Port Tracker

### **Port Tracker**

## **NetFlow - PortTracker Exercises**

# **Optional Tasks**

### Installing the PortTracker plugin (Optional or as reference)

This exercise assumes you already built nfdump from source with options --enable-nfprofile and --enable-nftrack, with nftrack installed under /usr/local/bin. If not, see exercise2-install-nfdump-nfsen.

• Make a directory for the nftrack data

\$ sudo mkdir /var/ports-db
\$ sudo chown netflow /var/ports-db

• Set the nftrack data directory in the PortTracker.pm module (which is under the nfsen source)

```
$ cd /usr/local/src/nfsen-1.3.8/contrib/PortTracker
$ sudo editor PortTracker.pm
```

Find the line:

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

```
and change it to:
```

my \$PORTSDBDIR = "/var/ports-db";

Save and exit from the file.

• Install the plugin into the NFSen distribution

```
$ sudo cp PortTracker.pm /var/nfsen/plugins/
$ sudo cp PortTracker.php /var/www/html/nfsen/plugins/
```

· Add the plugin definition to the nfsen.conf configuration

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\$ cd /var/nfsen/etc

```
$ sudo 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 netflow nftrack -I -d /var/ports-db

(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.
- \$ sudo chown -R netflow:www-data /var/ports-db
- \$ sudo chmod 775 /var/ports-db
- \$ sudo chmod 664 /var/ports-db/\*
- Restart NfSen
- \$ sudo service nfsen reload
- 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 the the nfsen GUI

http://oob.srv1.campusX.ws.nsrc.org/nfsen/nfsen.php

... and select the Plugins tab.

You may get an error that "No plugins available!": if so, quit and re-start your browser.

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You may get "Error reading stat". You will need to wait a few minutes before NfSen will begin to show the graphs.

At this point you are done. Congratulations!

#### Troubleshooting

If you get "Error reading stat", check the /var/ports-db directory for 2 additional files: portstat24.txt and portstat.txt like this:

```
$ ls -l /var/ports-db/portstat*
-rw-r--r- 1 netflow www-data 512 Jul 17 21:20 /var/ports-
db/portstat24.txt
/var/ports-
db/portstat.txt
```

If either is missing then this will cause the problem. Make sure that nfsen can write in that directory.

You can get additional debugging by setting \$DEBUG = 1 in /var/www/html/nfsen/conf.php, and then looking in /var/tmp/nfsen.log