

Linux Server

Prerequisites

Running a home Linux Server on AREDN is pretty simple.

- Install [LinuxMint Xfce](#) on a cheap laptop.
- Update and reboot it if necessary.
- Change the Linux hostname, which will identify the computer in various places on AREDN. I renamed mine to VA7FI-Linux:

```
sudo hostnamectl set-hostname VA7FI-Linux
```

- Install Apache:

```
sudo aptitude install curl apache2
```

Website

The html Folder

The website folder is located here: `/var/www/html/` Anything you put in there (with the right permissions) will be visible to others on the AREDN network. Let's get a few things out of the way first.

- Create a link to your home folder for ease of access:

```
ln -s /var/www/html ~/
```

- Change the ownership of everything in that folder so you (the user) and the web process can access them easily. My username is aredn, which you should replace with your own username.

```
sudo chown aredn:www-data -R /var/www/html/
```

- Change the permissions:

```
sudo chmod 770 -R /var/www/html/
```

In general, those permissions are ok, but depending on what you're running as a web service, they could be too permissive. That being said, since you're not exposing our site to the open internet, you're probably ok with those.

The index.html File

You're now ready to write our first webpage! You can delete the `index.html` file that's already in the webfolder and create one of your own. There's a simple [online html editor](#) that's very convenient to use for small pages: simply edit the text you want on the left, and copy the html code on the right into your `index.html` file. Here's [VA7FI's page](#) as an example.¹⁾



When you manually create new files in your web folder, you might have to correct the ownership and permissions using the lines with `chown` and `chmod` above. Often times, if you can't see a page, it's because the ownership or permissions are wrong.

At this point, you should test that you can view your webpage locally on your Linux computer: <http://localhost/>

AREDN Node Configuration

Now that the site is working locally, we can share it on the AREDN network.

From the Port Forwarding, DHCP, and Services page:

1. Setup a DHCP Address Reservation for the Linux computer
2. Advertise the services
3. Forward WAN port 8080 to LAN port 80
4. Don't forget to [Save Changes](#)



About The Advertised Services Section

Here, I'm doing three different things:

- The first line with "Primary hAP" is an optional title that I'm displaying for my hAP and has nothing to do with the Linux server. Notice how this line doesn't have the Link checkbox marked because it's only a title, not a link.
- The second line is advertising the `/var/www/html/` web folder. By default, the `index.html` file gets read when opening a folder. "Home Page" is the title displayed, and everything that follows is how to link to it.
- The third line is advertising a `wiki` folder that I have in `/var/www/html/` folder, and its display name is "Wiki".

[Here's how that translates to the Node Status page:](#)



¹⁾

You must be on the AREDN network to view the page