2022年6月21日 17:34



```
1_chmod_vi
202章6月17日星期五 07:10
                                file link executable
1s-F revent File types
 1s - latt
  1s-12 -> tree -d list directories

tree -C colonia output
                                      tree show all
tree -d show only directories,
                                                     the files are not shown.
  1s -d list directory name, not contents
  IS -- color colorize the output \sim 1s-F (beiden distinguish 1s--culor-F 1show the color and type of files.
   - Hyphens Idash
  _ Underscores
       Canel Case
  File name with spaces:
  55th quotes: 18-L "my note-tack"
( ug file in /var/ lugs
        home diretay I home
      Permissions
```

```
First symbol

' "regular file
' "d' directory
' "T link
Symbol
' "X excute

Pemission categories
'U' user
'g' group
'o' other
'a' all

Use the id—Gn synonymy for group
(haxe) subject 600 300 300 300 400 400 m sudo dip pluddev thedrin sambashare docker

[jason@linuxsvr ~]$ groups
jason sales
[jason@linuxsvr ~]$ groups
pat : finance newyork
[jason@linuxsvr ~]$ groups adminuser
adminuser : adminuser
[jason@linuxsvr ~]$

[jason@linuxsvr ~]$ groups adminuser
adminuser : adminuser
[jason@linuxsvr ~]$ groups pat
pat : finance newyork
[jason@linuxsvr ~]$ groups adminuser
[jason@linuxsvr ~]$ groups adminuser
[jason@linuxsvr ~]$ groups adminuser
[jason@linuxsvr ~]$ groups adminuser
```

\$ la |1

Secret Decoder Ring



User Other

Changing Permissions

Item	Meaning	
chmod	Change mode command	
ugoa	User category user, group, other, all	
+-=	Add, subtract, or set permissions	
rwx	Read, Write, Execute	
[jason@linuxsvr ~]\$ [jason@linuxsvr ~]\$	jason 36 Feb 6 16:30 sales.data chmod g+w sales.data ls -l sales.data jason 36 Feb 6 16:30 sales.data	

Commonly Used Permissions

Symbolic	Octal
-rwx	700
-rwxr-xr-x	755
-rw-rw-r	664
-rw-rw	660
-rw-rr	644

View files and the Nano Editor

Displaying the Contents of Files

cat file Display the contents of file.

Displaying the Contents of Files

	cat file	Display the contents of file.
-/	more file	Browse through a text file.
1	less file	More features than more.
	head file	Output the beginning (or top) portion of file.
	tail file	Output the ending (or bottom) portion of file.

Head and Tail

- · Displays only 10 lines by default
- Change this behavior with -n
 - on = number of lines
 - tail -15 file.txt

Last 15 lines in file "tail –15 file.txt"

Viewing Files in Real Time

tail -f file Follow the file.

Displays data as it is being written to the file.

Nano Editor

- . Nano is a simple editor.
- . Easy to to learn.
- · Not as advanced as vi or emacs.
- If nano isn't available, look for pico.

The Vi Editor

vi [file] Edit file.

vim [file] Same as vi, but more features.

view [file] Starts vim in read-only mode.

Vi Command Mode and Navigation

- Up one line.
- Down one line. j
- Left one character. h
- 1 Right one character.
- Right one word.
- Left one word. b
- Go to the beginning of the line.
- Go to the end of the line.

Vi Insert Mode

Incort at the cureer position

Vi Insert Mode

- i Insert at the cursor position.
- Insert at the beginning of the line. Ι
- Append after the cursor position.
- Append at the end of the line.
- 可 在当前行开 进行书 。用 ESC 回 command line 的状态。

Vi Line Mode

- Writes (saves) the file. :W
- Forces the file to be saved. : w!
- Quit. : q
- :q! Quit without saving changes.
- Write and quit. :wq!
 - Same as:wq. :x

Vi Line Mode

- Positions the cursor at line n. :n
- Positions the cursor on the last line.
- :set nu Turn on line numbering.
- : set nonu Turn off line numbering.
- :help [subcommand] Get help.

Vi Modes

Mode	Key
Command	Esc
Insert	ilaA
Line	:

Vi - Repeating Commands

- · Repeat a command by preceding it with a number.
- 5k = Move up a line 5 times
- 80i<Text><ESC> = Insert <Text> 80 times
- 80i_<Esc> = Insert 80 "_" characters

Vi - Deleting Text

- x Delete a character.
 - dw Delete a word.
- dd Delete a line.
- D Delete from the current position.
- X Delete a Character.
- dw Delete a word.
- dd Delete a line.
- D Delete from the current position.

