1-Validate an email,print 1 if email is valid, 0 if not valid

[ <https://unix.stackexchange.com/questions/194912/what-is-the-email-matching-regex-in-basic-regex-for-grep> ]

echo "mahmoudfierr@gmail.com" | grep -c -E "^[a-zA-Z0-9]+@[a-zA-Z0-9]+\.[a-z]{2,}"

OR

echo "mahmoudfierr@gmail.com" | grep -c '^[a-zA-Z0-9]\+@[a-zA-Z0-9]\+\.[a-z]\{2,\}'

Text

Description automatically generated

2-Validate a floating point number (negative and poisitive)

echo "-12.1" | grep -c -E '^[+-]?[0-9]\*\.?[0-9]+$'

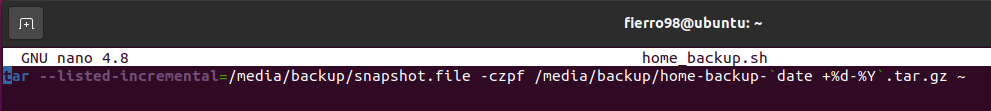
Text

Description automatically generated

3-Backup your home directory in compressed archive in a directory /backup every day The archive name must be home-backup-<day>-<year>.tar.gz

touch home\_backup.sh

nano home\_backup.sh

tar --listed-incremental=/media/backup/snapshot.file -czpf /media/backup/home-backup-`date +%d-%Y`.tar.gz ~

chmod +754 home\_backup.sh

sudo crontab -u $USER -e

Text

Description automatically generated0 3 \* \* \* /home/$USER/home\_backup.sh

4-Save the system load, and memory used in log file (syslog) every min

while true; do (echo "%CPU %MEM ARGS $(date)" && ps -e -o pcpu,pmem,args --sort=pcpu | cut -d" " -f1-5) >> syslog.log; sleep 60; done

OR

[ https://crontab.tech/ ]

touch new.sh

nano new.sh

Text

Description automatically generated with medium confidence

(uptime | cut -d, -f3-5) >> syslog.log;

Text

Description automatically generated\* \* \* \* \* /home/$USER/new.sh

A screenshot of a computer

Description automatically generated with medium confidence

Note: Load per process

echo "%CPU %MEM ARGS $(date)" && ps -e -o pcpu,pmem,args --sort=pcpu | cut -d" " -f1-5) >> syslog.log;