Aim: To Understand Continuous monitoring and Installation and configuration of Nagios Core, Nagios Plugins and NRPE (Nagios Remote Plugin Executor) on Linux Machine.

<u>Theory</u>:

What is Nagios?

Nagios is an open-source software for continuous monitoring of systems, networks, and infrastructures. It runs plugins stored on a server that is connected with a host or another server on your network or the Internet. In case of any failure, Nagios alerts about the issues so that the technical team can perform the recovery process immediately.

Nagios is used for continuous monitoring of systems, applications, service and business processes in a DevOps culture.

Why We Need Nagios tool?
Here are the important reasons to use Nagios monitoring tool:

- Detects all types of network or server issues
- Helps you to find the root cause of the problem which allows you to get the permanent solution to the problem
- Active monitoring of your entire infrastructure and business processes
- Allows you to monitor and troubleshoot server performance issues
- Helps you to plan for infrastructure upgrades before outdated systems create failures
- You can maintain the security and availability of the service
- Automatically fix problems in a panic situation

Features of Nagios

Following are the important features of Nagios monitoring tool:

- Relatively scalable, Manageable, and Secure
- Good log and database system
- Informative and attractive web interfaces
- Automatically send alerts if condition changes
- If the services are running fine, then there is no need to do check that host is an alive
- Helps you to detect network errors or server crashes
- You can troubleshoot the performance issues of the server.
- The issues, if any, can be fixed automatically as they are identified during the monitoring process

- You can monitor the entire business process and IT infrastructure with a single pass ● The

product's architecture is easy to write new plugins in the language of your choice ● Nagios allows you to read its configuration from an entire directory which helps you to decide how to define individual files

- Utilizes topology to determine dependencies
- Monitor network services like HTTP, SMTP, HTTP, SNMP, FTP, SSH, POP, etc.
- Helps you to define network host hierarchy using parent hosts
- Ability to define event handlers that runs during service or host events for proactive problem resolution
- Support for implementing redundant monitoring hosts

Nagios Architecture

Nagios is a client-server architecture. Usually, on a network, a Nagios server is running on a host, and plugins are running on all the remote hosts which should be monitored.
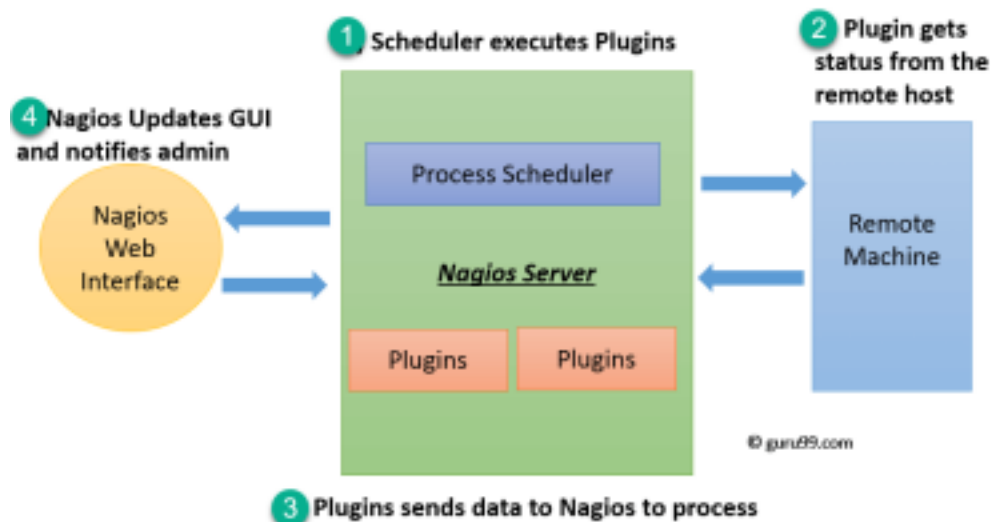
1. The scheduler is a component of the server part of Nagios. It sends a signal to execute the plugins at the remote host.
2. The plugin gets the status from the remote host
3. The plugin sends the data to the process scheduler
4. The process scheduler updates the GUI and notifications are sent to admins.

