions, providing the option `--color` (for GNU `ls`) or `-G` (FreeBSD `ls`) causes `ls` to highlight different types of files with different colors.

```
lrwxrwxrwx 1 root root 7 Nov 7 2007 rc -> rc.d/rc
lrwxrwxrwx 1 root root 10 Nov 7 2007 rc0.d -> rc.d/rc0.d
lrwxrwxrwx 1 root root 10 Nov 7 2007 rc1.d -> rc.d/rc1.d
lrwxrwxrwx 1 root root 10 Nov 7 2007 rc2.d -> rc.d/rc2.d
lrwxrwxrwx 1 root root 10 Nov 7 2007 rc3.d -> rc.d/rc3.d
lrwxrwxrwx 1 root root 10 Nov 7 2007 rc4.d -> rc.d/rc4.d
lrwxrwxrwx 1 root root 10 Nov 7 2007 rc5.d -> rc.d/rc5.d
lrwxrwxrwx 1 root root 10 Nov 7 2007 rc6.d -> rc.d/rc6.d
drwxr-xr-x 10 root root 4096 Nov 7 2007 rc.d
lrwxrwxrwx 1 root root 13 Nov 7 2007 rc.local -> rc.d/rc
lrwxrwxrwx 1 root root 15 Nov 7 2007 rc.sysinit -> rc.d/
drwxr-xr-x 2 root root 4096 Jul 10 2007 readahead.d
-rw-r--r-- 1 root root 435 May 11 15:17 reader.conf
drwxr-xr-x 2 root root 4096 Jul 10 2007 reader.conf.d
-rw-r--r-- 1 root root 54 Aug 15 2007 redhat-release
-rw-r--r-- 2 root root 70 Feb 8 08:57 resolv.conf
lrwxrwxrwx 1 root root 11 Jul 10 2007 rmt -> ../sbin/rmt
lrwxrwxrwx 1 root named 31 Jul 10 2007 rndc.key -> /var/na
-rw-r--r-- 1 root root 1615 Aug 30 2001 rpc
drwxr-xr-x 2 root root 4096 Nov 23 14:15 rpm
-rw-r--r-- 1 root root 7041 Oct 31 2006 redhat.conf
```

[2]

(Fig. 01: Linux file colors)

```
brw-r--r-- 1 unixguy staff 64, 64 Jan 27 05:52 block
crw-r--r-- 1 unixguy staff 64, 255 Jan 26 13:57 character
-rw-r--r-- 1 unixguy staff 290 Jan 26 14:08 compressed.gz
-rw-r--r-- 1 unixguy staff 331836 Jan 26 14:06 data.ppm
drwxrwx--x 2 unixguy staff 48 Jan 26 11:28 directory
-rwxrwx--x 1 unixguy staff 29 Jan 26 14:03 executable
prw-r--r-- 1 unixguy staff 0 Jan 26 11:50 fifo
lrwxrwxrwx 1 unixguy staff 3 Jan 26 11:44 link -> dir
-rw-rw---- 1 unixguy staff 217 Jan 26 14:08 regularfile
```

[3]

(Fig. 02: Understanding Linux / UNIX file colors code [image credit wikipedia])

How do I find out owner / group name for a file?

Type the `ls -l` command at a shell prompt:

```
$ ls -l filename
```

Sample output:

```
-rw-r--r-- 1 vivek admin 2558 Jan 8 07:41 filename
```

Where,

- `-rw-r--r--` : [file mode](#) [4]

- **1** - number of links
- **vivek** - **Owner name** (if user name is not a known user, the numeric user id displayed)
- **admin** - **Group name** (if group name is not a known group, the numeric group id displayed)
- **2558** - number of bytes in the file (file size)
- **Jan 8 07:41** - abbreviated month, day-of-month file was last modified, hour file last modified, minute file last modified
- **filename** - File name / pathname

ls -l file mode (permissions)

Quoting from the unix ls command man page - the file mode printed under the -l option consists of the entry type and the permissions. The entry type character describes the type of file, as follows:

-	Regular file.
b	Block special file.
c	Character special file.
d	Directory.
l	Symbolic link.
p	FIFO.
s	Socket.
w	Whiteout.

The next three fields are three characters each: owner permissions, group permissions, and other permissions. Each field has three character positions:

1. If **r**, the file is readable; if **-**, it is not readable.
2. If **w**, the file is writable; if **-**, it is not writable.
3. The first of the following that applies:
 - **S** : If in the owner permissions, the file is not executable and set-user-ID mode is set. If in the group permissions, the file is not executable and set-group-ID mode is set.
 - **s** : If in the owner permissions, the file is executable and set-user-ID mode is set. If in the group permissions, the file is executable and set-group-ID mode is set.
 - **x** : The file is executable or the directory is searchable.
 - **-** : The file is neither readable, writable, executable, nor set-user-ID nor set-group-ID mode, nor sticky.
4. These next two apply only to the third character in the last group (other permissions).
 - **T** : The sticky bit is set (mode 1000), but not execute or search permission.
 - **t** : The sticky bit is set (mode 1000), and is search able or executable.

See ls command man page for more information:

```
$ man ls
```

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

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

URL to article: <http://www.cyberciti.biz/faq/unix-linux-find-file-owner-name/>

URLs in this post:

[1] Image: <http://www.cyberciti.biz/faq/faq/category/unix/>

[2] Image: <http://www.cyberciti.biz/faq/wp-content/uploads/2008/05/linux-file-permissions-ls-color.png>

[3] Image: <http://www.cyberciti.biz/faq/wp-content/uploads/2008/05/linux-file-permissions-ls-color1.png>

[4] file mode: `#lsmode`

