#### GNU Linux Cheat Sheet

*Most references are for the GNU/Linux bash shell. BSD cheat sheet coming soon.*

**REMOTE DESKTOP (Windows host)**

**rdesktop** -u username -d domainname -g 1152x1008 -p yourpassword -a 16 -r disk:fedora=/home/username/ -r clipboard:CLIPBOARD -z -x b -k en-us hostname &

*specify screen size, share local folder and clipoboard, run as background task, no window decorations*

**CP - RECURSIVE, DO NOT OVERWRITE, VERBOSE**

**cp** source destination -ruv

**RSYNC**

**rsync** -av curfolder destfolder*sort by size*

**LS SHORTCUTS**

**ls** -alSh*sort by size*

**ls** -d \*/ *display folders*

**MAKE .ISO IMAGE**

sudo **genisoimage** -o image.iso /media/CDTitle

**FIND DUPLICATE FILES**

**fdupes** . -r -n -f -S -d -N &gt; /data/fdupes.txt

*recurse, noempty, omitfirst, show size, delete, noprompt*

**FORMAT NTFS PARTITION**

sudo **fdisk** /dev/sdb

*[t, 87]*

sudo **mkntfs** /dev/sdb1 -f

**CHECK DISK SPACE**

**du** -h *disk usage from current folder, human-readable format*

**df** -h *disk usage on all drives, human-readable*

**BACKGROUND TERMINALS, DISCONNECT AND RECONNECT**

**screen** -d -R name

**screen** -r name

*[CTRL+a, d to detach]*

**TAR (BACKUP WITH GZIP COMPRESSION)**

**tar** czfv source dest.tgz

**SECURE COPY (COPY OVER SSH)**

**scp** -r user@remotehost:files localdestination

**scp** localfiles user@remotehost:remotedestination

**SHUTDOWN IN 5 MINS**

sudo **shutdown** +5

**DISK IMAGE (BLOCK)**

sudo **dd** if=/dev/sda1 of=/media/rn1ds4/2012-image.dd conv=sync,noerror

**DISK IMAGE (BLOCK - WITH PROGRESS BAR)**

sudo **dd** if=/dev/sdc bs=4096 | **pv -s** 2G | sudo dd bs=4096 of=~/USB\_BLACK\_BACKUP.IMG

**ZERO OUT DRIVE**

sudo **dd** if=/dev/zero of=/dev/sdX bs=1M

**LOGON TO WINDOWS DOMAIN**

**smbclient** //hostname/sharename –U username –W domainname

recurse *[enables automatic recursion]*

prompt *[disables automatic prompting]*

**MOUNT WINDOWS SHARE**

sudo **mount.cifs** //resource/sharename -o user=domainname/username /mnt/localmountpoint

**SERIAL PORT TERMINAL**

sudo **minicom** -D /dev/ttyS0

*[in screen, use CTRL+A,A to send CTRL+A]*

**MOUNT ISO IMAGE**

sudo **mount** -o loop-t iso9660 /tmp/Fedora-7.iso /mnt/iso

**FIND AND COPY**

**find** . -iname "\*.mp3" -exec cp {} /data/mp3/ \;

**FIND AND RENAME FILE TYPES**

**for i in \*.txt; do mv $i $RANDOM.txt; done**

**MOUNT DISK IMAGE**

**parted** hda.img

**mount** -o loop,ro,offset= hda.img /mnt/sda1

**FILE AND PHOTO RECOVERY**

sudo **photorec** /log

sudo **testdisk** /log

**FILE HASHES**

**sha1sum** *filename* &gt; filename.txt.sha1

**md5sum** *filename* &gt; md5sum.txt.md5

**FILE ENCRYPTION**

**gpg** -c filename

**MEDIA PLAYER FROM BASH, REPEAT 10 TIMES**

**mplayer** \*.mp3 -loop 10

**LOGICAL VOLUME RECOVERY (FEDORA)**

sudo **su**

**lvm**

**vgscan**

**vgchange** -ay VolGroup00

**lvs**

**mkdir** /mnt/fcroot

**mount** /dev/VolGroup00/LogVol00 /mnt/fcroot -o ro,user

**INSTALL NESSUS (VULNERABILITY SCANNING)**

*[first obtain new registration code from website]*

sudo /opt/nessus/bin/nessus-fetch --register CODE-CODE

sudo /sbin/service nessusd stop

sudo /sbin/service nessusd start

https://localhost:8834

**SECURE SHELL OUTSIDE PUTTY, WITH LOGGING**

**ssh** user@remote.server.com | **tee** /path/of/log/file

**SPLIT LARGE FILE**

**split** -b 10m currentfile.img newfile.img\_

**COMBINE FILES**

**cat** newfile.img\_1 newfile.img\_2 &gt; newfile.img

**SHUTDOWN FIREWALL (IPTABLES)**

sudo iptables -P INPUT ACCEPT

sudo iptables -P OUTPUT ACCEPT

sudo iptables -P FORWARD ACCEPT

sudo iptables -F

sudo iptables -X

**SOUND CARD CONTROLS**

**alsamixer**

**REMOTE ACCESS VIA SSH**

**Xnest** -geometry 800x600 :2 &

**export** DISPLAY=:2

**ssh** -X 192.168.1.20

**gnome-session**

**COMBINE PDF FILES**

**gs** -dBATCH -dNOPAUSE -q -sDEVICE=pdfwrite -sOutputFile=finished.pdf file1.pdf file2.pdf

**SED - SEARCH AND REPLACE**

**cat** phones.csv | **sed** -e 's/334-222-2222/3342222222/' -e 's/334-222-2222/3342222222/' &gt; phones1.csv

**MD5 HASH FROM** T**EXT**

echo -n “texthere” | **md5**

**LIST GROUPS**

**cat** /etc/group

**ADD EXISTING USER TO EXISTING GROUP**

sudo **usermod -G** vboxusers **-a** qdd

**MAKE A CIFS MOUNT PERMANENT**

sudo cp /etc/fstab /etc/fstab-backup

gedit ~/.smbcredentials

username=msusername  
password=mspassword

chmod 600 ~/.smbcredentials

fstab:

//servername/sharename /media/windowsshare cifs credentials=/home/ubuntuusername/.smbcredentials,iocharset=utf8,file\_mode=0777,dir\_mode=0777 0 0

sudo mount -a

**GREP-FIND TEXT AND OUTPUT TO SEPARATE FILE**

[**http://**bit.ly/VnLrTR](https://bitly.com/#)

**SPANISH-LANGUAGE CHARACTERS**

*setup Compose Key (Right-ALT key) in UBUNTU, (see link below)*

[**http://bit.ly/WFUNd8**](https://bitly.com/#)

[compose key + ‘ + e] é

[compose key + : + u] ü

[compose key,~,n] ñ