Linux Command Line Cheat Sheet by DaveChild

A cheat sheet of the commands I use most for Linux, with popup links to man pages.

Show system and



kernel head -n1 /etc/issue Show distribution Show mounted filesymount stems List files ls date Show system date uptime Show uptime whoami Show your username Show manual for man command command Prepare to shape the future of finance Rach Shortcuts FIND OUT MORE

Bash Commands

uname -a

| Dasii Siioricuts | | | | |
|------------------|--------------------------------------|--|--|--|
| CTRL-c | Stop current command | | | |
| CTRL-z | Sleep program | | | |
| CTRL-a | Go to start of line | | | |
| CTRL-e | Go to end of line | | | |
| CTRL-u | Cut from start of line | | | |
| CTRL-k | Cut to end of line | | | |
| CTRL-r | Search history | | | |
| !! | Repeat last command | | | |
| !abc | Run last command starting with abc | | | |
| ! <i>abc</i> :p | Print last command starting with abc | | | |
| | | | | |

!\$ Last argument of previous command ALT-. Last argument of previous

command

All arguments of previous command

^*abc*^123 Run previous command, replacing abc with 123

Bash Variables

Show environment

variables

Output value of \$NAME echo \$NAME

variable

Set \$NAME to value export NAME=value Executable search path

Directory Operations

| pwd | Show current directory |
|------------------|-------------------------|
| mkdir <i>dir</i> | Make directory dir |
| cd <i>dir</i> | Change directory to dir |
| cd | Go up a directory |
| | |



Is Options

Show all (including hidden)

Recursive list -R Reverse order

Sort by last modified -t

-S Sort by file size

Long listing format

-1 One file per line

-m Comma-separated output

Ouoted output -0

Nano Shortcuts

| Files | |
|--------|------------|
| Ctrl-R | Read file |
| Ctrl-O | Save file |
| Ctrl_Y | Close file |

Cut and Paste

| ALT-A | Start marking text |
|--------|-------------------------|
| CTRL-K | Cut marked text or line |

CTRL-U Paste text

Navigate File

| ALT-/ | End of file |
|--------|-------------------|
| CTRL-A | Beginning of line |
| CTRL-E | End of line |
| CTRL-C | Show line number |
| CTRL | Go to line number |

Search File

| CTRL-W | Find |
|--------|-----------|
| ALT-W | Find next |

CTRL-\ Search and replace

More nano info at:

