

The Industry Standard in IT Infrastructure Monitoring

Purpose

This document describes how install Nagios Core and Nagios Plugins from source on CentOS and Ubuntu servers.

Target Audience

This document is intended for use by anyone wishing to install Nagios Core from source.

Prerequisites

For **Ubuntu** users, run all steps from this document with root permissions. The following command can be run to switch to a root shell.

sudo -i

Package requirements may vary depending on what type of installation platform Nagios is being installed on.

For **RHEL/CentOS** users:

yum install -y wget httpd php gcc glibc glibc-common gd gd-devel make net-snmp unzip

For Ubuntu (15.10 and below) users:

sudo apt-get install wget build-essential apache2 php5 php5-gd libgd-dev unzip

For Ubuntu (16.04 and above) users:

sudo apt-get install wget build-essential apache2 php apache2-mod-php7.0 php-gd libgd-dev unzip

Download Nagios Core and Nagios Plugins Tarballs

For all systems, run the following commands in your terminal:

cd /t.mp

wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.2.0.tar.gz wget http://nagios-plugins.org/download/nagios-plugins-2.1.2.tar.gz

This will download Nagios Core, and its required plugins.

Adding the Nagios User and Group

Next add the appropriate user and groups for the Nagios process to run:

useradd nagios groupadd nagcmd usermod -a -G nagcmd nagios

For **RHEL/CentOS** users:

usermod -a -G nagios, nagcmd apache

For **Ubuntu** users:

usermod -a -G nagios, nagcmd www-data



Nagios – Installing Nagios Core From Source



Nagios Core Installation

Extract the package contents:

```
tar zxvf nagios-4.2.0.tar.gz
tar zxvf nagios-plugins-2.1.2.tar.gz
```

Change to the new Nagios directory and install the packages:

```
cd nagios-4.2.0
```

For RHEL/CentOS users:

./configure --with-command-group=nagcmd

For **Ubuntu** users:

```
./configure --with-command-group=nagcmd --with-mail=/usr/bin/sendmail --with-httpd-conf=/etc/apache2/
```

All systems:

```
make all
make install
make install-init
make install-config
make install-commandmode
make install-webconf

cp -R contrib/eventhandlers/ /usr/local/nagios/libexec/
chown -R nagios:nagios /usr/local/nagios/libexec/eventhandlers
/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
```

For **Ubuntu** users:

sudo a2ensite nagios
sudo a2enmod rewrite cgi

For RHEL/CentOS users:

/etc/init.d/nagios start
/etc/init.d/httpd start

For **Ubuntu** users using **systemd**:

sudo cp /etc/init.d/skeleton /etc/init.d/nagios
sudo vi /etc/init.d/nagios (and add the following lines)

```
DESC="Nagios"

NAME=nagios

DAEMON=/usr/local/nagios/bin/$NAME

DAEMON_ARGS="-d /usr/local/nagios/etc/nagios.cfg"

PIDFILE=/usr/local/nagios/var/$NAME.lock
```

```
systemctl restart apache2
systemctl start nagios
```

Create a Default User for Web Access.

Add a default user for Web Interface Access:

htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin



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Nagios – Installing Nagios Core From Source



Nagios Plugin Installation

```
cd /tmp/nagios-plugins-2.1.2
./configure --with-nagios-user=nagios --with-nagios-group=nagios
make
make install
```

Nagios Service Setup

The following commands will register the Nagios daemon to be run upon system startup.

```
chkconfig --add nagios
chkconfig --level 35 nagios on
chkconfig --add httpd
chkconfig --level 35 httpd on
```

For Ubuntu:

sudo update-rc.d nagios defaults

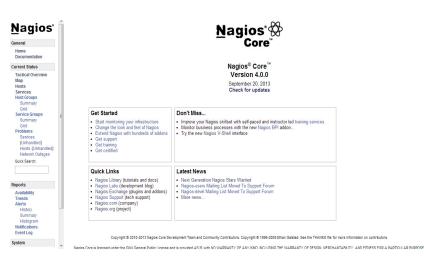
Nagios Web Interface

After correctly following the procedures you should now be able to access your Nagios Core installation from a web browser.

Simply use the following:

http://<your.nagios.server.ip>/nagios

And log in with the credentials you chose when adding the nagiosadmin user to the htpasswd.users file.



Finishing Thoughts

If you have further questions please visit our support forum at:

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

Nagios Core Documentation:

http://library.nagios.com/library/products/nagioscore/manuals/



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