

NRPE server for IPFire

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by **twilson** • December 25th, 2014, 4:18 pm

Hello everyone,

first of all a Merry Christmas and a Happy New Year!

I am the administrator of a relatively dynamic, heterogeneous network (30-40 clients, sometimes more) in Germany.

I have been using IPFire (red, green, blue, orange, squid, url filter, snort, guardian) as a firewall for about two years and am very satisfied with it.

In order to have a better view of the network, I have set up a monitoring system with Icinga and NRPE in the last few months, but so far it has not been possible for me to install the NRPE server on IPFire, this is only included in the "nagios" package included, which is too extensive for me because it still has web interface etc. in tow.

Would it be possible to move the NRPE server and an example configuration into a separate package in order to circumvent this problem?  
(With Ubuntu this is solved pretty well, there is the package

```
CODE: SELECT ALL
nagios
```

for the complete monitoring server and

```
CODE: SELECT ALL
nagios-nrpe-server
```

only for the NRPE server, with an example configuration included.)

Many greetings and thanks in advance,  
Timothy Wilson

**twilson**  
Posts: 457  
Joined: October 31st, 2014, 9:26 am  
Location: Germany

**Re: NRPE server for IPFire** 66

by **pat\_2015** • March 19th, 2015, 4:41 pm

You can also do it like this:

Install IPFire on a test computer with nagios\_nrpe and the dependent packages.

Then copy the following files to your IPFire

```
/usr/bin/nrpe
/usr/lib/nagios/*
```

Create init script (/etc/init.d/nrpe)

```
#!/bin/sh
# Begin $rc_base / init.d / nrpe

./etc/sysconfig/rc
.$rc_functions

NRPEBIN=/usr/bin/nrpe
NRPECFG=/etc/nagios/nrpe.cfg

case "$1" in
start)
boot_mesg "Starting nrpe ..."
loadproc $NRPEBIN -c $NRPECFG -d
;;
stop)
boot_mesg "Stopping nrpe ..."
killproc $NRPEBIN
rm -f /var/run/nrpe.pid
;;
restart)
$0 stop
sleep 1
$0 start
;;
status)
statusproc $NRPEBIN
;;
*)
echo "Usage: $0 {start | stop | restart | status}"
exit 1
;;
esac

# End $rc_base / init.d / nrpe
```

Then the links

```
ln -s ../init.d/nrpe /etc/rc.d/rc3.d/S40nrpe
ln -s ../init.d/nrpe /etc/rc.d/rc6.d/K20nrpe
ln -s ../init.d/nrpe /etc/rc.d/rc6.d/K20nrpe
```

And the nrpe.cfg config can be copied here /etc/nagios/nrpe.cfg

**pat\_2015**  
Posts: 4th  
Joined: March 19th, 2015, 4:04 pm

**Re: NRPE server for IPFire** 66

by **twilson** • March 26th, 2015, 1:51 pm

Hello pat\_2015,

thanks for the instructions. I'll try it out in the next few days, if there is any new information, I'll get in touch here.

Until then,  
best regards, Timothy Wilson

**twilson**  
Posts: 457  
Joined: October 31st, 2014, 9:26 am  
Location: Germany

**Re: NRPE server for IPFire** 66

by **twilson** • April 15th, 2015, 7:36 am

Hello pat\_2015,

tried it out.

1. You have to use /etc/init.d/nrpe with

```
CODE: SELECT ALL
chmod +x /etc/init.d/nrpe
```

Make it executable before you can do anything with the script.

2. The init script does not seem to work. I copied NRPE and adjusted the configuration files. If I now with

```
CODE: SELECT ALL
/etc/init.d/nrpe start
```

wants to start the daemon, the command gives me an "OK", but the status command claims that NRPE is not running.

Do you know why this is and what I have to change? Kind

regards,  
Timothy Wilson

**twilson**  
Posts: 457  
Joined: October 31st, 2014, 9:26 am  
Location: Germany

**Re: NRPE server for IPFire** 66

by **pat\_2015** • April 16th, 2015, 9:43 am

Hello Timothy

Could still be the authorizations or the configured user in /etc/nagios/nrpe.cfg.

In the folder /usr/lib/nagios all scripts should be on rwxr-xr-x nobody: nobody. The links to lrwxrwxrwx root: root. check\_icmp and check\_dhcp r-sr-xr-x root: nobody

```
/usr/bin/nrpe rwxr-xr-x root: root
```

You have a working nrpe.cfg attached (nrpe\_user = nobody and nrpe\_group = users). You only have to add your Nagios server to allowed\_hosts. And set dont\_blame\_nrpe = 0 back to 1 if you are using transfer parameters.

Then it should actually work

ATTACHMENTS

[nrpe.txt](#)  
(7.43 KiB) Downloaded 323 times

**pat\_2015**  
Posts: 4th  
Joined: March 19th, 2015, 4:04 pm

**Re: NRPE server for IPFire** 66

by **twilson** • April 25th, 2015, 3:53 pm

Hello pat\_2015,

so, I've tried your instructions.