http://www.nano-editor.org/docs.php

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|---|---|---------------------------------------|---|
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| cmd < file | grep pattern files | Search for pattern | screen |
| Input of <i>cmd</i> from <i>file</i> | | in <i>files</i> | Start a screen session. |
| cmd1 <(cmd2) | grep –i | Case insensitive search | screen –r |
| Output of <i>cmd2</i> as file input to <i>cmd1</i> | grep –r | Recursive search | Resume a screen session. |
| cmd > file | grep –v | Inverted search | screen –list |
| Standard output (stdout) of <i>cmd</i> to <i>file</i> | grep –o | Show matched part | Show your current screen sessions. |
| cmd > /dev/null | | of file only | CTRL-A |
| Discard stdout of <i>cmd</i> | find /dir/ -name name* | Find files starting | Activate commands for screen. |
| cmd >> file | | with <i>name</i> in <i>dir</i> | CTRL-A c |
| Append stdout to file | find /dir/ –user name | Find files owned by name in dir | Create a new instance of terminal. |
| cmd 2> file | find /dir/ -mmin num | Find files modifed | CTRL-A n |
| Error output (stderr) of <i>cmd</i> to <i>file</i> | | less than <i>num</i> | Go to the next instance of terminal. |
| cmd 1>&2 | | minutes ago in <i>dir</i> | CTRL-A p |
| stdout to same place as stderr | whereis command | Find binary / | Go to the previous instance of terminal. |
| cmd 2>&1 | | source / manual for <i>command</i> | CTRL-A " |
| stderr to same place as stdout | locate <i>file</i> | Find <i>file</i> (quick | Show current instances of terminals. |
| cmd &> file | | search of system | CTRL-A A |
| Every output of <i>cmd</i> to <i>file</i> | | index) | Rename the current instance. |
| cmd refers to a command. | File Operations | | More screen info at: |
| | - | | http://www.gnu.org/software/screen/ |
| Pipes | touch file1 Create file1 | | |
| cmd1 cmd2 | 1 | | File Permissions |
| stdout of <i>cmd1</i> to <i>cmd2</i> | cat file1 file2 | | chmod 775 <i>file</i> |
| cmd1 & cmd2 | Concatenate files and o | output | Change mode of <i>file</i> to 775 |
| stderr of <i>cmd1</i> to <i>cmd2</i> | less file1 | | chmod -R 600 <i>folder</i> |
| | View and paginate file? | | Recursively chmod <i>folder</i> to 600 |
| Command Lists | file file1 | | chown <i>user.group file</i> |
| cmd1; cmd2 | Get type of file1 | | Change <i>file</i> owner to <i>user</i> and group to |
| Run <i>cmd1</i> then <i>cmd2</i> | cp file1 file2 | | group |
| cmd1 && cmd2 | Copy file1 to file2 | | File Permission Numbers |
| Run cmd2 if cmd1 is successful | mv file1 file2 | | First digit is owner permission, second is |
| cmd1 cmd2 | Move file1 to file2 | | group and third is everyone. |
| Run cmd2 if cmd1 is not successful | rm file1 | | Calculate permission digits by adding |
| cmd & | Delete file1 | | numbers below. |
| Run <i>cmd</i> in a subshell | head file1 | | 4 read (r) |
| - | Show first 10 lines of fi | ile1 | 2 write (w) |
| | tail <i>file1</i> | | 1 execute (x) |
| | Show last 10 lines of fi | le1 | |
| | tail -F file1 | | |
| | Output last lines of file | 1 as it changes | |
| | | | |
| | Watch a Command | | |
| | watch -n 5 'ntpq -p' | | |
| | Issue the 'ntpq -p' com seconds and display ou | • | |
| | Process Management | | |
| | - | shot of processes | |
| | | time processes | |
| | | s with id <i>pid</i> | |
| | - | s with name <i>name</i> | |
| | | cesses with names | |
| | heginning | | |

,

beginning *name*

Sheet

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Sheet!



Comments

[deleted], 10:02 28 Nov 11

Thanks for creating this cheat-sheet Dave. The one thing I missed was "grep -o"; Show only the part of a matching line that matches PATTERN

DaveChild, 10:02 28 Nov 11

I've added "grep -o" to the cheat sheet :)

a_statham, 10:02 28 Nov 11

The I/O redirection section could use "2>" and "&>" examples, I always forget how to redirect

DaveChild, 10:02 28 Nov 11

Good idea – I'll add that (once I remember how they work myself ... :))

DaveChild, 10:02 28 Nov 11

I've updated that section to include stderr redirection. :)

wattslevi, 19:51 29 Nov 11

How are the indented lines added several of the cells like Screen Shortcuts? RE: http://getsatisfaction.com/cheatography/topics/adding a two line entry in a list

DaveChild, 08:35 30 Nov 11

Those indented bits are a "question and answer" format box.

wattslevi, 10:30 30 Nov 11

Ah, Q&A means I would be able to cheat with it and use it for two column with an extra line. Thanks for the info.

(Replying to my original post seems unintuitive for trying to reply under your post,

Cheatographer

DaveChild www.getpostcookie.com

Metadata

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For example, if I'm looking for files and I don't care that I haven't access to parts of the filesystem, we might do something like:

find / -name "*.html" 2>&-

Tanner, 10:30 7 Mar 12

Is -h is handy - changes sizes to human readable formats. Goes along good with -S. If I'm using it it is generally a Is -aIhS

Wane, 07:28 21 Mar 12

I think the "Bash Shortcuts" part is a little misleading. The "ctrl-a", "ctrl-e", "ctrl-k" is in emacs mode. But there should be many people preferring vim-mode or some thing like that.

Davis Peng, 13:57 22 Mar 12

Thanks a lot for your sheet, I just need such a linux command summary such as this sheet.

gamiclea, 00:05 2 Jun 12

Awesome job! This will definitely come in handy

wolvverine, 11:29 6 Jun 12

download PDF is broken

Arpit, 10:51 29 Jun 12

Good work. Thanks, its helpful.

