

NetFlow - PortTracker Exercises

Optional Tasks

Installing the PortTracker plugin (Optional or as reference)

First, connect to your virtual machine and become root:

```
ssh sysadm@pcN.ws.nsrc.org
$ sudo bash
#
```

We have installed the nfdump package, but we still need to get the source package, as it contains extra files required to enable PortTracker as well as requiring the nftrack program to be installed in /usr/local/bin:

```
# cd /usr/local/src
# wget http://noc.ws.nsrc.org/downloads/nfdump-1.6.6.tar.gz
# tar xvzf nfdump-1.6.6.tar.gz
# cd nfdump-1.6.6
# ./configure --prefix /usr --enable-nfprofile --enable-nftrack
# make
# cp bin/nftrack /usr/local/bin
```

* Make a directory for the nftrack data

```
# mkdir -p /var/log/netflow/porttracker
# chown www-data /var/log/netflow/porttracker
```

* Set the nftrack data directory in the PortTracker.pm module:

```
# editor extra/PortTracker.pm
```

Find the line:

```
my $PORTSDBDIR = "/data/ports-db";
```

and change it to:

```
my $PORTSDBDIR = "/var/log/netflow/porttracker";
```

Save and exit from the file.

* Install the plugin into the NFSen distribution

```
# cp extra/PortTracker.pm /var/nfsen/plugins/
```

* Add the plugin definition to the nfsen.conf configuration

```
# cd /var/nfsen/etc
# editor nfsen.conf
```

* Find the plugins section and make it look like this:

```
-----
@plugins = (
  [ 'live', 'PortTracker'],
);
-----
```

Save and exit from the file.

* Initialize the PortTracker database files

```
-----
# sudo -u www-data nftrack -I -d /var/log/netflow/porttracker
-----
```

(This can take a LONG time! - 8 GB worth of files will be created)

* Set the permissions so the netflow user running nfsen, and the www-data user running the Web interface, can access the porttracker data.

```
-----
# chown -R netflow:www-data /var/log/netflow/porttracker
# chmod -R 775 /var/log/netflow/porttracker
-----
```

* Restart NfSen

```
-----
# service nfsen stop
# service nfsen start
-----
```

* Check for success:

```
-----
# grep -i 'porttracker.*success' /var/log/syslog
Oct 12 13:19:35 pc1 nfsen[28005]: Loading plugin 'PortTracker': Success
Oct 12 13:19:35 pc1 nfsen[28005]: Initializing plugin 'PortTracker': Success
-----
```

* Wait some minutes, and go to the nfsen GUI

```
-----
http://pcX.ws.nsrc.org/nfsen/nfsen.php
-----
```

... and select the Plugins tab.

```
*****
* You may get an error that "No plugins installed!" or
* "Error reading stats"...
*
* Don't worry, you need to wait a few minutes before NfSen will begin to
* show the PortTracker plugin and its graphs.
*****
```

At this point you are done. Congratulations!

Troubleshooting

If you get an error "Cannot Read Stats file", check the /var/log/netflow/porttracker \ directory for 2 additional files: portstat24.txt and portstat.txt like this:

```
~~~~~  
# ls -l /var/log/netflow/porttracker/portstat*  
-rw-r--r-- 1 netflow www-data      677 2011-11-17 14:30 /var/log/netflow/\  
porttracker/portstat24.txt  
-rwxrwxr-x 1 netflow www-data      638 2011-11-17 14:30 /var/log/netflow/\  
porttracker/portstat.txt  
~~~~~
```

Make sure that nfsen can write in that directory.