LibreNMS

Installing LibreNMS- Tuning

Goals

- Make LibreNMS perform better by tuning MySQL and installing rrdcached

Notes

- Commands preceded with "$" imply that you should execute the command as a general user - not as root.
- Commands preceded with "#" imply that you should be working as root.
- Commands with more specific command lines (e.g. "rtrX>" or "mysql>") imply that you are executing commands on remote equipment, or within another program.
- These instructions assume you are the root user. If you are not, prepend `sudo` to the shell commands (the ones that aren't at `mysql>` prompts) or temporarily invoke root privileges with `sudo -s`.

Install rrdcache support for LibreNMS

rrdcache allows LibreNMS to write information about devices to memory instead of directly to disk. LibreNMS is a resource-intensive tool and adding memory cache support to LibreNMS will lessen the load on your server.

To do this do:

```
# apt-get install rrdcached
# editor /etc/default/rrdcached
```

Look for the line with:

```
#OPTS=""
```

and replace it with the following line:

```
OPTS="-w 1800 -z 1800 -f 3600 -s librenms -U librenms -G librenms -j
/var/tmp -l unix:/var/run/rrdcached/rrdcached.sock -t 4 -F -b
/opt/librenms/rrd/"
```

And then add the definition for the user rrdcached will run as:

```
RRDC_USER=librenms
```

Save the file and exit and then:

```
# service rrdcached restart
```

Next edit the file `/opt/librenms/config.php` and change one line:

```
# cd /opt/librenms
# cp config.php.default config.php
# editor config.php
```

Find the line:

```
#$config['rrdcached']    = "unix:/var/run/rrdcached.sock";
```

And change it to:

```
$config['rrdcached']    = "unix:/var/run/rrdcached.sock";
```

Now we can restart the Apache web server to pick up all the various changes we have made.

```
# service apache2 restart
```

Fine tuning MySQL

There is one setting we need to add and one we want to be sure is included for your MySQL database server that will help LibreNMS to run more efficiently. You need to edit the file /etc/mysql/my.cnf:

```
# editor /etc/mysql/my.cnf
```

Under the section of the file titled `#  *  InnoDB` add the following two lines to the file:

```
innodb_file_per_table  = 1
innodb_flush_log_at_trx_commit = 0
```

Now save the file and restart the MySQL server:

```
# service mysql restart
```

If you are interested in the details about this change you can read about it at
http://dev.mysql.com/doc/refman/5.7/en/innodb-multiple-tablespaces.html

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