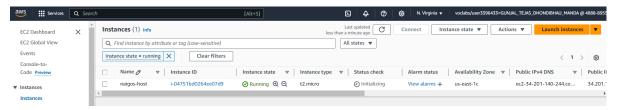
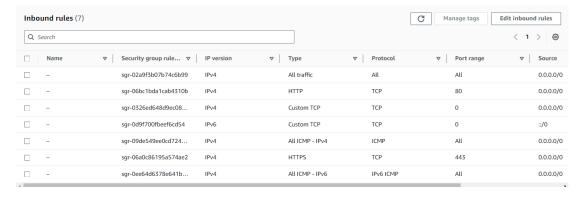
EXPERIMENT NO:-09

<u>AIM:-</u> To Understand Continuous monitoring and Installation and configuration of Nagios Core, Nagios Plugins and NRPE (Nagios Remote Plugin Executor) on Linux Machine.

Create an Amazon Linux EC2 instance and name it as nagios-host



 Edit the following inbound rules of the specified security groups and ensure HTTP.HTTPS,SSH,ICMP are accessible from anywhere



 Connect to your EC2 instance via the connect option available in EC2 instances menu. After that command prompt will be started.

Update and install the required packages
 sudo yum install httpd php

Package	Architecture	Version	Repository	
nstalling:				
ittpd	x86 64	2.4.62-1.amzn2023	amazonlinux	
hp8.3	x86 64	8.3.10-1.amzn2023.0.1	amazonlinux	
stalling dependencies:				
apr	x86_64	1.7.2-2.amzn2023.0.2	amazonlinux	
apr-util	x86 64	1.6.3-1.amzn2023.0.1	amazonlinux	
generic-logos-httpd	noarch	18.0.0-12.amzn2023.0.3	amazonlinux	
ttpd-core	x86_64	2.4.62-1.amzn2023	amazonlinux	
ttpd-filesystem	noarch	2.4.62-1.amzn2023	amazonlinux	
nttpd-tools	x86_64	2.4.62-1.amzn2023	amazonlinux	
libbrotli	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux	
libsodium	x86_64	1.0.19-4.amzn2023	amazonlinux	
libxslt	x86_64	1.1.34-5.amzn2023.0.2	amazonlinux	
nailcap	noarch	2.1.49-3.amzn2023.0.3	amazonlinux	
nginx-filesystem	noarch	1:1.24.0-1.amzn2023.0.4	amazonlinux	
hp8.3-cli	x86_64	8.3.10-1.amzn2023.0.1	amazonlinux	
ohp8.3-common	x86_64	8.3.10-1.amzn2023.0.1	amazonlinux	
ohp8.3-process	x86_64	8.3.10-1.amzn2023.0.1	amazonlinux	
hp8.3-xml	x86_64	8.3.10-1.amzn2023.0.1	amazonlinux	
stalling weak dependencies:				
pr-util-openssl	x86_64	1.6.3-1.amzn2023.0.1	amazonlinux	
nod_http2	x86_64	2.0.27-1.amzn2023.0.3	amazonlinux	
mod_lua	x86_64	2.4.62-1.amzn2023	amazonlinux	
php8.3-fpm	x86 64	8.3.10-1.amzn2023.0.1	amazonlinux	

sudo yum install gcc glibc glibc-common

Package	Architecture	Version	Repository	
nstalling:				
JCC	x86_64	11.4.1-2.amzn2023.0.2	amazonlinux	
stalling dependencies:				
annobin-docs	noarch	10.93-1.amzn2023.0.1	amazonlinux	
annobin-plugin-gcc	x86_64	10.93-1.amzn2023.0.1	amazonlinux	
pp .	x86_64	11.4.1-2.amzn2023.0.2	amazonlinux	
jc	x86_64	8.0.4-5.amzn2023.0.2	amazonlinux	
glibc-devel	x86_64	2.34-52.amzn2023.0.11	amazonlinux	
glibc-headers-x86	noarch	2.34-52.amzn2023.0.11	amazonlinux	
guile22	x86_64	2.2.7-2.amzn2023.0.3	amazonlinux	
ternel-headers	x86_64	6.1.109-118.189.amzn2023	amazonlinux	
Libmpc	x86_64	1.2.1-2.amzn2023.0.2	amazonlinux	
libtool-1tdl	x86_64	2.4.7-1.amzn2023.0.3	amazonlinux	
Libxcrypt-devel	x86_64	4.4.33-7.amzn2023	amazonlinux	
nake	x86_64	1:4.3-5.amzn2023.0.2	amazonlinux	
cansaction Summarv				

