

Nagios NRPE

Downloading Nagios Core:

<https://www.nagios.org/downloads/nagios-core/thanks/?t=1500128149>

Installing Nagios Core:

Installation is really easy just follow the guide:

https://assets.nagios.com/downloads/nagioscore/docs/Installing_Nagios_Core_From_Source.pdf#_ga=2.210947287.396962911.1500126138-104828703.1500126138

When installing nagios on an ubuntu 17.04 server i had to cp /usr/lib/nagios/plugins/check_nrpe /usr/local/nagios/libexec/check_nrpe and apt-get install nagios-nrpe-plugin

Once it's installed, create a host and a service and the commands.

Lets start by making sure nagios sees the files we are going to create for our hosts and services.

```
vi /usr/local/nagios/etc/nagios.cfg
```

```
“ cfg_file=/usr/local/nagios/etc/servers/hosts.cfg  
  cfg_file=/usr/local/nagios/etc/servers/services.cfg
```

```
mkdir /usr/local/nagios/etc/servers/
```

We will start by creating a template we can use for our hosts, then below we will create the host and then create the services for that host.

```
vim /usr/local/nagios/etc/servers/hosts.cfg
```

```
define host{  
    name                linux-box                ; Name of this template
```

```

use                generic-host                ; Inherit default values
check_period       24x7
check_interval     5
retry_interval     1
max_check_attempts 10
check_command      check-host-alive
notification_period 24x7
notification_interval 30
notification_options d,r
contact_groups     admins
register           0                          ; DONT REGISTER THIS - ITS A TEMPLATE
}

define host{
use                linux-box                ; Inherit default values from a
template
host_name          linux-server-01[] ; The name we're giving to this server
alias              Linux Server 01      ; A longer name for the server
address            192.168.1.100        ; IP address of Remote Linux host
}

```

```
vim /usr/local/nagios/etc/servers/services.cfg
```

```

define service{
use                generic-service
host_name          linux-server-01
service_description CPU Load
check_command      check_nrpe!check_load
}

```

```
vi /usr/local/nagios/etc/objects/commands.cfg
```

The -H will be for the host it will connect to (192.168.1.100) defined in the host.cfg, the -c will be the name specified on the remote host inside the /etc/nrpe.cfg

```

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

```

Verify nagios config for errors before restarting.

```
/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
```

Restart the service

```
service nagios restart
```

Remote host:

now lets install the NRPE plugins and add a few plugins to the config file.

On Ubuntu:

```
apt-get install nagios-nrpe-server nagios-plugins-basic
```

For CentOS:

To view the list of plugins you can install:

```
yum --enablerepo=epel -y list nagios-plugins*
```

```
yum install nrpe nagios-plugins-dns nagios-plugins-load nagios-plugins-swap nagios-plugins-disk nagios-plugins-procs
```

Now we need to add the nagios server (192.168.1.101) and the commands it can execute

```
vim /etc/nagios/nrpe.cfg
```

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

```
allowed_hosts=127.0.0.1,192.168.1.101
```

On Ubuntu:

```
systemctl enable nagios-nrpe-server  
systemctl restart nagios-nrpe-server
```

On Centos:

```
systemctl enable nrpe
systemctl restart nrpe
```

Check in CLI

```
/usr/local/nagios/libexec/check_nrpe -n -H 10.1.1.1
```

Or on older versions

```
/usr/lib/nagios/plugins/check_nrpe
```

Other NRPE commands:

```
command[check_ping]=/usr/local/nagios/libexec/check_ping 8.8.8.8 -w 50,50% -
c 100,90%
command[check_vda]=/usr/lib64/nagios/plugins/check_disk -w 20% -c 10% -p
/dev/vda1
command[check_swap]=/usr/local/nagios/libexec/check_swap -w 10% -c 5%
command[check_raid]=/usr/local/nagios/libexec/check_raid
```

tcp_check

```
define service{
    use generic-service
    host_name media-server
    service_description Check Emby
    check_command check_tcp!8096
}
```

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