

# Nagios XI DB - Maintenance Architecture

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## DB Maintenance Overview

This DB Maintenance cron job of Nagios XI is responsible for optimizing and truncating database tables based on the user defined settings located in Admin -> Performance Settings -> Database Tab.

## Architecture Components And Execution Flow

The general flow of execution of the Event Manager subsystem works as follows:

1. A user defines the amount of time they would like to keep certain types of data in **Admin -> Performance Settings -> Database tab**
2. The settings are saved in the `xi_options` table of the nagiosxi mysql database (mariadb on cent/rhel 7 and postgresql on XI versions less than 5)
3. The `dbmaint.php` script runs as a background process and grabs the settings from `xi_options`. The `dbmaint.php` script is located at `/usr/local/nagiosxi/cron/dbmaint.php` and runs under cron every 5 minutes. The cron job is defined in `/etc/cron.d/nagiosxi`
4. The `dbmaint.php` script truncates entries from tables that are older than the time specified in
5. The `dbmaint.php` script updates the last run time in the `xi_meta` table of the nagiosxi database

## Troubleshooting Problems

Some potential problems with the Event Manager subsystem, as well as troubleshooting information are listed below:

**Problem: Admin -> System Status displays a red X next to Database Maintenance**

**Potential Causes:**

- There may be a problem with the cron job. Check the cron file `/etc/cron.d/nagiosxi` to ensure the job is not commented out.
- Check the `/usr/local/nagiosxi/var/dbmaint.log` log file for errors
- The nagios user account is expired causing the cron to not run

## Final Thoughts

For any support related questions please visit the [Nagios Support Forums](http://support.nagios.com/forum/) at:

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

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