

How to Repair Nagios XI 2024 Databases

Purpose

This document describes how to repair the databases in Nagios XI.

Additional Documents

Please read the following document about [Nagios XI Database Optimization](#) if you are a Nagios administrator.

Problem Symptoms

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 tables. The steps outlined below allow you to repair the MySQL database tables used by Nagios XI.

Important Information

Historically MySQL has been the database used by Nagios XI, however in **RHEL/CentOS 7.x** onwards MariaDB is used instead of MySQL. MariaDB is simply a fork of the MySQL database, the commands used are the same however some of the output differs slightly.

Separate to this, Nagios XI versions before 5.x used a PostgreSQL database for storing the Nagios XI preferences. In Nagios XI 5.x this was moved over to the MySQL database.

The following applies:

- Fresh installations of Nagios XI will no longer use PostgreSQL
- Upgrading a previous version of Nagios XI will continue to use the PostgreSQL database

This is highlighted where necessary in the steps below. If you are unsure, execute the following command on your Nagios XI server:

```
awk '/"nagiosxi" => array\(\/{getline;print}'  
/usr/local/nagiosxi/html/config.inc.php
```

Which should output one of the following:

```
"dbtype" => 'pgsql',  
           or  
"dbtype" => 'mysql',
```

How to Repair Nagios XI 2024 Databases

Database Backups

Before attempting to repair database tables, you should ensure that you have recent backups of the database in case of catastrophic failure in the recovery process. Nagios XI includes a MySQL backup script that places database backups in the `/store/backups/mysql/` directory of the Nagios XI server. Verify that this directory contains recent and valid backups before continuing with the repair process.

Here is the documentation that explains in detail the steps [for backup and restore in Nagios XI](#).

Repairing MySQL Tables

Establish a terminal session to your Nagios XI server as the root user. Execute the following command:

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

This script which will automatically repair all databases (nagios, nagiosql) (nagiosxi in XI 5.x +). Once the script has completed, please review all the output generated for any errors. For any errors, please refer to the troubleshooting section in this document.

Troubleshooting

If you have an error, like 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 failedCLEANING ndoutils TABLE 'notifications'...
```

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

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

If you receive an error, like this one:

```
Error : Incorrect file format 'nagios_systemcommands' error : Corrupt
```

How to Repair Nagios XI 2024 Databases

You will need to execute the following command to fix the table:

```
service mysqld start
echo 'repair table nagios_systemcommands use_frm;' | mysql -t -u root -
pnagiosxi nagios
service mysqld restart
```

Then check the log file for errors:

MySQL

```
tail -n 20 /var/log/mysqld.log
```

MariaDB

```
tail -n 20 /var/log/mariadb/mariadb.log
```

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 logentries and notifications tables in the nagios MySQL database:

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

After you truncate tables, you should repeat the repair process outlines in the previous section. If you receive this error:

```
myisamchk: error: 'nagios_commenthistory.MYI' is not a MyISAM-table
```

This means that the MySQL tables are in the wrong format, and they need to be converted. Before you convert them, do a full backup of the server in case there are any issues. To convert all InnoDB Tables to MyISAM (all databases) follow these steps:

Execute the following command to enter the mysql command interface (nagiosxi is the default root MySQL/MariaDB password):

```
mysql -u root -p'nagiosxi'
```

You are now logged into the mysql command interface, this is indicated by the `mysql>` OR `MariaDB [(none)]>` prompt.

How to Repair Nagios XI 2024 Databases

Run the following command to convert all of the tables (this is one long command that is wrapped over two lines):

```
SELECT CONCAT('ALTER TABLE ', TABLE_SCHEMA, '.', TABLE_NAME, '  
engine=MyISAM;')  
FROM information_schema.TABLES WHERE ENGINE = 'InnoDB';
```

Now you can exit the mysql command interface:

```
Quit
```

After this, you can run the following to repair the MYSQL databases.

```
mysqlcheck -f -r -u root -pnagiosxi --all-databases
```

Once the command has completed, please review all the output generated for any errors.

If you have run out of disk space on your Nagios XI server, the following KB article can provide solutions to resolving this issue of being [out of disk space](#).

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

Finishing Up

This completes the documentation on repair the databases in Nagios XI. If you have additional questions or other support-related questions, please visit us at our Nagios Support Forum, Nagios Knowledge Base, or Nagios Library:

[Visit Nagios Support Forum](#)

[Visit Nagios Knowledge Base](#)

[Visit Nagios Library](#)