

1. Change to root

```
sudo su
```

2. Setup system to install DXSpider

```
groupadd spider
```

```
useradd -m sysop -G spider
```

```
usermod -g spider sysop
```

3. If you are not prompted for a password enter the following

```
passwd sysop
```

```
adduser sysop sudo
```

4. Install perl libraries

```
apt-get update
```

```
apt-get install libtimedate-perl libnet-telnet-perl libcurses-perl libdigest-sha-perl libdata-dumper-simple-perl
```

5. Finalize and restart RPi

```
cd ~sysop
```

```
ln -s /home/sysop/spider /spider
```

```
shutdown -r now
```

6. After restart, login as sysop. Load DXSpider software

```
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
```

7. Set permissions on DXSpider files

```
sudo su
```

```
cd /home/sysop
```

```
chown -R sysop:spider spider
```

```
find . -type d -exec chmod 2775 {} \;
```

```
find . -type f -exec chmod 775 {} \;
```

```
exit
```

8. Setup DXSpider initialization and parameter files

```
cd /spider
```

```
mkdir local
```

```
mkdir local_cmd
```

```
cp perl/DXVars.pm.issue local/DXVars.pm
```

```
cp perl/Listeners.pm local/Listeners.pm
```

```
cd local
```

9. Edit DXVars.pm to suit your station, station location info, etc., following instructions in the comments. Ctrl X to exit and save file.

```
nano DXVars.pm
```

Pay special attention to the following and insert your callsign data, not mine as shown:

```
mycall = "KOPIR-2";
```

```
myalias = "KOPIR";
```

```
myemail = "Rich\@k0pir.us";
```

10. Edit Listeners.pm to remove “#” from the line for the port. Should look something like this. Ctrl X to exit and save file.

```
nano Listeners.pm
```

```
@listen = (
```

```
    ["0.0.0.0", 7300],  
);
```

11. Begin DXSpider setup

```
cd /spider/perl/  
./create_sysop.pl  
cd /tmp  
wget http://ftp.w1nr.net/usdbraw.gz
```

12. Begin setup of usdbraw file

```
/spider/perl/create_usdb.pl /tmp/usdbraw.gz
```

13. Compile DXSpider client, will take a few minutes.

```
cd /spider/src  
make
```

14. Launch DXSpider

```
cd /spider/perl  
./cluster.pl
```

15. Launch another SSH console window and login as sysop

```
/spider/perl/console.pl
```

Next, to receive DX spots you will need to arrange with another Sysop. It's very easy and they are happy to help. Join the [DXSpider support list](#). Then send a message with the subject "Partner Link Request" to the support list. You might be surprised, but you should get at least one or two maybe more responses back.

You'll want to send your info. In this example the host is set to "dxc" and my domain is "k0pir.us", so I would send the partner "K0PIR-2 at dxc.k0pir.us port 7300"

If you have a FQDN and access to your DNS you can send traffic for host "dxc" to your home routers external IP address, see below.

A (Host)

```
dxc      96.2.58.94      14400
```

The home router is configured with the local IP 192.168.0.73 as the DMZ, so traffic passes through to my Raspberry pi.

If you don't have a static IP or FQDN you can use a service. See [here](#).

Continue to the next section... "Running Raspberry Pi 3 DXSpider Node and Link Partners"