Installation of Nagios

Prerequisites: AWS Free Tier

```
[ec2-user@ip-172-31-44-40 ~]$ sudo yum update
Last metadata expiration check: 0:00:31 ago on Thu Oct 17 09:17:11 2024.
Dependencies resolved.
Nothing to do.
Complete!
```

```
[ec2-user@ip-172-31-44-40 ~]$ sudo yum install httpd php
Last metadata expiration check: 0:00:42 ago on Thu Oct 17 09:17:11 2024.
Dependencies resolved.
================================================================================================================
 Package                  Architecture        Version                       Repository          Size
================================================================================================================
Installing:
 httpd                    x86_64              2.4.62-1.amzn2023             amazonlinux          48 k
 php8.3                   x86_64              8.3.10-1.amzn2023.0.1         amazonlinux          10 k
Installing dependencies:
 apr                      x86_64              1.7.2-2.amzn2023.0.2          amazonlinux         129 k
 apr-util                 x86_64              1.6.3-1.amzn2023.0.1          amazonlinux          98 k
 generic-logos-httpd      noarch              18.0.0-12.amzn2023.0.3        amazonlinux          19 k
 httpd-core               x86_64              2.4.62-1.amzn2023             amazonlinux         1.4 M
 httpd-filesystem         noarch              2.4.62-1.amzn2023             amazonlinux          14 k
 httpd-tools              x86_64              2.4.62-1.amzn2023             amazonlinux          81 k
 libbrotli                x86_64              1.0.9-4.amzn2023.0.2          amazonlinux         315 k
 libsodium                x86_64              1.0.19-4.amzn2023             amazonlinux         176 k
 libxslt                  x86_64              1.1.34-5.amzn2023.0.2         amazonlinux         241 k
 mailcap                  noarch              2.1.49-3.amzn2023.0.3         amazonlinux          33 k
 nginx-filesystem         noarch              1:1.24.0-1.amzn2023.0.4       amazonlinux         9.8 k
 php8.3-cli               x86_64              8.3.10-1.amzn2023.0.1         amazonlinux         3.7 M
 php8.3-common            x86_64              8.3.10-1.amzn2023.0.1         amazonlinux         737 k
 php8.3-process           x86_64              8.3.10-1.amzn2023.0.1         amazonlinux          45 k
 php8.3-xml               x86_64              8.3.10-1.amzn2023.0.1         amazonlinux         154 k
Installing weak dependencies:
 apr-util-openssl         x86_64              1.6.3-1.amzn2023.0.1          amazonlinux          17 k
 mod_http2                x86_64              2.0.27-1.amzn2023.0.3         amazonlinux         166 k
```

```
[ec2-user@ip-172-31-44-40 ~]$ sudo yum install gcc glibc glibc-common
Last metadata expiration check: 0:01:22 ago on Thu Oct 17 09:17:11 2024.
Package glibc-2.34-52.amzn2023.0.11.x86_64 is already installed.
Package glibc-common-2.34-52.amzn2023.0.11.x86_64 is already installed.
Dependencies resolved.
================================================================================================================
 Package                  Architecture        Version                       Repository          Size
================================================================================================================
Installing:
 gcc                      x86_64              11.4.1-2.amzn2023.0.2         amazonlinux          32 M
Installing dependencies:
 annobin-docs             noarch              10.93-1.amzn2023.0.1          amazonlinux          92 k
 annobin-plugin-gcc       x86_64              10.93-1.amzn2023.0.1          amazonlinux         887 k
 cpp                      x86_64              11.4.1-2.amzn2023.0.2         amazonlinux          10 M
 gc                       x86_64              8.0.4-5.amzn2023.0.2          amazonlinux         105 k
 glibc-devel              x86_64              2.34-52.amzn2023.0.11         amazonlinux          27 k
 glibc-headers-x86        noarch              2.34-52.amzn2023.0.11         amazonlinux         427 k
 guile22                  x86_64              2.2.7-2.amzn2023.0.3          amazonlinux         6.4 M
 kernel-headers           x86_64              6.1.112-122.189.amzn2023      amazonlinux         1.4 M
 libmpc                   x86_64              1.2.1-2.amzn2023.0.2          amazonlinux          62 k
