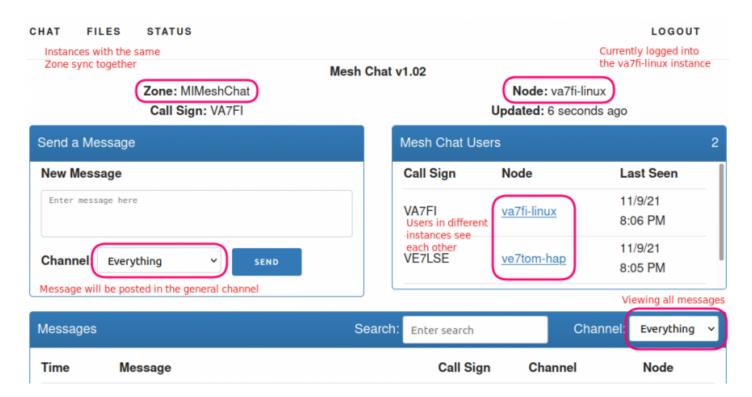
2025/12/19 04:37 1/7 Mesh Chat

Mesh Chat

Using Mesh Chat is easy: simply click on a Mesh Chat service and enter your callsign.





At the moment, we have about half a dozen Mesh Chat instances that sync to each other:

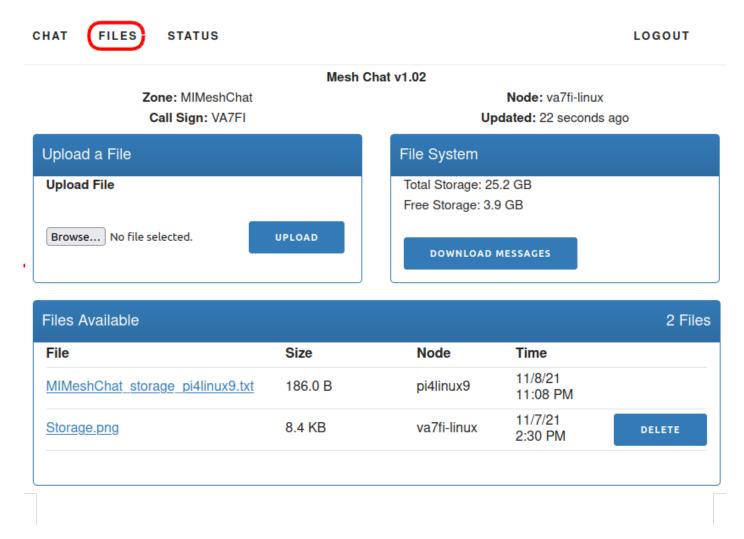
VA7FI-Linux	Runs on a linux laptop and has a few GB of available space
VA7LSP-hAPac3-1	Runs on the hAP and has 512 kB of available space
VE7SST-home	Runs on the hAP and has 512 kB of available space
©VE7SST-NSM5	Runs on the hAP and has 512 kB of available space
VE7ZDH-wrt-1	Runs on the hAP and has 512 kB of available space

And if you're running Linux Mint, you can create a super convinient Web App to load it quickly without the clutter of a regular browser.

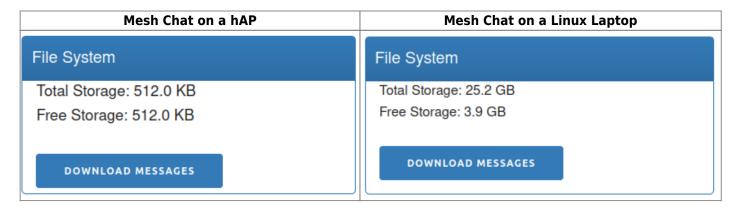
Last update: 2025/11/10 22:08

File Sharing

MeshChat can also be used for file sharing by clicking on the FILES tab at the top. The file will be physically stored on the node you are using at the moment, but can be accessed by all nodes. To delete a file, you must be logged into the MeshChat node that is storing the file.



Also be mindful of the storage capacity of different nodes. When MeshChat is installed on a hAP, it only has 512 kB of space. In the example above, MeshChat is installed on a cheap Linux laptop and has almost 4 GB of free space.



https://wcaredn.ca/ Printed on 2025/12/19 04:37

2025/12/19 04:37 3/7 Mesh Chat

Mesh Chat on a Linux Server

Before we get started with the details, let's have a look at the big picture. There are 3 different "names" that we'll have to keep track of:

- The AREDN Node name configured in the Basic Setup page. Mine in is VA7FI-HAP-1. Yours will be different.
- The Hostname of the linux computer running the service. Mine is VA7FI-Linux. Yours will be different.
- The Service name. Here we use MIMeshChat. Use the same if you want your instance to sync with that one. This is also called the Mesh Chat "Zone".

Here's where that information shows up on the Node Status page once it's all done and ready:



And in the Mesh Chat app:

Mesh Chat v1.02

Zone: MIMeshChat Node: va7fi-linux

In what follows, it'll be important to keep track of where to enter this information so it's configured properly.

