Installation of DXSpider on a Raspberry Pi v1.06

System Initialization

raspi-config

<pre>info expand-rootfs overscan configure-keyboard change_pass change_locale change_timezone memory_split ssh boot_behaviour update <select></select></pre>	Information about this tool Expand root partition to fill S Change overscan Set keyboard layout Change password for 'pi' user Set locale Set timezone Change memory split Enable or disable ssh server Start desktop on boot? Try to upgrade raspi-config	D card <finish></finish>
expand-rootfs - yes - Select this option to expand the allocated storage space to fill you SD Card		
configure-keyboard – select you keyboard - Configure this for the keyboard you are using		
change_pass - This option adds a password for user — pi		
change_locale - en-us - Change to your local		
change_timezone - Set to your timezone		
memory_split - Leave as-is you can change it later		
ssh - enable secure shell		
boot_behaviour - a desktop is not needed for DXSpider, and just uses resources		
update - select update to retrieve a	all updates	

Begin DXSpider Installation

```
$ sudo apt-get install mc
- mc is a good navigational tool with editor
```

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\$ sudo apt-get install wget - wget is a good tool for downloading files off the Web - wget may already be installed on some versions of Raspbian \$ sudo apt-get install git-core - git is the tool to retrieve DXSpider and future updates \$ sudo groupadd spider \$ sudo useradd -m sysop -G spider \$ sudo usermod -g spider sysop - follow the instructions to set the full name and password - if you are not prompted for a password enter the following and add a password: \$ sudo passwd sysop \$ sudo adduser sysop sudo \$ sudo hostname n6ws-pi - any hostname will do \$ sudo apt-get install libtimedate-perl \$ sudo apt-get install libnet-telnet-perl \$ sudo apt-get install libcurses-perl \$ sudo apt-get install libdigest-shal-perl \$ sudo apt-get install libdata-dumper-simple-perl Adds the necessary perl modules for DXSpider - OK4BX noted the latest build for SHA was changed to libdigest-sha-perl. If you receive an error in the step for sha1, use the following: \$ sudo apt-get install libdigest-sha-perl - This method work last week, but does not work now. - Even with using the --fix-missing switch, you may not be able to load sha - If anyone knows how to load sha1-perl, please let me know. \$ sudo su # cd ~sysop # ln -s /home/sysop/spider /spider # shutdown -r now After restart login as sysop \$ cd ~ \$ mkdir spider \$ git clone git://scm.dxcluster.org/scm/spider spider.new \$ cp -a /home/sysop/spider.new/.git /spider \$ rm -rf spider.new \$ cd /spider \$ git reset --hard \$ sudo su # cd /home/sysop/ # chown -R sysop.spider spider # find . -type d -exec chmod 2775 {} \; # find . -type f -exec chmod 775 {} \;

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exit

```
$ cd /spider
$ mkdir local
$ mkdir local_cmd
$ cp perl/DXVars.pm.issue local/DXVars.pm
$ cp perl/Listeners.pm local/Listeners.pm
$ cd local
$ mc
- edit DXVars.pm following the instructions in the comments
- edit Listeners.pm to remove "#" from the line for the port, and add additional ports as needed:
@listen = (
    ["0.0.0.0", 7300],
);
- exit mc
$ cd /spider/perl/
$ ./create sysop.pl
$ cd /tmp
$ wget <u>http://ftp.wlnr.net/usdbraw.gz</u>
- The next step can take a few minutes
$ /spider/perl/create_usdb.pl /tmp/usdbraw.gz
$ cd /spider/src
$ make
$ cd /spider/perl
$ ./cluster.pl
- on a separate ssh or system console, log into the system as sysop
```

\$ /spider/perl/console.pl

- from the command line of the console enter: load/usdb

```
- Edit /etc/inittab to add the following two lines at the end of the file.
##Start DXSpider on bootup and respawn it should it crash
DX:2345:respawn:/bin/su -c "/usr/bin/perl -w /spider/perl/cluster.pl" sysop >/dev/tty6
```

That is pretty much all you have to do to get the basic DXSpider up an running on a Raspberry Pi.

To receive DX Spots you will have to arrange with another Sysop to connect to another node. Follow the instructions under "Setting up node connects" to create connections: <u>http://wiki.dxcluster.org/index.php/Configuration</u>