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/** 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/http/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
   TO: $USER1$=/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

From:
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Permanent link:
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Last update: **2019/02/28 01:49 (UTC)**