## Purpose

This document is meant to show a step-by-step guide for offloading the MySQL services from the central Nagios XI server to an external, remote server.

If you are offloading Nagios XI 2024 MySQL Database, see <u>How To Offload Nagios XI MySQL</u> <u>Databases</u>

**NOTE**: Nagios Enterprises provides this KB article to customers in good faith. Our license and support packages allow for database offloading. Many of our customers opt for this approach to better manage CPU and transactions. However, it is important to note that when off-loading a database, you may experience network delays, queueing, and other issues that may affect how the software functions.

Database offloading was a preferred solution for customers with large deployments, due to previous limitations of hardware memory, CPU, and I/O. As hardware evolution and improvements have been made to improve and resolve these limitations. If hardware memory, CPU and I/O are issues in your environment, offloading your database may still be a good option.

## **Important Information**

Historically MySQL has been the database used by Nagios XI, however in more recent operating systems (OS) MariaDB is used instead of MySQL. MariaDB is simply a fork of the MySQL database, however some of the commands differ slightly. This document will highlight the different commands for each scenario.

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 converted to MySQL. 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
- These instructions are only for MySQL/MariaDB databases. PostgreSQL databases must be converted to MySQL/MariaDB to use this document. Please see <u>XI 5.10.0+ Postgress to</u> <u>MySql Conversion</u>, for conversion instructions.

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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
```

The output should be one of the following:

"dbtype" => 'pgsql',

or

"dbtype" => 'mysql',

The following guide creates three separate use accounts in MySQL / MariaDB. **Do not try and use one account** as this will **break** Nagios XI. Follow the instructions to create all the separate accounts.

Nagios XI requires the STRICT\_TRANS\_TABLES to be disabled. Please see the <u>Nagios XI</u>-<u>STRICT\_TRANS\_TABLES</u> article for more information.

It is also worth considering implementing jumbo frames for the network traffic between the Nagios XI server and the offloaded database server. Please refer to the <u>Jumbo Frames</u> section in this documentation for more information.



## Summary

This document walks you through setting up a remote MySQL server for Nagios XI. Here is a list of the required steps:

- Create Remote DB Server
  - Setup/Install MySQL server
  - Create Databases
  - o Adjust firewall rules to allow the MySQL traffic
  - Test Databases
  - o Rollover Databases \*Requires Downtime
- Adjust settings on Nagios Server
  - Edit ndo2db.cfg (XI 5.6.x and lower) OR ndo.cfg (XI 5.7.x and higher) to make NDOUtils use an external database
  - o Edit config.inc.php to make Nagios XI use an external database
  - Edit settings.php for NagiosQL to use an external database
  - Start Nagios XI Services
  - Modify the backup script
  - Stop and disable MySQL / MariaDB
  - Remove OLD MySQL / MariaDB database files

## **Editing Files**

In many steps of this documentation, you will be required to edit files. This documentation will use the vi editor. When using the vi editor:

- To make changes press i on the keyboard first to enter insert mode
- Press Esc to exit insert mode
- When you have finished, save the changes in vi by typing :wq and press Enter





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## **Create Remote DB Server**

### Setup/Install MySQL Server

**NOTE**: The remote server must be using the same type of database as the original database on the XI server.

On your XI server, determine the type/version of your database:

mysql -V

Examples of output:

```
mysql Ver 15.1 Distrib 10.3.28-MariaDB, for Linux (x86_64) using readline 5.1 mysql Ver 8.0.26 for Linux on x86_64 (Source distribution)
```

In the first example the type is MariaDB and the version is 15.1.

In the second example the type is mysql and the version is 8.0.26

Note this type/version as you will need to use the same db type when installing the mysql database on your remote db server.

The following steps will define the MySQL *root* user account with the password mYr00tP@ssw0rd as an example, only. The real XI root password can be found at the bottom of the /usr/local/nagiosxi/etc/xi-sys.cfg or /usr/local/nagiosxi/var/xi-sys.cfg files, listed as **mysqlpass**. For example,

mysqlpass='nagiosxi'

### RHEL 8.x + | CentOS Stream 9.x + | Oracle Linux 9:

```
yum update
yum -y install mysql-server
```

Start the database service, install root password and enable the database service:

```
systemctl start mysqld.service
/usr/bin/mysqladmin -u root password 'mYr00tP@ssw0rd'
systemctl enable mysqld.service
systemctl status mysqld.service
```

This should show mysql running, please proceed to the Edit Config File section of this document.

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### Ubuntu

Follow these steps if your offloaded server is running Ubuntu. On your remote server install MySQL with these steps:

```
apt update
apt install -y mysql-server
apt upgrade
```

## Debian

Follow these steps if your offloaded server is running Debian. On your remote server install MySQL with these steps:

```
apt update
apt install -y default-mysql-server
apt upgrade
```

## Debian | Ubuntu

Set the password for the root user.

/usr/bin/mysql

This starts the mysql command interface, indicated by the mysql> OR MariaDB [(none0]> prompt.

### Ubuntu 20

```
ALTER USER 'root'@'localhost' IDENTIFIED WITH caching_sha2_password BY 'mYr00tP@ssw0rd';
flush privileges;
exit;
```

### Debian | Ubuntu 22+

```
ALTER USER 'root'@'localhost' IDENTIFIED BY 'mYr00tP@ssw0rd;
flush privileges;
exit;
```

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Check to make sure MySQL is running:

### Ubuntu

systemctl status mysql.service

### Debian

```
systemctl status mysqld.service
```

This should show MySQL running, please proceed to the Edit Config File section of this document.

## **Edit Config File**

Once you've confirmed MySQL / MariaDB is installed and running you need to edit the config file by executing the following command:

### RHEL | CentOS | Oracle Linux

vi /etc/my.cnf.d/mysql-server.cnf

### Ubuntu

vi /etc/mysql/mysql.conf.d/mysqld.cnf

### Debian

vi /etc/mysql/mariadb.conf.d/50-server.cnf

Add the following two lines under the [mysqld] section, or edit them if they already exist (if the [mysqld] section header does not exist you need to add it):

```
[mysqld]
bind-address=<IP address the DB server>
port=3306
```

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## Optional

The following parameters are OPTIONAL however they are implemented as part of a default Nagios XI installation and hence it would be beneficial to also implement on the offloaded DB server.

```
query_cache_size=16M <MariaDB Only>
query_cache_limit=4M <MariaDB Only>
tmp_table_size=64M
max_heap_table_size=64M
key_buffer_size=32M
table_open_cache=32
innodb_file_per_table=1
```

Save the file and restart the service to apply the changes:

### RHEL 8.x + | CentOS Stream 9.x +| Oracle Linux 8.x +| Debian

systemctl restart mysqld.service

Please proceed to the Create Databases section of this document.

### Ubuntu

```
systemctl restart mysql.service
```

Please proceed to the Create Databases section of this document.



## **Create Databases**

You will now create the nagios, nagiosql and nagiosxi databases along with the respective user accounts. You should use your own username and passwords; this entire documented example will be using:

nagios database: •

#### XI 5.6.x and lower

username = nagios password = nagiosP@ssw0rd

#### XI 5.70+

username = ndoutils password = nagiosP@ssw0rd

nagiosql database:

username = nagiosql password = nagiosglP@ssw0rd

nagiosxi database:

username = nagiosxi password = nagiosxiP@ssw0rd

It is very important that you do not try and use one account as this will break Nagios XI. You MUST follow the instructions to create separate accounts.

In the following commands you need to replace <IP\_OF\_NAGIOS\_XI\_SERVER> with the IP Address of your Nagios XI server, for example nagios@'10.26.5.12'. It is very important that the address is enclosed within 'single quotes'.

Execute the following command to enter the mysgl command interface (replace mYr00tP@ssw0rd with your password):

```
mysgl -u root -p'mYr00tP@ssw0rd'
```

You are now logged into the mysgl command interface, this is indicated by the mysgl> OR MariaDB [(none0]> prompt.

Execute the following commands to create the nagios and nagiosql databases.

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#### XI 5.6.x and lower

CREATE DATABASE nagios;

