Useful Linux Commands

Short, one-line commands for admins

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# User bash not auto-completing

sudo chsh -s /bin/bash [username]

# Shrink PDF pages

gs -sDEVICE=pdfwrite -dCompatibilityLevel=1.4 -dPDFSETTINGS=/screen -dNOPAUSE -dQUIET -dBATCH -sOutputFile=NPS.pdf .original.pdf

# Run Continuous ping with time

nohup ping www.google.com | while read pong; do echo "$(date): $pong"; done >> ping.log &

# Run ping at interval, eg every 60 seconds:

ping google.com -i 60

# Check file for lines and excluding others:

awk '/IN=eth0/ && !/SRC=0\.0\.0\.0/ && !/SRC=10\.0\.3\.15/ && !/SRC=10\.0\.3\.20/' /home/warren/Downloads/ufw.log > hack.log

# Edit Welcome Screen:

sudo nano /etc/motd

# Change user Shell:

sudo -u $USERNAME chsh -s /bin/bash

# Delete all files older than 5 days (as well as subfolders)

find /path/to/ -type f -mtime +5 -delete

# Resize all fotos in folder to specific size:

(Needs imagemagick)

mogrify -resize x768 -format jpg \*

mogrify -resize 1024x -format jpg \*

mogrify -resize 50% -format jpg \*

# Restart networking without rebooting server

sudo ifdown eth0 && sudo ifup eth0

# Whatismyip from cmd line

* curl ident.me
* curl ifconfig.me
* curl icanhazip.com
* curl wgetip.com

# Check Motherboard make and model

cat /sys/devices/virtual/dmi/id/board\_{vendor,name,version}

# Check Online Hosts – script

#!/bin/bash

# Program name: pingall.sh

date

cat /path/to/list.txt | while read output

do

ping -c 1 "$output" > /dev/null

if [ $? -eq 0 ]; then

echo "node $output is up"

else

echo "node $output is down"

fi

done

# Pull data from columns and replace field in another file

#!/bin/bash -e

cat zabbix\_hosts.txt|while read line; do

hostname=$(echo $line|awk '{print $1}')

ip=$(echo $line|awk '{print $2}')

cp -v working\_template.xml $hostname.xml

sed -i '' -e "s/file\_hostname/$hostname/g;s/file\_ip/$ip/g" $hostname.xml

done

exit 0

# **Rename files to serialize**

ls | cat -n | while read n f; do mv "$f" "$n.extension"; done

# Split large mp3 file into smaller files

mp3splt -a -t 10.0 -o filename-@n filename.mp3

# Complete clean Disk of partitions

dd if=/dev/zero of=$DEVICE bs=512 seek=$(( $(blockdev --getsz $DEVICE) - 1024 )) count=1024

# Check for UDP

nc -vnzu <IP> <port>

# Find amount of files in a folder

du -a | cut -d/ -f2 | sort | uniq -c | sort -nr

# S3CMD sync with AWS S3

* s3cmd ls
* s3cmd sync -v --progress --no-check-md5 --delete-removed local\_location/ s3://output\_of\_sc3md ls/folder/

# Exctact paged from a pdf file

qpdf --pages input\_file pages – input file.pdf output\_file.pdf

eg: *qpdf –pages magazine.pdf 22-27 – magazine.pdf article.pdf*