



≡ MENU

How To Monitor Remote Linux Host using Nagios 3.0

by RAMESH NATARAJAN on JUNE 1, 2008



In the previous post [Nagios 3.0 Jumpstart guide](#), I explained the overview, installation and configuration of Nagios 3.0 on Red Hat Server. In the following three chapters, I'll explain how to monitor a remote Linux host and the various services running on the remote host. Also, please refer to all our [Nagios articles](#).

I. Overview

II. 6 steps to install Nagios plugin and NRPE on remote host.

1. Download Nagios Plugins and NRPE Add-on
2. Create nagios account
3. Install Nagios Plugins
4. Install NRPE
5. Setup NRPE to run as daemon
6. Modify the `/usr/local/nagios/etc/nrpe.cfg`

III. 4 Configuration steps on the Nagios monitoring server to monitor remote host:

1. Download NRPE Add-on
2. Install `check_nrpe`
3. Create host and service definition for remote host

4. Restart the nagios service

I. Overview:

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Following three steps will happen on a very high level when Nagios (installed on the nagios-servers) monitors a service (for e.g. disk space usage) on the remote Linux host.

1. Nagios will execute `check_nrpe` command on nagios-server and request it to monitor disk usage on remote host using `check_disk` command.
2. The `check_nrpe` on the nagios-server will contact the NRPE daemon on remote host and request it to execute the `check_disk` on remote host.
3. The results of the `check_disk` command will be returned back by NRPE daemon to the `check_nrpe` on nagios-server.

Following flow summarizes the above explanation:

Nagios Server (`check_nrpe`) --> Remote host (NRPE daemon) --> `check_disk`

Nagios Server (`check_nrpe`) <-- Remote host (NRPE daemon) <-- `check_disk`
(returns disk space usage)

II. 7 steps to install Nagios Plugins and NRPE on the remote host

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1. Download Nagios Plugins and NRPE Add-on

Download following files from [Nagios.org](https://nagios.org) and move to `/home/downloads`:

- nagios-plugins-1.4.11.tar.gz
- nrpe-2.12.tar.gz

2. Create nagios account

```
[remotehost]# useradd nagios
[remotehost]# passwd nagios
```

3. Install nagios-plugin

```
[remotehost]# cd /home/downloads
[remotehost]# tar xvfz nagios-plugins-1.4.11.tar.gz
[remotehost]# cd nagios-plugins-1.4.11
[remotehost]# export LDFLAGS=-ldl

[remotehost]# ./configure --with-nagios-user=nagios --with-nagios-group=nagios
[remotehost]# make
[remotehost]# make install

[remotehost]# chown nagios.nagios /usr/local/nagios
[remotehost]# chown -R nagios.nagios /usr/local/nagios/libexec/
```

Note: On Red Hat, For me the `./configure` command was hanging with the the message: “**checking for redhat spopen problem...**”. Add `--enable-redhat-pthread-workaround` to the `./configure` command as a work-around for the above problem.

4. Install NRPE

```
[remotehost]# cd /home/downloads
[remotehost]# tar xvfz nrpe-2.12.tar.gz
[remotehost]# cd nrpe-2.12

[remotehost]# ./configure
```

```
[remotehost]# make all
[remotehost]# make install-plugin
[remotehost]# make install-daemon
[remotehost]# make install-daemon-config
[remotehost]# make install-xinetd
```

5. Setup NRPE to run as daemon (i.e as part of xinetd):

- Modify the `/etc/xinetd.d/nrpe` to add the ip-address of the Nagios monitoring server to the `only_from` directive. Note that there is a space after the `127.0.0.1` and the nagios monitoring server ip-address (in this example, nagios monitoring server ip-address is: `192.168.1.2`)

```
only_from      = 127.0.0.1 192.168.1.2
```

- Modify the `/etc/services` and add the following at the end of the file.

```
nrpe 5666/tcp # NRPE
```

- Start the service

```
[remotehost]#service xinetd restart
```

- Verify whether NRPE is listening

```
[remotehost]# netstat -at | grep nrpe
tcp 0      0 *:nrpe *: *      LISTEN
```

- Verify to make sure the NRPE is functioning properly

```
[remotehost]# /usr/local/nagios/libexec/check_nrpe -H localhost
```

NRPE v2.12

6. Modify the /usr/local/nagios/etc/nrpe.cfg

The nrpe.cfg file located on the remote host contains the commands that are needed to check the services on the remote host. By default the nrpe.cfg comes with few standard check commands as samples. check_users and check_load are shown below as an example.

```
command[check_users]=/usr/local/nagios/libexec/check_users -w 5 -c 10
command[check_load]=/usr/local/nagios/libexec/check_load -w 15,10,5 -c 30,25,20
```

