

# **Adding a Host in Nagios**

Commands with green font represents master, white font terminal represents slave. Installing NRPE on slave:

**Step 1:** On slave run the following command.

```
ubuntu@ip-172-31-35-225:~$ sudo apt-get update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/universe Sources [9051 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security InRelease [83.2 kB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/main Sources [829 kB]
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/multiverse Sources [181 kB]
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/restricted Sources [5324 B]
```

# **Step 2:** Install the required plugins

```
ubuntu@ip-172-31-35-225:~$ sudo apt-get install nagios-nrpe-server nagios-plugins
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
    libarchive13 libavahi-client3 libavahi-common-data libavahi-common3 libcups2 libdbi1 libjansson4 libldb1
    libmysqlclient20 libnet-snmp-perl libpq5 libpython-stdlib libpython2.7 libpython2.7-minimal libpython2.7-
    libsensors4 libsmbclient libsnmp-base libsnmp30 libtalloc2 libtdb1 libtevent0 libtirpc1 libwbclient0
    monitoring-plugins monitoring-plugins-basic monitoring-plugins-common monitoring-plugins-standard mysql-c
    python-crypto python-ldb python-minimal python-samba python-talloc python-tdb python2.7 python2.7-minimal
    samba-common-samba-common-bin samba-libs smbclient smmp
```

# **Step 3:** Open the configuration file as shown below:

```
wbuntu@ip-172-31-35-225:~
ubuntu@ip-172-31-35-225:~$ sudo nano /etc/nagios/nrpe.cfg
ubuntu@ip-172-31-35-225:~$ []
```

Find the below given line and in place of XXX add your **master IP** allowed\_hosts=127.0.0.1, XXX



```
# NRPE GROUP
# This determines the effective group that the NRPE daemon should run as.
# You can either supply a group name or a GID.
# NOTE: This option is ignored if NRPE is running under either inetd or xinetd nrpe_group=nagios

# ALLOWED HOST ADDRESSES
# This is an optional comma-delimited list of IP address or hostnames
# that are allowed to talk to the NRPE daemon. Network addresses with a bit mask
# (i.e. 192.168.1.0/24) are also supported. Hostname wildcards are not currently
# supported.
# Note: The daemon only does rudimentary checking of the client's IP
# address. I would highly recommend adding entries in your /etc/hosts.allow
# file to allow only the specified host to connect to the port
# you are running this daemon on.
# NOTE: This option is ignored if NRPE is running under either inetd or xinetd
allowed_hosts=127.0.0.1,18.225.34.109
```

# **Step 4:** Start NRPE service as shown below:

```
ubuntu@ip-172-31-35-225:~
ubuntu@ip-172-31-35-225:~$ sudo /etc/init.d/nagios-nrpe-server restart
[ ok ] Restarting nagios-nrpe-server (via systemctl): nagios-nrpe-server.service.
ubuntu@ip-172-31-35-225:~$ []
```



# **Install check nrpe on Master**

### **Step 1:** Now we need to install check\_nrpe on Master.

```
ubuntu@ip-172-31-32-221:~
ubuntu@ip-172-31-32-221:~$ sudo apt-get update
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [461 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security InRelease [83.2 kB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [704 kB]
Fetched 1412 kB in 1s (2502 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-32-221:~$ [
```

## **Step 2:** Install the following package.

```
wbuntu@ip-172-31-32-221:~
ubuntu@ip-172-31-32-221:~$ sudo apt-get install -y autoconf automake gcc libc6 libmcrypt-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
libc6 is already the newest version (2.27-3ubuntu1).
make is already the newest version (4.1-9.1ubuntu1).
make set to manually installed.
gcc is already the newest version (4:7.3.0-3ubuntu2.1).
```

# **Step 3:** Get inside tmp.

```
dbuntu@ip-172-31-32-221:/tmp
ubuntu@ip-172-31-32-221:~$ cd /tmp
ubuntu@ip-172-31-32-221:/tmp$
```

#### **Step 4:** Download the source.

```
ubuntu@ip-172-31-32-221:/mmp
ubuntu@ip-172-31-32-221:/tmp$ wget --no-check-certificate -O nrpe.tar.gz https://github.com/NagiosEnterprises/
/nrpe-3.2.1.tar.gz
--2018-12-19 14:54:06-- https://github.com/NagiosEnterprises/nrpe/archive/nrpe-3.2.1.tar.gz
Resolving github.com (github.com)... 192.30.253.112, 192.30.253.113
Connecting to github.com (github.com)|192.30.253.112|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://codeload.github.com/NagiosEnterprises/nrpe/tar.gz/nrpe-3.2.1 [following]
--2018-12-19 14:54:06-- https://codeload.github.com/NagiosEnterprises/nrpe/tar.gz/nrpe-3.2.1
Resolving codeload.github.com (codeload.github.com)... 192.30.253.120, 192.30.253.121
Connecting to codeload.github.com (codeload.github.com)|192.30.253.120|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [application/x-gzip]
Saving to: 'hrpe.tar.gz'
```



