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# Monitoring Server Using NRPE Plugin

by [Ravi Saive](#) | Published: November 8, 2013 |  
Last Updated: August 8, 2016

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In our first part of this article, we've explained in detail on how to install and configure latest **Nagios Core 4.2.0** on **CentOS 7.2** server. In this article we will show you how to add **Remote Linux** machine and it's services to **Nagios Monitoring** host using **NRPE** agent.

We hope you already having **Nagios** installed and running properly. If not, please use the following installation guide to install it on the system.

■ [Nagios 4.2.0](#)

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Once you've installed, you can proceed further to install **NRPE** agent on your **Remote Linux** host. Before heading further, let us give you a short description about **NRPE**.

## What is NRPE?

The **NRPE** (**Nagios Remote Plugin Executor**) plugin allows you to monitor any remote **Linux/Unix** services or network devices. This **NRPE** add-on allows **Nagios** to monitor any local resources like **CPU load, Swap, Memory usage, Online users**, etc. on remote Linux machines. After all, these local resources are not mostly exposed to



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NRPE agent must be installed and configured on the remote machines.

**Note:** The NRPE add-on requires that **Nagios Plugins** must be installed on the remote Linux machine. Without these, the NRPE daemon will not work and will not monitor anything.

## Installation of NRPE Plugin

To use the NRPE, you will need to do some additional tasks on both the **Nagios Monitoring Host** and **Remote Linux Host** that the NRPE installed on. We will be covering both the installation parts separately.

We assume that you are

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host that supports TCP wrappers and Xinetd daemon installed on it. Today, most of the modern Linux distributions have these two installed by default. If not, we will install it later during the installation when required.

## On Remote Linux Host

Please use the below instructions to install **Nagios Plugins** and **NRPE** daemon on the **Remote Linux Host**.

### Step 1: Install Required Dependencies

We need to install required libraries like **gcc**, **glibc**, **glibc-common** and **GD** and its development libraries before installing.

```
[root@tecmint]# yum
----- On Fe
[root@tecmint]# dnf
```

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## Nagios User

Create a new nagios user account and set a password.

```
[root@tecmint]# useradd nagios
[root@tecmint]# passwd nagios
```

## Step 3: Install the Nagios Plugins

Create a directory for installation and all its future downloads.

```
[root@tecmint]# cd /usr/local
```

Now download latest **Nagios Plugins 2.1.2** package with **wget** command.

```
[root@tecmint]# wget http://nagios-plugins.sourceforge.net/
```

## Step 4: Extract Nagios Plugins

Run the following **tar** command to extract the source code tarball.

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After, extracting one new folder will appear in that directory.

```
[root@tecmint nagios]# ls -l
total 2640
drwxr-xr-x. 15 root 4096 Aug 23 2016
-rw-r--r--.  1 root    0 Aug 23 2016
```

## Step 5: Compile and Install Nagios Plugins

Next, compile and install using following commands

```
[root@tecmint nagios]# ./configure
[root@tecmint nagios]# make
[root@tecmint nagios]# make install
```

Set the permissions on the plugin directory.

```
[root@tecmint nagios]# chmod 755 /usr/local/nagios/libexec
```

## Step 6: Install Xinetd

Most of the systems, its by default installed. If not,

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using following **yum**  
command.

```
[root@tecmint nagios]# yum install nagios-nrpe-plugin
----- On Feb 26, 2016
[root@tecmint nagios]#
```

## Step 7: Install NRPE Plugin

Download latest **NRPE Plugin 3.0** packages with **wget** command.

```
[root@tecmint nagios]# wget http://nagios-plugins.org/download/nrpe-3.0.tar.gz
[root@tecmint nagios]#
```

Unpack the NRPE source code tarball.

```
[root@tecmint nagios]# tar xvfz nrpe-3.0.tar.gz
[root@tecmint nrpe-3.0]#
```

Compile and install the NRPE addon.

```
[root@tecmint nrpe-3.0]# ./configure --prefix=/usr
[root@tecmint nrpe-3.0]# make
```

Next, install the NRPE plugin daemon, and sample daemon config

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```
[root@tecmint nrpe-3
[root@tecmint nrpe-3
[root@tecmint nrpe-3
```

Install the NRPE daemon  
under xinetd as a service.

```
[root@tecmint nrpe-3
OR
[root@tecmint nrpe-3
```


Now open  
**/etc/xinetd.d/nrpe** file  
and add the **localhost**  
and **IP address** of the  
**Nagios Monitoring**  
**Server**.

```
only_from = 127.0.0.
```

Next, open **/etc/services**  
file add the following  
entry for the **NRPE**  
daemon at the bottom of  
the file.

