

Cliente Linux para P2P de protocolos eD2k y Kademlia, exclusivamente en consola

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Una de las cosas más *frikis* que sigo haciendo es usar el viejo “emule” para algunas descargas P2P, **pero desde Linux y el cliente “aMule” por línea de comandos**. Estas son algunas de mis notas.

[aMule](#) is an eMule-like client for the eD2k and Kademlia networks.

CentOS

Preparing for compiling “aMule” from sources

```
# yum install gcc gcc-c++ make bison flex binutils-devel gettext-devel  
GeoIP-devel wxGTK-devel zlib-devel libpng-devel gd-devel libupnp-devel  
cryptopp-devel
```

Installing wxWidgets

```
# wget  
http://downloads.sourceforge.net/project/wxwindows/wxAll/2.8.10/wxWidgets-2.  
8.10.tar.gz?use_mirror=ovh  
# tar xvzf wxWidgets-2.8.10.tar.gz  
# cd wxWid*  
# ./configure --enable-unicode --without-subdirs --disable-gui --disable-  
expat  
# make  
# make install  
# ldconfig
```

Installing crypto++

```
# wget  
http://downloads.sourceforge.net/project/cryptopp/cryptopp/5.6.0/cryptopp560  
.zip?use_mirror=garr  
# unzip...  
# make  
# make install  
# ldconfig  
# cryptest.exe v
```

Check for all tests passed

Installing amuled for console/terminal use only

```
# wget  
http://downloads.sourceforge.net/project/amule/aMule/2.2.6/aMule-2.2.6.tar.b
```

```
z2?use_mirror=garr
# tar jxvf aMu*
# cd aM*
# ./configure --disable-monolithic --with-toolkit=base --enable-amule-daemon
--enable-amulecmd --enable-optimize --disable-debug --disable-ed2k
# make
# make install
```

Running amuled for first time:

```
# amuled
amuled: error while loading shared libraries: libwx_baseu-2.8.so.0: cannot
open shared object file: No such file or directory
```

So:

```
# cp /usr/local/lib/libwx_baseu_net-2.8.so.0
/usr/lib/libwx_baseu_net-2.8.so.0
# cp /usr/local/lib/libwx_baseu-2.8.so.0 /usr/lib/libwx_baseu-2.8.so.0
```

```
# amuled
amuled: OnInit - starting timer
Initialising aMuled 2.2.6 using v2.8.10
Checking if there is an instance already running...
No other instances are running.

ERROR: Info --- This is the first time you run aMule 2.2.6 ---
[...]
ListenSocket: Ok.
Loading temp files from /root/.aMule/Temp.

All PartFiles Loaded.
HTTP download thread started
No shareable files found in directory: /root/.aMule/Incoming

ERROR: aMule daemon cannot be used when external connections are disabled.
To enable External Connections, use either a normal aMule, start amuled with
the option --ec-config or set the key"AcceptExternalConnections" to 1 in the
file ~/.aMule/amule.conf

Now, exiting main app...
aMule OnExit: Terminating core.
aMule shutdown completed.
```

Changing amule.conf

Set your nick:

```
Nick=xxx
```

Set max upload speed (KB/s)

```
MaxUpload=128
```

Change ports:

```
Port=9800  
UDPPort=9801
```

Set your real IP address:

```
Address=66.x.165.x
```

Change MaxConnections (wxWidgets allows 1024 only)

```
MaxConnections=1023
```

Do not remove apparently dead servers, to avoid removing all servers from list:

```
RemoveDeadServer=0  
Serverlist=1
```

For 10 mbit server:

```
DownloadCapacity=1024  
UploadCapacity=768
```

```
MessagesFromFriendsOnly=1
```

```
NewVersionCheck=0
```

```
KadNodesUrl=http://xxx.net/nodes.dat  
Ed2kServersUrl=http://peerates.net/servers.php
```

```
AcceptExternalConnections=1  
EAddress=66.xxx.165.44  
ECPort=9866  
ECPassword=XXX
```

Creating init script

```
# nano -w /etc/rc.d/init.d/amuled
```

```
#!/bin/sh  
# aMule - script shell pour l'arret/demarrage du service  
  
# description: amule p2p download service  
# chkconfig: 345 97 03
```

```
# Source function library.
. /etc/rc.d/init.d/functions

USER=root          #A user who already ran amule once to configure it.

RETVAL=0

case "$1" in
start)
    echo -n "Starting amule daemon: "
    daemon --user=$USER amuled -f
    RETVAL=$?
    echo
    [ $RETVAL -eq 0 ] && touch /var/lock/subsys/amule

    ;;
stop)
    echo -n "Stopping amule daemon: "
    killproc amuled
    RETVAL=$?
    rm -f /var/lock/subsys/amule && rm -f /var/lock/amule
    echo

    ;;
status)
    status amuled
    RETVAL=$?
    ;;
restart|force-reload)
    $0 stop
    $0 start
    amuled stop
    amuled start
    RETVAL=$?
    ;;
*)
    printf "Usage: %q {start|stop|status|restart|force-reload}\n" "$0" >&2
    exit 1
    ;;
esac

exit $RETVAL
```

Creating amulecmd script to access amuled

```
# nano amulecmd.sh
```

```
#!/bin/sh
```

```
amulecmd -v -h xxx.150.183.18 -p 9866 --password=xxx
```

```
# chmod 755 amulecmd.sh
```

Creating "amuleshowdl" script to view nicely formatted download status

```
# nano amuleshowdl.sh
```

```
#!/bin/sh
```

```
amulecmd -v -h 207.150.183.18 -p 9866 --password=dqifbvgasaD0iesoo -c "show  
dl" | \  
grep '.' | \  
sed "1,/Succeeded/d" | \  
sed -n "N;s/^ > .*[0-9A-F]\{32\} \(.*\)\n >.*\[\(.%*\)\].*\]\(.*\)/\2 \1\3/p"  
| \  
sort -n
```

```
# chmod 755 amuleshowdl.sh
```

OPENING PORTS

9800

9801

9866

NODES

nodes.dat

Using amulecmd:

```
# ./amulecmd.sh
```

This is amulecmd 2.2.6

Creating client...

Succeeded! Connection established to aMule 2.2.6

```
-----  
|           aMule text client           |  
-----
```

Use 'Help' for command list

aMulecmd\$ status

```
> eD2k: Connected to XXX [83.xxx.191.161:4500] with HighID  
> Kad: Connected (ok)  
> Download:      222.77 kB/s
```

```
> Upload:      768.01 kB/s
> Clients in queue: 1034
> Total sources: 2410
```

```
aMulecmd$ connect
```

```
aMulecmd$ status
```

[Status should now show "now connecting"]

```
aMulecmd$ set bwlimit up 64
```

```
> Operation was successful.
> Bandwidth limits: Up: 64 kB/s, Down: 0 kB/s.
```

```
aMulecmd$ show ul
```

```
aMulecmd$ show dl
```

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