In all the check commands, the “-w” stands for “Warning” and “-c” stands for “Critical”. for e.g. in the check_disk command below, if the available disk space gets to 20% or less, nagios will send warning message. If it gets to 10% or less, nagios will send critical message. Change the value of “-c” and “-w” parameter below depending on your environment.

```
command[check_disk]=/usr/local/nagios/libexec/check_disk -w 20% -c 10% -p /dev/h
```

Note: You can execute any of the commands shown in the nrpe.cfg on the command line on remote host and see the results for yourself. For e.g. When I executed the check_disk command on the command line, it displayed the following:

```
[remotehost]#/usr/local/nagios/libexec/check_disk -w 20% -c 10% -p /dev/hda1
DISK CRITICAL - free space: / 6420 MB (10% inode=98%);| / =55032MB;51792;58266;0;
```

In the above example, since the free disk space on /dev/hda1 is only 10% , it is displaying the CRITICAL message, which will be returned to nagios server.

III. 4 Configuration steps on the Nagios monitoring server to monitor remote host:

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1. Download NRPE Add-on

Download nrpe-2.12.tar.gz from [Nagios.org](https://nagios.org) and move to /home/downloads:

2. Install check_nrpe on the nagios monitoring server

```
[nagios-server]# tar xvfz nrpe-2.12.tar.gz
[nagios-server]# cd nrpe-2.1.2
[nagios-server]# ./configure
[nagios-server]# make all
[nagios-server]# make install-plugin
```

./configure will give a configuration summary as shown below:

*** Configuration summary for nrpe 2.12 05-31-2008 ***:

General Options:

NRPE port: 5666

NRPE user: nagios

NRPE group: nagios

Nagios user: nagios

Nagios group: nagios

Note: I got the “**checking for SSL headers... configure: error: Cannot find ssl headers**” error message while performing `./configure`. Install `openssl-devel` as shown below and run the `./configure` again to fix the problem.

```
[nagios-server]# rpm -ivh openssl-devel-0.9.7a-43.16.i386.rpm krb5-devel-1.3.4-4
el4.i386.rpm
warning: openssl-devel-0.9.7a-43.16.i386.rpm: V3 DSA signature: NOKEY, key ID d6
Preparing... ##### [100%]
1:e2fsprogs-devel ##### [ 25%]
2:krb5-devel ##### [ 50%]
3:zlib-devel ##### [ 75%]
4:openssl-devel ##### [100%]
```

Verify whether nagios monitoring server can talk to the remotehost.

```
[nagios-server]#/usr/local/nagios/libexec/check_nrpe -H 192.168.1.3
NRPE v2.12
```

Note: 192.168.1.3 in the ip-address of the remotehost where the NRPE and nagios plugin was installed as explained in Section II above.

3. Create host and service definition for remotehost

Create a new configuration file

/usr/local/nagios/etc/objects/remotehost.cfg to define the host and service definition for this particular remotehost. It is good to take the `localhost.cfg` and copy it as `remotehost.cfg` and start modifying it according to your needs.

host definition sample:

```
define host{
    use linux-server
```

```
host_name remotehost
alias Remote Host
address 192.168.1.3
contact_groups admins
}
```

Service definition sample:

```
define service{
use generic-service
service_description Root Partition
contact_groups admins
check_command check_nrpe!check_disk
}
```

Note: In all the above examples, replace remotehost with the corresponding hostname of your remotehost.

4. Restart the nagios service

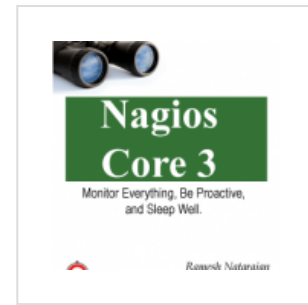
Restart the nagios as shown below and login to the nagios web (<http://nagios-server/nagios/>) to verify the status of the remotehost linux sever that was added to nagios for monitoring.

```
[nagios-server]# service nagios reload
```

Best Nagios Book

[Nagios Core 3 eBook](#) – I've been using Nagios for several years, and I can sleep peacefully at night knowing that Nagios is monitoring all my systems and will warn me about any potential issue, before it becomes critical. I strongly recommend that you read Nagios Core 3 ebook to gain detailed understanding on

Nagios. Since Nagios is free software, spending few dollars on the book can be the best investment you can make.



Awesome Nagios Articles

Following are few awesome **Nagios articles** that you might find helpful.

