

Nagios XI - Crashed Database Tables

Article Number: 24 | Rating: 5/5 from 2 votes | Last Updated: Tue, Dec 18, 2018 at 5:13 PM

Crashed Database Tables

If you experience high load on your Nagios XI server and the MySQL process (mysqld) appears to be consuming large amounts of CPU, it may be a symptom of one or more crashed crashed database tables or any other errors, you can check the `mysqld.log`:

```
tail /var/log/mysqld.log
```

You may see entries similar to this one:

```
150110 9:05:01 [ERROR] /usr/libexec/mysqld: Table './nagios/nagios_logentries' is marked as crashed and last (automatic?) repair failed
```

Possible Causes

Database corruption is usually caused by power outages, running out of disk space or improper shutting down the Nagios XI server. Nagios is constantly reading from and writing to the process (i.e. with "kill -9" or "killall mysqld") will lead to crashed tables.

Many time users would right-click on the Nagios XI VM in VMWare Workstation/ESXi/Vsphere and select "Power Off". This is wrong - it is like pulling off the power cord. The correct way would be to issue the following command in the command line:

```
shutdown -h now
```

If the Nagios XI machine has insufficient disk space then you may see errors like this when the repair database script is run:

```
/usr/local/nagiosxi/scripts/repairmysql.sh: line 59: 11735 Segmentation fault (core dumped) $cmd $t --sort_buffer_size=256M
Timeout error occurred trying to start MySQL Daemon.
Starting mysqld: [FAILED]
```

Possible Solutions

You can repair the nagios and nagiosql databases by running the following commands in the command line as the root user:

```
/usr/local/nagiosxi/scripts/repairmysql.sh nagios
/usr/local/nagiosxi/scripts/repairmysql.sh nagiosql
/usr/local/nagiosxi/scripts/repairmysql.sh nagiosxi
```

Alternatively, if you are running Nagios XI 2014 onwards, you can use:

```
cd /usr/local/nagiosxi/scripts/
./repair_databases.sh
```

which will actually repair both databases (nagios and nagiosql) (and nagiosxi in XI 5.x).

If you receive an error, similar to this one:

```
SQL: DELETE FROM nagios_logentries WHERE logentry_time < FROM_UNIXTIME(1293570334)
SQL: SQL Error [ndoutils] :</b> Table './nagios/nagios_logentries' is marked as crashed and last (automatic?) repair failed CLEANING nd
```

You may need to run a force repair on the tables using commands below:

RHEL 6 | CentOS 6 | Oracle Linux 6

```
service mysqld stop
cd /var/lib/mysql/nagios
myisamchk -r -f nagios_<corrupted_table>
service mysqld start
rm -f /usr/local/nagiosxi/var/dbmaint.lock
php /usr/local/nagiosxi/cron/dbmaint.php
```

RHEL 7 | CentOS 7 | Oracle Linux 7 | Debian 9

```
systemctl stop mariadb.service
cd /var/lib/mysql/nagios
myisamchk -r -f nagios_<corrupted_table>
systemctl start mariadb.service
rm -f /usr/local/nagiosxi/var/dbmaint.lock
php /usr/local/nagiosxi/cron/dbmaint.php
```

Ubuntu 14

```
service mysql stop
cd /var/lib/mysql/nagios
myisamchk -r -f nagios_<corrupted_table>
service mysql start
```

```
rm -f /usr/local/nagiosxi/var/dbmaint.lock
php /usr/local/nagiosxi/cron/dbmaint.php
```

Debian 8 | Ubuntu 16/18

```
systemctl stop mysql.service
cd /var/lib/mysql/nagios
myisamchk -r -f nagios_<corrupted_table>
systemctl start mysql.service
rm -f /usr/local/nagiosxi/var/dbmaint.lock
php /usr/local/nagiosxi/cron/dbmaint.php
```

In certain instances, it may be necessary to truncate (empty) one or more tables. The following commands provide examples of how to truncate both the `nagios_logentries` and `nagios_notifications` MySQL database:

```
mysql -u ndoutils -pn@gweb nagios -e 'TRUNCATE TABLE nagios_logentries'
mysql -u ndoutils -pn@gweb nagios -e 'TRUNCATE TABLE nagios_notifications'
```

Important: Running these commands will clear all entries from the affected tables. After you truncate tables, you should repeat the repair process outlined above.

Further information: [Repairing The Nagios XI Database](#)

If you have run out of disk space on your Nagios XI server, the following KB article can provide solutions to resolving this issue:

[Running Out Of Disk Space On The Nagios XI VM](#)

Once you've resolved the disk space issue you should run the repair database script again.

Final Thoughts

For any support related questions please visit the [Nagios Support Forums](#) at:

<http://support.nagios.com/forum/>

Posted by: **Imiltchev** - Tue, Jan 27, 2015 at 12:57 PM. This article has been viewed 11446 times.

Online URL: <https://support.nagios.com/kb/article/nagios-xi-crashed-database-tables-24.html>