

Nagios Installation on Centos/Redhat 7 Nagios Core



<u>Nagios:</u> - Nagios is an open source Monitoring Tools used to continuously keep track of On-Perm server, Desktop Machine, Cloud Machine, Android and Apple Phone and more. Nagios is configured to Monitor Disk Usage, Services, CPU load and more.

Installation of Nagios in Centos 7 Pure CLI: -

1. Packages required to Install/Download Nagios

yum install-y httpd httpd-tools php gcc glibc glibc-common gd gd-devel make net snmp [centadmin@studserver ~]\$ sudo yum install -y httpd httpd-tools php gcc glibc glibc-common gd gd-devel make net-snmp_

2. Create a User and Group for Nagios

groupadd nagcmd

```
[centadmin@studserver ~]$ sudo groupadd nagcmd
[sudo] password for centadmin:
```

useradd - G nagcmd Nagios && passwd nagios

```
[centadmin@studserver ~]$ sudo useradd -G nagcmd nagios
[centadmin@studserver ~]$ sudo passwd nagios
Changing password for user nagios.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
```

3. Create a folder named Nagios mkdir /nagios

[centadmin@studserver ~]\$ sudo mkdir /nagios

4. Navigate to Nagios directory and download the Nagios package

2019-10-25 19:23:52 (674 KB/s) - 'nagios-4.4.5.tar.gz' saved [11304463/11304463]

5. After completion of Nagios Packages now download the Plugin

```
wget https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz
```

6. Extract the Nagios Package and Plugins

```
tar -xvf Nagios-4.4.5.tar.gz && tar -xvf Nagios-plugins-2.2.1.tar.gz
```

```
[centadmin@studserver nagios]$ sudo tar -xvf nagios-4.4.5.tar.gz_
[centadmin@studserver nagios]$ sudo tar -xvf nagios-plugins-2.2.1.tar.gz
```

7. To Install and Configure we need to be inside the directory

```
cd /Nagios-4.4.5 && ls
```

```
entadmin@studserver
centadmin@studserver nagios]$ cd nagios-4.4
centadmin@studserver nagios-4.4.5]$ ls
clocal_m4 config.sub functions
aclocal.m4
                                                                LEGAL
                                                                                                                                worker
                                                                                   nagios.spec
                                                                                  nagios.sysconfig
pkginfo.in
README.md
autoconf-macros configure
                                            html
                                                                lib
                                                                                                                                xdata
                     configure.ac
                                            include
                                                                LICENSE
                                            indent-all.sh
                                                                Makefile.in
                                                                                                           THANKS
Thangelog
                      CONTRIBUTING.md
                                            indent.sh
INSTALLING
                                                                make-tarball
                                                                                  sample-config
                      docs
                                                                mkpackage
                                                                                                           update-version
                      doxy.conf
config.guess
                                             install-sh
                                                                                   subst.in
                                                                                                           UPGRADING
```

8. Run the script with the group ./configure --with-command-group=nagcmd

[centadmin@studserver nagios-4.4.5]\$./configure --with-command-group=nagcmd_

9. After the configuring we need to install all the binaries with **make all** and **make install** command. It will install all the required libraries required for the machine.

```
[centadmin@studserver nagios-4.4.5]$ make install
[centadmin@studserver nagios-4.4.5]$ make all_
```

10. To install and configure Nagios Web Interface

make install-webconf

```
[centadmin@studserver nagios-4.4.5]$ sudo make install-webconf_
```

11. To interface with the web interface we need to create a username and password sudo htpasswd -s -c /usr/local/nagios/etc/htpasswd.users Nagios

```
[centadmin@studserver nagios-4.4.5]$ sudo htpasswd -s -c /usr/local/nagios/etc/htpasswd.users nagiosadmin

New password:

Re-type new password:

Adding password for user nagiosadmin
```

- 12. To be informed about the server health and usage. We must configure email id, but we need to copy the contact configure file and then add/edit the email id in the original contact file cp /usr/local/nagios/etc/objects/contacts.cfg /usr/local/nagios/etc/objects/contacts.cfg.bak [centadmin@studserver_nagios-4.4.5]\$ cp /usr/local/nagios/etc/objects/contacts.cfg /usr/local/nagios/etc/objects/contacts/contacts
- 13. Open the Contact file and enter your official mail id nano /usr/local/nagios/etc/object/contact.cfg

14. Install Nagios Plugins without it resources cannot be monitored. To install Plugins goto cd /Nagios-plugins-2.2.1/

./configure --with-nagios-user=nagios --with-nagios-group=nagios

[centadmin@studserver nagios-plugins-2.2.1]\$ sudo ./configure --with-nagios-user=nagios --with-nagios-group=nagios_

15. We must install recommended libraries by using the command **make** and **make install** [centadmin@studserver nagios-plugins-2.2.1]\$ make_

[centadmin@studserver nagios-plugins-2.2.1]\$ make <u>i</u>nstall

16. Verify the Nagios configuration file against the same configuration file /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

```
[centadmin@studserver nagios-plugins-2.2.1]$ sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
Nagios Core 4.4.5
Copyright (c) 2009-present Nagios Core Development Team and Community Contributors
Copyright (c) 1999-2009 Ethan Galstad
Last Modified: 2019-08-20
License: GPL
Website: https://www.nagios.org
Reading configuration data...
Read main config file okay...
Read object config files okay...
Read object config files okay...
Checked 8 services.
Checked 1 hosts.
Checked 1 hosts.
Checked 1 hosts.
Checked 1 contacts.
Checked 1 contacts.
Checked 1 contacts.
Checked 2 commands.
Checked 2 commands.
Checked 3 oservice escalations.
Checked 5 time periods.
Checked 0 host escalations.
Checked 0 service dependencies
Checked 0 service dependencies
Checked 0 host dependencies
Checked 5 timeperiods
Checking obsessive compulsive processor commands...
Checking mics settings...
Total Warnings: 0
Total Errors: 0

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

17. Restart the httpd and nagios services

```
systemctl restart Nagios
systemctl restart httpd
```

```
[centadmin@studserver nagios-plugins-2.2.1]$ systemctl restart httpd_
[centadmin@studserver nagios-plugins-2.2.1]$ systemctl restart nagios_
```

- 18. Logging into Nagios Web Interface http://ipaddress/nagios/
- 19. Enter the username and password created in step 11

Error: -

1. If zip & unzip has not been installed we it will stop the executing process and below error will be displayed

```
checking for unzip... no configure; error: Cannot configure without unzip!
```

<u>Solution:</u> Install the below Package and issue will be resolved yum install -y zip unzip