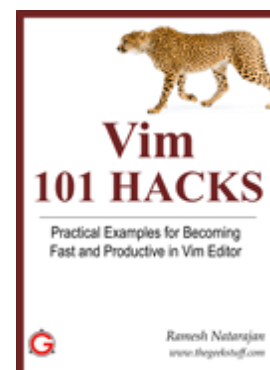
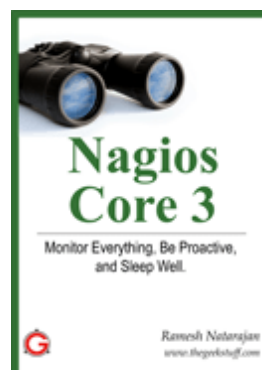
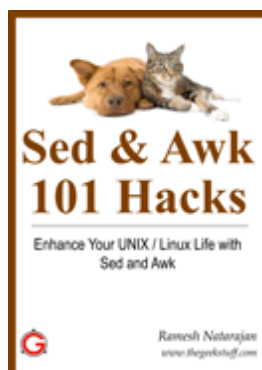
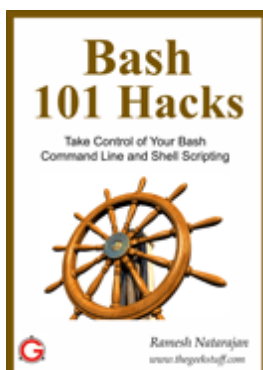
- [How To Monitor Network Switch and Ports Using Nagios](#)
- [How To Monitor Remote Windows Machine Using Nagios on Linux](#)
- [Nagios 3 Jumpstart Guide For Linux – Overview, Installation and Configuration](#)

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Comments on this entry are closed.

David Ducos

June 4, 2008, 4:55 am

You may also modify commands.cfg to add check_nrpe that was not by default in that file.

I find nexts lines in a forum:

'check_nrpe' command definition

```
define command{
```

```
command_name check_nrpe
```

```
command_line $USER1$/check_nrpe -H $HOSTADDRESS$ -t 30 -c $ARG1$
```

```
}
```

Thanks for this guide!!

∞

Jaspreet

June 5, 2008, 2:48 am

Nice article i did everything but still i dnt know hw to monitor the remote host through the nagios server through web interface .

Can you please help me on this ..?

∞

David Ducos

June 12, 2008, 7:17 am

Jaspreet: you have to edit several file in /usr/local/nagios/etc/ folder. First with nagios.cfg and then each objetc that you wanna monitor.

∞

Ramesh

June 22, 2008, 3:17 pm

@David,

Thanks for your comment about check_nrpe and following up with Jaspreet on his questions.

@Jaspreet,

You need to explain little bit more on what configuration you've done so far and what exactly the problem you are facing. If you need any additional help send me an email to ramesh (at) thegeekstuff (dot) com , and I'll help you out.

∞

Alan Fullmer

June 23, 2008, 3:04 pm

Great article. Jaspreet, I'm guessing you don't have the cfg set up right on your host server. I always verify the config as well with the nagios -v [path/to/config.cfg], maybe that would also help.

∞

Simon

July 12, 2008, 8:02 pm

Now an explanation of the "NRPE" abbreviation would make the whole read less frustrating.

∞

Ramesh

July 13, 2008, 11:48 pm

@Simon,

NRPE stands for “Nagios Remote Plug-Ins Executor”

∞

hp

September 17, 2008, 3:29 am

Hi Ramesh

i set up nagios server (in singapore) and a client (malaysia) but i got this error when i wanted to see if server talks to client correctly, can you help with this thanks ?

```
[root@nagios etc]# /usr/local/nagios/libexec/check_nrpe -H 172.16.1.248  
CHECK_NRPE: Socket timeout after 10 seconds.
```

∞

Jhon Grados

September 18, 2008, 10:01 am

According the first message ...

You may also modify commands.cfg to add check_nrpe that was not by default in that file.

I find nexts lines in a forum:

```
# 'check_nrpe' command definition  
define command{  
    command_name check_nrpe  
    command_line $USER1$/check_nrpe -H $HOSTADDRESS$ -t 30 -c $ARG1$  
}
```

∞

Will

September 21, 2008, 5:16 pm

I couldn't get the nagios server to monitor the remote host. Do I need to configure the nagios.cfg file with the path of the remotest.cfg file. I did this and I get a config error when I reload nagios. Am I missing something?

∞

Mr-lol

September 23, 2008, 2:45 am

Thanks Ramesh good work, one thing though your # "configure" lines will be a bit frustrating for newbies since you have omitted the # "./configure" and also " – "instead of" – " on your how-to.

Thanks a mil once again 😊

∞

Mr-lol

September 23, 2008, 2:46 am

That should have been " – -"

∞

hoberion

October 8, 2008, 4:25 pm

thank you!

∞

Sidster

October 28, 2008, 10:12 pm

Thanks for your guide. I have got server talking to client (linux) using NRPE. Now there are 4 more other machines but I cannot install any agent on those. Reading through websites, there is a way...can you please suggest me something.

