

Handleiding installatie Linux RMS Gateway

Voor de installatie van de Linux RMS gateway onder Ubuntu (9.10) zijn de volgende pakketten noodzakelijk. Er wordt vanuit gegaan dat AX25 al is geconfigureerd.

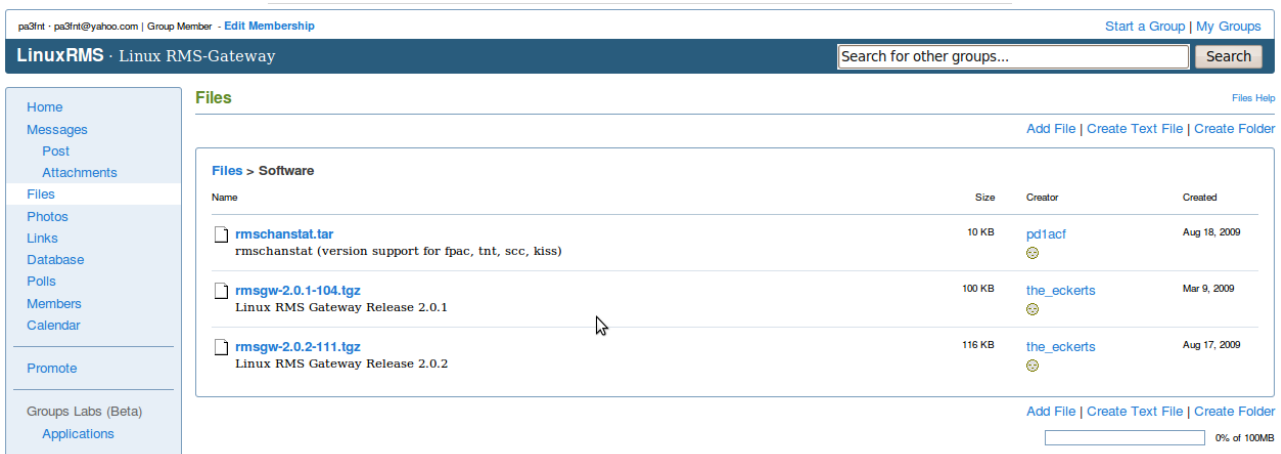
System requirements:

=====

- Linux
- AX25 kernel support (0.0.11 or greater is recommended)
- ax25-tools (0.0.8 or greater is recommended)
- libxml2 (the XML parser library coming from the Gnome project -- this does not require a Gnome installation to use, no GUI is involved in utilizing the parser library)
- mysql-client-5.0 library

Meld je aan bij de yahoo groep Linux RMS

Ga naar de website van deze groep en kies files > software



The screenshot shows a web interface for a file sharing group named 'LinuxRMS'. The page title is 'LinuxRMS · Linux RMS-Gateway'. There is a search bar and a 'Search' button. On the left, there is a navigation menu with options like Home, Messages, Post, Attachments, Files, Photos, Links, Database, Polls, Members, Calendar, Promote, and Groups Labs (Beta) Applications. The main content area is titled 'Files' and shows a sub-directory 'Files > Software'. A table lists the files in this directory:

Name	Size	Creator	Created
rmschanstat.tar rmschanstat (version support for fpac, tnt, scc, kiss)	10 KB	pd1acf	Aug 18, 2009
rmsgw-2.0.1-104.tgz Linux RMS Gateway Release 2.0.1	100 KB	the_eckerts	Mar 9, 2009
rmsgw-2.0.2-111.tgz Linux RMS Gateway Release 2.0.2	116 KB	the_eckerts	Aug 17, 2009

At the bottom right, there is a progress bar showing '0% of 100MB'.

Download de laatste versie van rmsgw-x.x.x-xx-tgz

Ga naar de directory /usr/src

Kopieer deze file naar /usr/src

* pak de file daar uit met `tar -zxvf rmsgw-x.x.x-xx.tgz`

Ga naar de directory die is aangemaakt /usr/src/rmsgw-x.x.x-xx

* Installeer de volgende pakketten:

- libxmx2
- libxml2-dev
- ax25-tools
- mysql-client-5.0
- libmysqlclient15-dev
- xutils
- xutils-dev
- ncurses-dev

* Geef het commando *make*

* Geef het commando *make install*

Voor het configureren van de RMS Gateway ga je naar de directory */etc/rmsgw*

* edit de file */etc/rmsgw/banner*

Wijzig de tekst:

Welcome to the PI9DF Winlink 2000 RMS Gateway. DARES Flevoland

* edit de file */etc/rmsgw/gateway.conf*

GWCALL=PI9DF-10

GRIDSQUARE=JO22UR

CHANNELFILE=/etc/rmsgw/channels.xml

BANNERFILE=/etc/rmsgw/banner

AUTHFILE=/etc/rmsgw/rms.auth

RMSKEYCODE=

RMSPASSWORD=

LOGFACILITY=LOCAL0

LOGMASK=INFO

Bij *RMSKEYCODE* en *RMSPASSWORD* vul je de juiste gegevens in

* edit de file */etc/rmsgw/channels*

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE rmschannels [
```

```
<!ELEMENT rmschannels (channel+)>
```

```
<!ELEMENT channel (basecall, callsign, gridsquare, frequency, mode,  
autoonly, baud, power, height, gain, direction, hours,  
groupreference, statuschecker)>
```

