#### Step 1: Install Required Dependencies

[root@tecmint]# **yum install -y httpd php gcc glibc glibc-common gd gd-devel make net-snmp**

-------------- **On Fedora 22+ Onwards** --------------

[root@tecmint]# **dnf install -y httpd php gcc glibc glibc-common gd gd-devel make net-snmp**

#### Step 2: Create Nagios User and Group

Create a new **nagios** user and **nagcmd** group account and set a **password**.

[root@tecmint]# useradd nagios

[root@tecmint]# groupadd nagcmd

Next, add both the **nagios** user and the **apache** user to the **nagcmd** group.

[root@tecmint]# usermod -G nagcmd nagios

[root@tecmint]# usermod -G nagcmd apache

Now download latest **Nagios Core 4.2.0** and **Nagios plugins 2.1.2** packages with [wget command](http://www.tecmint.com/10-wget-command-examples-in-linux/).

[root@tecmint nagios~]# wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.2.0.tar.gz

[root@tecmint nagios~]# wget https://www.nagios-plugins.org/download/nagios-plugins-2.1.2.tar.gz

#### Step 4: Extract Nagios Core and its Plugins

[root@tecmint nagios~]# tar -xvf nagios-4.2.0.tar.gz

[root@tecmint nagios~]# tar -xvf nagios-plugins-2.1.2.tar.gz

When you extract these tarballs with tar command, two new folders will appear in that directory.

[root@tecmint nagios ~]# ls –l

total 13528

drwxrwxr-x. 18 root root 4096 Aug 20 2015 **nagios-4.2.0**

-rw-r--r--. 1 root root 11142182 Aug 20 2015 nagios-4.2.0.tar.gz

drwxr-xr-x. 15 root root 4096 Aug 1 21:58 **nagios-plugins-2.1.2**

-rw-r--r--. 1 root root 2695301 Aug 1 21:58 nagios-plugins-2.1.2.tar.gz

#### Configure Nagios Core

Now, first we will configure **Nagios Core** and to do so we need to go to **Nagios** directory and run configure file and if everything goes fine, it will show the output in the end as sample output. Please see below.

[root@tecmint nagios~]# cd nagios-4.2.0

[root@tecmint nagios-4.2.0 ]# ./configure --with-command-group=nagcmd

Now, after configuring we need to **Compile** and **install** all the binaries with **make command and make install command** will install all the needed libraries in your machine and we can proceed further.

[root@tecmint nagios-4.0.1 ]# make all

[root@tecmint nagios-4.0.1 ]# make install

Following command will install the **init scripts** for Nagios.

[root@tecmint nagios-4.0.1 ]# make install-init

To make nagios work from command line we need to install **command-mode**.

[root@tecmint nagios-4.0.1 ]# make install-commandmode

Next, install sample nagios files, please run following command.

[root@tecmint nagios-4.0.1 ]# make install-config

#### Step 5: Customizing Nagios Configuration

vi /usr/local/nagios/etc/objects/contacts.cfg

#### Step 6: Install and Configure Web Interface for Nagios

We are done with all configuration in the backend, now we will configure Web Interface For Nagios with following command. The below command will Configure Web interface for Nagios and a web admin user will be created “**nagiosadmin**”.

[root@tecmint nagios-4.0.1 ]# make install-webconf

In this step, we will be creating a password for “**nagiosadmin**”. After executing this command, please provide a**password twice** and keep it remember because this password will be used when you login in the Nagios Web interface.

[root@tecmint ]# htpasswd -s /usr/local/nagios/etc/htpasswd.users nagiosadmin

Restart **Apache** to make the new settings take effect.

[root@tecmint ]# service httpd start [**On RHEL/CentOS 6/5 and Fedora**]

[root@tecmint ]# systemctl start httpd.service [**On RHEL/CentOS 7 and Fedora 19 Onwards**]

[root@tecmint nagios]# cd /root/nagios

[root@tecmint nagios]# cd nagios-plugins-2.1.2/

[root@tecmint nagios]# ./configure --with-nagios-user=nagios --with-nagios-group=nagios

[root@tecmint nagios]# make

[root@tecmint nagios]# make install

#### Step 8: Verify Nagios Configuration Files

[root@tecmint nagios]# /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

#### Step 9: Add Nagios Services to System Startup

[root@tecmint ]# chkconfig --add nagios

[root@tecmint ]# chkconfig --level 35 nagios on

[root@tecmint ]# chkconfig --add httpd

[root@tecmint ]# chkconfig --level 35 httpd on

Restart **Nagios** to make the new settings take effect.

