

How To Install and Configure The Oracle Plugins With XI 2024

Purpose

This document describes how to install Oracle plugins in Nagios XI 2024 and how to configure your environment to utilize the Oracle plugins to monitor Oracle databases with Nagios XI.

Target Audience

This document is intended for use by Nagios XI Administrators who wish to monitor Oracle databases to ensure their system is functioning properly.

Acquire the Required RPM Files and Install Script

Establish a terminal session to your Nagios XI server as the root user. Download the install script to the /tmp folder of your Nagios XI server using the following commands:

```
cd /tmp
wget https://assets.nagios.com/downloads/general/scripts/oracleinstall.sh
```

First thing we will need to determine is what architecture is running on your Nagios XI Linux server. If you already know it, you can skip this step but be sure to double-check as you will need to know it later in the document. At your Linux command prompt type the following command:

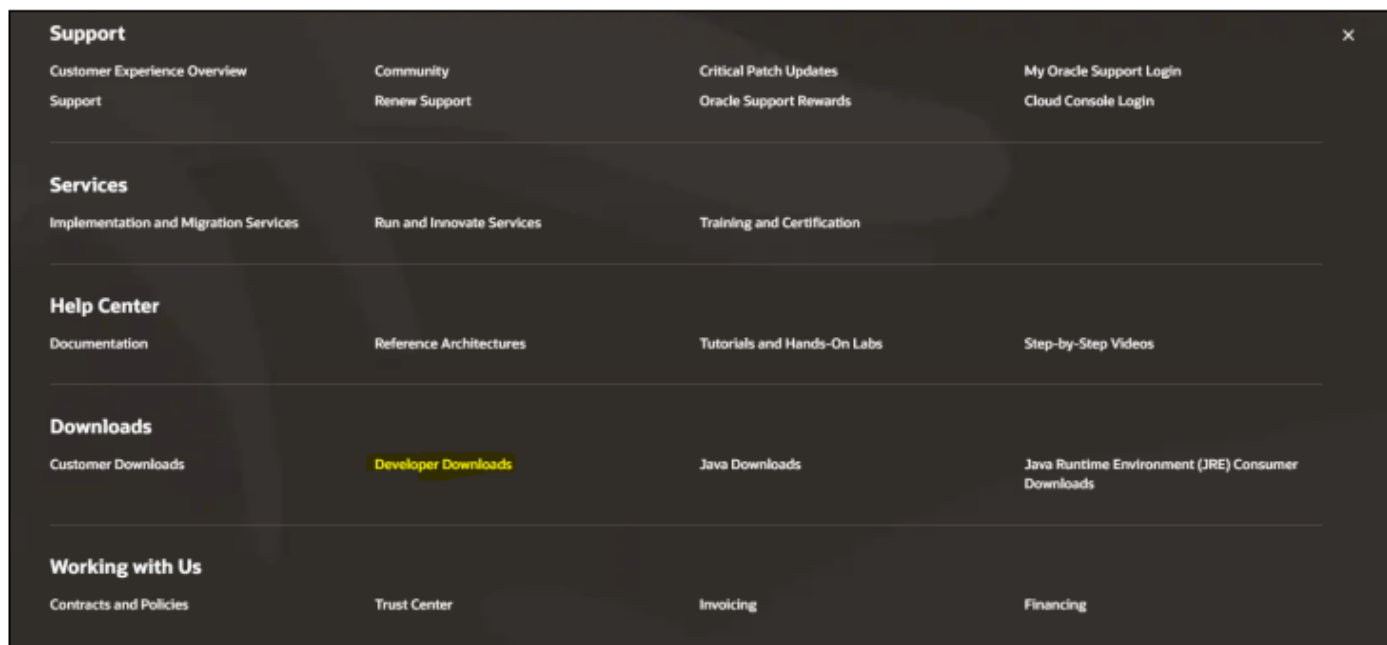
```
uname -i
```

This will return the architecture of your system. It will either be:

```
i?86
or
x86_64
```

The ? in `i?86` represent any numbers returned. However, for our purposes it boils down to one thing, your system is 32 bit. If it's equal to the bottom then your architecture is 64 bit. With this information we can now download the proper RPMs.

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Due to legal reasons, Nagios cannot provide direct download links to these RPMs so you will have to go to Oracle's website and download them. Navigate to <https://www.oracle.com/database/technologies/instant-client/downloads.html>.

Instant Client for Linux

-  [Instant Client for Linux x86-64](#)
-  [Instant Client for Linux x86](#)
-  [Instant Client for Linux ARM \(aarch64\)](#)
-  [Instant Client for z/Linux \(64-bit\)](#)

Now based on the results from the previous `uname -i` command, select the proper install for your particular Nagios XI installation, either 32 bit or 64 bit.

