

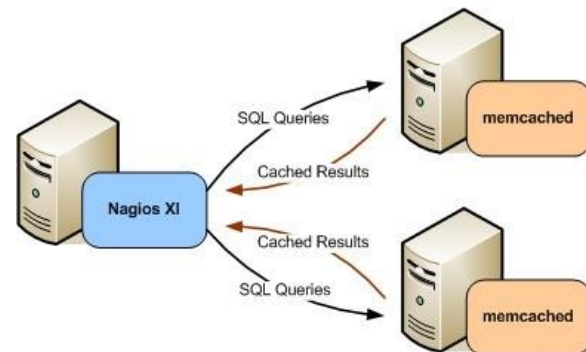
# How To Enable Memcached Support In Nagios XI

## Purpose

This document describes How To Enable Memcached Support In Nagios XI.

## Memcached Host Setup

You can setup one or more memcached servers (hosts) for use by Nagios XI. These instructions walk you through setting up a memcached instance on your Nagios XI server. The following steps require you to establish a terminal server to your Nagios XI server as a root user.



## Install Memcached

Install the required packages with the following command:

**RHEL 8+ | CentOS 9+ | Oracle Linux 8+**

```
yum -y install memcached php-pecl-memcached
```

**Debian 11/12 | Ubuntu 20+**

```
apt-get install -y memcached php-memcached
```

## Firewall Rules

Each memcached host must have its firewall configured to allow traffic on *TCP port 11211* to allow Nagios XI to contact the memcached server. Execute the following commands to create the firewall rules.

**RHEL 8+ | CentOS 9+ | Oracle Linux 8+**

```
firewall-cmd --zone=public --add-port=11211/tcp  
firewall-cmd --zone=public --add-port=11211/tcp --permanent
```

**Ubuntu**

```
ufw allow proto tcp from any to any port 11211  
ufw reload
```

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## Debian

```
iptables -I INPUT -p tcp --dport 11211 -j ACCEPT
```

## Configure Memcached

This ensures the memcached server will start when the server boots and is also started by issuing the following commands:

### RHEL 8+ | CentOS 9+ | Oracle Linux 8+ | Debian | Ubuntu

```
systemctl enable memcached  
systemctl start memcached
```

## Enabling Memcached Support In PHP

An extension line (*extension=memcache.so*) needs to be added to your *php.ini* file. The location of the *php.ini* file differs depending on your operating system / version. The following command will determine the location:

```
find /etc -name php.ini
```

If there are multiple results, then the one in the *apache* directory is the one that needs changing.

Add the extension line with the following command (the following example is using */etc/php.ini*):

```
echo "extension=memcached.so" >> /etc/php.ini
```

You now need to restart the Apache service:

### RHEL 7+ | CentOS 7+ | Oracle Linux 7+

```
systemctl restart httpd.service
```

### Debian | Ubuntu

```
systemctl restart apache2.service
```

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## Enabling Memcached Support In Nagios XI

Edit your Nagios XI configuration file to enable memcached by executing the following command:

```
vi /usr/local/nagiosxi/html/config.inc.php
```

When using the vi editor, to make changes press **i** on the keyboard first to enter insert mode. Press **Esc** to exit insert mode.

Find the following line:

```
$cfg['memcached_enable'] = false;
```

Change it to:

```
$cfg['memcached_enable'] = true;
```

When you have finished, save the changes in vi by typing:

```
:wq
```

and press **Enter**.

Alternatively, these commands will make the change for you:

```
cd /usr/local/nagiosxi/html/  
sed -i "s/memcached_enable'] = false/memcached_enable'] = true/g"  
config.inc.php
```

Nagios XI will now start using memcached to cache SQL query results.

## Viewing Memcached Statistics

You can view the cache statistics of your running memcached server by downloading and installing the useful *memcached-tool* using the following commands:

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```
cd /tmp
wget
https://raw.githubusercontent.com/memcached/memcached/master/scripts/memcached-tool
chmod +x memcached-tool
./memcached-tool 127.0.0.1 display
./memcached-tool 127.0.0.1 stats
```

## Multiple Memcache Servers

Nagios XI supports using multiple memcache servers. In the config file `/usr/local/nagiosxi/html/config.inc.php` the following line dictates this:

```
$cfg['memcached_hosts']=array('127.0.0.1');
```

This is an array of addresses of the memcached servers you want Nagios XI to use. The address is surrounded by 'single quotes' and a comma, is used to separate each entry. For example:

```
$cfg['memcached_hosts']=array('192.168.1.3', '192.168.1.4', '192.168.1.5');
```

## More Information

More information on memcached can be found at: <https://memcached.org/>

Additional documents on improving the performance of Nagios XI can be found in the following documentation:

[Maximizing Performance In Nagios XI](#)

## Finishing Up

This completes the documentation on How To Enable Memcached Support 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](#)

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