```
CREATE USER nagios@'<IP_OF_NAGIOS_XI_SERVER>' IDENTIFIED BY 'nagiosP@ssw0rd';
GRANT ALL ON nagios.* TO ndoutils@'<IP_OF_NAGIOS_XI_SERVER>';
GRANT PROCESS ON *.* TO ndoutils@'<IP_OF_NAGIOS_XI_SERVER>';
```

#### XI 5.7.0+

CREATE DATABASE nagios;

CREATE USER ndoutils@'<IP\_OF\_NAGIOS\_XI\_SERVER>' IDENTIFIED BY 'nagiosP@ssw0rd'; GRANT ALL ON nagios.\* TO ndoutils@'<IP\_OF\_NAGIOS\_XI\_SERVER>'; GRANT PROCESS ON \*.\* TO ndoutils@'<IP\_OF\_NAGIOS\_XI\_SERVER>';

#### For all 5.x versions of XI

create database nagiosql;

CREATE USER nagiosql@'<IP\_OF\_NAGIOS\_XI\_SERVER>' IDENTIFIED BY 'nagiosqlP@ssw0rd'; GRANT ALL ON nagiosql.\* TO nagiosql@'<IP\_OF\_NAGIOS\_XI\_SERVER>'; GRANT PROCESS ON \*.\* TO nagiosql@'<IP\_OF\_NAGIOS\_XI\_SERVER>';

The next commands **only** apply if this instance of Nagios XI was deployed from 5.x onwards (refer to the <u>Important Information</u> section at the beginning of this document).

create database nagiosxi;

CREATE USER nagiosxi@'<IP\_OF\_NAGIOS\_XI\_SERVER>' IDENTIFIED BY 'nagiosxiP@ssw0rd'; GRANT ALL ON nagiosxi.\* TO nagiosxi@'<IP\_OF\_NAGIOS\_XI\_SERVER>'; GRANT PROCESS ON \*.\* TO nagiosxi@'<IP\_OF\_NAGIOS\_XI\_SERVER>';

#### The last command grants the root user full access to all the databases (used by the

/root/scripts/automysqlbackup on the Nagios XI server) [replace mYr00tP@ssw0rd with your password]:

CREATE USER root@'<IP\_OF\_NAGIOS\_XI\_SERVER>' IDENTIFIED BY 'myR00tP@ssw0rd'; GRANT ALL ON \*.\* TO root@'<IP\_OF\_NAGIOS\_XI\_SERVER>' WITH GRANT OPTION;

#### You can now quit the mysql command interface.

quit;



The databases have been created and you are ready to proceed to the Firewall Rules step.

# Adjust firewall rules to allow the MySQL / MariaDB traffic

Firewall rules need to be added to allow the MySQL / MariaDB traffic. These steps are performed on your remote MySQL / MariaDB server. In the following commands you need to replace <IP\_OF\_NAGIOS\_XI\_SERVER> with the IP Address of your Nagios XI server, for example 10.26.5.12.

## RHEL 8.x +| CentOS Stream 9.x +| Oracle Linux 8.x +

These first two lines need to be typed as one long command.

```
firewall-cmd --zone=public --add-rich-rule="rule family="ipv4" source \
   address="<IP_OF_NAGIOS_XI_SERVER>" port protocol="tcp" port="3306" \
   accept" --permanent
firewall-cmd -reload
```

Please proceed to the Test Databases section of this document.

### Ubuntu

```
ufw allow proto tcp from <IP_OF_NAGIOS_XI_SERVER> to any port 3306 ufw reload
```

Please proceed to the Test Databases section of this document.

### Debian

```
iptables -I INPUT -s <IP_OF_NAGIOS_XI_SERVER> -p tcp --dport 3306 -j ACCEPT
```

Please proceed to the Test Databases section of this document.

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## **Test Databases**

Now you need to test that your Nagios XI server can access these databases. In the following commands you need to replace *<IP\_ADDRESS\_OF\_MYSQL\_OR\_MARIADB\_SERVER>* with the IP Address of your offloaded MySQL / MariaDB server, for example *-h* 10.26.7.11. Make sure you are using your usernames/passwords in these commands.

Execute the following commands from your Nagios XI server to perform the tests:

#### XI 5.6.x and lower

mysql -u nagios -p'nagiosP@ssw0rd' -h <IP\_ADDRESS\_OF\_MYSQL\_OR\_MARIADB\_SERVER> -e STATUS;

#### XI 5.7.0+

mysql -u ndoutils -p'nagiosP@ssw0rd' -h <IP\_ADDRESS\_OF\_MYSQL\_OR\_MARIADB\_SERVER> -e STATUS;

#### ALL

mysql -u nagiosql -p'nagiosqlP@ssw0rd' -h <IP\_ADDRESS\_OF\_MYSQL\_OR\_MARIADB\_SERVER> -e STATUS;

The next command only applies if this instance of Nagios XI was deployed from 5.x onwards (refer to the <u>Important Information</u> section at the beginning of this document).

mysql -u nagiosxi -p'nagiosxiP@ssw0rd' -h <IP\_ADDRESS\_OF\_MYSQL\_OR\_MARIADB\_SERVER> -e STATUS;

If these commands do not output some status text, then you need to go back over the previous steps to ensure you have correctly followed them. An example error message would appear like:

ERROR 2003 (HY000): Can't connect to MySQL server on '10.26.7.11' (113)

If the commands produce valid database status output, you can proceed to the <u>Rollover Databases</u> step.

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## **Rollover Databases**

Now it is time to move the data in the local Nagios XI MySQL/MariaBD databases to the remote MySQL/MariaDB databases. This task will require downtime as you need to stop the nagios and ndo2db services using the following commands on your Nagios XI server:

### RHEL 8.x +| CentOS Stream 9.x +| Oracle Linux 8.x +| Debian | Ubuntu