 libtool-ltdl             x86_64              2.4.7-1.amzn2023.0.3          amazonlinux          38 k
 libxcrypt-devel          x86_64              4.4.33-7.amzn2023             amazonlinux          32 k
 make                     x86_64              1:4.3-5.amzn2023.0.2          amazonlinux         534 k

Transaction Summary
================================================================================================================
Install  13 Packages
```

```
[ec2-user@ip-172-31-44-40 ~]$ sudo yum install gd gd-devel
Last metadata expiration check: 0:01:45 ago on Thu Oct 17 09:17:11 2024.
Dependencies resolved.
================================================================================================================
 Package                  Architecture        Version                       Repository          Size
================================================================================================================
Installing:
 gd                       x86_64              2.3.3-5.amzn2023.0.3          amazonlinux         139 k
 gd-devel                 x86_64              2.3.3-5.amzn2023.0.3          amazonlinux          38 k
Installing dependencies:
 brotli                   x86_64              1.0.9-4.amzn2023.0.2          amazonlinux         314 k
 brotli-devel             x86_64              1.0.9-4.amzn2023.0.2          amazonlinux          31 k
 bzip2-devel              x86_64              1.0.8-6.amzn2023.0.2          amazonlinux         214 k
 cairo                    x86_64              1.17.6-2.amzn2023.0.1         amazonlinux         684 k
 cmake-filesystem         x86_64              3.22.2-1.amzn2023.0.4         amazonlinux          16 k
 fontconfig               x86_64              2.13.94-2.amzn2023.0.2        amazonlinux         273 k
 fontconfig-devel         x86_64              2.13.94-2.amzn2023.0.2        amazonlinux         128 k
 fonts-filesystem         noarch              1:2.0.5-12.amzn2023.0.2       amazonlinux         9.5 k
 freetype                 x86_64              2.13.2-5.amzn2023.0.1         amazonlinux         423 k
 freetype-devel           x86_64              2.13.2-5.amzn2023.0.1         amazonlinux         912 k
 glib2-devel              x86_64              2.74.7-689.amzn2023.0.2       amazonlinux         486 k
 google-noto-fonts-common noarch              20201206-2.amzn2023.0.2       amazonlinux          15 k
 google-noto-sans-vf-fonts noarch             20201206-2.amzn2023.0.2       amazonlinux         492 k
 graphite2                x86_64              1.3.14-7.amzn2023.0.2         amazonlinux          97 k
 graphite2-devel          x86_64              1.3.14-7.amzn2023.0.2         amazonlinux          21 k
 harfbuzz                 x86_64              7.0.0-2.amzn2023.0.1          amazonlinux         868 k
 harfbuzz-devel           x86_64              7.0.0-2.amzn2023.0.1          amazonlinux         404 k
```

```
[ec2-user@ip-172-31-44-40 ~]$ sudo adduser -m nagios
[ec2-user@ip-172-31-44-40 ~]$ sudo passwd nagios
Changing password for user nagios.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
```

```
[ec2-user@ip-172-31-44-40 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-44-40 ~]$ sudo usermod -a -G nagcmd nagios
[ec2-user@ip-172-31-44-40 ~]$ sudo usermod -a -G nagcmd apache
[ec2-user@ip-172-31-44-40 ~]$ mkdir ~/downloads
cd ~/downloads
```

```
[ec2-user@ip-172-31-44-40 downloads]$ wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
--2024-10-17 09:24:47--  http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
Resolving prdownloads.sourceforge.net (prdownloads.sourceforge.net)... 204.68.111.105
Connecting to prdownloads.sourceforge.net (prdownloads.sourceforge.net)|204.68.111.105|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: http://downloads.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz [following]
--2024-10-17 09:24:47--  http://downloads.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz
Resolving downloads.sourceforge.net (downloads.sourceforge.net)... 204.68.111.105
Reusing existing connection to prdownloads.sourceforge.net:80.
HTTP request sent, awaiting response... 302 Found
Location: http://deac-riga.dl.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz?viasf=1 [following]
--2024-10-17 09:24:47--  http://deac-riga.dl.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz?viasf=1
Resolving deac-riga.dl.sourceforge.net (deac-riga.dl.sourceforge.net)... 89.111.52.100