```
nrpe          5666
```

Restart the xinetd  
service.



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## Step 8: Verify NRPE Daemon Locally

Run the following command to verify the NRPE daemon working correctly under xinetd.

```
[root@tecmint]# netstat -tlnp
tcp        0      0 0.0.0.0:5668 0.0.0.0:0    LISTENING
```

If you get output similar to above, means it working correctly. If not, make sure to check the following things.

- Check you've added nrpe entry correctly in **/etc/services** file
- The **only\_from** contains an entry for **"nagios\_ip\_address"** in the **/etc/xinetd.d/nrpe** file.
- The **xinetd** is installed and started.
- Check for the errors in the **system log** files for about **xinetd**



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problems.

Next, verify the NRPE daemon is functioning properly. Run the “**check\_nrpe**” command that was installed earlier for testing purposes.

```
[root@tecmint]# /usr
```

You will get a following string on the screen, it shows you what version of NRPE is installed:

```
NRPE v3.0
```

## Step 9: Configure Firewall Rules

Make sure that the **Firewall** on the local machine will allow the **NRPE** daemon to be accessed from remote servers. To do this, run the following iptables command.

```
----- On RE  
[root@tecmint]# iptable
```

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Run the following  
command to Save the  
new iptables rule so it will  
survive at system  
reboots.

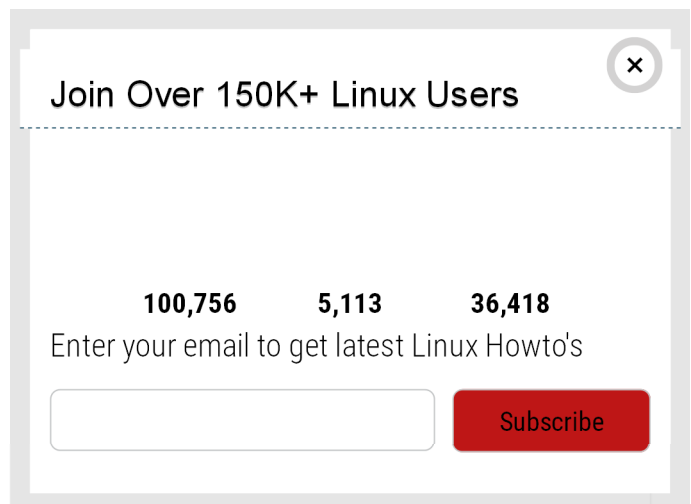
```
----- On RE  
[root@tecmint]# serv
```

## Step 10: Customize NRPE commands

The default NRPE  
configuration file that got  
installed has several  
command definitions that  
will be used to monitor  
this machine. The sample  
configuration file located  
at.

```
[root@tecmint]# vi /
```

The following are the  
default command  
definitions that are  
located at the bottom of  
the configuration file. For  
the time being, we  
assume you are using



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can check them by using  
the following commands.

```
# /usr/local/nagios/  
USERS OK - 1 users c
```

```
# /usr/local/nagios/  
OK - load average: 3
```

```
# /usr/local/nagios/  
DISK OK - free space
```

```
# /usr/local/nagios/  
PROCS CRITICAL: 297
```

```
# /usr/local/nagios/  
PROCS OK: 0 processe
```

You can edit and add new  
command definitions by  
editing the NRPE config  
file. Finally, you've  
successfully installed and  
configured NRPE agent  
on the **Remote Linux  
Host**. Now it's time to  
install a **NRPE**  
component and add  
some services on your  
**Nagios Monitoring  
Server...**

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## Monitoring Server

Now login into your  
**Nagios Monitoring  
Server**. Here you will need  
to do following things:

- Install the  
**check\_nrpe** plugin.
- Create a **Nagios  
command definition**  
using the **check\_nrpe**  
plugin.
- Create **Nagios host**  
and **add service  
definitions** for  
monitoring the  
remote Linux host.

### Step 1: Install NRPE Plugin

Go to the nagios  
download directory and  
download latest **NRPE  
Plugin** with **wget**  
command.

```
[root@tecmint]# cd /  
[root@tecmint]# wget
```

Unpack the NRPE source  
code tarball.

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```
[root@tecmint]# cd /usr
```

Compile and install the NRPE addon.

```
[root@tecmint]# ./configure  
[root@tecmint]# make  
[root@tecmint]# make
```

## Step 2: Verify NRPE Daemon Remotely

Make sure that the **check\_nrpe** plugin can communicate with the NRPE daemon on the remote **Linux** host. Add the **IP address** in the command below with the IP address of your **Remote Linux** host.

```
[root@tecmint]# /usr
```

You will get a string back that shows you what version of NRPE is installed on the remote host, like this:

```
NRPE v3.0
```

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time-out error, then check the following things.