```
systemctl stop nagios.service
systemctl stop ndo2db.service (Nagios XI 5.6.x and lower only)
```

The following commands to copy the databases need to be executed on the Nagios XI server with the following considerations:

- The -u and -p for the mysqldump command (left side of the pipe | symbol) are for the databases on the Nagios XI server. The commands are using the MySQL/MariabDB root user account with the default password nagiosxi.
- The -u and -p for the mysql command (right side of the pipe | symbol) are associated with the remote MySQL/MariaDB server. Make sure you are using your usernames/passwords in these commands.
- Log into the Nagios XI server as a linux root user.

These commands can take a while to run if the Nagios XI server has been in production for some time as the databases may have grown quite large.

For simplicity, the following commands will use ip\_mysql as the IP address of the MySQL/MariaDB server, please change this to the correct IP address.

#### XI 5.6.x and lower

mysqldump -u root -p'nagiosxi' nagios | mysql -u nagios -p'nagiosP@ssw0rd' -h ip\_mysql nagios

#### XI 5.7.0+

mysqldump -u root -p'nagiosxi' nagios | mysql -u ndoutils -p'nagiosP@ssw0rd' -h ip\_mysql nagios

#### ALL

mysqldump -u root -p'nagiosxi' nagiosql | mysql -u nagiosql -p'nagiosqlP@ssw0rd' -h ip\_mysql nagiosql

The next command only applies if this instance of Nagios XI was deployed from 5.x onwards (refer to the <u>Important Information</u> section at the beginning of this document).

mysqldump -u root -p'nagiosxi' nagiosxi | mysql -u nagiosxi -p'nagiosxiP@ssw0rd' -h ip\_mysql nagiosxi



It is worth noting that if you have a corrupt database, you will experience errors when running these commands. Refer to the <u>Troubleshooting Tips</u> section at the end of this documentation if you experience such issues.

If the commands have completed successfully you can move onto the next step.

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## **Adjust Settings on Nagios XI Server**

Now the databases have been copied over, you need to configure Nagios XI to use the databases on the remote server. Several configuration files are required to be updated.

### Edit ndo2db.cfg or ndo.cfg

The /usr/local/nagios/etc/ndo2db.cfg file needs to be updated for Nagios XI 5.6.x and lower. The /usr/local/nagios/etc/ndo.cfg file needs to be updated for Nagios XI 5.7.x and higher. For safety reasons it is a good idea to make a backup first:

cp /usr/local/nagios/etc/ndo2db.cfg /usr/local/nagios/etc/ndo2db.bak

#### OR

cp /usr/local/nagios/etc/ndo.cfg /usr/local/nagios/etc/ndo.bak

#### Execute the following command to edit the file:

```
vi /usr/local/nagios/etc/ndo2db.cfg
```

#### OR

```
vi /usr/local/nagios/etc/ndo.cfg
```

#### Find the following:

db\_host=localhost

Change this to the IP address of your remote MySQL/MariaDB server, for example:

```
db_host=10.26.7.11
```

#### Find the following:

```
db_user=ndoutils
db_pass=n@gweb
```

Change this to the username and password of the nagios database on your remote MySQL/MariaDB server, for example:

```
db_user=nagios
db_pass=nagiosP@ssw0rd
```

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Save the file once making the changes.

## Edit config.inc.php

The /usr/local/nagiosxi/html/config.inc.php file needs to be updated, for safety reasons it is a good idea to make a backup first:

```
cd /usr/local/nagiosxi/html/
cp config.inc.php config.inc.php.bak
```

Execute the following command to edit the file:

```
vi config.inc.php
```

This file contains credentials for the databases that Nagios XI uses. Find the line:

"ndoutils" => array(

This entry is for the **nagios** database. Under this entry, update the dbserver, user and pwd values:

```
"dbserver" => '<IP_OF_MYSQL_OR_MARIADB_SERVER>',
"user" => 'nagios',
"pwd" => 'nagiosP@ssw0rd',
```

Find the line:

```
"nagiosql" => array(
```

This entry is for the **nagiosql** database. Under this entry, update the dbserver, user and pwd values:

```
"dbserver" => '<IP_OF_MYSQL_OR_MARIADB_SERVER>',
"user" => 'nagiosql',
"pwd" => 'nagiosqlP@ssw0rd',
```

The next section only applies if this instance of Nagios XI was deployed from 5.x onwards (refer to the <u>Important Information</u> section at the beginning of this document).

Find the line:

```
"nagiosxi" => array(
```



This entry is for the nagiosxi database. Under this entry, update the dbserver, user and pwd values:

```
"dbserver" => '<IP_OF_MYSQL_OR_MARIADB_SERVER>',
"user" => 'nagiosxi',
"pwd" => 'nagiosxiP@ssw0rd',
```

Save the file once making the changes.

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## Edit settings.php

This section only applies to versions of Nagios XI before 5.5.0. If you are running 5.5.0 or newer, please proceed to the <u>Start Nagios XI Services</u> section.

The /var/www/html/nagiosql/config/settings.php file needs to be updated, for safety reasons it is a good idea to make a backup first:

```
cd /var/www/html/nagiosql/config/ cp settings.php settings.php.bak
```

Execute the following command to edit the file:

vi settings.php

This file contains credentials for the database that the Core Config Manager uses. Find the lines that say:

```
server = localhost
port = 3306
database = nagiosql
username = nagiosql
password = n@gweb
```

Change them to:

server	= <ip_of_mysql_or_mariadb_server></ip_of_mysql_or_mariadb_server>
port	= 3306
database	= nagiosql
username	= nagiosql
password	= nagiosql

Save the file once making the changes.



## **Start Nagios XI Services**

After making all of those changes your Nagios XI server is ready to go back online. Execute the following commands:

### RHEL 8.x +| CentOS Stream 9.x +| Oracle Linux 8.x +| Debian | Ubuntu

```
systemctl start ndo2db.service (Nagios XI 5.6.x and lower only) systemctl start nagios.service
```

At this point you should go into the Nagios XI web interface and check that it is all working as expected. The main items to check are:

- You can login
- Core Configuration Manager works (objects appear)
- Force an immediate check on a host/service and make sure the Last Check/Next Check fields update

If you have made it this far then you have successfully migrated your databases to an offline server and Nagios XI is now back online.

The following steps need to be completed to ensure additional functionality (like backups) continues to work.



## Modify the backup script

The */root/scripts/automysqlbackup* script on your Nagios XI server needs updating. Edit the file by executing this command:

vi /root/scripts/automysqlbackup

Change line #34 from this:

DBHOST=localhost

To the IP Address of the offloaded MySQL / MariaDB server:

DBHOST=<IP\_OF\_MYSQL\_OR MARIADB\_SERVER>

Change line #31 from this:

PASSWORD=nagiosxi

#### To the root password set above:

PASSWORD=mYr00tP@ssw0rd

Save the file once making the changes.

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## Stop and disable MySQL / MariaDB

Now it is time to verify the migration went smoothly and to prove its actually using the remote database. If you have other applications on the Nagios XI server that depend on MySQL / MariaDB then you should not perform the next step.

### RHEL 8.x +| CentOS Stream 9.x +| Oracle Linux 8.x +| Debian

systemctl stop mysqld.service

### Ubuntu

systemctl stop mysql.service

Now refresh the Nagios XI interface, if the screen goes blank, go back and review the previous steps.

If the web interface is working and it is receiving fresh data, the offload was successful! If everything is working OK after stopping MySQL / MariaDB then you can disable it from starting on boot as it is no longer required.

### RHEL 8.x +| CentOS Stream 9.x +| Oracle Linux 8.x +| Debian

systemctl disable mariadb.service

#### OR

systemctl disable mysqld.service

#### Ubuntu

systemctl disable mysql.service

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## **Remove OLD MySQL / MariaDB database files**

The following step is completely optional. The old database files that are no longer used on your Nagios XI server can be deleted to recover disk space. This might be something you will do after a couple of days "just in case".