Connecting to deac-riga.dl.sourceforge.net (deac-riga.dl.sourceforge.net)|89.111.52.100|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1805059 (1.7M) [application/x-gzip]
Saving to: 'nagios-4.0.8.tar.gz'

nagios-4.0.8.tar.gz          100%[===================================================================================>]   1.72M  1.05MB/s    in 1.6s

2024-10-17 09:24:50 (1.05 MB/s) - 'nagios-4.0.8.tar.gz' saved [1805059/1805059]
```

```
[ec2-user@ip-172-31-44-40 downloads]$ wget http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz
--2024-10-17 09:25:26--  http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz
Resolving nagios-plugins.org (nagios-plugins.org)... 45.56.123.251
Connecting to nagios-plugins.org (nagios-plugins.org)|45.56.123.251|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2659772 (2.5M) [application/x-gzip]
Saving to: 'nagios-plugins-2.0.3.tar.gz'

nagios-plugins-2.0.3.tar.gz  100%[===================================================================================>]   2.54M  2.35MB/s    in 1.1s

2024-10-17 09:25:28 (2.35 MB/s) - 'nagios-plugins-2.0.3.tar.gz' saved [2659772/2659772]
```

```
[ec2-user@ip-172-31-44-40 downloads]$ tar zxvf nagios-4.0.8.tar.gz
nagios-4.0.8/
nagios-4.0.8/.gitignore
nagios-4.0.8/Changelog
nagios-4.0.8/INSTALLING
nagios-4.0.8/LEGAL
nagios-4.0.8/LICENSE
nagios-4.0.8/Makefile.in
nagios-4.0.8/README
nagios-4.0.8/README.asciidoc
nagios-4.0.8/THANKS
nagios-4.0.8/UPGRADING
nagios-4.0.8/base/
nagios-4.0.8/base/.gitignore
nagios-4.0.8/base/Makefile.in
nagios-4.0.8/base/broker.c
nagios-4.0.8/base/checks.c
nagios-4.0.8/base/commands.c
nagios-4.0.8/base/config.c
nagios-4.0.8/base/events.c
nagios-4.0.8/base/flapping.c
nagios-4.0.8/base/logging.c
nagios-4.0.8/base/nagios.c
nagios-4.0.8/base/nagiostats.c
nagios-4.0.8/base/nebmods.c
nagios-4.0.8/base/nerd.c
nagios-4.0.8/base/netutils.c
```

```
[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ make all
cd ./base && make
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.0.8/base'
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o nagios.o nagios.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o broker.o broker.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o nebmods.o nebmods.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o ../common/shared.o ../common/shared.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o nerd.o nerd.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o query-handler.o query-handler.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o workers.c
In function 'get_wproc_list',
    inlined from 'get_worker' at workers.c:224:12:
workers.c:209:17: warning: '%s' directive argument is null [-Wformat-overflow=]
  209 |                 log_debug_info(DEBUGL_CHECKS, 1, "Found specialized worker(s) for '%s'", (slash && *slash != '/') ? slash : cmd_name
      |                 ^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o checks.o checks.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o config.o config.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o commands.o commands.c
commands.c: In function 'process_passive_service_check':
commands.c:2247:19: warning: assignment discards 'const' qualifier from pointer target type [-Wdiscarded-qualifiers]
 2247 |         cr.source = command_worker.source_name;
      |                   ^
commands.c: In function 'process_passive_host_check':
commands.c:2339:19: warning: assignment discards 'const' qualifier from pointer target type [-Wdiscarded-qualifiers]
```

```
[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ sudo make install
cd ./base && make install
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.0.8/base'
make install-basic
make[2]: Entering directory '/home/ec2-user/downloads/nagios-4.0.8/base'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/bin
/usr/bin/install -c -m 774 -o nagios -g nagios nagios /usr/local/nagios/bin
/usr/bin/install -c -m 774 -o nagios -g nagios nagiostats /usr/local/nagios/bin
make[2]: Leaving directory '/home/ec2-user/downloads/nagios-4.0.8/base'
make strip-post-install
make[2]: Entering directory '/home/ec2-user/downloads/nagios-4.0.8/base'
/usr/bin/strip /usr/local/nagios/bin/nagios
/usr/bin/strip /usr/local/nagios/bin/nagiostats
make[2]: Leaving directory '/home/ec2-user/downloads/nagios-4.0.8/base'
make[1]: Leaving directory '/home/ec2-user/downloads/nagios-4.0.8/base'
cd ./cgi && make install