**Step 5:** Untar the file

## **Step 6:** Then execute the following command.

```
ubuntu@ip-172-31-32-221:/tmp/nrpe-nrpe-3.2.1
ubuntu@ip-172-31-32-221:/tmp/nrpe-nrpe-3.2.1$ ./configure
```

It takes some time to configure.

```
*** Configuration summary for nrpe 3.2.1 2017-09-01 ***:

General Options:

NRPE port: 5666

NRPE user: nagios

NRPE group: nagios

Nagios user: nagios

Nagios group: nagios
```

## **Step 7:** Run the check\_nrpe command.



### **Step 8:** Now install plugins.

```
ubuntu@ip-172-31-32-221:/tmp/nrpe-nrpe-3.2.1$ sudo make install-plugin
cd ./src/; make install-plugin
make[1]: Entering directory '/tmp/nrpe-nrpe-3.2.1/src'
/usr/bin/install -c -m 755 -d /usr/local/nagios/bin
/usr/bin/install -c -m 755 ../uninstall /usr/local/nagios/bin/nrpe-uninstall
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/libexec
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/libexec
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/libexec
/usr/bin/install -c -m 775 -o nagios -g nagios check_nrpe /usr/local/nagios/libexec
/usr/bin/install -c -m 775 -o nagios -g nagios check_nrpe /usr/local/nagios/libexec
make[1]: Leaving directory '/tmp/nrpe-nrpe-3.2.1/src'
ubuntu@ip-172-31-32-221:/tmp/nrpe-nrpe-3.2.1$ [
```

# **Step 9:** We will check the connection as shown below:

```
ubuntu@ip-172-31-32-221:~
ubuntu@ip-172-31-32-221:~$ /usr/local/nagios/libexec/check_nrpe -H 18.220.227.9
NRPE v3.2.1
ubuntu@ip-172-31-32-221:~$ []
```

Now we need to make the following configuration file before we observe the connection.

# **Step 10:** Make a configuration file as shown:

```
ubuntu@ip-172-31-32-221:~
ubuntu@ip-172-31-32-221:~$ sudo nano /usr/local/nagios/etc/servers/Host1.cfg[]
```

Add the below given content there.

After adding the content, the configuration file should look like this:



# **Step 11:** Now verify the configuration again.

```
wbuntu@ip-172-31-32-221:~$ sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
Nagios Core 4.4.2
Copyright (c) 2009-present Nagios Core Development Team and Community Contributors
Copyright (c) 1999-2009 Ethan Galstad
Last Modified: 2018-08-16
License: GPL
```

```
Checking objects...
       Checked 9 services.
       Checked 2 hosts.
       Checked 1 host groups.
       Checked 0 service groups.
       Checked 1 contacts.
       Checked 1 contact groups.
       Checked 24 commands.
       Checked 5 time periods.
       Checked 0 host escalations.
       Checked 0 service escalations.
Checking for circular paths...
       Checked 2 hosts
       Checked 0 service dependencies
       Checked 0 host dependencies
       Checked 5 timeperiods
Checking global event handlers...
Checking obsessive compulsive processor commands...
Checking misc settings...
Total Warnings: 0
Total Errors:
```

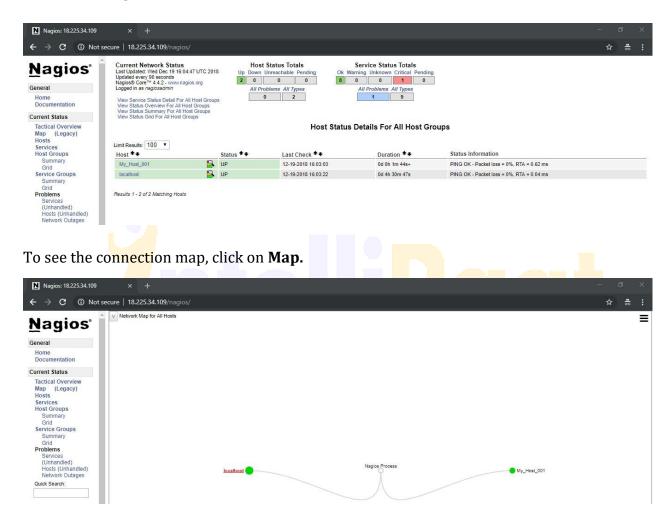
Everything looks fine!

## **Step 12:** Start Nagios.

```
ubuntu@ip-172-31-32-221:~$ sudo service nagios restart
ubuntu@ip-172-31-32-221:~$ [
```



**Step 13:** Go to the browser. And you can see the slave is added to the connection with a PING service running.



**Congratulations!** You have successfully setup Nagios Master-Slave Cluster.