

Installation of DXSpider on a Raspberry Pi v1.0

Installation of DXSpider on a Raspberry Pi

System Initialization

raspi-config

info	Information about this tool
expand-rootfs	Expand root partition to fill SD card
overscan	Change overscan
configure-keyboard	Set keyboard layout
change_pass	Change password for 'pi' user
change_locale	Set locale
change_timezone	Set timezone
memory_split	Change memory split
ssh	Enable or disable ssh server
boot_behaviour	Start desktop on boot?
update	Try to upgrade raspi-config
<Select>	<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 all updates

Begin DXSpider Installation

```
$ sudo apt-get install mc
```

Installation of DXSpider on a Raspberry Pi v1.0

- mc is a good navigational tool with editor

```
$ sudo apt-get install wget
```

- wget is a good tool for downloading files off the Web

```
$ sudo apt-get install git-core
```

- git is the tool to retrieve DXSpider and future updates

```
$ useradd -m 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-sha1-perl
```

```
$ sudo apt-get install libdata-dumper-simple-perl
```

- Adds the necessary perl modules for DXSpider

```
$ sudo su
```

```
# cd ~sysop
```

```
# ln -s ~sysop/spider /spider
```

```
# groupadd spider
```

```
# cd /etc
```

```
# mc
```

- navigate to the file /etc/group and add sysop after the group spider

- exit mc

```
# shutdown -r now
```

After restart login as sysop

```
$ su - sysop
```

```
$ cd ~
```

```
$ git clone git://scm.dxcluster.org/scm/spider spider.new
```

```
$ cp -a 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 {} \;
```

```
# exit
```

Installation of DXSpider on a Raspberry Pi v1.0

```
$ cd /spider
$ mkdir local
$ mkdir local_cmd
$ cp perl/DXVars.pm.issue local/DXVars.pm
$ cd local
$ mc
```

- edit DXVars.pm following the instructions in the comments
- exit mc

```
$ cd /spider/perl/
$ ./create_sysop.pl
```

```
$ cd /tmp
$ wget http://ftp.wlnr.net/usdbraw.gz
- 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 and running on a Raspberry Pi.