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.0.8/cgi'
make install-basic
make[2]: Entering directory '/home/ec2-user/downloads/nagios-4.0.8/cgi'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/sbin
for file in *.cgi; do \
        /usr/bin/install -c -m 775 -o nagios -g nagios $file /usr/local/nagios/sbin; \
done
/usr/bin/install: cannot stat '*.cgi': No such file or directory
make[2]: *** [Makefile:205: install-basic] Error 1
make[2]: Leaving directory '/home/ec2-user/downloads/nagios-4.0.8/cgi'
make[1]: *** [Makefile:197: install] Error 2
make[1]: Leaving directory '/home/ec2-user/downloads/nagios-4.0.8/cgi'
```

```
[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ sudo make install-init
/usr/bin/install -c -m 755 -d -o root -g root /etc/rc.d/init.d
/usr/bin/install -c -m 755 -o root -g root daemon-init /etc/rc.d/init.d/nagios

*** Init script installed ***

[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ sudo make install-config
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc/objects
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/nagios.cfg /usr/local/nagios/etc/nagios.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/cgi.cfg /usr/local/nagios/etc/cgi.cfg
/usr/bin/install -c -b -m 660 -o nagios -g nagios sample-config/resource.cfg /usr/local/nagios/etc/resource.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/templates.cfg /usr/local/nagios/etc/objects/templates.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/commands.cfg /usr/local/nagios/etc/objects/commands.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/contacts.cfg /usr/local/nagios/etc/objects/contacts.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/timeperiods.cfg /usr/local/nagios/etc/objects/timeperiods.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/localhost.cfg /usr/local/nagios/etc/objects/localhost.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/windows.cfg /usr/local/nagios/etc/objects/windows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/printer.cfg /usr/local/nagios/etc/objects/printer.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/switch.cfg /usr/local/nagios/etc/objects/switch.cfg

*** Config files installed ***
```

```
[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ sudo make install-config
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc/objects
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/nagios.cfg /usr/local/nagios/etc/nagios.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/cgi.cfg /usr/local/nagios/etc/cgi.cfg
/usr/bin/install -c -b -m 660 -o nagios -g nagios sample-config/resource.cfg /usr/local/nagios/etc/resource.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/templates.cfg /usr/local/nagios/etc/objects/templates.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/commands.cfg /usr/local/nagios/etc/objects/commands.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/contacts.cfg /usr/local/nagios/etc/objects/contacts.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/timeperiods.cfg /usr/local/nagios/etc/objects/timeperiods.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/localhost.cfg /usr/local/nagios/etc/objects/localhost.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/windows.cfg /usr/local/nagios/etc/objects/windows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/printer.cfg /usr/local/nagios/etc/objects/printer.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/switch.cfg /usr/local/nagios/etc/objects/switch.cfg

*** Config files installed ***

Remember, these are *SAMPLE* config files.  You'll need to read
the documentation for more information on how to actually define
services, hosts, etc. to fit your particular needs.
```

```
[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ sudo make install-commandmode
/usr/bin/install -c -m 775 -o nagios -g nagcmd -d /usr/local/nagios/var/rw
chmod g+s /usr/local/nagios/var/rw

*** External command directory configured ***
```

```
[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ sudo nano /usr/local/nagios/etc/objects/contacts.cfg
```

```
#########################################################################
#########################################################################
#
# CONTACTS
#
#########################################################################
#########################################################################

