

# Nagios

## Installation

1. Create the nagios group and user:

```
groupadd -g 213 nagios
useradd -u 213 -d /dev/null -s /bin/false -g nagios nagios
```

2. Add the 'apache' user to the 'nagios' group, so that it can write to the /var/nagios/rw directory ('a' option prevents the user to be removed from other groups, the member of which he is already):

```
usermod -aG nagios apache
```

3. Install the Nagios::Plugin Perl module:

```
cpan -i Monitoring::Plugin
```

4. Use [sbopkg](#) or install the individual packages using scripts from [SlackBuilds.org](#), and install the following in this order:
  - RRDTool
  - nagios (currently, the package which can be built using a [SlackBuilds.org script](#) is nagios-4.0.8)
  - nagios-plugin package
  - nagios-graphing
5. Edit /etc/nagios/nagios.conf and turn off the logging:

```
CHANGE:
    use_syslog=1
TO:
    use_syslog=0
CHANGE:
    log_notifications=1
TO:
    log_notification=0
```

6. Edit /etc/httpd/extra/nagios.conf, after the <Directory "/var/www/htdocs/nagios"> line:

```
CHANGE:
    Options None
TO:
    Options FollowSymLinks
```

7. Edit /etc/httpd/http.conf

```
COMMENT:
    LoadModule mpm_event_module lib64/httpd/modules/mod_mpm_event.so
```

```

UNCOMMENT:
    #LoadModule mpm_prefork_module
lib64/httpd/modules/mod_mpm_prefork.so
UNCOMMENT:
    #LoadModule cgi_module lib64/httpd/modules/mod_cgi.so
    (or #LoadModule cgi_module lib/httpd/modules/mod_cgi.so on 32bit
installs)
CHANGE:
    <IfModule dir_module>
DirectoryIndex index.html
    </IfModule>
TO:
    <IfModule dir_module>
DirectoryIndex index.html index.php
    </IfModule>
CHANGE:
    # Uncomment the following line to enable PHP:
    #
    # Include /etc/httpd/mod_php.conf
TO:
    # Uncomment the following line to enable PHP:
    #
    Include /etc/httpd/mod_php.conf
RIGHT AFTER:
    DocumentRoot /srv/httpd/htdocs
ADD:
    Include /etc/httpd/extra/nagios.conf

```

8. Make sure apache starts at boot and start/restart apache:

```

chmod 755 /etc/rc.d/rc.httpd
/etc/rc.d/rc.httpd restart

```

9. Set the password for *nagiosadmin* :

```

htpasswd -c /etc/nagios/htpasswd.users nagiosadmin

```

10. (Not sure if this is necessary but, leaving it in until I can test)

Make sure nagios starts at boot and start/restart nagios:

1. Edit `/etc/rc.d/rc.local` and add:

```

# Start nagios:
if [ -x /etc/rc.d/rc.nagios ]; then
    echo "Starting nagios..."
    /etc/rc.d/rc.nagios start
fi

```

2. Edit `/etc/rc.d/rc.local_shutdown` (you may have to create this file if it does not exist, and make it executable) and add:

```

# Stop nagios:
if [ -x /etc/rc.d/rc.nagios ]; then

```

```
echo "Stopping nagios..."
/etc/rc.d/rc.nagios stop
fi
```

11. Make rc.nagios executable:

```
# chmod 755 /etc/rc.d/rc.nagios
```

12. Start nagios:

```
# /etc/rc.d/rc.nagios restart
```

## Check That Nagios Is Running

Goto [http://YOUR\\_MACHINE/nagios/](http://YOUR_MACHINE/nagios/) and you should see Nagios working.