Thanks in advance.

∞

Ramesh

December 22, 2008, 2:14 pm

Mr-lol,

Yes. It should be "--" in the "./configure". I've fixed it. Thanks for pointing it out.

∞

Clemente

January 8, 2009, 2:52 pm

hi, thank you very much for your help, but now I've to ask you some more help because: I carefully followed your instructions for the installation of NREP and the server gives me the following answer when I try to execute the verify on it:

```
/usr/local/nagios/libexec/check_nrpe -H 192.168.1.105 (remote linux host ip)  
Connection refused by host
```

Do you think it could be the firewall on client? If so, how can I solve the problem?

∞

Mike Call

January 17, 2009, 9:53 am

FYI, Simon... NRPE stands for "Nagios Remote Plug-Ins Executor"

∞

mrudula

March 4, 2009, 5:47 am

I have installed nagios3 on a linux box. I m tryng to configure a remote linux machine. I m following the above steps as mentioned by you. I have also modified commands.cfg to add check_nrpe

However i getting following message in web in status information colm
NRPE: Command 'check_disk' not defined

My check_disk in commands.cfg looks like this

```
# 'check_disk' command definition
define command{
    command_name check_disk
    command_line $USER1$/check_disk -H $HOSTADDRESS$ -w $ARG1$ -c
$ARG2$ -p $ARG3$
}
```

∞

Gautam Kashyap

June 1, 2009, 1:27 am

Hi,

I am getting following error when i run this command on nagios server(Fedora8).192.168.1.201 is the ip of remote host (CentOS release 5.2)

```
[root@mail nrpe-2.12]# /usr/local/nagios/libexec/check_nrpe -H 192.168.1.201
CHECK_NRPE: Error – Could not complete SSL handshake.
```

Though Openssl is installed in my system

```
[root@mail nrpe-2.12]# rpm -qa |grep openssl
openssl-0.9.8b-17.fc8
openssl-devel-0.9.8b-17.fc8
openssl-perl-0.9.8b-17.fc8
[root@mail nrpe-2.12]#
```

∞

raj

June 19, 2009, 9:34 am

hi... i have done the following with Nagios 3.0

- 1) copied the localhost.cfg file and created a remotehost.cfg file
- 2) i have then added a remote linux host to the remotehost.cfg file
- 3) how do i see the remote host on the nagios server....?

∞

Arunkeerthan

October 11, 2009, 12:32 pm

My remote host is configured with the static ip. But my NAgios server is behind the Aitel router with Lan ip provided by router dhcp. Should i enter my WAN ip in remote host as server's ip address or should i enter my local ip in remote host as server's ip address.... Please help me....

I dont know which ip address i should enter as server's ip in remote host in this case... Please help me.....

∞

emreCEB

October 28, 2009, 9:17 am

I have status by nagios server marked as "unknown" and i cant get rid of it.

i followed every step here and seems it all fine.

what i am missing, any help might be good.

ty

∞

Paul

October 29, 2009, 10:00 am

For some reason I am unable to install NRPE onto a CentOS release 4.7. I had to rename Makefile.in to Makefile just to get the "make all" command to work. But when I go to use "make install" I get the following error message.


```
# make install-plugin
cd ./src/ && make install-plugin
make[1]: Entering directory `/root/nrpe-2.12/src'
make[1]: *** No rule to make target `install-plugin'. Stop.
make[1]: Leaving directory `/root/nrpe-2.12/src'
make: *** [install-plugin] Error 2
```

I am running this command as root and I ran the ./configure.

∞

Raghu Nandan Shukla

December 1, 2009, 7:59 am

Thanks Ramesh for article i am done with above great job!

newbies

also dont forget to include

cfg_file=/usr/local/nagios/etc/objects/remotehost.cfg

in /usr/local/nagios/etc/nagios.cfg

if u have configured remotehost.cfg file as above

:--))

∞

Prof.Luís Eduardo

March 23, 2010, 7:01 am

Solution for problems with ssl in Ubuntu:

<http://ubuntuforums.org/showthread.php?t=875240>

∞

Leog

April 20, 2010, 11:07 am

[remotehost]# ./configure

[remotehost]# make all <<<--- Doesn't work for me.

make: *** No rule to make target `all'. Stop.

why?

thx

∞

Kamran Ansari

April 23, 2010, 11:12 am

Hi Ramesh,

Thanks for all your articles – very helpful indeed.

I am new to the Linux world and just getting my feet wet. I am researching options for monitoring system performance on a Redhat (RHEL 5.5) cluster from a windows machine. My environment consists of half a dozen Windows Server 2008 machines and another 6 machines running RHEL 5.5. I am required to collect Performance metrics on both clusters through a program I wrote in C# running on one of the Windows machines. I am using Perfmon for the Windows servers and it's working great so far. However, I haven't been able to find a solution for monitoring my Linux machines from my Windows box yet.