Chetan Morajkar, 14:35 6 Aug 12

Hi,

Fantastic good job..

Thanks

Donald J. Tambeau, 15:23 6 Aug 12

Love your work....it is soso helpful! I would like to format a MicroDisk using Linux Centros. When I look at the Partition on the MicroDisk, I see the following comment....(non-Linux). This makes sense, since I formatted with a computer running Win 7! I want to use it on my Linux system but do not know how to do it. I tried format /dev/scd1 but no joy! Thank you

Don

Eric, 08:59 7 Aug 12

I'd just like to point out a trick I use with the head and tail commands:

First, you can designate the number of lines to return, like so: head -100 filename

I often use both head and tail together to get a section of a file by piping the output of one into the other. The following command gets 100 lines, starting 1000 lines before the end of

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Mark, 08:53 29 Aug 12

I just wanted to take a moment to thank you for putting this together. This is a big help to me I am new to OpenFiler witch I believe uses bash at the core so I am of course new to Linux. I didn't really think it would be quite so difficult to find resources that one can use to navigate the command line but I guess most folks use the GUI. But, I'm not most folks when I bought my first IBM 8088 I started with DOS.Anyway, thanks for the time and effort you put into this, sorry about digressing there.

Shrinath, 13:08 4 Oct 12

Excellent Stuff man.. I think these are the most commonly used commands.. Good Effort.

Jlmmy, 21:43 11 Oct 12

you need to figure out how to split your command sheet as a pdf

Niloufar, 21:43 11 Oct 12

hi!.these are useful cheat sheet .

russ, 16:18 22 Oct 12

CTRL-Z sleeps (stops) the running process. fg [#] brings it back to foreground.

top CTRL-Z ps aux | grep top fg

chiahsun, 11:14 2 Jan 13

Show human readable format (kb, mb...)

PierreBdR, 11:35 9 Feb 13

This cheat-sheet is very good! Thanks for that.

However, I don't like the "chmod" commands you are using. I don't think anybody should use the numeric version of chmod anymore. Your example "chmod -R 600 folder", is the best way to lock yourself out of your own folder and loose any executable bits on the scripts. I would rather use the symbolic version:

 $chmod -R \ u + rw \ folder \# \ Add \ read-write \ for \ user \ on \ all \ files \ in \ folder \\ chmod -R \ og-rwx \# \ Remove \ read \ write \ and \ execute \ bits \ for "other" \ and "group" \ on \ all \ files \ in \ folder \\$

And my all-time favorite:

chmod -R og=u-w folder # Give other and group the same rights as user, but removing writing rights.

Of course, this also handles t and s bits:

chmod u+s file chmod o+t folder

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  To extract tar.qz archive
  tar xvzf archive.tar.gz
  To extract tar.bz2 archive
  tar xvif archive.tar.bz2
  To extract tar archive
  tar xvf archive tar
  To create archive
  tar cvzf archive.tar.gz /file_or_folder/to/archive
        Sandeep, 08:43 16 Feb 13
  Nice one...really helpful
        John, 08:43 16 Feb 13
  Great resource - thanks for taking the time and trouble to put this out there.
  My favorite Is options are '-Itr'. The t sorts files by time, and r reverses that, so newest files
  show up right above the prompt, no matter how long the listing is.
        daveydave400, 08:43 16 Feb 13
  What about CTRL+y to paste the stuff you cut back in? How can you leave that out? CTRL+a/e
  and CTRL+u/y are the pairs I remember.
        gymka, 08:44 16 Feb 13
  Missing: sed
  find -exec
        Jared, 10:33 26 Feb 13
  Nice work, but it would be best as a single page PDF.
        Darr247, 16:31 5 Apr 13
  Or if the PDF at least split into 2 pages (so it could be a laminated 2-sided sheet) without
  cutting commands in half.
        PastExpiryDotCom, 18:08 11 Jul 13
  This is bash-tastic!
        kimcy929, 11:09 9 Aug 13
  thank you very much, it is great
```

Pradeep, 15:12 13 Feb 14

There is no commands for shutdown or reboot...

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Bill, 17:30 17 Feb 14

Hi, handy sheet. Just one thing. Find will do a recursive search by default. In the find /dir - name name* should be in double quotes if you want it to recursively find all files starting with name:

find /dir/ -name "name*"

That's because, without the quotes, the shell will expand the wildcard before handing the parameters to find. To unexpected things might happen if you don't have the quotes. Please see the examples below:

