

opTrend 1.6.2 Upgrade Guide

Prerequisites

- 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.
- An (evaluation) license for opTrend

NOTE: opTrend is currently in alpha.

Upgrade Steps

- [Download opTrend](#) from the [Opmantek](#) website.
Copy the opTrend tarball to the server in question, using `scp` or `sftp` or similar. Make a record of where you put the tarball (likely `root`'s home directory).
- Become root and unpack the tarball:

```
# become root
sudo sh
# if the tarball was saved in a different location, adjust the following command
cd /tmp
./opTrend-Linux-x86_64-1.6.2.run
```

- Start the interactive installer and follow its instructions
- 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. Stop all optrend cron jobs by commenting them out

```
vi /etc/cron.d/optrend
####
# opTrend "collect" and "update"
*/5 * * * * root sleep 65; /usr/local/omk/bin/optrend.pl act=collect
#0 0 * * 0   root /usr/local/omk/bin/optrend.pl act=update
```

2. If the seds collection is capped it will need to be "uncapped" which is not a simple task. Note, that if it has been capped for a while (and running WiredTiger) it will not have been working so your server will not have been working and the history is useless. Note: the history can be recreated, 3 weeks worth is no problem.

```
# first get into the mongo shell
mongo -u opUserRW -p op42flow42 optrend

// in the shell check if capped:
db.seds.stats().capped
true
```

- a. If you can handle losing the data take that path, it is possible to bring back old data, to drop the database the command is `db.dropDatabase()`, use this command very carefully, verify what you are dropping with the command `db.getCollectionNames()`, the result should be like below.

OR use

```
db.seds.drop()
```

```
db.ev_billboard.drop()
```

```
db.seds_ev.drop()
```

```
> db.getCollectionNames()
[ "ev_billboard", "seds", "seds_ev" ]
```

- b. If not, use mongodump to dump just the seds collection, then drop the seds collection, then re-import the data to the seds collection which should bring it back un-capped
3. Collections in opTrend are no longer capped, each entry is set to expire after 21 days. This value is configurable, adjust opCommon: 'optrend_seds_expire_after_seconds'
4. Set expire_at value on existing documents, if you have not existing documents skip this step, **be sure to change the date to a date that makes sense for you:**

```
# first get into the mongo shell
mongo -u opUserRW -p op42flow42 optrend

// then run these to commands to update, CHANGE THE DATE IN THEM FIRST!!!
db.getCollection('seds').update(
  { expire_at: {$exists: false}},
  { $set: { expire_at: Date("2017-06-20T01:01:01")}},
  { multi: true }
);
db.getCollection('seds_ev').update(
  { expire_at: {$exists: false}},
  { $set: { expire_at: Date("2017-06-20T01:01:01")}},
  { multi: true }
);
```

5. opTrend documents for the current week need to be replaced with the newer format, to do this force an update which will replace them:

```
/usr/local/omk/bin/optrend.pl act=update force=1
```

6. If you have dropped/removed old data you can re-create it by running these commands:

```
/usr/local/omk/bin/optrend.pl act=update date="now - 3 week" force_end_of_week=1 force=1
/usr/local/omk/bin/optrend.pl act=billboards date="now - 3 week" force_end_of_week=1 force=1
/usr/local/omk/bin/optrend.pl act=update date="now - 2 week" force_end_of_week=1 force=1
/usr/local/omk/bin/optrend.pl act=billboards date="now - 2 week" force_end_of_week=1 force=1
/usr/local/omk/bin/optrend.pl act=update date="now - 1 week" force_end_of_week=1 force=1
/usr/local/omk/bin/optrend.pl act=billboards date="now - 1 week" force_end_of_week=1 force=1
```

7. Enable all optrend cron jobs by removing comments added in the first step:

```
vi /etc/cron.d/optrend
####
# opTrend "collect" and "update"
*/5 * * * * root sleep 65; /usr/local/omk/bin/optrend.pl act=collect
0 0 * * 0    root /usr/local/omk/bin/optrend.pl act=update
```