- Make sure your firewall isn't blocking the communication between the **remote host** and the **monitoring host**.
- Make sure that the **NRPE** daemon is installed correctly under **xinetd**.
- Make sure that the **remote Linux** host firewall rules blocking the **monitoring server** from communicating to the **NRPE** daemon.

## Adding Remote Linux Host to Nagios Monitoring Server

To add a remote host you need to create a two new files "**hosts.cfg**" and "**services.cfg**" under

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location.

```
[root@tecmint]# cd /  
[root@tecmint]# touch  
[root@tecmint]# touch
```

Now add these two files  
to main Nagios  
configuration file. Open  
**nagios.cfg** file with any  
editor.

```
[root@tecmint]# vi /
```

Now add the two newly  
created files as shown  
below.

```
# You can specify in  
cfg_file=/usr/local/  
cfg_file=/usr/local/
```

Now open **hosts.cfg** file  
and add the **default host  
template name** and  
**define remote hosts** as  
shown below. Make sure  
to replace **host\_name**,  
**alias** and **address** with  
your remote host server  
details.

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```
## Default Linux Host
define host{
  name
  use
  check_period
  check_interval
  retry_interval
  max_check_attempts
  check_command
  notification_period
  notification_interval
  notification_options
  contact_groups
  register
}
## Default
define host{
  use
  host_name
  alias
  address
}
```

Next open **services.cfg**  
file add the following  
services to be monitored.

```
[root@tecmint]# vi /
```

```
define service{
  use
  host_name
  service_description
  check_command
}
define service{
  use
  host_name
  service_description
  check_command
```



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```
use
host_name
service_description
check_command
}
define service{
use
host_name
service_description
check_command
}
define service{
use
host_name
service_description
check_command
}
```

Now NRPE command definition needs to be created in **commands.cfg** file.

```
[root@tecmint]# vi /
```

Add the following NRPE command definition at the bottom of the file.

```
#####
# NRPE CHECK COMMAND
#
# Command to use NRPE
#####
define command{
command_name check_r
command_line $USER1$
}
```

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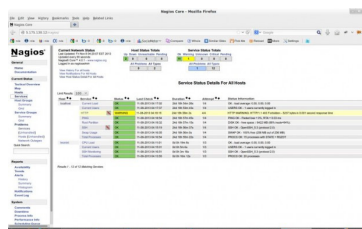
Configuration files for any errors.

```
[root@tecmint]# /usr
Total Warnings: 0
Total Errors: 0
```

Restart Nagios:

```
[root@tecmint]# serv
```

That's it. Now go to **Nagios Monitoring Web** interface at "<http://Your-server-IP-address/nagios>" or "<http://FQDN/nagios>" and Provide the username "**nagiosadmin**" and **password**. Check that the **Remote Linux Host** was added and is being monitored.



*Nagios Remote Host Monitoring*

That's it! for now, in our my up-coming article I will show you how to add

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monitoring Server. If you're facing any difficulties while adding remote host to **Nagios**. Please do comment your queries or problem via comment section, till then stay tuned to **Tecmint.com** for more such valuable articles.

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I am Ravi

Saive, creator of TecMint. A Computer Geek and Linux Guru who loves to share tricks and tips on Internet. Most Of My Servers runs on Open Source Platform called Linux. **Follow Me:** [Twitter](#), [Facebook](#) and [Google+](#)

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**Nick**  August 12, 2016 at 1:09 am  
I get to the part where I need to  
make install-xinetd and run into an  
issue...

```
[root@ip-172-24-2-0 nrpe-3.0]#  
make install-xinetd  
make: *** No rule to make target  
`install-xinetd'. Stop.
```


So I try to make install-inetd and I  
get it...

```
[root@ip-172-24-2-0 nrpe-3.0]#  
make install-inetd  
No inetd file to install  
make: *** [install-inetd] Error 1
```

This is on Centos 6.8. Any ideas?


Reply

**Ravi Saive**

★  August 12, 2016 at 10:57 am  
@Nick,

Have you installed Xinetd  
package before running that  
command? If no, install it or  
else it seems your NRPE  
installation was not  
successful..

Reply

**mukesh**  July 20, 2016 at 7:14 pm  
bash: /usr/local/nagios/libexec  
/check\_nrpe: No such file or  
directory

I try to install nrpe plugin into nagios  
server. while installation no any  
coming error. when try to run below  
command

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IP). then coming error bash:  
/usr/local/nagios/libexec  
/check\_nrpe: No such file or  
directory. Please help me.