```
$ find .
./name1
./name2
./dir1
./dir1/name3
./dir1/name1
./dir1/test3
./test1
$ find . -name name*
find: paths must precede expression: name2
Usage: find [-H] [-L] [-P] [-Olevel] [-D help|tree|search|stat|rates|opt|exec] [path...]
[expression]
$ find . -name "name*"
./name1
./name2
./dir1/name3
./dir1/name1
$ touch dir1/fred1
$ find .
./name1
./name2
./dir1
./dir1/name3
./dir1/name1
./dir1/test3
./dir1/fred1
./test1
$ find . -name name*
find: paths must precede expression: name2
[expression]
$ find . -name "name*"
./name1
./name2
./dir1/name3
./dir1/name1
$ find . -name fred*
./dir1/fred1
$ find . -name "fred*"
./dir1/fred1
$
```

Edser, <u>17:35 17 Feb 14</u>

grep -B#

This shows what you are searching plus additional lines where number is added. Great for DHCP lease searching.

No4711, <u>09:56 19 Feb 14</u>

Great reference

The section on Screen is missing "Ctrl-A d" for detaching.

Mads, 08:55 26 Feb 14

Great resource - thanks a lot Dave!

Kabir, 22:03 10 Mar 14

add task manage comman: gnome-system-monitor

Isabel Ambriz, 13:08 30 Apr 14

Command that might be used to test connectivity of Linux box to the Internet, get logged on user info, and get TCP/IP configuration info. Can anyone help me?

Aaron Tani, 08:27 1 May 14

theres also a good one here: http://www.techietek.com/2014/04/29/linux-cli-cheat-sheet-wallpaper/

Damien, 10:43 23 Jul 14

I've always found `mkdir -p path/to/directory` to be useful.

snakeroot, <u>10:46 14 Jan 15</u>

head -n1 /etc/issue as a means to access distribution name isn't reliable, since the post-login screen could have been customized.

A more reliable version would be sed -nr 's/^PRETTY_NAME=(.*)/1/p' /etc/os-release . This should be true even for distros using legacy init (i.e., current Debian, Gentoo and even Slackware).

jt, 12:38 22 Jul 15

Is -h? human readable?

DF, 08:31 25 Aug 15

would be good to add Ctrl-left/right for jumping arguments, Ctrl-home/end for jumping whole line.

Alex, 15:34 28 Sep 15

'echo $\$ rints the default shell, 'ps -p $\$ will print the current shell

John Kershaw, <u>16:04 28 Mar 16</u>

Love the colour, but could it be a slightly darker/stronger green? It comes out almost impossible to read on my colour printer. I tried outputting in greyscale, but the green-on green sections are still unreadable. Needs more contrast.

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I agree, it's not a great colour. I've changed it.

Felipe, 19:22 3 Apr 16

Could you add "passwd" to the file? :)

GloObi, 15:31 4 Apr 16

thank you for this really useful sheet!

The download button seems to be broken though :(

NatalieMoore, 05:13 10 Apr 16

Hey GloObi, thanks for the heads up about the broken download button on this cheatsheet. We'll get it fixed and I'll let you know when its been done. Have a great day.

NatalieMoore, 06:49 13 Apr 16

Hi GloObi,

This is now fixed. Please let me know if you have any more problems.

Nat

d.falkovsky, 19:54 7 Apr 16

Can't download. Sad.

NatalieMoore, 05:07 10 Apr 16

Thanks d.falkovsky, I will let Dave know the download button on this cheat sheet needs to be fixed. I will let you know once he has fixed it:). Sorry for the inconvenience

NatalieMoore, 06:48 13 Apr 16

Hi d.falkovsky,

This is now fixed, you should now be able to download. Please let me know if you have any more problems.

Nat

d.falkovsky, 13:15 16 Apr 16

Thank you, Natalie!

ramiissat, 13:01 22 Mar 17

Good job Dave, Thank you :)

tejasshetty.1808, 18:51 8 Jul 17

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