Linux cheat sheet

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1 Bash shortcuts

CTRL+SHIFT+T	open a terminal in a new tab
CTRL+SHIFT+PgUp	scroll up
CTRL+SHIFT+PgDown	scroll down
CTRL+R	search the history backwards
CTRL+A	go to the start of the command line
CTRL+E	\ldots go to the end of the command line
$CTRL + U \ \dots \ \mathrm{d} \epsilon$	elete from cursor to the start of the command line
CTRL+K	lelete from cursor to the end of the command line
CTRL+W	$\ldots \ldots$ delete the word before the cursor
CTRL+Y	$\ldots \ldots$ paste text that was cut after the cursor
CTRL+Z	. suspend the current foreground process running
CTRL+C	kill the current foreground process running
CTRL+L	\ldots clear the screen
CTRL+D	close the bash shell

2 Bash commands

2.1 Basic commands

date	. print or set the system date and time
pwd p	print name of current/working directory
cd	change the current directory
echo	display a line of text
man forma	at and display the on-line manual pages
history	display previous commands
env	display environment variables
alias	define or display aliases
exit	cause the shell to exit

2.2 File management

ist directory contents
nkdir make directories
ouch create file or change file timestamps
p copy files and directories
nv move or rename files
m remove files or directories
le determine file type
n make links between files
nd search for files in a directory hierarchy
u estimate file space usage
ar store, list or extract files in an archive
zip compress or expand files

2.3 File operations

cat	concatenate files and print on the standard output
less	display output one screen at a time
head	output the first part of files
tail	output the last part of files
grep	print lines matching a pattern
diff	compare files line by line
wc	. print newline, word, and byte counts for each file
sort	sort lines of text files
uniq	report or omit repeated lines
cut	remove sections from each line of files

2.4 User management

sudo execute a command as another user
chmod change access permissions
chown change file owner and group
umask set default permissions
useradd create a new user or update default new user information
userdel delete a user account and related files
passwd update user's authentication

2.5 Process management

w show who is logged on and what they are doing
ps report a snapshot of the current processes
top list processes running on the system
kill terminate a process
time time a simple command or give resource usage
jobs list active jobs
bg run jobs in the background
fg run jobs in the foreground
sleep delay for a specified amount of time
nohup run a command immune to hangups
at execute commands at a later time
crontab schedule periodic background work
df report file system disk space usage
halt reboot or stop the system

2.6 Network management

	send an ICMP request to network hosts open SSH client
scp	secure remote file copy
ftp	open File Transfer Protocol client
whois	query a whois or nicname database
ifconfig	configure a network interface
netstat	print network informations
traceroute prin	t the route packets trace to network host

3 Programming

gcc	\ldots C and C++ compiler
gcc -Wall in.c -o out	compile (a C file) and create an executable
javac	compile (a Java file) and create a .class file
java	execute a .class file
make	execute a Makefile

4 VIM commands

4.1 Normal mode

0 move cursor to the beginning of current line
\$ move cursor to the end of current line
w move forward by one word
${\sf x}$ delete characters after the cursor
dd delete the current line
dw delete word from cursor on
yy copy the current line
p paste the copied text before the cursor
u undo your last action
CTRL+R redo your last action
/ find a word

4.2 Insertion mode

i insert text before the current cursor position
a append text following current cursor position
A append text to the end of current line
o begin a new line below the cursor and insert text
O begin a new line above the cursor and insert text
Echap return to normal mode

4.3 Command mode

:w	,								 					 	 	 																		W	ri	te	fi	le
:q									 					 																	•	qui	t	th	е	ed	it	or
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ZZ										 							 				7	W	ri	te	9	fi	le	: 8	ar	ıd	l	qui	t	th	е	ed	it	or