Written by Jim Kinter, K5KTF - Last Updated Thursday, 12 January 2012 07:54

(this is only a photoshop job... NOT a real book... YET)

Many who now have nodes setup and linked are wondering "NOW WHAT???"

Here is an example of setting up something to talk across your mesh.

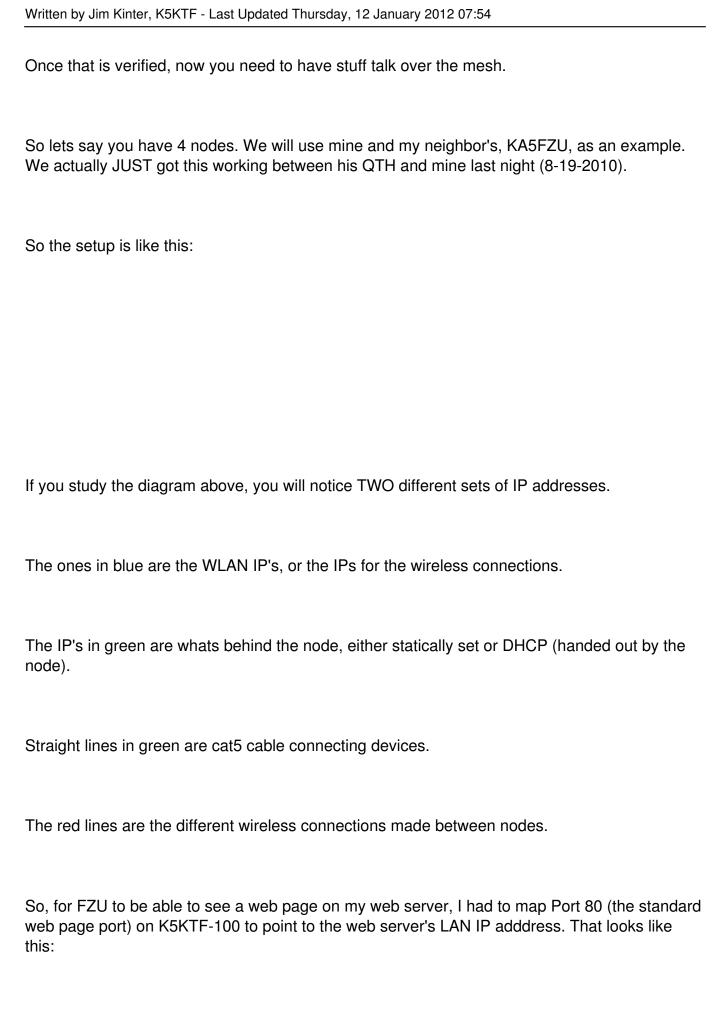
First, you need to have at least 2 nodes talking to each other.

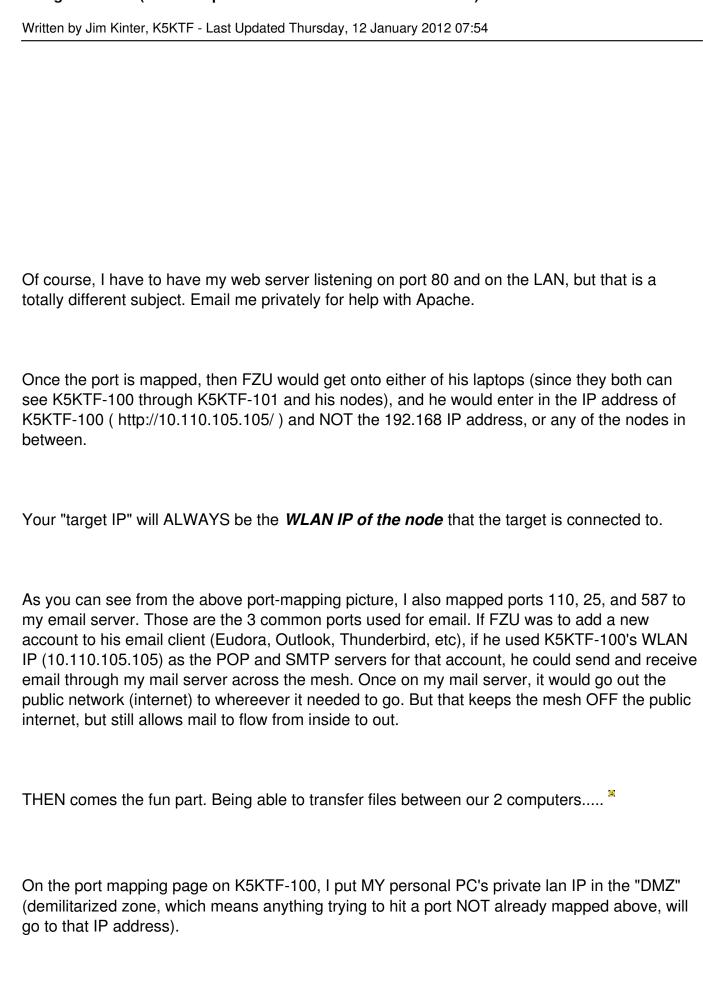
You can verify this by looking at the main localnode status page (and yes, I prefer "night mode" on my status pages... cant wait till Dave puts that option in OLSR [™]



