

MRTG

In 12 Step by Step

1. Install MRTG
`#apt-get install mrtg`
2. Create the /etc/mrtg directory
`$sudo mkdir /etc/mrtg`
3. Find out the SNMP Community String - san0g
4. Find the IP / name of the Device
- gw.conference.sanog.org
- 169.223.5.253 (the switch in your class)
5. Run cfgmaker (all command in same line)

`#/usr/bin/cfgmaker --output=/etc/mrtg/router.mrtg --global 'workdir:
/var/www/mrtg' --global 'options[_]: growright,bits' san0g@gw`
6. View the mrtg configuration file created by cfgmaker, u can make changes and see the results.
7. Use indexmaker to create HTML files
`#/usr/bin/indexmaker --output=/var/www/mrtg/device.html /etc/mrtg/router.mrtg`
8. Run MRTG command (ignore the error and run 3 times)
`#env LANG=C /usr/bin/mrtg /etc/mrtg/router.mrtg`
9. put the above command in a script
`#echo "env LANG=C /usr/bin/mrtg /etc/mrtg/router.mrtg" > /etc/mrtg/mrtgscript`

`#chmod +x /etc/mrtg/mrtgscript`
10. Edit the crontab and insert the command to be run every 5 minutes

`#crontab -e`

```
0-59/5 * * * * /etc/mrtg/mrtgscript
```

11. Load the browser through webserver
`http://localhost/mrtg/`
12. Go for Tea / come back and see if your graph is moving.

RRDTool

```
#apt-get install rrdtool  
#apt-get install librrdp-perl  
# apt-get install librrds-perl
```

Add in your MRTG Configuration file

```
# vi /etc/mrtg/router.cfg  
; add below Workdir
```

LogFormat : rrdtool

[go to `/var/www/mrtg/` and see how the `.rrd` files have been created]

NFdump

[NFdump is the flow collector]

0. Basic Debian packages for compilation

```
#apt-get install build-essential  
#apt-get install flex  
#apt-get install bison
```

1. Now get nfdump
(go to <http://nfdump.sourceforge.net> for latest version)

```
$wget http://internap.dl.sourceforge.net/sourceforge/nfdump/nfdump-snapshot-  
20070808.tar.gz
```

```
$ tar -xzf nfdump-snapshot-20070808.tar.gz  
$ cd nfdump-snapshot-20070808  
$ ./configure  
$ make
```

```
# make install
```

```
--
```

```
Installed tools are :  
nfcapd nfdump nfreplay nfexpire nftest nfgn
```

```
---
```

NFSen

1. Now get nfsen

```
$wget http://superb-west.dl.sourceforge.net/sourceforge/nfsen/nfsen-1.2.4.tar.gz
```

2. Setting up NfSen

```
$tar -xzf nfsen-1.2.4.tar.gz
```

```
$cd nfsen-1.2.4
```

```
$cd etc
```

```
$edit the nfsen-dist.conf
```

```
set the basedir variable
```

```
$BASEDIR = "/var/nfsen";
```

```
set the $USER = "netflow"
```

```
set the $WWWUSER = 'www-data'
```

```
set the $WWWGROUP = 'www-data'
```

```
%sources = (  
  'sanog10nm' => { 'port' => '2005', 'col' => '#0000ff' },  
);
```

```
////'ident' => { 'port' => '<portnum>', 'col' => '<colour>' }
```

```
save and exit
```

3. Create a netflow user on the system.

```
#useradd -d /var/netflow -G www-data -m -s /bin/false netflow
```

4. Initiating nfsen

```
#cp nfsen-dist.conf nfsen.conf
```

```
#cd ..
```

```
# perl install.pl etc/nfsen.conf
```

```
[press 'yes' to the perl prompt ]
```

5. Starting Nfsen

```
#cd /var/nfsen/bin
```

```
#!/nfsen.rc start
```

(You can add the nfsen.rc startup script to /etc/init.d/rc.local or somewhere similar to start it at bootup.)

Watch your browser at <http://localhost/nfsen/nfsen.php>

Thank you.