Reply

**mukesh**  July 20, 2016 at 7:07 pm  
bash: /usr/local/nagios/libexec  
/check\_nrpe: No such file or  
directory


Please help me.

Reply

**Vivek Patil**  July 7, 2016 at 3:09 pm  
I am getting error when I ran  
/usr/local/nagios/libexec  
/check\_nrpe -H localhost  
CHECK\_NRPE: Error – Could not  
complete SSL handshake.

Reply


**Ravi Saive**

★  July 8, 2016 at 11:30 am  
@Vivek,

Please check that you've  
added your Nagios Server IP  
address in nrpe.cfg file  
under Xinetd..

Reply

**Mukesh**

 July 21, 2016 at  
10:41 am  
Hi ,  
I installed nrpe at  
nagios server. install  
has been  
successful. but  
when i try to  
communicate with  
client host with  
below command

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```
-H 192.168.0.57
```

then coming below  
message. Please  
help me.


```
/usr/local/nagios
```

```
/libexec
```

```
/check_nrpe: No  
such file or directory
```

Reply


**Ravi Saive**

★  July 21,  
2016 at 12:34  
pm  
@Mukesh,

It seems  
that your  
Nagios  
NRPE plugin  
installation  
was not  
successful,  
that's the  
reason you  
getting such  
error, I  
suggest you  
to try the  
installation  
again and  
see.

Reply

**Mukesh**

 July  
21,  
2016  
at  
4:54  
pm  
can

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★ **Ravi Saive**

⊙  
July  
21,  
2016  
at  
5:45  
pm  
@M

The  
insta  
instr  
are  
alrea  
step  
just  
follo  
care  
and  
insta  
it  
prop

**mukesh**

⊙ July 22, 2016 at  
3:42 pm  
connect to address  
192.168.0.121 port  
5666: Connection  
refused

Reply

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pm  
@Mukesh,  
  
The error is  
clear that  
the  
connection  
id refusing,  
you need to  
open the  
port 5666  
on the  
firewall to  
function  
properly..  
  
Reply

**sandy**  June 25, 2016 at 12:23 pm  
Hello,

When we install nagios agent in the client machine we will get lot of checks in the directory /usr/local/nagios/libexec and also few checks defined in the **/etc/nrpe.cfg** file right..

But is it necessary to define these checks in the **nrpe.cfg** file??

because there are only 7 predefined checks in my **nrpe.cfg** file and when I checked the front end Internet Explorer in the nagiosadmin I can see the graphical interface is showing 10 checks.

I found out that these checks are defined in the nagios server for that host.

I think we need only to define check in **nrpe.cfg** of the agent for custom checks..

what is the difference between

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eximmail queue is custom check  
atnd is defined in the nrpe.cfg of  
agent. But check\_http is not defined  
in the nrpe.cfg of agent...

==

```
define service{
use local-service ; Name of service
template to use
host_name harmonicland
service_description HTTP
check_command check_http
notifications_enabled 0
}
```

```
define service{
use local-service ; Name of service
template to use
host_name harmonicland
service_description eximqueue
check_command
check_nrpe!check_eximqueue
notifications_enabled 0
}
```

====

So i think we need to check

Reply

**Ravi Saive**


★ ☉ June 27, 2016 at 11:27 am  
@Sandy,

Yes you 100% right, these  
nagios checks are installed  
under /usr/local/nagios  
/libexec and checks are  
defined in **/etc/nrpe.cfg** file,  
yes you can define your own  
checks in nrpe.cfg file under  
client machine.

Reply

**chandrakumar**

☉ June 11, 2016 at 1:00 pm  
Now open /etc/xinetd.d/nrpe file



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Server.

only\_from = 127.0.0.1 localhost

i don't know the nagios ip address

,how can i find it?

and the local host is mine or the one

which created above (nagios)?

Reply

**Ravi Saive**

★ ☉ June 21, 2016 at 11:30 am  
@Chandra,

Use [ifconfig](#) or [ip command](#)  
to find out your Nagios  
server IP address.

Reply

**Ashok** ☉ June 3, 2016 at 6:47 pm

Hi Ravi,

Do we need to install NRPE and  
Nagios Plugins in both of the Nagios  
monitor server and remote linux  
system?

Reply

**Ravi Saive**

★ ☉ June 4, 2016 at 11:20 am  
@Ashok,

NRPE and Nagios plugins in  
Nagios monitoring server  
and only NRPE plugin is  
enough on remote Linux  
server.

Reply

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I'm adding four ubuntu host in the nagios server but all the four host showing same root partition and all the services

Reply


**Ravi Saive**

★  April 28, 2016 at 1:28 pm  
@Nagaraj,

Have you add all Ubuntu servers to Nagios hosts.cfg file? and defined services for these 4 servers in services.cfg file? also on each Ubuntu server in nrpe.cfg file have you defined proper root device name and all services? Please check these things first and confirm..

Reply

**Nagaraj**

 April 28, 2016 at 2:37 pm

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
```