```
<!ATTLIST channel name CDATA #REQUIRED>
```

```
<!ATTLIST channel type CDATA #REQUIRED>
```

```
<!ATTLIST channel active CDATA #REQUIRED>
```

```
<!ELEMENT basecall (#PCDATA)>
```

```
<!ELEMENT callsign (#PCDATA)>
```

```
<!ELEMENT gridsquare (#PCDATA)>
```

```

<!ELEMENT frequency (#PCDATA)>
<!ELEMENT mode (#PCDATA)>
<!ELEMENT autoonly (#PCDATA)>
<!ELEMENT baud (#PCDATA)>
<!ELEMENT power (#PCDATA)>
<!ELEMENT height (#PCDATA)>
<!ELEMENT gain (#PCDATA)>
<!ELEMENT direction (#PCDATA)>
<!ELEMENT hours (#PCDATA)>
<!ELEMENT groupreference (#PCDATA)>
<!ELEMENT statuschecker (#PCDATA)>
]>
<rmschannels>
  <channel name="144850" type="ax25" active="yes">
    <basecall>PI9DF</basecall>
    <callsign>PI9DF-10</callsign>
    <gridsquare>JO22UR</gridsquare>
    <frequency>144850000</frequency>
    <mode>0</mode>
    <autoonly>0</autoonly>
    <baud>1200</baud>
    <power>50</power>
    <height>10</height>
    <gain>0</gain>
    <direction>0</direction>
    <hours>24/7</hours>
    <groupreference>1</groupreference>
    <statuschecker>
      /usr/local/bin/rmschanstat $type $name $callsign
    </statuschecker>
  </channel>
</rmschannels>

```

Vul de juiste gegevens in zoals AX25 channel name (zie /etc/ax25/axports), de call, QRA locator en de frequentie.

* Voeg in de file /etc/ax25/ax25d.conf het volgende toe:

```

#
# PI9DF-10: RMS
#
[PI9DF-10 via 144850 ]
NOCALL * * * * * L
NOCALL * * * * * L
#
default * * * * * - rmsgw /usr/local/bin/rmsgw rmsgw -l debug -P %d %U
#

```

Om de logging van de RMS Gateway te regelen moeten de volgende aanpassingen gemaakt worden.

Syslog

As root, edit /etc/syslog.conf ('man syslog.conf' for more info) to add the necessary "selectors" for the gateway logging. The following is a typical setup, but you can adjust to meet your own needs:

```
local0.info          /var/log/rms
local0.debug         /var/log/rms.debug
#local0.debug        /dev/null
```

The above example assumes that local0 is the facility to be used, but again, you can adjust according to your own needs. Also, the gateway configuration file must match with the facility you have chosen, or you will likely see no logging. In this setup, /var/log/rms receives all messages of priority 'info' and higher. /var/log/rms.debug receives all messages of priority 'debug' and higher. This means that there is duplication of many messages between the two files, but if you want a separate log for debugging output, this will provide a single file for analysis. You can replace the file for debug output with /dev/null, as the commented out line shows, which will effectively suppress any debugging messages generated by the gateway.

Since the priority can be controlled via other means (through configuration and command line options), an acceptable syslog entry can simply be:

```
local0.debug         /var/log/rms
```

Then the level of logging is completely controllable using gateway configuration methods. See the information on gateway.conf and rmsgw options below (also, check the supplied man pages rms-config(5) and rmsgw(1) to understand how logging is controlled when the gateway runs.

After editing syslog.conf, it will be necessary to restart syslogd with a command similar to:

```
/etc/init.d/syslogd restart
```

Gateway Configuration - Auto Check-in

The gateway provides a basic automatic check-in feature for now. The rmsgw_aci program should be run once an hour for the 'rmsgw' user's crontab (see the rmsgw_aci(1) manpage for additional info). The crontab can be edited by executing the following command as root:

```
crontab -e -u rmsgw
```

You will need to add an entry like:

```
19,49 * * * * /usr/local/bin/rmsgw_aci >/dev/null 2>&1
```

This tells cron to run the auto check-in on the 19th and 49th minute of each hour. You should choose a random pair of minutes, 30 minutes apart (and between 0-59) for your installation so that not every Linux RMS Gateway does its automatic check-in at the same times every hour.

If you find that cron entries do not run for the rmsgw, check the main system log or auth.log for complaints about the account being expired. If that occurs, as root, run the following command to make the password never expire for the account (while leaving it locked and not able to be used for logins):

```
chage -E-1 rmsgw
```

* Met het programma rmsgwmon kan de status van de gateway bewaakt worden.

Veel van deze informatie is te vinden in de file INSTALLING.