Does Nagios provide such a functionality? What are my options? I'd appreciate if you could point me to other useful resources.

Thanks once again!

∞

Jay Tobio

April 27, 2010, 1:32 am

@ Will,

You don't need to create a remotehost.cfg file. Just edit the localhost.cfg and include the config needed to monitor the remote host.

∞

Jay Tobio

April 27, 2010, 1:34 am

@ raj

It should appear when you click “Services” at the left pane

∞

Chris J

May 10, 2010, 7:52 am

This is a very good article, but Jay is correct just add the second host configuration to the localhost.cfg. This is how I got it to work monitoring another CentOS box.

∞

sreenu

August 6, 2010, 1:54 am

[remotehost]# make all <<<-- Doesn't work for me.
make: *** No rule to make target `all'. Stop.

why?

thx

∞

newguy

August 6, 2010, 6:08 am

friends,

Please help , i am a new user of nagios and am exploring its various features. I have successfully installed nagios on the test server and can access its GUI.

SERVER IP : 10.1.51.182

i can access the url through

<http://10.1.51.182:/nagios>

Presently i am able to view only one monitored server “localhost” which is my nagios server.

I have another test machine available with me installed with RHEL45 .

i have followed the following steps to configure the remote host.

Download Nagios Plugins and NRPE Add-on

Create nagios account

Install Nagios Plugins

Install NRPE

Setup NRPE to run as daemon

Modify the /usr/local/nagios/etc/nrpe.cfg

The following has been done at the Nagios server :

Download NRPE Add-on

Install check_nrpe

Create host and service definition for remote host

Restart the nagios service

pwd

/usr/local/nagios/etc/objects

cd /usr/local/nagios/etc/objects

created the configuration file for the host

```
#####  
#####  
#####  
#####
```

```
#
# HOST DEFINITION
#
#####
#####
#####
#####

# Define a host for the local machine

define host{
use linux-server ; Name of host template to use
; This host definition will inherit all variables that are defined
; in (or inherited by) the linux-server host template definition.
host_name lidump
alias localhost
address 10.1.51.83
}

define service{
use generic-service ; Name of service template to use
host_name lidump
service_description PING
check_command check_ping!100.0,20%!500.0,60%
}
```

I am unable to view this host in the nagios URL GUI.

PLease help

∞

VIKAS

September 7, 2010, 10:51 am

Hi Newguy,

I was also facing the same problem. Add this line

cfg_file=/usr/local/nagios/etc/objects/remotehost.cfg

to
/usr/local/nagios/etc/nagios.cfg

This solved my problem. At least now I can see my remote host in Nagios Web Browser.

BUT still all my services configured in
/usr/local/nagios/etc/objects/remotehost.cfg on Nagios Server are NOT visible in Nagios Web Browser.

I have also sent an email to Ramesh, still waiting for his reply.

∞

VIKAS

September 7, 2010, 1:19 pm

Hey all,

My problem got resolved. See this
<http://www.linuxquestions.org/questions/linux-software-2/unable-to-view-remote-hosts-details-in-nagios-browser-page-830355/>

∞

Roberto

September 8, 2010, 12:07 pm

Hi all,

when I run check_nrpe command I receive an error:

/usr/local/nagios/libexec/check_nrpe -H 172.21.1.41
CHECK_NRPE: Error – Could not complete SSL handshake.

I view logs an found:

```
Sep 8 12:26:26 lindes xinetd[14787]: START: nrpe pid=14794 from=172.21.2.56
Sep 8 12:26:26 lindes xinetd[14794]: libwrap refused connection to nrpe
(libwrap=nrpe) from 172.21.2.56
Sep 8 12:26:26 lindes xinetd[14794]: FAIL: nrpe libwrap from=172.21.2.56
Sep 8 12:26:26 lindes xinetd[14787]: EXIT: nrpe status=0 pid=14794
duration=0(sec)
```

The service is running and I have the next line in file `/etc/xinetd.d/nrpe`:

```
only_from = 127.0.0.1 172.21.2.56
```

Somewhere (i dont remember where) I read something about tcpwrapper and nagios, I view my `/etc/hosts.deny`, it has one line:

```
ALL:ALL
```

I think that this is the problem. I add the next line to my file `/etc/hosts.allow`:

```
nrpe:172.21.2.56
```

And It works without problems!!!

```
/usr/local/nagios/libexec/check_nrpe -H 172.21.1.41
NRPE v2.12
```

my server IP: 172.21.2.56

my client IP: 172.21.1.41

I

∞

Ramaswamy

October 6, 2010, 8:48 am

Hi,

I configured nagios-3 as per documentation. But I am unable to login with authentication. when I give <http://localhost/nagios> with username and password,

it is giving you don't have permission to access /nagios. Please suggest me.
Thankyou.