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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

where i did the  
mistake and where  
the hosts.cfg file  
located

Reply


**Ravi Saive**

★  April 29,  
2016 at 11:59  
am  
@Nagaraj,

Please  
follow the  
instructions  
carefully,  
you will  
know where  
is hosts.cfg  
and  
services.cfg  
file....

Reply

**Nagaraj**

 April 28, 2016 at  
2:41 pm  
where hosts.cfg file

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1)copy localhost.cfg  
file to newhost.cfg

and edit the  
newhost.cfg file and  
change the host  
name in the file to  
newhost and also i  
added the entry in  
the nrpe.cfg file also

Reply

**Balaraju**  April 26, 2016 at 10:00 am  
@Ravi,

I have installed client in ubuntu. i  
followed below link to install the  
nrpe in cleint.

<http://sharadchhetri.com/2013/06/11/how-to-install-and-configure-nagios-nrpe-client-in-ubuntu-with-apt-get-command/>

```
[root@localhost ~]# /usr/local  
/nagios/libexec/check_nrpe -H  
xxx.xxx.xx.xxx  
NRPE v2.15  
[root@localhost ~]# /usr/local  
/nagios/libexec/check_nrpe -H  
xxx.xxx.xx.xxx -c check_load  
OK - load average: 0.03, 0.08,  
0.13|load1=0.030;15.000;30.000;0;  
load5=0.080;10.000;25.000;0;  
load15=0.130;5.000;20.000;0;
```

but it is not displayed on console.  
We have added command also in  
/usr/local/nagios/etc/objects  
/command.cfg like below

```
define command{  
command_name check_nrpe  
command_line /usr/local/nagios  
/libexec/check_nrpe -H
```

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```
}  
  
define command{  
    command_name check_load  
    command_line /usr/local/nagios  
/libexec/check_load -H  
$HOSTADDRESS$ -w $ARG1$ -c  
$ARG2$  
}  
}
```


Reply

**Ravi Saive**

★  April 26, 2016 at 10:54 am  
@Balaraju,

You should all add those  
check commands in remote  
nrpe.cfg file under /etc  
directory to display on the  
web..


Reply

**Balaraju**  April 22, 2016 at 3:28 pm  
Hi Team,

I did all the configuration as above .  
But i am getting the error as below  
on console  
(No output on stdout) stderr:  
execvp(/usr/lib/nagios/plugins  
/check\_nrpe, ...) failed. errno is 2:  
No such file or directory

Reply

**Ravi Saive**

★  April 23, 2016 at 10:59 am  
@balaraju,

Have you changed the  
default Nagios installation  
location? the default  
location for nagios-plugins  
source will be **/usr/local**  
**/nagios/libexec**, here all  
plugins installs. The error

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nagios-plugins sources  
while compiling...

Reply

**Vinod K**

⌚ June 23, 2016 at  
12:11 pm

I was also having  
the same problem,  
the solution which  
worked for me was  
renamed /usr/local  
/nagios/libexec to  
some temporary  
name /usr/local  
/nagios  
/libexec\_temp and  
re-compile nrpe-2.15  
which again created  
/usr/local/nagios  
/libexec/ folder with  
check\_nrpe file, and  
then I moved all files  
within /usr/local  
/nagios  
/libexec\_temp  
directory to  
/usr/local/nagios  
/libexec/

I hope this helps,  
thanks :-)

Reply

**Ravi Saive**

★ ⌚ June 23,  
2016 at 12:53  
pm  
@Vinod,

Thanks for  
sharing,  
hope it will

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face similar

issues...

Reply

**Vinod K**

⌚ June 23, 2016 at 12:05 pm

Very nice article, I was able to setup Nagios host & multiple servers monitor fairly quickly, since this article is a bit old I used some latest available softwares, e.g nagion-4.1.1, nagios plugins-2.1.1

Reply

**Ravi Saive**

★ ⌚ June 23, 2016 at

12:54 pm

@Vinod,

Yes, this article is a bit old, but I am in process of updating it to most recent version, just give me some time to prepare, test and implement it..

Reply

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