```
cd /var/lib/mysql/
rm -rf nagios nagiosql nagiosxi
```

This completes the steps required to offload MySQL to a remote server. The remaining documentation talks about <u>Jumbo Frames</u> and some <u>Troubleshooting Tips</u>.

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## **Jumbo Frames**

Offloading MySQL to an external server means that all the database traffic must pass through the network.

It is important to make sure that the network connectivity is optimally configured between the Nagios XI server and the MySQL server. This is where jumbo frames can make a difference.

Jumbo Frames allow each network packet to be 9,000 bytes in size, compared to the default of 1,500 bytes in size. However, using jumbo frames requires all devices that the network traffic passes through need to support it. This can add complexities which are outside the scope of this document, the benefits of jumbo frames are worth mentioning in this document.

In an ideal scenario, you would add an extra network card (NIC) in both the Nagios XI server and MySQL server with jumbo frames enabled. Those NICs should be connected to a separate network that supports jumbo frames. The switches the NICs are connected to need to support jumbo frames.

In a virtual environment, if both the Nagios XI server and the MySQL server are on the same hypervisor (e.g. ESXi) then you need to create an additional virtual switch (with jumbo frames enabled) to connect the two VM's. If the VM's are running on separate hypervisors then you will need to make sure each hypervisor has a virtual switch (with jumbo frames enabled) and the physical switches that connect the virtual switches support jumbo frames.

The best way to confirm that jumbo frames are correctly configured is to perform a ping test that forces jumbo sized packets to be sent. The command to use is:

ping -M do -s 8972 xxx.xxx.xxx.xxx

Where xxx.xxx.xxx is the address of the other server you are testing against. If it is NOT correctly configured, then you will see messages like the following:

ping: local error: Message too long, mtu=1500

When implementing jumbo frames with dedicated NICs, in all the steps in this document you will need to make sure that you use the IP addresses of these NICs. For example:

bind-address=<IP address of this computer, the computer with MySQL or MariaDB>

That would need to be the IP address of the NIC with jumbo frames enabled.

GRANT ALL ON nagios.\* TO nagios@'<IP\_OF\_NAGIOS\_XI\_SERVER>' IDENTIFIED BY 'nagios';

That would need to be the IP address of the NIC on the Nagios XI server with jumbo frames enabled.

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## **Troubleshooting Tips**

**Issue -** Now everything is blank, none of my tables show up.

This means that Nagios XI cannot access the *nagiosql* database. Make sure the:

- Credentials given in the config.inc.php under the "nagiosql" => array (are correct
- Firewall on the MySQL / MariaDB server is allowing traffic through
- nagiosql database has been created on the remote MySQL / MariaDB server
- Check the file /usr/local/nagiosxi/etc/components/ccm\_config.inc.php to ensure the nagiosql settings are correctly defined, these should automatically be updated.

Issue - The tables show up, but they do not hold any information

Blank tables mean that Nagios XI can access the *nagiosql* database but cannot access the nagios database.

• Make sure that the credentials in *config.inc.php* under "ndoutils" => array( are correct.

**Issue -** No new information is being displayed and my /usr/local/nagios/var/nagios.log has "Unable to connect to data sink..." in the latest log.

This is a problem with ndomod.cfg and/or ndo2db.cfg. The log is written if Nagios cannot connect to the nagios database on the remote server. Make sure the:

- Socket information matches for ndomod.cfg and ndo2db.cfg
- Make sure the ndo2db daemon is running by executing:
- ps aux | grep ndo2db
- Revisit the ndomod.cfg and ndo2db.cfg edit sections in this document to check all the credential information is correct
- If the problem persists, try to access the MySQL / MariaDB server from the Nagios XI server by following the Test Database steps again

Issue - When I migrate databases, I get this:

mysqldump: Got error: 144: Table './DATABASENAME/TABLE' is marked as crashed and last (automatic?) repair failed when using LOCK TABLES

This is due to a MySQL table being corrupt and you must fix it. The following documentation explains how to repair the MySQL / MariaDB databases: <u>https://support.nagios.com/kb/article.php?id=24</u>

Issue - How to use a port other than the default 3306?

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In all the steps you follow it should be clear when you need to change the port from the default. The only section where it is not clear is in the config.inc.php file, you need to define it as:

```
"dbserver" => '<IP_OF_MYSQL_OR_MARIADB_SERVER>:<PORT>',
```

Example: "dbserver" => '192.168.5.88:55555',

## **Finishing Up**

This completes the documentation on Nagios XI databases to an external MySQL. 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

www.nagios.com



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