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Version 23.6.0.0.0 (Requires glibc 2.28)

Base - one of these packages is required

Name	Download	Description
Basic Package (ZIP)	instantclient-basic-linux.x64-23.6.0.24.10.zip	All files required to run OCI, OCCI, and JDBC-OCI applications (127,839,797 bytes) (cksum - 3808498637)
Basic Package (OL9 RPM)	oracle-instantclient-basic-23.6.0.24.10-1.el9.x86_64.rpm	All files required to run OCI, OCCI, and JDBC-OCI applications (78,985,356 bytes) (cksum - 1365454703)
Basic Package (OL8 RPM)	oracle-instantclient-basic-23.6.0.24.10-1.el8.x86_64.rpm	All files required to run OCI, OCCI, and JDBC-OCI applications (82,282,000 bytes) (cksum - 2887356679)
Basic Light Package (ZIP)	instantclient-basiclite-linux.x64-23.6.0.24.10.zip	Smaller version of the Basic package, with only English error messages and Unicode, ASCII, and Western European character set support (69,934,160 bytes) (cksum - 1714635883)
Basic Light Package (OL9 RPM)	oracle-instantclient-basiclite-23.6.0.24.10-1.el9.x86_64.rpm	Smaller version of the Basic package, with only English error messages and Unicode, ASCII, and Western European character set support (41,000,003 bytes) (cksum - 2988033528)
Basic Light Package (OL8 RPM)	oracle-instantclient-basiclite-23.6.0.24.10-1.el8.x86_64.rpm	Smaller version of the Basic package, with only English error messages and Unicode, ASCII, and Western European character set support (41,815,952 bytes) (cksum - 2490683084)

Once you've selected your architecture, the next (and final screen) will come up.

Download all three of the .rpm links indicated to the right for the Oracle Client version you decide to use. Also place these .rpm files in the same directory as you downloaded the install script, in this document we used the /tmp directory.

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Run The Install Script

Note: CentOS/RHEL 8/0 systems require the following command to be run before the Oracle Client install begins:

```
dnf install libnsl -y
```

Once you've moved the script and all the .rpm files to the same directory, it's time to execute the script:

```
chmod +x oracleinstall.sh  
./oracleinstall.sh
```

This script will take care of most of the dirty work. It will install some dependencies, then grab the `check_oracle_health` tarball from the internet, configure and install it, then install the Perl dependencies through CPAN. At the very end, will dump out some variables that you will need to apply to your particular case. In the example presented in this document, they look like this (the version number will vary depending on the oracle version you downloaded):

```
ORACLE_HOME=/usr/lib/oracle/18.5/client64  
LD_LIBRARY_PATH=/usr/lib/oracle/18.5/client64/lib
```

Copy the variables presented on the screen, as you will need them later in the document.

Note: The Oracle Wizards have been tested with Oracle clients up to version 18.5. We cannot guarantee that they will work with any newer version of the Oracle client.

Configure Oracle Environment

The Oracle-related environment variables will be read from

```
/usr/local/nagiosxi/etc/configwizards/oracle/oracle.
```

If the wizards are installed correctly, the file's contents should look similar to this:

```
LD_LIBRARY_PATH=/usr/lib/oracle/18.5/client64/lib  
ORACLE_HOME=/usr/lib/oracle/18.5/client64
```

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Note: The '18.5' version number represented above needs to match the version number within the variables saved after successful installation. Also, the 'client' directory may need to be changed depending on your system type. For example, 32-bit systems would need to be changed to 'client'. See your saved variables from above for exact verbiage.

```
LD_LIBRARY_PATH=/usr/lib/oracle/18.5/client/lib
ORACLE_HOME=/usr/lib/oracle/18.5/client
```

Change the paths in `/usr/local/nagiosxi/etc/configwizards/oracle/oracle` to the paths shown by `oracleinstall.sh` in the previous section if needed. You can use a text editor such as "vi".

Common Problems

Nagios reports CRITICAL with the message:

```
install_driver(Oracle) failed: Can't load '/usr/lib/perl5/site_perl/5.8.8/i386-
linuxthread-multi/auto/DBD/Oracle/Oracle.so' for module DBD::Oracle:
libocci.so.11.1: cannot open shared object file: No such file or directory
at /usr/lib/perl5/5.8.8/i386- linux-thread-multi/DynaLoader.pm line 230.
```

This problem is due to environment variable not being set properly. This Oracle plugin relies on these environment variables being set. Make you have probably set the variables as indicated above. Also verify that the proper path is being given. Usual paths are:

```
x86: /usr/lib/oracle//client
x86_64: /usr/lib64/oracle//client64
```

See the section about editing the environment variables of the services. Make sure the environment variables are set to proper value. These can be verified by actually going to them on the command line.

Nagios gives this error:

```
CRITICAL - cannot connect to 192.168.5.55:1521. install_driver(Oracle)
failed: Can't locate DBD/Oracle.pm in @INC (@INC contains:
/usr/local/nagios/libexec /usr/lib/perl5/site_perl/5.8.8/i386-linux-thread-
multi /usr/lib/perl5/site_perl/5.8.8 /usr/lib/perl
```

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This is due to the Perl module not being installed properly. To remedy this problem, execute the following from the command line:

```
export ORACLE_HOME=<path to your Oracle which was given by the script>
export LD_LIBRARY_PATH=$ORACLE_HOME/lib
cpan -i DBD::Oracle
```

If you were not able to install the DBD:Oracle perl module by following the above instructions, you could try:

```
cd /tmp
wget http://www.cpan.org/modules/by-module/DBD/DBD-Oracle-1.74.tar.gz
tar zxvf DBD-Oracle-1.74.tar.gz
cd DBD-Oracle-1.74
perl Makefile.PL -l
make && make test
make install
```

Nagios gives 'OID generation failed' error:

This problem is due to the hostname of the server being changed and not existing in the hosts file. You will need to edit the /etc/hosts file to add the hostname of the server.

```
vi /etc/hosts
```

Finishing Up

This completes the documentation on how to install and configure the Oracle client & plugins in 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](#)