Purpose

This document describes how to install the prerequisites for the MSSQL wizards and plugins.

Target Audience

This document is intended for use by Nagios XI Administrators who need to monitor MSSQL databases. It should be noted that these steps are automatically performed by Nagios XI installations and upgrades.

Installing Prerequisites

There are three plugins total that you will need to accommodate for if you're running the entire suite of MSSQL wizards. However, these three plugins both require the same prerequisites, which makes installation very easy.

The plugins that the MSSQL wizards runs require the Python package pymssql, which has a prerequisite that we need to take care of before installing it. That prerequisite is freetds v0.91. I should note here that the package will work fine with earlier version of freetds, however it will not be able to connect to MSSQL instances. If you do not need the ability to connect to MSSQL instances, then an earlier version of freetds will do. For purposes of this document, I will be assuming freetds v0.91 or later will be installed.

Installing freetds

If you need to install freetds, execute the following command:

Cent/RHEL/Oracle

```
yum install -y freetds
```

Ubuntu/Debian

```
apt  install  freetds-bin
```

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Common Package Conflicts

Yum may complain about dependencies. There are two major conflicts that are addressed here:

perl-DBD-Sybase – This was included on Nagios XI for implementation later. It currently is not an essential part of the default Nagios XI install. However, if you have installed other plugins that pertain to Sybase or MSSQL, it would be wise to investigate the necessity of this package for your own needs before removing it.

nagiosxi-deps – This was included to ensure certain versions of programs are installed for the proper functionality of the Nagios XI. If you are running pre-2011 v1.10 you may need to remove this repo in order to move forward. Removing this repo does not remove any functionality from Nagios XI.

Installing PHP drivers

On Centos/RHEL/Oracle, execute the following command:

```
yum install php-pdo php-odbc
```

Installing pymssql

Once you have the proper version of freetds installed, you can move on to the pymssql portion. To see if it is already installed execute the following command (the 'pip' command may be 'pip3' depending on your version of python):

```
pip list | grep pymssql
```

The output if it is installed will be:

```
pymssql (2.1.1)
```

If it is not installed, execute the following command to install it:

```
pip install pymssql
```

Check Functionality

MSSQL Database wizard version 2.0.0 and Higher:

To test the plugin(s), navigate to your /usr/local/nagios/libexec directory and test running the plugin. The plugin has a -h flag if you don't know which flags do what:

```
/usr/local/nagios/libexec/check_mssql_server.php -h
```

Example:

```
/usr/local/nagios/libexec/check_mssql_server.php -H x.x.x.x —checktype
'database' -U 'username' -P 'password' --instancename 'master' —perftype
default -p 1433 --mode test --warning 10 --critical 20
```

Finishing Up

This completes the documentation on setting up the MSSQL Plugin Prerequisites for Nagios XI. If you have additional questions or other support related questions, please visit us at our Nagios Support Forums or Knowledgebase:

Visit Nagios Support Forum   Visit Nagios Knowledge Base   Visit Nagios Library