

Ham 95C – ASV Issues – Checklist Numbers, Passwords etc.

Dr. Marc & Rosemary © 230725

- AllStar is very powerful, fun, easy-to-use digital radio tool. Because of all the options, it takes several steps to set-up.
 - Other HamVoip articles provide the details for each of these actions. This is a checklist, overview, and debug aid.
- At www.AllStarLink.org login in with your call-sign and a password.
 - Apply for Node number. When received, you allocate sub numbers to your phone, node1, node2 in >Portal.
 - ID1. >Server to assign Port number for router. >Node to assign its Password. No special characters. Link server.
 - ID2. Repeat process for second node.
- Build Pi hardware. Use Raspberry Pi 2B or 3B with Ethernet. The 4 runs hotter and is overkill.
 - Use Masters Communication RL-20 Board. Solder 5V to Pin7. Connect USB cable.
 - Build an adapter cable for mic & speaker or for RF with Baofeng UV5 handi-talkie.
 - Initialize microSD card with HamVoip on PC.
- Plug Ethernet into Pi. Insert card in Pi. Connect speaker. Plug in power. Listen for IP or look up in router.
- Open router. Find IP address of Pi Ethernet. Make DHCP reservation for Pi IP. Open Port forwarding to that IP.
 - Repeat process for second Pi.
- Putty-E(thernet). Enter the hostname / IP address. Change to Port 222. Click SSH. Give a Session-Name. Click Save.
 - Click Open. A small black, screen shows connected to the Pi's Linux command line interpreter (CLI).
- Before set-up: Enter Linux login: root & pass: root. Login root gives full access without Sudo. Password will change.
 - Asterisk blue menu screen opens. Asks to select update? <yes>. Select Restart.
 - Putty-E. This time, select update? <no>. Run first time setup? <yes>. Create pass, node# & hostname. Reboot.
 - Putty-E. Login: root & pass: YourName. Continue Asterisk config? <yes>. Enter setup linking. Restart Asterisk.
- Putty-E. After setup: Enter Linux login: root & pass: YourName.
- HamVoip Admin Menu gray screen pops up. Select Menu 1- System Update.
 - The process is simply putting data about your node. About a dozen steps. Relax.
 - Enter Node number and password with no special character for AllStarLink.org.
 - Menu 7- Configure WiFi using Router info.
 - Test. Menu 11- Run CLI. Press mic keys. Should display on screen. Try *-codes.
 - Corrections? Menu12- Run simpleusb-tune-menu. Changes Tx/Rx gain, rpt.conf.
- When complete, Reboot. Disconnect Ethernet.
- Machine will restart. Listen for IP address of WiFi. Write it down.
- Open router. Find IP address of Pi WiFi. Make DHCP reservation for Pi IP. Close Port forwarding to Ethernet. Open Port forwarding to WiFi IP.
- Putty Wi-Fi. Enter the hostname / IP address. Change to Port 222. Click SSH. Give a Session-Name. Click Save.
 - Click Open. A small black, screen shows connected to the Pi. Enter login: root & pass: YourName.
- At www.AllStarLink.org. Login in with Allstar password. >Node. Registered = YES, affirms the node is connected.
- From Admin Menu, Menu 11- Run CLI. Press keys on mic. It should display on screen. Turn off. Return to menu.
- AllStar enhancements are very cool. From Admin Menu, select Menu 9- Start Bash Shell. Follow instructions.
 - Black screen is same as Linux login. Line shows [who-is-user@hostname folder]#. When finished 'exit'.
 - Ham 93B configures for multiple nodes, if you have two.
 - Ham 94B configures to show COS LED on the sound card.
 - Ham 96A adds on Skywarn Plus app for automatic weather notices.



```
Admin Menu List
select:
1 Perform a system UPDATE (Internet access)
2 Change the ROOT password
3 Change the primary NODE number
4 Change the system Timezone
5 Change the system Hostname
6 Configure the Wired Ethernet Networking
7 Configure the WiFi Interface Networking
8 Change the Secure Shell (SSH) port
9 Start Bash shell interface
10 Display System Version Numbers
11 Run Asterisk CLI client
12 Run simpleusb-tune-menu Application
13 Restart Asterisk Server
14 Power-cycle the USB sub-system
15 Reboot this system
16 Perform system power down
<Run Selected Item> < Exit /
```

17. Life is good. Enjoy!