∞

sztupi

October 20, 2010, 3:38 am

Hi,

I use nagios3 and nagios-plugins.

I set up a Disk Space check :

```
define service{
use generic-service ; Name of service template to use
host_name gollam, frodo,flanders,flan
service_description Disk Space
check_command check_disk!20%!10%!/HOME
}
```

running Nagios and the error message say:

DISK CRITICAL – /HOME is not accessible: No such file or directory

∞

Jovin

November 3, 2010, 2:53 pm

Hi...

I'm getting an error when running this command:

■ Verify to make sure the NRPE is functioning properly

```
[remotehost]# /usr/local/nagios/libexec/check_nrpe -H localhost
```

I would get:

CEHCK_NRPE: Error – Could not complete SSL handshake.

I've even tried using the nagios server's IP address – same result.

What was your fix in resolving this issue?

Needp help – Thank you.

∞

royal charlie

December 30, 2010, 11:20 am

What's the solution for the issue already raised

[remotehost]# make all <<<<-- Doesn't work for me.
make: *** No rule to make target `all'. Stop.

∞

royal charlie

December 30, 2010, 11:43 am

Reply to below issue.

After reading some forum searches, the nrpe make all will fail if there is a failure during the ./configure bit. Ensure that there is no failure upon running ./configure. In my case, there it was “checking for SSL headers... configure: error: Cannot find ssl headers”. I had to manually install the openssl-devel as am using CentOS. After the successful installation, re-run ./configure and all make steps completed like a flash.

Hope this helps newbies like me who will come across this blog. Regards.

=====

What's the solution for the issue already raised

[remotehost]# make all <<<<-- Doesn't work for me.
make: *** No rule to make target `all'. Stop.

∞

Thanh Pham

January 5, 2011, 2:50 am

I have read this article, and applied it to my company administrator tasks.
It is really useful! Thank you very much for your hardwork!

∞

Raj

January 19, 2011, 8:50 am

I want to configure check_http plugin to monitor http url in a host. I can add the following in nrpe.cfg and restart the nrpe service:

```
command[check_http]=/usr/local/nagios/libexec/check_http -H myhost -I  
127.0.0.1 -u http://myurl.com -w 30 -c 60 -t 15
```

After this do we need to do any changes in Nagios server?

∞

vilas

January 31, 2011, 5:35 am

how to monitor multital linux partition in nagios through nrpe

∞

Bijohn Vincent

April 12, 2011, 1:43 pm

If anyone getting the error “checking for SSL headers... configure: error: Cannot find ssl headers” in Ubuntu, run `sudo apt-get install libssl-dev`.

∞

Sachikanta

September 30, 2011, 2:01 pm

You need to open port 5666 for NRPE plugin and lots of other configuration also needs to be done for NRPE plugin. so its better to use check_by_ssh plug. its working fine.

I am using it and monitoring our 25 Linux Servers.

∞

Sachikanta

September 30, 2011, 2:05 pm

Vilas, you need to add an another host.cfg file under objects folder (inside nagios home directory). and need to modify the nagios.cfg file too. then u can monitor as much as Linux Servers.

∞

shu

November 23, 2011, 10:04 pm

i hav installed the nagios, when i'm browsn m gtng the first page.bt ts nt shwnng anythn abt the service nd when m clickin on any buttons on the right side ts showing below error...

Internal Server Error

The server encountered an internal error or misconfiguration and was unable to complete your request.

Please contact the server administrator, root@localhost and inform them of the time the error occurred, and anything you might have done that may have caused the error.

More information about this error may be available in the server error log.

Apache/2.2.15 (CentOS) Server at 172.22.1.248 Port 80

please any1 help mi.....

∞

aman

November 24, 2011, 12:21 am

when i click on maps in the right side , i am getting the following error
Not Found

The requested URL /nagios/cgi-bin/statusmap.cgi was not found on this server.
Apache/2.2.15 (CentOS) Server at 172.22.1.248 Port 80

please help me .. how to resolve this .

∞

Sri

November 29, 2011, 4:27 pm

Hi,

I tried this one. But I keep getting a Error receiving data from daemon when doing a check_nrpe. I am on version 3.0-dev from git and am running icinga server 1.5.0. Ive even put the ip addresses of all interfaces locally onto the allowed_hosts in nrpe.cfg (but that shouldnt make a difference when running in xinetd – where I have specified this in only_from parameter).

The only difference is I am installing icinga in /home/icinga instead of the default path (/usr/local i think).

This is just eating my head in. Any ideas?