The NRPE daemon starts and can be reached from outside. However, there are still errors related to the plugins:

```
CODE: SELECT ALL
root@icinga: /usr/lib/nagios/plugins# ./check_nrpe -H [IPFire-IP]
NRPE v2.12
root@icinga: /usr/lib/nagios/plugins# ./check_nrpe -H [IPFire-IP] -c check_load
NRPE: Unable to read output
```

Why is that?

To the best of my knowledge, I've set the permissions as you described them; the /etc/nagios/nrpe.cfg also comes from you.

Greetings,  
Timothy Wilson

**twilson**  
Posts: 457  
Joined: October 31st, 2014, 9:26 am  
Location: Germany

**Re: NRPE server for IPFire** 66

by **pat\_2015** • April 29th, 2015, 5:37 pm

Hello Timothy

Ok, then the agent will run. The rest should work that way too.

What kind of message do you get when you run the check\_load local on the IPFire?

```
/usr/lib/nagios/check_load -w 3,3,3 -c 10,10,10
```

greetings

**twilson**  
Posts: 457  
Joined: October 31st, 2014, 9:26 am  
Location: Germany

**Re: NRPE server for IPFire** 66

by **twilson** • April 29th, 2015, 5:37 pm

Hello pat\_2015,

the command returns the following:

```
CODE: SELECT ALL
[root@ipfire ~]# /usr/lib/nagios/check_load -w 3,3,3 -c 10,10,10
OK - load average: 0.50, 0.25, 0.24 | load1=0.500;3.000;10.000;0; load5=0.250;3.000;10.000;0; load15=0.240;3.000;10.000;0;
[root@ipfire ~]#
```

Greetings,  
Timothy Wilson

**twilson**  
Posts: 457  
Joined: October 31st, 2014, 9:26 am  
Location: Germany

**Re: NRPE server for IPFire** 66

by **pat\_2015** • May 22nd, 2015, 2:13 pm

Hello Timothy

That looks pretty good so far. The agent is running and the return values from the scripts are ok too.

Check the permissions again.

In the folder /usr/lib/nagios all scripts should be on rwxr-xr-x nobody: nobody. The links to lrwxrwxrwx root: root. check\_icmp and check\_dhcp r-sr-xr-x root: nobody

```
/usr/bin/nrpe rwxr-xr-x root: root
```

user and group in /etc/nagios/nrpe.cfg

```
nrpe_user = nobody
nrpe_group = users
```

And the paths in nrpe .cfg.

```
command [check_users] = /usr/lib/nagios/check_users -w 5 -c 10
command [check_load] = /usr/lib/nagios/check_load -w 3,3,3 -c 10,10,10
```

The easiest way is this and then you don't have to check the authorizations for a long time:  
On the test system where the files are originally from

```
cd /
tar -cf nagios.tar usr/lib/nagios/*
Then copy the nagios.tar to the productive system in /
tar -xvf nagios.tar
```

try that.

Greeting

**pat\_2015**  
Posts: 4th  
Joined: March 19th, 2015, 4:04 pm

**Re: NRPE server for IPFire** 66

by **twilson** • May 23rd, 2015, 1:47 pm

Hello pat\_2015,

I just set up NRPE on a second (ARM) system, created and adjusted the configuration file and set the symlinks.

The result is interesting: NRPE runs without changing any authorizations!

Here is the output on the command line:

```
CODE: SELECT ALL
[root@firewall ~]# ls -lah /usr/lib/nagios/
total 1.6M
drwxr-xr-x 2 nobody nobody 4.0K May 22 16:47 .
drwxr-xr-x 36 root root 20K May 23 15:45 ..
-rwxr-xr-x 1 nobody nobody 29K May 9 06:46 check_opt
-rwxr-xr-x 1 nobody nobody 2.3K May 9 05:44 check_breeze
-rwxr-xr-x 1 nobody nobody 35K May 9 06:46 check_by_ssh
lrwxrwxrwx 1 root root 9 May 9 05:44 check_clamd -> check_tcp
-rwxr-xr-x 1 nobody nobody 22K May 9 06:46 check_cluster
-r-sr-xr-x 1 root nobody 36K May 9 06:46 check_dhcp
-rwxr-xr-x 1 nobody nobody 31K May 9 06:46 check_dig
-rwxr-xr-x 1 nobody nobody 47K May 9 06:46 check_disk
-rwxr-xr-x 1 nobody nobody 8.0K May 9 05:44 check_disk_smb
-rwxr-xr-x 1 nobody nobody 36K May 9 06:46 check_dns
```

I'll see if it works on my other (i686) system later.

66

The easiest way is this and then you don't have to check the authorizations for a long time:  
On the test system where the files are originally from

```
cd /
tar -cf nagios.tar usr/lib/nagios/*
Then copy the nagios.tar to the productive system in /
tar -xvf nagios.tar
```

This is only possible if the architecture of the source and target system is the same.

Greetings,  
Timothy Wilson

**twilson**  
Posts: 457  
Joined: October 31st, 2014, 9:26 am  
Location: Germany