

**Nagios** is the most popular, open source, powerful monitoring system. It enables organizations to identify and resolve IT infrastructure problems before they affect critical business processes. Nagios has the capability of monitoring application, services, entire IT infrastructure.

This is Part-1 of complete article **How to Setup Nagios Monitoring Server with NagiosQL on CentOS/RHEL 7/6**, In this part, you will find the steps to setup Nagios Monitoring Server on CentOS, Redhat, and Fedora systems.

**Step 1 – Install Required Packages**

We assume that you have fresh installed CentOS, Red Hat or Fedora systems, So our first requirement is to install Apache and PHP first. Use the following commands to complete it.

**Install Packages:**

# yum install httpd php php-cli gcc glibc glibc-common gd gd-devel net-snmp -y

**Start Services:**

# service httpd start

**Step 2 – Setup User Accounts**

Now create a new nagios user account and setup a password to this account

# useradd nagios

# passwd

Now create a groud for nagios setup “nagcmd” and add nagios user to this group. Also add nagios user in apache group.

# groupadd nagcmd

# usermod -a -G nagcmd nagios

# usermod -a -G nagcmd apache

**Step 3 – Install Nagios Core Service**

After installing required dependencies and adding user accounts. Let’s start with Nagios core installation. Download latest Nagios core service from the official site.

# cd /opt/

# wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.3.4.tar.gz

# tar xzf nagios-4.3.4.tar.gz

# cd nagios-4.3.4

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

# make all #/opt/nagios-4.3.4 – compiled

# make install

Link: https://support.nagios.com/kb/article/nagios-core-installing-nagios-core-from-source-96.html#RHEL

# make install-init # Init script installed

# make install-config # \*\*\* Config files installed \*\*\*

# make install-commandmode #Externalcommanddirectory configured

Now use below command to setup apache configuration for Nagios installation.

# make install-webconf # Nagios/Apache conf file installed

**Step 4 – Configure Apache Authentication**

We need to setup apache authentication for user nagiosadmin. Do not change this username. else you would required more changes in configuration.

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

Now restart Apache service to make the new settings take effect.

# service httpd restart

**Step 5 – Install Nagios Plugins**

After installing and configuring Nagios core service, Download latest nagios-plugins source and install using following commands.

# cd /opt

# wget http://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

Now compile and install nagios plugins

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

# make

# make install

**Step 6 – Verify and Start Nagios**

First, verify the Nagios configuration file using the following command.

# /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

If there are not error, lets start the Nagios serivce

# service nagios start

# chkconfig --add nagios

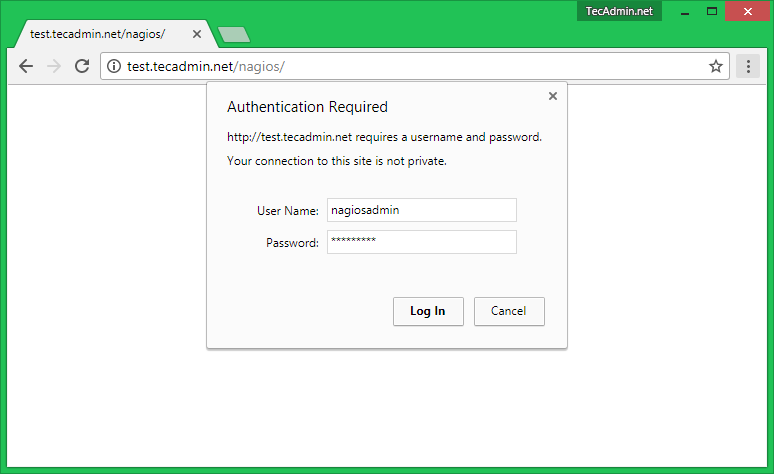
# chkconfig nagios on

**Step 7 – Access Nagios in Web Browser**

Nagios creates its own apache configuration file **/etc/httpd/conf.d/nagios.conf**. There are no need to make any changes to it. Simply open below url in browser.  
**[change domain name with your domain or ip]**

Ex : http://10.9.50.93/nagios/

**Prompting for Apache Authentication Password –**

[](https://tecadmin.net/wp-content/uploads/2015/01/install-nagios-1.png)

**Nagios After login screen –**

[](https://tecadmin.net/wp-content/uploads/2015/01/install-nagios-2.png)

Now you have successfully installed and configured Nagios core service in your system.

Nxt

Goto cd /usr/local/nagios/etc

Nxt

Nogisos,cfg (un comment)

Nxt

Mkdir –p /usr/local/nagios/etc/servers

Nxt

Enko instance slave lo chyali below di

NRPE

client (nagios)

# How do I enable the EPEL repository for my Amazon EC2 instance running Centos, RHEL, or Amazon Linux?

sudo yum install –y <https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm> (RHEL)

yum install epel-release -y

aws:

sudo amazon-linux-extras install epel

yum install nrpe nagios-plugins-all openssl  -y

vi /etc/nagios/nrpe.cfg

allowed\_hosts=127.0.0.1,masterip (ur 1st mstr servr)

:wq!

systemctl start nrpe

chkconfig nrpe on

go to master 1st instace –nxt cd …/objects/----ls—cd ../servers/---vi client.cfg-

--dantlo avi eptali----node ani udnhe adi epttli---thn save nxt-- systemctl restart nagios

Cheak on ngios page

Nxt go ot slave server change

Hostname nagioosadmin

Nxt---------- systemctl restart nagios

Nxt

Go to master server –nxt

Ping and em kavali nati cd …/objects/ poye copy thn e vi client file paste chysuvalo

Nad host name degar slave host name evali ok thn save

Nxt ---------systemctl restart nagios

Chenk web page

nagios Sever – master

==========

vim /usr/local/nagios/etc/nagios.cfg # to uncomment server directory and save it

#cfg\_dir=/usr/local/nagios/etc/servers

Ex: cfg\_dir=/usr/local/nagios/etc/servers

Create server directory

mkdir  /usr/local/nagios/etc/servers

cd /usr/local/nagios/etc/servers

vim client.cfg

define host{

use               linux-server

host\_name         hostname

alias             Node1

address           ip

max\_check\_attempts 5

check\_period       24x7

notification\_interval 30

notification\_period 24x7

}

:wq!

systemctl restart nagios

check in we browser

vi /usr/local/nagios/etc/servers/client.cfg

define service {

        use

        host\_name               generic-service

        service\_description     SSH

        check\_command           check\_ssh

        notifications\_enabled   0

        }

:wq!

systemctl restart nagios

ex:

vi client.cfg

define host{

use linux-server

host\_name nagiosslave

alias Node1

address 18.220.222.82

max\_check\_attempts 5

check\_period 24x7

notification\_interval 30

notification\_period 24x7

}

###############################################################################

###############################################################################

#

# SERVICE DEFINITIONS

#

###############################################################################

###############################################################################

# Define a service to "ping" the local machine

define service{

use local-service ; Name of service template to use

host\_name nagiosslave

service\_description PING

check\_command check\_ping!100.0,20%!500.0,60%

}

RunLevel:

Run levels :

init 0 -shut down

init 1 - single user

init 2 - multi user but N/w

init 3 - multi user with N/w

init 4 -un used

init 5 - multi user with N/w & GUI

init 6 – reboot

cd /usr/local/nagios/etc