Server Install

• Follow the steps in the Prerequisites section of the Linux Server page.

Mesh Chat Install

Following the instructions on Trevorsbench:

Download and install Mesh Chat: 1)

```
wget https://gelm.net/AREDN/meshchat/meshchat_1.02_all.deb
sudo dpkg -i meshchat_1.02_all.deb
```

• Edit the configuration file:

```
sudo pico /usr/lib/cgi-bin/meshchatconfig.pm
```

and edit the last two lines so that the zone matches the other Mesh Chat instances, and the node is the name of your AREDN node. In my case:

On LinuxMint there's an issue that needs to be fixed before continuing. Essentially, the current setup uses files in the /tmp folder, which the Apache server is not allowed to edit. So the solution was to create that folder somewhere else and set the permissions properly.²⁾

Create these folders:

```
sudo mkdir /var/www/html/meshchat/tmp/
sudo mkdir /var/www/html/meshchat/tmp/meshchat/
```

• And change the ownership and permissions:

```
sudo chown www-data:www-data -R /var/www/html/meshchat/tmp/
sudo chmod 770 -R /var/www/html/meshchat/tmp/
```

• Edit the config file:

```
sudo pico /usr/lib/cgi-bin/meshchatconfig.pm
```

• And replace every instance of /tmp/ by /var/www/html/meshchat/tmp/ (line 2, and 18):

• For reference, the permissions for the files in /usr/lib/cgi-bin/ are:

```
-rwxr-xr-x 1 www-data www-data meshchat
-rw-r--r-- 1 root root meshchatconfig.bac
-rw-r--r-- 1 www-data www-data meshchatconfig.pm
-rw-r--r-- 1 www-data www-data meshchatconfig-stretch.pm
-rw-r--r-- 1 www-data www-data meshchatlib.pm
```

Restart the services:

https://wcaredn.ca/ Printed on 2025/12/19 04:37

2025/12/19 04:37 5/7 Mesh Chat

```
sudo systemctl daemon-reload
sudo /etc/init.d/apache2 restart
sudo /etc/init.d/meshchatsync restart
```

At this point, you should be able to run Mesh Chat from the computer where it's installed using this address: http://localhost/meshchat/

But it won't be able to talk to your AREDN node yet.

AREDN Configuration



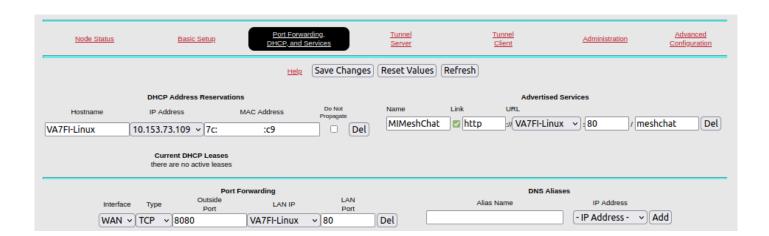
If you had previously installed MeshChat 1.02 on a Raspberry PI or Linux machine and later upgraded your node to 3.22.6.0, you may notice that MeshChat stopped synching. The following instructions have been updated to help fix that.³⁾

Install the meshchat-api package Note that this part may need to be done every time the node is upgraded. :

- For AREDN prior to v3.22.6.0, download meshchat-api 1.02
- For AREDN v3.22.6.0 or later, download meshchat-api 2.x all.ipk
- From the Administration page, click on Upload Package Browse... to install it.

From the Port Forwarding, DHCP, ans Services page:

- 1. Setup a DHCP Address Reservation for the Linux computer
- 2. Advertise the service
- 3. Forward WAN port 8080 to LAN port 80
- 4. Don't for get to Save Changes



AREDN - https://wcaredn.ca/

Last update: 2025/11/10 22:08

References

Mesh Chat has gone through different maintainers since its original inception. As such, you might find information dispersed across different websites.

v0.4 - v1.02

Original version by Trevor Paskett (K7FPV) was last updated in 2020.

- Github: https://github.com/tpaskett/meshchat/tree/master
- Personal Website: http://www.trevorsbench.com/meshchat-messaging-for-mesh-networks/

v2.0 - v2.10

Tim Wilkinson (KN6PLV)

• Github: https://github.com/kn6plv/meshchat

v2.11 - v2.12.1

Gerard Hickey (WT0F)

https://github.com/hickey/meshchat/releases

v2.15 - v2.16

1)

Tim Wilkinson (KN6PLV)

• Github: https://github.com/kn6plv/meshchat

The old location doesn't work anymore: https://s3.amazonaws.com/aredn/meshchat_1.02_all.deb

The /tmp issue is discussed here:

https://www.arednmesh.org/content/pi-meshchat-error-sending-message

See kn6plv/meshchat (for AREDN in Lua) on Github, and this discussion on arednmesh.

https://wcaredn.ca/ Printed on 2025/12/19 04:37

2025/12/19 04:37 7/7 Mesh Chat

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AREDN

Permanent link:

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Last update: 2025/11/10 22:08

