

Bash Commands

uname -a	Show system and kernel
head -n1 /etc/issue	Show distribution
mount	Show mounted filesystems
date	Show system date
uptime	Show uptime
whoami	Show your username
man command	Show manual for command
df -h	Show free space disk
df	Size files
du	Size files

Bash Shortcuts

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
alt-left/-right	Move next work
!!	Repeat last command
!abc	Run 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

env	Show environment variables
echo \$NAME	Output value of \$NAME variable
export NAME=value	Set \$NAME to value
\$PATH	Executable search path
\$HOME	Home directory
\$SHELL	Current shell

IO Redirection

cmd < file	Input of cmd from file
cmd1 <(cmd2)	Output of cmd2 as file input to cmd1
cmd > file	Standard output (stdout) of cmd to file
cmd > /dev/null	Discard stdout of cmd
cmd >> file	Append stdout to file
cmd 2> file	Error output (stderr) of cmd to file
cmd 1>&2	stdout to same place as stderr
cmd 2>&1	stderr to same place as stdout
cmd &> file	Every output of cmd to file

Pipes

cmd1 cmd2	stdout of cmd1 to cmd2
cmd1 & cmd2	stderr of cmd1 to cmd2

Command Lists

cmd1 ; cmd2	Run cmd1 then cmd2
cmd1 && cmd2	Run cmd2 if cmd1 is successful

Command Lists (cont)

cmd1 cmd2	Run cmd2 if cmd1 is not successful
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ls Options

-a	Show all (including hidden)
-R	Recursive list
-r	Reverse order
-t	Sort by last modified
-S	Sort by file size
-l	Long listing format
-1	One file per line
-m	Comma-separated output
-Q	Quoted output

Search Files

grep pattern files	Search for pattern in files
grep -i	Case insensitive search
grep -r	Recursive search
grep -v	Inverted search
grep -o	Show matched part of file only
find /dir/ -name name*	Find files starting with name in dir
find /dir/ -user name	Find files owned by name in dir
find /dir/ -mmin num	Find files modified less than num minutes ago in dir
whereis command	Find binary / source / manual for command
locate file	Find file (quick search of system index)

File Operations

<code>touch file1</code>	Create file1
<code>cat file1 file2</code>	Concatenate files and output file2
<code>less file1</code>	View and paginate file1
<code>file file1</code>	Get type of file1
<code>head file1</code>	Show first 10 lines of file1
<code>tail file1</code>	Show last 10 lines of file1
<code>tail -F file1</code>	Output last lines of file1 as it changes

Watch a Command

<code>watch -n 5 'nt -p'</code>	Issue the 'ntpq -p' command every 5 seconds and display output
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Process Management

<code>ps</code>	Show snapshot of processes
<code>top</code>	Show real time processes
<code>kill pid</code>	Kill process with id pid
<code>pkill name</code>	Kill process with name name
<code>killall name</code>	Kill all processes with names beginning name

File Permissions

<code>chmod 775 file</code>	Change mode of file to 775
<code>chmod -R 600 folder</code>	Recursively chmod folder to 600
<code>chown user:group file</code>	Change file owner to user and group to group

First digit is owner permission, second is group and third is everyone.

4	read (r)
2	write (w)
1	execute (x)

Tar Command Examples

<code>tar -cvf a.tar /dir</code>	Create a tar archive called a.tar for dir
<code>tar cvzf a.tar.gz /dir</code>	gzip compressed archive
<code>tar -xvf Archive.tar.gz</code>	Uncompress
<code>v</code>	show the progress of archive file
<code>c</code>	create a archive file.
<code>x</code>	extract a archive file.
<code>f</code>	filename of archive file
<code>t</code>	viewing content of archive file.
<code>j</code>	filter archive through bzip2.
<code>z</code>	filter archive through gzip
<code>r</code>	append or update files



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