Thanks in advance

Sri

∞

tan

December 11, 2011, 5:49 am

aman , try to restart

apache , then restart nagios, it is solved

∞

tan

February 12, 2012, 12:22 pm

i have added few linux hosts to monitor , but the services for each remote host are same as the nagios server; can anybody tell why iam getting same values

∞

seena

March 20, 2012, 6:33 am

Hi Ramesh,

Great tutorial !! I have done exactly what you explained. It seems you missed one step and it took a while for me to figure out the problem

After the complete configuration I was able to check the version and load from the remote nagios server command line using following command:

```
/usr/lib64/nagios/plugins/check_nrpe -H  
/usr/lib64/nagios/plugins/check_nrpe -H -c check_load
```

However the result was not coming nagios web interface and the configuration check was giving an error

“command ‘check_nrpe’ specified in service ‘Current load’ for host ” hostname”
not defined anywhere! “”

Finally I had to add the following in /objects/commands.cfg of the Nagios server.

```
define command{  
command_name check_nrpe  
command_line $USER1$/check_nrpe -H $HOSTADDRESS$ -c $ARG1$  
}
```

Thanks

Seena

∞

firaas

June 27, 2012, 8:59 am

hi ramesh,

i've a problem, while verify whether nagios monitoring server can talk to the remotehost, i get the following report: "Connection refused or timed out"
could you help me

∞

Rajesh Sharma

July 20, 2012, 6:11 am

i am trying to monitor asterisk through NAGIOS. I downloaded check_asterisk plugin from website. put this plugin in /usr/local/nagios/libexec/.

i added below in /usr/local/nagios/etc/object/command.cfg

```
define command{  
command_name check_asterisk  
command_line $USER1$/check_asterisk -U $ARG1$ -P $ARG2$ -w 500 -c 1000  
}
```

and i added below code in /usr/local/nagios/etc/objects/localhost.cfg

```
define service{  
use local-service
```

```

host_name localhost
service_description Asterisk
check_command check_asterisk
}

```

Now in nagios GUI it is showing UNKNOWN error:-**ePN
 /usr/local/nagios/libexec/check_asterisk: "Can not open ASTFILE file:
 Permission denied at (eval 1) line 16,".

code inside check_plugin

```

my $what = $ARGV[0];
my %ERRORS=('OK'=>0,'WARNING'=>1,'CRITICAL'=>2);
my ($asterisk,$statd);
my $astd = "/var/run/asterisk/asterisk.pid"; #Where is your asterisk PID file
my $grep = "ps ax |grep";

unless (-e $astd) {
  print "CRITICAL - Asterisk\n";
  exit $ERRORS{'CRITICAL'};
}
open ASTFILE,"$astd" or die "Can not open ASTFILE file: $!";
$statd = readline(*ASTFILE);
chomp $statd;
$statd = ` $grep $statd `;
unless ($statd =~ m|asterisk|) {
  print "CRITICAL -Asterisk\n";
  exit $ERRORS{'CRITICAL'};
} else {
  print "OK - Asterisk\n";
  exit $ERRORS{'OK'};
}

```

mys asterisk PID location is: /var/run/asterisk/asterisk.PID
 i changed ownership of check_asterisk. But still the same issue persist.

Please help

∞

Sameer gautam

August 19, 2012, 4:32 am

I followed exactly as you stated above but I can not find my remote linux machine listed under hosts in the web-interface of my nagios. however, I can run all the commands (eg: /usr/local/nagios/libexec/check_nrpe -H -c check_users) from the console quite successfully.

can you tell why is that so?

thank you

∞

sandeep

September 27, 2012, 2:35 am

Hi,

I am defined a command in nagois slave machines as

command[check_ProcessName]=/usr/lib/nagios/plugins/check_procs -c 1:2 -a 'ProcessName'

When I ran command

/usr/lib/nagios/plugins/check_procs -c 1:2 -C ProcessName

it's showing status as

PROCS CRITICAL: 0 processes with command name 'ProcessName',
this process status is correct.

The same command when I ran with check_nrpe using command

/usr/lib/nagios/plugins/check_nrpe -H hostname -c check_ProcessName

its showing as

PROCS OK: 1 process with args 'ProcessName'.

Hear check_nrpe is showing ProcessName as running even though its not running.

Any one please update me if there is any mistake with command.

Thanks

∞

Lukas

March 13, 2013, 5:26 pm

Awesome article. Worked a treat.

I had a few problems with make'ing the nagios plugins and NRPE on Ubuntu but a bit of googling resolved that; I was missing some stuff and just needed to install the following and then 'make clean' and start again (ie.. from the configure statement).

sudo apt-get install libssl-dev (before installing Nagios Plugins)

sudo apt-get install xinetd (before installing NRPE)

Also if you are using Ubuntu, remember to use 'sudo' before all the 'make' commands and 'useradd' etc.

