

Nagios Installation Guide

Installation Notes

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Installation Notes:

Nagios:

Nagios requires the updated package index, Apache and PHP for the Nagios web interface. To install all those packages, run this command.

```
sudo apt-get update
sudo apt-get install wget build-essential unzip openssl libssl-dev
sudo apt-get install apache2 php libapache2-mod-php php-gd libgd-dev
```

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:

```
sudo adduser nagios_user
sudo groupadd nagcmd
sudo usermod -a -G nagcmd nagios_user
sudo usermod -a -G nagcmd www-data
```

You need to install Nagios binaries. Use following commands to install binary files.

```
cd /opt

sudo wget
https://github.com/NagiosEnterprises/nagioscore/releases/download/nagios-
4.4.3/nagios-4.4.3.tar.gz
tar xzf nagios-4.4.3.tar.gz
```

Extract the file and then install Nagios along with some additional requirements using the **make** command:

```
cd nagios-4.4.3
sudo ./configure --with-command-group=nagcmd
sudo make all
sudo make install
sudo make install-init
sudo make install-daemoninit
sudo make install-config
sudo make install-commandmode
sudo make install-exfoliation
```

Copy **event handlers** scripts to the libexec directory which will provide multiple event triggers for the Nagios Web Interface:

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

You need to setup apache with an authentication gateway.

```
sudo nano /etc/apache2/conf-available/nagios.conf
```

Copy the below content and paste it into the file.

```
ScriptAlias /nagios/cgi-bin "/usr/local/nagios/sbin"
```

```
<Directory "/usr/local/nagios/sbin">
    Options ExecCGI
    AllowOverride None
    Order allow,deny
    Allow from all
    AuthName "Restricted Area"
    AuthType Basic
    AuthUserFile /usr/local/nagios/etc/htpasswd.users
    Require valid-user
</Directory>
```

```
Alias /nagios "/usr/local/nagios/share"
```

```
<Directory "/usr/local/nagios/share">
    Options None
    AllowOverride None
    Order allow,deny
    Allow from all
    AuthName "Restricted Area"
    AuthType Basic
    AuthUserFile /usr/local/nagios/etc/htpasswd.users
    Require valid-user
</Directory>
```

Save and close the file after copying.

Now you need to create password for nagiosadmin

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

Enable the Apache configuration and restart it so the changes take effect:

```
sudo a2enconf nagios
sudo a2enmod cgi rewrite
sudo service apache2 restart
```

Install Nagios plugin in the opt directory by using following commands:

```
cd /opt
wget http://www.nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz
tar xzf nagios-plugins-2.2.1.tar.gz
cd nagios-plugins-2.2.1
sudo ./configure --with-nagios-user=nagios --with-nagios-group=nagios --with-openssl
$ sudo make
$ sudo make install
```

Verify the installation by typing following command.

```
sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
```

You will get something like below in the output:

```
Nagios Core 4.4.3
Copyright (c) 2009-present Nagios Core Development Team and Community
Contributors
Copyright (c) 1999-2009 Ethan Galstad
Last Modified: 2019-01-15
License: GPL

Website: https://www.nagios.org
Reading configuration data...
  Read main config file okay...
  Read object config files okay...

Running pre-flight check on configuration data...

Checking objects...
  Checked 8 services.
  Checked 1 hosts.
  Checked 1 host groups.
  Checked 0 service groups.
  Checked 1 contacts.
  Checked 1 contact groups.
  Checked 24 commands.
  Checked 5 time periods.
  Checked 0 host escalations.
  Checked 0 service escalations.
Checking for circular paths...
  Checked 1 hosts
  Checked 0 service dependencies
  Checked 0 host dependencies
  Checked 5 timeperiods
Checking global event handlers...
Checking obsessive compulsive processor commands...
Checking misc settings...

Total Warnings: 0
Total Errors: 0

Things look okay - No serious problems were detected during the pre-flight
check
```

Now you can start Nagios.

```
service nagios start
sudo systemctl enable nagios
```

Now you can access Nagios on the browser:

<http://10.0.2.15/nagios/>

Once you will open the Nagios in the browser, you will have to enter username and password.
For this virtual machine we have used:

Username: nagiosadmin
Password: Edureka

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