Vi - Changing Text

- Replace the current character.
 - cw Change the current word.
- cc Change the current line.
- c\$ Change the text from the current position.
 - C Same as c\$.
- Reverses the case of a character.

Vi - Copying and Pasting

- yy Yank (copy) the current line.
- y<position> Yank the <position>.
- p Paste the most recent deleted or yanked text.

Vi - Undo / Redo

- u Undo
- Ctrl-R Redo

Vi - Searching

- /<pattern> Start a forward search.
- ?<pattern> Start a reverse search.

3 Find Locate

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The find Command

find [path...] [expression]

Recursively finds files in path that match expression. If no arguments are supplied it find all files in the current directory.

find Options

-name pattern Find files and directories

that match pattern.

-iname pattern Like-name, but ignores

case.

Performs an 1s on ea the found items.

find Options

-size num

-mtime days Finds files that are days old. Finds file that are of size num. -newer file Finds files that are newer than file.

-exec command {} \;

Run command against all the files that are found.



```
[jason@linuxsvr_~]$ find /bin -name *v
/bin/mv
/bin/env

[jason@linuxsvr -]$ find . -mtime +10 -mtime -13
//.ssh
//.ssh
//.ssh/authorized_keys
//.bsshrc
//music/jazz/john-coletrane.mp3
//my notes.txt
//pureports/coversheet.doc
//pureports/sales-report.txt
//pureports/sales-report.txt
//pureports/sales-report.txt
//pureports/sales-report.txt
//pureports/sales-report.txt
//pureports/sales-report.txt
//pureports/sales-report.txt
//pureports/sales-report.txt
//pureports/sales-report.txt
//music/jazz/jobz-album-linp3

[jason@linuxsvr -]$ find . -size +1M
//son@linuxsvr -]$ find . -size +1M
//son@linuxsvr -]$ find . -size +1G
//son@linuxsvr -]$ find . -size +1G
//pusic/jazz/jazz-album-linp3
//pusic/jazz
//pureports
//pureports
//pusic/jazz
//
```

Locate

A Fast Find - locate

locate pattern

A Fast Find - locate

locate pattern

- Lists files that match pattern.
 - · Faster than the find command.
 - · Queries an index.
 - Results are not in real time.

A Fact Find - 3 ocars 10 cade partners - 100 files that matchy - Paster than the Filest - Species or Indoor

May not be enabled on all systems

```
[jason@linuxsvr ~]$ locate sales
/home/jason/sales.data
/home/jason/tpsreports/sales-report.txt
/usr/local/sales
/usr/local/sales/sales.data
[jason@linuxsvr ~]$ [
jason@linuxsvr ~]$ touch tpsreports/new-file
(jason@linuxsvr ~]$ locate tpsre
/home/jason/tpsreports
/home/jason/tpsreports/coversheet.doc
/home/jason/tpsreports/sales-report.txt
[jason@linuxsvr ~]$ locate new-file
[jason@linuxsvr ~]$ find . -name new-file
./tpsreports/new-file
[jason@linuxsvr ~]$ [
```

Movement Inserting Text

hjkl	Left, down, up, right	i	Insert at cursor
^	Go to the beginning of the line	I	Insert at the beginnir
\$	Go to the end of the line	a	Append after cursor
gg	Go to the first line	Α	Append at the end of
G	Go to the last line	0	Open a new line belo
:n	Go to line n	0	Open a new line abov

Replacing Text **Deleting Text**

Replace character Delete character CW Change word dd Delete line Change line Delete word dw CC d{motion} Delete {motion}

c{motion} Change from cursor to {motion}

Copy/Paste Undo/Redo y{motion} Yank {motion} Undo Yank line Ctrl-r Redo уу

Paste after cursor p P Paste before cursor Save and Quit

Write (save) Write and quit Searching :wq /{pattern} Forward search for {pattern} p: Quit

?{pattern} Reverse search for {pattern} Force quit, don't save :q! Repeat the last search Force write and quit :wq! n

Ν Repeat the last search in the opposite direction

Repeating Commands Help

{num}{commandRepeat command {num} times :help [topic/command] Get Repeat previous change vimtutor Tut

Find and Replace

:s/{old}/{new}/{options} Substitute {new} for {old} on the current line :%s/{old}/{new}/{options} Substitute {new} for {old} in the entire document

The g option substitutes all occurrences on a line, otherwise just

http://w

5 Delete rm move sort tar compressing du

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Removing Files

rm file Remove file.

rm -r dir Remove the directory and its

contents recursively.

rm -f file Force removal and nev prompt for confirmation.

