

Customizing the Hamvoip Admin Menu

The hamvoip admin menu first released in V1.5 has most of the commonly used utilities for administration of your Allstar system. However some may have a need to add items to the menu. The menu structure was written to make this quite easy. When the menu is executed it reads script files from the `/usr/local/sbin/firsttime` directory to form the menu. Each of these script files identifies the selection title, position in the menu and the operation performed by that selection.

The selection title and position in the menu are determined by one line in the file beginning with `#MENU`. The line looks like this -

`#MENU%50>Edit a file using nano`

A menu items position within the menu is determined by the number between the `%` symbols. In this case 50 which sounds crazy but it is not. The ordering is determined by the ascending sequence of numbers so menus labeled 1,2,3,51,99 would appear as 1,2,3,4,5.

Hamvoip reserves numbers from 1 through 49 and above 89. User numbers can be 50 through 89. So if you created a menu 50 it would go after the current hamvoip designated items but before the current hamvoip designated items of reboot and halt which are the last items in the menu. If a user then defines a menu 51 it would go after there menu item 50 and so on.

There is no limit to menu items but as they grown they will exceed the vertical limits of the screen. Once they are beyond your defined vertical limit you must scroll or page down to see the additional items. Menu item must a distinct number.

Be aware that hamvoip updates may change items in the menu outside of the range designated for users so please only use the user designated menu numbers of 50-89.

Below is a complete script using the menu definition example above to create an ADMIN menu item that runs the nano editor to edit a file. The name of the script is not important but should identify what it does. It would be best to precede the filename with "user-" to identify it as being a user file and not a hamvoip file. I call this script **user-nano.sh** and it must be placed in the `/usr/local/sbin/firsttime` directory. The script must also be executable. Use **`chmod 755 <filename>`** to make it executable.

```

#!/bin/bash
# Modified 2017/01/20 by David, KB4FXC
# -----
# Copyright (C) 2014-2017 David, KB4FXC
#
# This program is free software; you can redistribute it and/or modify
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# This program is distributed in the hope that it will be useful,
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# GNU General Public License for more details.
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# You should have received a copy of the GNU General Public License
# along with this program. If not, see http://www.gnu.org/licenses/.
# -----
#
#
#MENU%50>Edit a file using nano

$SON
reset
read -p "Enter the path and filename to edit - " fname
/usr/bin/nano $fname

exit 0

```

Below is another script asking if you want to connect or disconnect from a specific node. I call this script user-node-op.sh and again it must be in the /usr/local/sbin/firsttime directory. This is show as menu number 51 which if installed with the above example would go after it in the selections. These are only examples to show what can be done. It is up to the creative user to come up with their own ideas.

```

#!/bin/bash
# Modified 2017/01/20 by David, KB4FXC
# -----

```

```

# Copyright (C) 2014-2017 David, KB4FXC
#
# This program is free software; you can redistribute it and/or modify
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#
# This program is distributed in the hope that it will be useful,
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# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program. If not, see http://www.gnu.org/licenses/.
# -----
#
#
#MENU%51%Connect or Disconnect from a Node

```

```
source /usr/local/etc/allstar.env
```

```
# $NODE1 is the first defined node on this server
```

```

$SON
reset
read -p "(C)onnect or (D)isconnect - " mode
read -p "Enter the node - " node
if [ ${mode^^} = "C" ]
    then
        command="3"
        echo -e "\nConnecting $NODE1 to node $node\n"
    else
        command="1"
        echo -e "\nDisconnecting $NODE1 from node $node\n"
    fi
/usr/bin/asterisk -rx "rpt fun $NODE1 *$command$node"

read -n 1 -s -p "Press any key to continue"
echo
exit 0

```

Summary

Only use menu numbers 50-89. This puts your entries outside of hamvoip defined menu entries.

Never change any existing non-user files. It is alright to copy an existing file to a new name but be sure to edit it for menu number and content.

Hamvoip menu updates could change menu numbers. So after an update be sure to look at the description and not solely depend on the number.

The files you create are just bash scripts with certain key parameters. Do not change anything in the basic file other than the menu number and the action you want the script to take. When your script is done it will return to the ADMIN menu.

Long menus will go off the screen at the bottom. Use page down or scroll down to additional entries.