[root@tecmint ]# service nagios start [**On RHEL/CentOS 6/5 and Fedora**]

[root@tecmint ]# systemctl start nagios.service [**On RHEL/CentOS 7 and Fedora 19-24**]

#### Step 10: Login to the Nagios Web Interface

Your nagios is ready to work, please open it in your browser with “**http://Your-server-IP-address/nagios**” or “**http://FQDN/nagios**” and Provide the username “**nagiosadmin**” and **password**.

### Upgrade Nagios 3.x to Nagios 4.2.0

[root@tecmint ]# service nagios stop

[root@tecmint ]# wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.2.0.tar.gz

[root@tecmint ]# tar -zxvf nagios-4.2.0.tar.gz

[root@tecmint ]# cd nagios-4.2.0

[root@tecmint ]# ./configure

[root@tecmint ]# make all

[root@tecmint ]# make install

[root@tecmint ]# service nagios start

**HOW TO CHANGE NAGIOS WEBINTERFACE PASSWORD (WEBLOGIN PASSWD)**

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

New password:

Re-type new password:

Adding password for user nagiosadmin

**ADDING HOSTS TO NAGIOS SERVER LIKE WINDOWS MACHINE YOU CONFIGURE FUNCTIONS AND SERVICES MUST**

**STEP-1: GO TO THIS PATH**

vi /usr/local/nagios/etc/objects/windows.cfg

**STEP-2: ADD ENTRY BYE (DEFINE HOST HERE)**

define host{

use windows-xp ; Inherit default values from a template

host\_name xp-printer ; The name we're giving to this host

alias windows xp ; A longer name associated with the host

address 192.168.10.94 ; IP address of the host

}

**STEP-3:ADD SERVICES (DEFINE SERVICES)**

## create a service for monitoring the ram in windows xp

define service{

use generic-service

host\_name xp-printer

service\_description Memory Usage

check\_command check\_nt!MEMUSE!-w 80 -c 90

}

# Create a service for monitoring C:\ disk usage

# Change the host\_name to match the name of the host you defined above

define service{

use generic-service

host\_name xp-printer

service\_description C:\ Drive Space

check\_command check\_nt!USEDDISKSPACE!-l c -w 80 -c 90

}

**STEP-4: ADD TEMPLATE FOR NOT GETTING ANY ERRORS GO TO THIS PATH**

vi /usr/local/nagios/etc/objects/templates.cfg

# Windows host definition template - This is NOT a real host, just a template!

define host{

name **windows-xp** ; The name of this host template (this must be same as windows.cfg file)

use generic-host ; Inherit default values from the generic-host template

check\_period 24x7 ; By default, Windows servers are monitored round the clock

check\_interval 5 ; Actively check the server every 5 minutes

retry\_interval 1 ; Schedule host check retries at 1 minute intervals

max\_check\_attempts 10 ; Check each server 10 times (max)

check\_command check-host-alive ; Default command to check if servers are "alive"

notification\_period 24x7 ; Send notification out at any time - day or night

notification\_interval 30 ; Resend notifications every 30 minutes

notification\_options d,r ; Only send notifications for specific host states

contact\_groups admins ; Notifications get sent to the admins by default

#hostgroups windows-servers ; Host groups that Windows servers should be a member of

register 0 ; DONT REGISTER THIS - ITS JUST A TEMPLATE

}

How to Add Linux Host to Nagios Monitoring Server Using NRPE Plugin

##### **Step 1: Install Required Dependencies**

**yum install -y gcc glibc glibc-common gd gd-devel make net-snmp openssl-devel**

##### **Step 2: Create Nagios User**

[root@tecmint]# useradd nagios

[root@tecmint]# passwd nagios

##### **Step 3: Install the Nagios Plugins**

[root@tecmint]# cd /root/nagios

[root@tecmint nagios~]# wget https://www.nagios-plugins.org/download/nagios-plugins-2.1.2.tar.gz

##### **Step 4: Extract Nagios Plugins**

tar -xvf nagios-plugins-2.1.2.tar.gz

##### **Step 5: Compile and Install Nagios**

[root@tecmint nagios]# cd nagios-plugins-2.1.2

[root@tecmint nagios-plugins-2.1.2]# ./configure

[root@tecmint nagios-plugins-2.1.2]# make

[root@tecmint nagios-plugins-2.1.2]# make install

Set the permissions on the plugin directory.