If you have SIGNAL/NOISE/RATIO values, then you have at least 2 nodes talking. If it says N/A, then the nodes cant see each other yet. Try repositioning the node, adding a reflector or two (http://www.freeantennas.com/projects/template2/index.html), or maybe you might need another node in between to help bounce. Thats EXACTLY what we had to do, was I moved K5KTF-101 closer (out in the workshop) to FZU's QTH, AND made one reflector from that link and slipped it on one of the -101 antennas, pointing towards his house.

Using the MESH (aka Examples how to move stuff over the mesh)





Written by Jim Kinter, K5KTF - Last Updated Thursday, 12 January 2012 07:54

I also had to add an exception to my Windows firewall, to exclusively *allow* KA5FZU-100 and -101 IP addresses, to allow him to use Windows networking to get into my PC. I already had shared folders setup on my PC, so I didnt have to do anything extra. HE on the other hand, created a special folder called "Mesh Dropped Files" and shared it. Then we added his PC's IP address (the 172.27.0.x IP) to the DMZ on his nodes.

Then, to get TO each other's PC's, you would do a START, RUN, (or WIN key and R) and type in \ and the *TARGET WLAN* IP or the TARGET node name, and click OK.

That pops up a Windows Explorer window showing any shared files/folders/printers on that PC. If I opened a second Explorer window (by holding down the WIN key --to the left of the spacebar between CTRL and ALT on most PC keyboards-- and tapping E), then I could drag and drop files between the two windows, copying files across the mesh.

For my personal setup on my Windows 2000 PC, I had to add a ROUTE to be able to talk to the mesh THROUGH my first node. Usually the default setup would NOT need this, as you would be plugged directly into the node itself, and would get it directly from the node. But just in case....

The syntax for the command is route, the -p is to make it persistent across reboots, then the network (ALL of the 10.0.0.0 network), the word m

ask

and the netmask of the mesh (

255.0.0.0

), and the then IP of the gateway to the mesh (on mine its

192.168.0.103

) which is the LAN IP of the 1st mesh node (by default it usually is 172.27.0.1)

Using the MESH (aka Examples how to move stuff over the mesh)

Written by Jim Kinter, K5KTF - Last Updated Thursday, 12 January 2012 07:54

For DNS to work properly (calling by name instead of IP) under Windoze, you need to do 2 more things:

Add the LAN IP of the node (192.168.0.103 in my example) as your secondary/alternate DNS server (Control Panel, Network Settings, LAN Properties, IP (V4 if needed) Properties, and the 2 DNS servers at the bottom).

Then, while in there, click the ADVANCED button, DNS tab, and check the "Append these DNS suffixes" box and then add "austin.tx.us.mesh" (without quotes) to that section. OK all the way out, and maybe reboot to make sure all settings jive, and it should all work.

I hope this article has helped clear up issues you may have trying to run things over a mesh. If you have any questions, feel free to email me (jim at mycallsign dot com) and I will try my best to assist.

Thanks for reading & 73

Jim K5KTF