# Just one contact defined by default - the Nagios admin (that's you)
# This contact definition inherits a lot of default values from the 'generic-contact'
# template which is defined elsewhere.

define contact{
        contact_name                    nagiosadmin             ; Short name of user
        use                             generic-contact         ; Inherit default values from generic-contact template (defined above)
        alias                           Nagios Admin            ; Full name of user

        email                           raheja.saachi04114@gmail.com  ; <<***** CHANGE THIS TO YOUR EMAIL ADDRESS ******
        }
```

```
^G Help        ^O Write Out   ^W Where Is    ^K Cut         ^T Execute     ^C Location    M-U Undo       M-A Set Mark   M-] To Bracket M-Q Previous   ^B Back
^X Exit        ^R Read File   ^\ Replace     ^U Paste       ^J Justify     ^/ Go To Line  M-E Redo       M-6 Copy       ^Q Where Was   M-W Next       ^F Forward
```

```
[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ sudo make install-webconf
/usr/bin/install -c -m 644 sample-config/httpd.conf /etc/httpd/conf.d/nagios.conf


*** Nagios/Apache conf file installed ***
```

```
[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
```

```
[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ sudo service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[ec2-user@ip-172-31-44-40 nagios-4.0.8]$ cd ~/downloads
tar zxvf nagios-plugins-2.0.3.tar.gz
nagios-plugins-2.0.3/
nagios-plugins-2.0.3/perlmods/
nagios-plugins-2.0.3/perlmods/Config-Tiny-2.14.tar.gz
nagios-plugins-2.0.3/perlmods/parent-0.226.tar.gz
nagios-plugins-2.0.3/perlmods/Test-Simple-0.98.tar.gz
nagios-plugins-2.0.3/perlmods/Makefile.in
nagios-plugins-2.0.3/perlmods/version-0.9903.tar.gz
nagios-plugins-2.0.3/perlmods/Makefile.am
nagios-plugins-2.0.3/perlmods/Module-Runtime-0.013.tar.gz
nagios-plugins-2.0.3/perlmods/Module-Metadata-1.000014.tar.gz
```

```
[ec2-user@ip-172-31-44-40 downloads]$ cd nagios-plugins-2.0.3
[ec2-user@ip-172-31-44-40 nagios-plugins-2.0.3]$ ./configure --with-nagios-user=nagios --with-nagios-group=nagios
make
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
checking for a thread-safe mkdir -p... /usr/bin/mkdir -p
checking for gawk... gawk
checking whether make sets $(MAKE)... yes
checking whether to disable maintainer-specific portions of Makefiles... yes
checking build system type... x86_64-unknown-linux-gnu
checking host system type... x86_64-unknown-linux-gnu
checking for gcc... gcc
checking for C compiler default output file name... a.out
checking whether the C compiler works... yes
checking whether we are cross compiling... no
checking for suffix of executables...
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
```

```
[ec2-user@ip-172-31-44-40 nagios-plugins-2.0.3]$ sudo chkconfig --add nagios
sudo chkconfig nagios on
[ec2-user@ip-172-31-44-40 nagios-plugins-2.0.3]$
```

```
[ec2-user@ip-172-31-44-40 nagios-plugins-2.0.3]$ sudo service nagios start
Reloading systemd:                                            [  OK  ]
Starting nagios (via systemctl):                              [  OK  ]
```

```
[ec2-user@ip-172-31-44-40 nagios-plugins-2.0.3]$ sudo systemctl status nagios
● nagios.service - LSB: Starts and stops the Nagios monitoring server
     Loaded: loaded (/etc/rc.d/init.d/nagios; generated)
     Active: active (running) since Thu 2024-10-17 09:52:10 UTC; 24s ago
       Docs: man:systemd-sysv-generator(8)
    Process: 66409 ExecStart=/etc/rc.d/init.d/nagios start (code=exited, status=0/SUCCESS)
      Tasks: 6 (limit: 1059)
     Memory: 1.9M
        CPU: 59ms
     CGroup: /system.slice/nagios.service
             ├─66431 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
             ├─66433 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             ├─66434 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             ├─66435 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             ├─66436 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             └─66437 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg

Oct 17 09:52:10 ip-172-31-44-40.eu-north-1.compute.internal nagios[66431]: wproc: Successfully registered manager as @wproc with
```

Nagios

Nagios® Core™

✓ Daemon running with PID 30094

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Version 4.0.8
August 12, 2014
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