Server: Nagios XI CentOS – IP: 172.16.171.150

Mình down phiên bản VMWare NagiosXI, import vào Vmware là chạy ngay

https://www.nagios.com/downloads/nagios-xi/vmware/

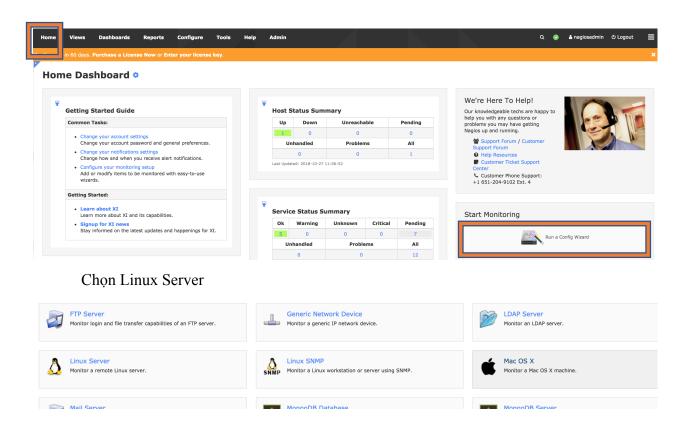
Còn ai xài bản Core thì đừng hỏi mình cách sử dụng nhé

Agent: Ubuntu – IP: 172.16.171.160

Mình sử dụng Ubuntu 16.04

1. Kết nối Agent tới Server

Server



Cấu hình

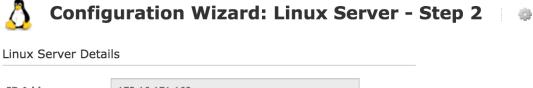
Step 1: Thiết lập IP của Agent



Configuration Wizard: Linux Server - Step 1

Linux Server Info	rmation
IP Address:	172.16.171.160
	The IP address or FQDNS name of the Linux server you'd like to monitor
Linux Distribution:	Ubuntu \$
	The Linux distribution running on the server you'd like to monitor.
∢ Back Next >	

Step 2: Cấu hình Agent Name + Download file cài đặt agent



IP Address:	172.16.171.160
Operating System:	②
	Ubuntu
Host Name:	Ubuntu Agent
	The name you'd like to have associated with this Linux server.
Linux Agent	
You will need to install	an agent on the Linux server in order to monitor its metrics.
Agent Download:	Download Agent
Agent Install Instructions: Agent Installation Instructions	
SSL Encryption:	Enabled (Default) \$

Determines whether or not data between the Nagios XI server and Linux agent is encrypted. **Note**: Legacy NRPE installations may require that SSL support be disabled.

Next -> Finish

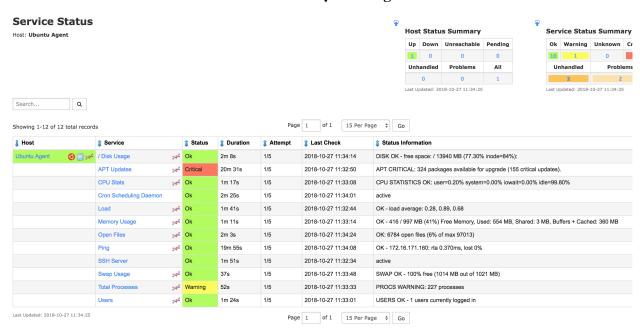
Copy file cài đặt agent vào máy agent

Agent

```
agent@agent-virtual-machine:~$ cd Desktop/
agent@agent-virtual-machine:~/Desktop$ tar -xzvf linux-nrpe-agent.tar.gz

agent@agent-virtual-machine:~/Desktop$ cd linux-nrpe-agent/
agent@agent-virtual-machine:~/Desktop/linux-nrpe-agent$ chmod +x fullinstall
agent@agent-virtual-machine:~/Desktop/linux-nrpe-agent$ sudo ./fullinstall
```