## Add Users

1. Run the htpasswd command for each user:

```
htpasswd -c /etc/nagios/htpasswd.users bob
htpasswd -c /etc/nagios/htpasswd.users sue
```

2. Edit /etc/nagios/cgi.cfg and add the user(s) too:

```
authorized_for_all_services=nagiosadmin,bob,sue
authorized_for_all_hosts=nagiosadmin,bob,sue
```

(or add "\*" to allow all authenticated users)

## TROUBLESHOOTING

ERROR: When browsing to the nagios webpage (as nagiosadmin) you get "You do not have permission"

HINT: Check /var/log/httpd/error\_log to see what is failing.

FIX1: Make sure that /srv/www/htdocs/nagios is "drwxrwxr-x nagios nagios"

FIX2: In /etc/httpd/httpd.conf make sure:

```
UNCOMMENT: Include /etc/httpd/mod_php.conf
Do the "<IfModule dir_module>" change listed above.
```

---

---

ERROR: When clicking on Nagios cgi pages, they are downloaded and not executed.

FIX: Make sure the "LoadModule cgi\_module" is uncommented as described above.

---

ERROR: "stderr: execvp(/usr/libexec/monitoring-plugins/check\_ping, ...) failed. errno is 2: No such file or directory"

FIX: vi /etc/nagios/resource.cfg

```
CHANGE: $USER1$=/usr/libexec/monitoring-plugins
T0: $USER1$=/usr/libexec/nagios
```

---

ERROR: I've done the FIXes above and it's still not working...

FIX: Didya restart httpd and/or nagios?

```
/etc/rc.d/rc.httpd restart
/etc/rc.d/rc.nagios restart
```

## Install NRPE On A Target Machine

### ON THE TARGET MACHINE (as root):

```
groupadd -g 213 nagios
useradd -u 213 -d /dev/null -s /bin/false -g nagios nagios
```

Install nagios via SBo (Required by Nagios-plugins)

Install nagios-plugins via SBo (Required by NRPE)

Install nrpe via SBo

Ignore the xinetd stuff, you have to run NRPE as a daemon on Slackware (unless you want to go through the headache of replacing inetd with xinetd)

So, start NRPE in Daemon mode:

```
chmod 755 /etc/rc.d/rc.nrpe
/etc/rc.d/rc.nrpe start
```

Test NRPE

```
/usr/libexec/nagios/check_nrpe -H localhost
NRPE v2.15
```

```
/usr/libexec/nagios/check_nrpe -H localhost -c check_users
USERS OK - 1 users currently logged in |users=1;5;10;0
```

Add your Nagios server's IP into the allowed\_hosts list:

```
vi /etc/nagios/nrpe.cfg
    allowed_hosts=127.0.0.1,192.168.1.77 (WHERE: 192.168.1.77 is the IP of
your Nagios server)
```

```
chown nagios:nagios /etc/nagios/nrpe.cfg
```

## ON THE NAGIOS SERVER MACHINE:

Add the client machine into one of the .cfg files

I did this:

```
vi /etc/nagios/nagios.cfg
```

ADD:

```
# Definitions for monitoring a linux machine
cfg_file=/etc/nagios/objects/linux.cfg
```

```
chown nagios:nagios /etc/nagios/nagios.cfg
```

```
vi /etc/nagios/objects/linux.cfg_file
#####
# Linux configuration file
#####
define host {
    use                linux-server
    host_name          MyLinuxBox
    alias               LinuxBox1
    address             192.168.1.110
    register            1
}
define service{
    host_name           MyLinuxBox
    service_description PING
    check_command       check_ping!100.0,20%!500.0,60%
    max_check_attempts 2
    check_interval      2
    retry_interval      2
    check_period        24x7
}
```

```

check_freshness      1
contact_groups      admins
notification_interval 2
notification_period  24x7
notifications_enabled 1
register            1
}

```

```

#####
# END OF FILE
#####

```

```
chown nagios:nagios /etc/nagios/objects/linux.cfg_file
```

Restart Nagios

```
/etc/rc.d/rc.nagios restart
```

## Sources

\* Originally written by [arfon](#)

[howtos](#), [software](#), [nagios](#), [network monitoring](#), [author arfon](#)

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