I may have said it before, but I'll say it again: Ramesh, your articles are always crystal clear and very thorough. I have come across your site a few times now and am always pleased with the experience. Keep up the good work, you are a true gentleman and a scholar and the Linux community could use more people like you. 😊

∞

shailendra khade

March 24, 2013, 1:00 am

how many kernel i can install in RHEL 5 or any version

∞

albert

April 4, 2013, 12:37 am

Mr. Ramesh Natarajan i want to be your apprentice for linux administrator kindly teach me how to use it easily

∞

Jitendra kirar

June 18, 2013, 11:02 pm

Hi,

can any one help me to find those RPM openssl-devel-0.9.7a-43.16.i386.rpm
krb5-devel-1.3.4-47.i386.rpm zlib-devel-1.2.1.2-1.2.i386.rpm e2fsprogs-devel-
1.35-12.5.
el4.i386.rpm

Please give me the link to download those RPM's

—

After installed the rpm's and run ./configure i am getting below error.
checking for SSL headers... SSL headers found in /usr
checking for SSL libraries... configure: error: Cannot find ssl libraries

Please provide me the solution for this ASAP.

∞

Basel

September 23, 2013, 10:29 am

Cannot start xinetd.d/nrpe getting permission denied even with root user:
bash: /etc/xinetd.d/nrpe: Permission denied

Command: /etc/xinetd.d/nrpe restart

Your help is greatly appreciated.

∞

Nazir

July 4, 2014, 4:21 am

can anyone pls show ur remote machine's nrpe.cfg file so that i can know what
mistakes i made.

Thanks

Nazir

∞

Jonus Joseph

November 19, 2014, 3:51 am

Hello Ramesh,

My question is : How to add icon/image in front of host or services on nagios portal.

for example i have one host in nagios it is RHEL7 i want to keep icon/image of REDHAT in front of host on nagios portal so that i can recognize easily.

how to do this process through nagios configurations ?

Thank you very much in advance.

-Jonus Joseph

∞

Jonus Joseph

December 9, 2014, 12:37 pm

Hello,

To monitor any Linux hosts we install nrpe,

My concern is how does nrpe execute its command from nagios to remote host ?

Eg:

Remote Server: NRPE file (nrep.cfg):

```
command[check_cpu_jonus]=/usr/local/nagios/libexec/check_cpu -w 80 -c 90
```

Nagios Side:

```
#/usr/local/nagios/libexec/check_nrpe -H 192.168.6.1 -p 5666 -c  
check_cpu_jonus
```

My question is how does nagios execute this check (check_cpu_jonus) on remote server through SSH ? or any other protocol ?

or in other words i can say if we remove SSH from remote host will this check

(check_cpu_jonus) will execute on remote host and give output to nagios server ?
Please help me to understand how does NRPE works from nagios server to remote server which we want to monitoring.

Thanks in advance.

-Jonus Joseph

∞

Niko

October 19, 2015, 3:32 pm

If you don't wish or are unable to turn on "ont_blame_nrpe" due to the security concerns and wish to use hard coded commands in client's nrpe.conf file but running into issues with nagios throwing errors like: "DISK CRITICAL – is not accessible: No such file or directory" or "No output returned from plugin" you may need to modify your client configuration files on the server by changing "check_nrpe" to "check_nrpe_1arg" this allows nagios to execute without passing any arguments.

Hope this helps someone else,
Niko

∞

raid

December 22, 2015, 2:02 am

ok thats done but how do i get email/sms notification when my host gets down under nagios???

∞

sanjeevi

March 16, 2016, 11:48 pm

Hello,

I configured every thing as per your documentation but I am not getting remote host notification at Nagios server service web console.

∞

Nagaraj

April 28, 2016, 3:58 am

i done the following thing:

1) vi /usr/local/nagios/etc/objects/localhost.cfg
/usr/local/nagios/etc/objects/newhost.cfg

2:edit the usr/local/nagios/etc/objects/newhost.cfg

in HOST DEFINITION

and change the hostname to newhost

And same changes in

SERVICE DEFINITIONS

and save the file

3) to add newhost in the /usr/local/nagios/etc/nrpe.cfg file also

verify with /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

no error

But all the new host shown in same root partition when i did the miskate

∞

Jonus Joseph

August 25, 2016, 12:22 am

Hi Ramesh,

Very good tutorial really appreciated.

Do we have any document for SNMP Trap monitoring using Nagios ? if not, can this be added in your tutorial ? i will be waiting for your reply on this.

Thanks,
Jonus Joseph

∞

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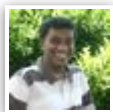
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posting instruction guides, how-to, troubleshooting tips and

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