Vào Server: Home -> Host Status -> Chọn host agent để xem



2. Cài đặt Plugin để chạy Script trên agent

Step 1: [Agent Side]

apt-get install -y perl nagios-nrpe-server useradd nrpe && update-rc.d nagios-nrpe-server defaults

```
agent@agent-virtual-machine: ~/Desktop

agent@agent-virtual-machine: ~/Desktop$ sudo apt-get install -y perl nagios-nrpe-server

[sudo] password for agent:

agent@agent-virtual-machine: ~/Desktop$ sudo useradd nrpe && update-rc.d nagios-nrpe-server defaults
```

Step 2: [Agent Side] Copy script của thầy vào thư mục /usr/lib/nagios/plugins/

```
agent@agent-virtual-machine:/usr/lib/nagios/plugins$ ls NagiosCheckFolder.pl
NagiosCheckFolder.pl
agent@agent-virtual-machine:/usr/lib/nagios/plugins$ chmod +x NagiosCheckFolder.pl
```

Lưu ý: Nagios chỉ cho phép ta print 1 lần – đó chính là status của nó cùng với exit code

```
exit(0) = OK
exit(1) = Warning
```

```
if ($changed == 1 || $renamed == 1 || scalar(@deletedfiles) != 0 || scalar(@addedfiles) != 0) {
    print "WARNING - Folder has changed!!";
    exit(1);
}

if ($nochange == 0) {
    print "OK - Nothing changed!!";
    exit(0);
}
```

Step 3: [Agent Side] Xoá file /etc/nagios/nrpe.cfg và tạo file mới với nội dung

agent@agent-virtual-machine:~/Desktop\$ sudo rm /etc/nagios/nrpe.cfg && nano /etc/nagios/nrpe.cfg

```
GNU nano 2.5.3

log_facility=daemon
pid_file=/var/run/nagios/nrpe.pid
server_port=5666
nrpe_user=nrpe
nrpe_group=nrpe

pllowed_hosts=172.16.171.150
dont_blame_nrpe=1
debug=0
command_timeout=60
connection_timeout=300
include_dir=/etc/nagios/nrpe.d/

command[checkfolder_perl]=perl /usr/lib/nagios/plugins/NagiosCheckFolder.pl
```

Chú thích:

Allowed hosts = Nagios Server IP

Command[checkfolder_perl] = perl /usr/lib/nagios/plugins/NagiosCheckFolder.pl

=> đặt 1 command có tên checkfolder perl sẽ thực hiện lệnh perl

/usr/lib/nagios/plugins/NagiosCheckFolder.pl

Thêm IP của Server vào nrpe.cfg

agent@agent-virtual-machine:/etc/nagios\$ nano /usr/local/nagios/etc/nrpe.cfg

Tim dong Allowed_hosts =

```
#
# NOTE: This option is ignored if NRPE is running under either inetd or xinetd
allowed_hosts=127.0.0.1, 172.16.171.150
```

Khởi động lại nrpe

agent@agent-virtual-machine:~\$ service nagios-nrpe-server restart

Step 4: [Server Side]

Cấu hình file commands.cfg

[root@localhost ~]# nano /usr/local/nagios/etc/commands.cfg

Thêm vào cuối file

 $Ctrl + X -> Y d\hat{e}$ save

Thêm service vào host Ubuntu

```
[root@localhost ~]# nano /usr/local/nagios/etc/services/<Agent hostname>.cfg
```

Thêm vào cuối file

```
define service {
    use generic-service
    host_name Ubuntu Agent
    service_description [Perl] Check Folder
    check_command checkfolder_perl
}
```

Thêm IP của Agent vào nrpe.cfg

```
[root@localhost ~]# nano /usr/local/nagios/etc/nrpe.cfg
```

Tim dòng Allowed hosts =

```
allowed_hosts=127.0.0.1,::1,172.16.171.160
```

Save file

Khởi động lại nagios và nrpe

```
[root@localhost ~]# service nrpe restart
```

[root@localhost ~]# service nagios restart

Step 5:

Kiểm tra nrpe đã hoạt động hay chưa

[Server side]

[root@localhost ~]# /usr/local/nagios/libexec/check_nrpe -H 172.16.171.160
NRPE v2.15

[root@localhost ~]# /usr/local/nagios/libexec/check_nrpe -H 172.16.171.160 -c ch
eckfolder_perl
OK - Nothing changed!!

on morning energed.

[Agent side]

agent@agent-virtual-machine:/etc/nagios\$ /usr/local/nagios/libexec/check_nrpe -H 172.16.171.150
NRPE v3.2.1

Lưu ý: Nếu gặp các trường hợp sau:

1.

CHECK_NRPE: Error - Could not connect to 172.16.171.150: Connection reset by peer

=> Chưa thêm allowed host

2.

connect to address 172.16.171.150 port 5666: No route to host connect to host 172.16.171.150 port 5666: No route to host

=> bị firewall chặn => fix: iptables -F ở cả Agent và Server

3.

NRPE: Command 'check_disk' not defined

NRPE: Command 'check_apt' not defined

NRPE: Command 'check_cpu_stats' not defined

NRPE: Command 'check_init_service' not defined

NRPE: Command 'check_load' not defined

NRPE: Command 'check_mem' not defined

NRPE: Command 'check_open_files' not defined

=> Méo biết

=> fix: [Agent Side]

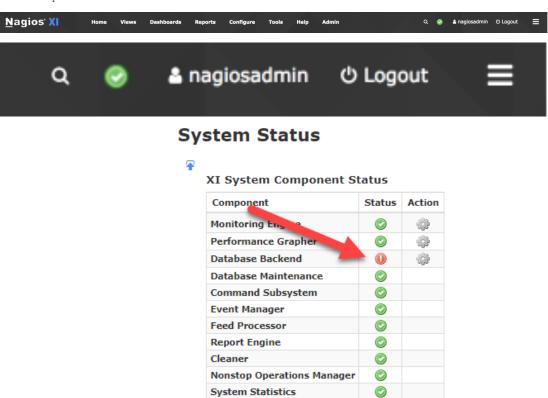
agent@agent-virtual-machine:/etc/nagios\$ sudo nano /etc/nagios/nrpe.cfg

```
log_facility=daemon
pid_file=/var/run/nagios/nrpe.pid
server_port=5666
nrpe_user=nrpe
nrpe_group=nrpe
allowed_hosts=172.16.171.150
dont_blame_nrpe=1
debug=0
command_timeout=60
connection_timeout=300
include_dir=/etc/nagios/nrpe.d/
command[checkfolder_perl]=perl /usr/lib/nagios/plugins/NagiosCheckFolder.pl
command[check_users]=/usr/lib/nagios/plugins/check_users -w 5 -c 10
command[check_load]=/usr/lib/nagios/plugins/check_load -w 15,10,5 -c 30,25,20
command[check_swap]=/usr/local/nagios/libexec/check_swap -w 50% -c 20%
command[check_disk]=/usr/lib/nagios/plugins/check_disk -w 20% -c 10% -p /
command[check_apt]=/usr/lib/nagios/plugins/check_apt -U
command[check_cpu_stats]=/usr/local/nagios/libexec/check_cpu_stats.sh -w 85 -c 95
command[check_init_service]=/usr/local/nagios/libexec/check_init_service cron
command[check_mem]=/usr/local/nagios/libexec/custom_check_mem -w 20 -c 10
command[check_init_service]=/usr/local/nagios/libexec/check_init_service ssh
command[check_procs]=/usr/local/nagios/libexec/check_procs -w 150 -c 250
```

Dành cho mấy đứa lười ©

command[checkfolder_perl]=perl /usr/lib/nagios/plugins/NagiosCheckFolder.pl command[check_users]=/usr/lib/nagios/plugins/check_users -w 5 -c 10 command[check_load]=/usr/lib/nagios/plugins/check_load -w 15,10,5 -c 30,25,20 command[check_swap]=/usr/local/nagios/libexec/check_swap -w 50% -c 20% command[check_disk]=/usr/lib/nagios/plugins/check_disk -w 20% -c 10% -p / command[check_apt]=/usr/lib/nagios/plugins/check_apt -U command[check_cpu_stats]=/usr/local/nagios/libexec/check_cpu_stats.sh -w 85 -c 95 command[check_init_service]=/usr/local/nagios/libexec/check_init_service cron command[check_mem]=/usr/local/nagios/libexec/check_init_service ssh command[check_procs]=/usr/local/nagios/libexec/check_procs -w 150 -c 250

Status bi chấm than đỏ



=> Fix https://www.linuxincluded.com/nagios-ndo2db-not-running/