

# opTrend Installation Guide

## Prerequisites

- opTrend requires [opCharts](#) to be installed.
- The individual performing this installation has a bit of Linux experience.
- Root access is available.
- A working copy of NMIS (starting from an [NMIS VM](#) is a good idea, if you prefer to install it yourself see the [NMIS 8 Installation Guide](#)) on the same server that opTrend is being installed on.
- [Download opTrend](#) from the [Opmantek](#) website.
- An (evaluation) license for opTrend



### Server Unrecoverable Error

There is a known bug in opTrend v1.6.2-2 that results in a Server Unrecoverable Error being displayed in the GUI following Install. Executing the following command as root, then clearing your browser's cache and logging-in should address this problem:

```
touch /usr/local/omk/public/omk/css/opTrend_c_custom_packed.css
```

## Installation Steps

As of February 2016, opCharts is distributed in a self-extracting download format that simplifies the installation process quite a bit. More information on running the installer can be found [HERE: The Opmantek Installer](#)

Transfer the opTrend installer file onto the server in question, either by direct download from the Opmantek website, or from your desktop with `scp` or `sftp` or a similar file transfer tool.

- Start the interactive installer and follow its instructions:

```
sudo sh ./opTrend-Linux-x86_64-3.0.7.run
...
+++++
opTrend (3.0.7) Installation script
+++++
...
This installer will install opTrend into /usr/local/omk.
To select a different installation location please rerun the
installer with the -t option.
```

- The installer will interactively guide you through the steps of installing opTrend. Please make sure to read the on-screen prompts carefully.
- When the installer finishes, opTrend is installed into `/usr/local/omk`, and the default configuration files are in `/usr/local/omk/conf`, ready for your initial config adjustments.
- A detailed log of the installation process is saved as `/usr/local/omk/install.log`, and subsequent upgrades or installations of other Opmantek products will add to that logfile.
- For detailed information about the interactive installer please check the [Opmantek Installer page](#).

## Post Installation Steps

1. The opTrend installer will create cron entries to keep the opTrend database up-to-date but an initial "update" is required to prime the database for the current week. Run the following command to do this:

```
/usr/local/omk/bin/optrend.pl act=update
```

2. The wiredTiger storageEngine is suggested for opTrend to improve performance.
3. The opTrend installer will attempt to "cap" the "seds" collection to limit the database size somewhat (asking first). This only happens if the wiredTiger storageEngine setting is set because not all versions of Mongo support collection updates that opTrend requires. The "seds\_ev" and "ev\_billboard" collections are not capped. Capping can be done post-install by running `optrend.pl act=setup-db`
4. History can be created if your NMIS installation has the data, to do this run the updates for the weeks you have. I suggest doing this oldest to newest so that the Billboard information can be calculated correctly:

```
/usr/local/omk/bin/optrend.pl act=update date="4 weeks ago" force_end_of_week=1 force=1
/usr/local/omk/bin/optrend.pl act=update date="3 weeks ago" force_end_of_week=1 force=1
/usr/local/omk/bin/optrend.pl act=update date="2 weeks ago" force_end_of_week=1 force=1
/usr/local/omk/bin/optrend.pl act=update date="1 week ago" force_end_of_week=1 force=1
```

## Post Installation Upgrade Steps

1. New datasets have been introduced that the GUI will not show unless the config is updated, update opCommon.nmis with this setting:

```
'optrend_topn_sections' => [ {"Node Health" => [{ 'cpuLoad' =>'cpu' }, { 'MemoryUtil' =>'memory' }, {
'tcpCurrEstab' => 'tcp'},{'hrSystemProcesses' => 'processes'} ]}, {'Interface Trend' => [{ 'ifInUtil'
=>'interface' }, { 'ifOutUtil' =>'interface' },{ 'ifInErrors' =>'packets' },{ 'ifOutErrors' =>'packets'
},{ 'ifInDiscards' =>'packets' },{ 'ifOutDiscards' =>'packets' }1]}],
```

2. You may also want to set the control settings to: 'optrend\_exceptions\_to\_make\_condition' => 3,