

Tunnelling

In order to setup a tunnel connection between two AREDN nodes, one needs to act as the server, and the other as the client. In this example, VA7FI-HAP-1 is the server and VE7RBE-HAP-1 is the client (and the details are made up):

Server Side

On [VA7FI-HAP-1's Tunnel Server page](#):



From left to right:

- Client: VE7RBE-HAP-1 is Robert's node name.
- A unique password is created
- Net: 172.31.39.164 is automatically assigned.
- Some optional Contact Info can be added.

VA7FI's public IP address will also need to be communicated to VE7RBE. You can quickly find it by searching for "what's my ip" in



Client Side

On [VE7RBE-HAP-1's Tunnel Client page](#):



From left to right:

- Server: 154.12.201.102 is VA7FI-HAP-1's public IP address
- Pwd: is the password created by VA7FI-HAP-1
- Network: 172.31.39.164 is the net address generated by VA7FI-HAP-1

More About Public IP Addresses

Most residential internet services are given a single *dynamic* IP address, which means that the address can *change* every few days or so, or when the router power cycles. This means that when a server node suddenly gets a new public IP address, the client node can't find it anymore.

One solution is to use a [Dynamic_DNS](#) service like [No-IP](#). These services query your *dynamic* IP address, and translate it into a *static* hostname. It's that hostname that you can then give the AREDN client (instead of your public IP address). However, there's an extra step required for the No-IP service to query your dynamic IP address.

This can be done by installing a small program on your computer, but some routers have that option their settings. For example: on my Telus T3200M router, I can enter my No-IP information under Advanced Setup → Dynamic DNS:

