Cheatography

Linux Cheat Sheet
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bash commands

uname -a	Show system and kernel info
date	Show system date
uptime	System uptime
whoami	Show current user
mount	Show mounted filesystems
man	Show manual for command

bash variables

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

directory operations

pwd	Shows present working directory
mkdir dirname	Make directory
cd dirname	Change directory
cd ..	Go to parent directory of current dir
ls	list files

ls options

-l	Long list
-a	Show all(hidden files too)
-R	Recursive order
-r	Reverse order
-t	Sort by last modified
-m	Comma separated output
-Q	Quoted output
-S	Sort by file size

file search methods

grep *pattern files*	Search for patter in files
grep -r	Recursive search
grep -i	Case insensitive search
grep -v	Inverted search
find */dir/* -name *name*	Find files starting with *name* in *dir*
find */dir/* -user *name*	Find files owned by *name* in *dir*
locate *file*	Find *file*

file operations

touch *file1*	create *file1*
cat *file1 file2*	concatenate file and output
file *file1*	get type of *file1*
cp *file1 file2*	Copy *file1* to *file2*
mv *file1 file2*	Move *file1* to *file2*
rm *file1*	Delete *file1*

file operations (cont)

head *file1*	show top 10 lines of *file1*
tail *file1*	show bottom 10 lines of *file1*

IO redirection

command < *file*	read input of command from *file*
command > *file*	write output to *file*
command >> *file*	Append output to *file*
command1 | command2	Pipe operator to output of command 1 to command 2

process management

ps	show processes
top	show real time processes
kill *pid*	Kill process with id *pid*
pkill *name*	Kill process with name *name*
killall *name*	kill all processes with name *name*

file permissions

chown user:group *file*	Change *file* owner to user and group to group
chmod 777 *file*	Change mode of *file* to 777
The first digit is owner permission,	the second is group and third is user
4	read(r)
2	write(w)
1	execute(x)

bash shortcuts

CTRL - c	Stop current comand
CTRL - z	Sleep program
CTRL - a	Go to start
CTRL - e	Go to end
CTRL - r	search history
!!	repeat last command
!abc	run last command starting with abc
!$	last argument of previous command
!*	all arguments of previous command