Removing Files

```
$ 15 5*
sales-lecture.mp3 sales.data secret secret.bak
$ rm s*
$ 1s -d .*
. .. .profile .bash_history
$ rm .*
rm: cannot remove '.': Is a directory
rm: cannot remove '..': Is a directory
$ 1s -d .*
$
```

Copying Files

- cp source_file destination_file
 Copy source_file to destination_file.
- cp src_file1 [src_fileN ...] dest_dir Copy source_files to destination_directory.

cp Options

- cp -i Run in interactive mode.
- cp -r source_directory destination Copy src_directory recursively to destination.

Moving and Renaming Files

mv Move or rename files and directories.

mv source destination

mv -i source destination

sort Options

- -k F Sort by key. F is the field number.
- r Sort in reverse order.
- u Sort unique.

```
[jason@linuxsvr ~]$ cat more-secrets
tags: credentials
site: facebook.com
user: bob
pass: Abee!
tags: credentials
[jason@linuxsvr ~]$ sort more-secrets
pass: Abee!
site: facebook.com
tags: credentials
tags: credentials
user: bob
[iason@linuxsvr ~l$ sort -u more-secrets
[jason@linuxsvr ~]$ sort more-secrets
pass: Abee!
 site: facebook.com
tags: credentials
tags: credentials
user: bob
 [jason@linuxsvr ~]$ sort -u more-secrets
pass: Abee!
site: facebook.com
tags: credentials
 user: bob
 [jason@linuxsvr ~]$ sort -ru more-secrets
 user: bob
tags: credentials
site: facebook.com
pass: Abee!
[jason@linuxsvr ~]$ sort -u -k2 more-secrets
pass: Abee!
user: bob
tags: credentials
site: facebook.com
```

Creating a Collection of Files

```
tar [-] c|x|t f tarfile [pattern]
```

Create, extract or list contents of a tar archive using pattern, if supplied.

tar Options

```
C Create a tar archive.
X Extract files from the archive.
t Display the table of contents (list).
V Be verbose.
Z Use compression.
f file Use this file.
```

```
[jason@linuxsvr ~]$ ls tpsreports
coversheet.doc sales-report.txt
[jason@linuxsvr ~]$ tar cf tps.tar tpsreports
[jason@linuxsvr ~]$ tar tf tps.tar
tpsreports/coversheet.doc
tpsreports/sales-report.txt
[jason@linuxsvr tmp]$ tar xf /home/jason/tps.tar
[jason@linuxsvr tmp]$ ls -l tpsreports
total 8
-Nw-r--r-. 1 jason jason 188 Feb 3 18:15 coversheet.doc
-Nw-r--r-. 1 jason jason 35 Feb 4 08:25 sales-report.txt
[jason@linuxsvr tmp]$ tar xvf /home/jason/tps.tar
tpsreports/
tpsreports/coversheet.doc
tpsreports/sales-report.txt
V for verbose, list the files it extracting
```

Compressing Files To Save Space

```
gzip Compress files.gunzip Uncompress files.gzcat Concatenates compressed files.
```

Disk Usage

du Estimates file usage.

Disk Usage

du Estimates file usage.

du - k Display sizes in Kilobytes.

du - h Display sizes in human readable format.

```
[jason@limuxsvr ~]$ du -k data

80 data
[jason@limuxsvr ~]$ gzip data
[jason@limuxsvr ~]$ ls data*

data.gz
[jason@limuxsvr ~]$ du -k data.gz

76 data.gz
[jason@limuxsvr ~]$ gunzip data.gz
[jason@limuxsvr ~]$ ls data*

data
[jason@limuxsvr ~]$ ls data*

data

[jason@limuxsvr ~]$ du -k data

80 data

[jason@limuxsvr ~]$ tar zcf tps.tgz tpsreports
[jason@limuxsvr ~]$ tar ztvf tps.tgz

proxxwx-x jason/jason

188 2014-02-01 18:15 tpsreports/oversheet.doc
-W-F---- jason/jason

188 2014-02-04 08:25 tpsreports/sales-report.txt
```