

Nagios Installation Guide

Installation Notes

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Installation Notes:

Nagios:

Nagios requires the gcc compiler and LAMP (Apache, PHP, MySQL) for the Nagios web interface and Sendmail to send alerts from the server. To install all those packages, run this command

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

To run Nagios, you have to create a new user for Nagios. We will name the user **"nagios"** and additionally create a group named **"nagcmd"**. We add the new user to the group:

```
useradd nagios
groupadd nagcmd
usermod -a -G nagcmd nagios
usermod -a -G nagios,nagcmd www-data
```

Download and extract Nagios Core:

```
cd ~
wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.2.0.tar.gz
tar -xzf nagios*.tar.gz
cd nagios-4.2.0
```

Before building Nagios, you will have to configure it with the user and the group you have created earlier:

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

Installing Nagios:

```
make all
sudo make install
sudo make install-commandmode
sudo make install-init
sudo make install-config
/usr/bin/install -c -m 644 sample-config/httpd.conf /etc/apache2/sites-available/nagios.conf
```

copy event handler directory to the nagios directory:

```
cp -R contrib/eventhandlers/ /usr/local/nagios/libexec/
chown -R nagios:nagios /usr/local/nagios/libexec/eventhandlers
```

Download and extract the Nagios plugins:

```
cd ~
wget https://nagios-plugins.org/download/nagios-plugins-2.1.2.tar.gz
tar -xzf nagios-plugins*.tar.gz
cd nagios-plugin-2.1.2/
```

Install the Nagios plugin's with the commands below:

```
./configure --with-nagios-user=nagios --with-nagios-group=nagios --with-openssl
make
make install
```

Configure Nagios and Nagios contact.

Edit default nagios configuration with vim:

```
vim /usr/local/nagios/etc/nagios.cfg
```

uncomment line **51** for the host monitor configuration.

```
cfg_dir=/usr/local/nagios/etc/servers
```

Save and exit.

Add a new folder named *servers*:

```
mkdir -p /usr/local/nagios/etc/servers
```

The Nagios contact can be configured in the *contact.cfg* file. To open it use:

```
vim /usr/local/nagios/etc/objects/contacts.cfg
```

Then replace the default email with your own email.

Configuring Apache

```
sudo a2enmod rewrite  
sudo a2enmod cgi
```

You can use the *htpasswd* command to configure a user *nagiosadmin* for the nagios web interface and type password:

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

Enable the Nagios Virtual host:

```
sudo ln -s /etc/apache2/sites-available/nagios.conf /etc/apache2/sites-enabled/
```

Start the Nagios and Apache

```
service apache2 restart  
service nagios start
```

When Nagios start you may see the following error:

```
Starting nagios (via systemctl): nagios.serviceFailed
```

And this is how to fix it:

Create this nagios.service file:

```
# vi /etc/systemd/system/nagios.service

[Unit]
Description=Nagios
BindTo=network.target

[Install]
WantedBy=multi-user.target

[Service]
User=nagios
Group=nagios
Type=simple
ExecStart=/usr/local/nagios/bin/nagios /usr/local/nagios/etc/nagios.cfg
```

Save and exit:

```
:wq
```

```
# systemctl enable /etc/systemd/system/nagios.service
# systemctl start nagios
# systemctl status nagios
```

```
cd /etc/init.d/
cp /etc/init.d/skeleton /etc/init.d/Nagios
```

Edit the Nagios file:

```
vim /etc/init.d/Nagios
```

and add the following code:

```
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
```

Make it executable and start Nagios:

Testing the Nagios Server:

Please open your browser and access the Nagios server ip, in my case: **<http://192.168.1.9/nagios>**.

Nagios Login with apache httpasswd.