sudo yum install gd gd-devel

ackage	Architecture	Version	Repository	
stalling:				
1	x86 64	2.3.3-5.amzn2023.0.3	amazonlinux	
i-devel	x86 64	2.3.3-5.amzn2023.0.3	amazonlinux	
stalling dependencies:				
rotli	x86 64	1.0.9-4.amzn2023.0.2	amazonlinux	
rotli-devel	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux	
zip2-devel	x86 64	1.0.8-6.amzn2023.0.2	amazonlinux	
airo	x86_64	1.17.6-2.amzn2023.0.1	amazonlinux	
make-filesystem	x86 64	3.22.2-1.amzn2023.0.4	amazonlinux	
ontconfig	x86_64	2.13.94-2.amzn2023.0.2	amazonlinux	
ontconfig-devel	x86 64	2.13.94-2.amzn2023.0.2	amazonlinux	
onts-filesystem	noarch	1:2.0.5-12.amzn2023.0.2	amazonlinux	
reetype	x86 64	2.13.2-5.amzn2023.0.1	amazonlinux	
reetype-devel	x86_64	2.13.2-5.amzn2023.0.1	amazonlinux	
Lib2-devel	x86 64	2.74.7-689.amzn2023.0.2	amazonlinux	
oogle-noto-fonts-common	noarch	20201206-2.amzn2023.0.2	amazonlinux	
oogle-noto-sans-vf-fonts	noarch	20201206-2.amzn2023.0.2	amazonlinux	
raphite2	x86_64	1.3.14-7.amzn2023.0.2	amazonlinux	
raphite2-devel	x86_64	1.3.14-7.amzn2023.0.2	amazonlinux	
arfbuzz	x86_64	7.0.0-2.amzn2023.0.1	amazonlinux	
arfbuzz-devel	x86 64	7.0.0-2.amzn2023.0.1	amazonlinux	
arfbuzz-icu	x86_64	7.0.0-2.amzn2023.0.1	amazonlinux	
bigkit-libs	x86 64	2.1-21.amzn2023.0.2	amazonlinux	
angpacks-core-font-en	noarch	3.0-21.amzn2023.0.4	amazonlinux	
ibICE	x86 64	1.0.10-6.amzn2023.0.2	amazonlinux	

```
Verifying : sysprof-capture_devel_3.0.1-2 amm2023.0.2.x86_64
Verifying : x0rg-x11-proto-devel_2021.4-1.amm2023.0.2.noarch
Verifying : x0rg-x11-proto-devel_2021.4-1.amm2023.0.2.x86_64
Verifying : x1ib-devel_1.2.11-33.amm2023.0.5.x86_64
Verifying : x1ib-devel_1.2.11-33.amm2023.0.5.x86_64
Verifying : x1ib-devel_1.2.x86_64
Verifying : x1ib-devel_1.
```

 Create a new nagios user by writing the following commands sudo adduser -m nagios sudo passwd nagios

```
[ec2-user@ip-172-31-46-179 ~]$ sudo adduser -m naigos
[ec2-user@ip-172-31-46-179 ~]$ sudo passwd naigos
Changing password for user naigos.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[ec2-user@ip-172-31-46-179 ~]$
```

 Create a new user group using sudo groupadd nagcmd and add users to the group using the following commands

```
[ec2-user@ip-172-31-46-179 ~]$ sudo usermod -a -G nagcmd naigos usermod: group 'nagcmd' does not exist
[ec2-user@ip-172-31-46-179 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-46-179 ~]$ sudo usermod -a -G nagcmd naigod user 'naigod' does not exist
[ec2-user@ip-172-31-46-179 ~]$ sudo usermod -a -G nagcmd naigos
[ec2-user@ip-172-31-46-179 ~]$ sudo usermod -a -G nagcmd apache
[ec2-user@ip-172-31-46-179 ~]$ sudo usermod -a -G nagcmd apache
```

Create a directory for Nagios downloads using the following commands and Also download
 Nagios and plugin source files

wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.6.tar.gz wget https://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz

```
[ec2-user@ip-172-31-46-179 -]$ mkdir downloads
[ec2-user@ip-172-31-46-179 -]$ od downloads
[ec2-user@ip-172-31-46-179 -]$ od downloads [ec2-user@ip-172-31-46-179 -]$ od downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/downloads/nagios.com/download
```

Extract the nagios source file with the following commands tar zxvf nagios-4.4.6.tar.gz

```
[ec2-user@ip-172-31-46-179 downloads]$ tar zxvf nagios-4.4.6.tar.gz
nagios-4.4.6./ gitignore
nagios-4.4.6./ travis.yml
nagios-4.4.6./CNTRIBUTING.md
nagios-4.4.6./Changelog
nagios-4.4.6./INSTALLING
nagios-4.4.6./INSTALLING
nagios-4.4.6./ILICENSE
nagios-4.4.6./ILICENSE
nagios-4.4.6./README.md
nagios-4.4.6./README.md
nagios-4.4.6./UGRADING
nagios-4.4.6./JUGRADING
nagios-4.4.6./Judoconf-macros/.
nagios-4.4.6./Judoc
```

Listing out all the files present in the nagios directory

```
[ec2-user@ip-172-31-46-179 nagios-4.4.6]$ ls -1
6291 Apr 28
32590 Apr 28
422 Apr 28
841 Apr 28
18002 Apr 28
16506 Apr 28
3395 Apr 28
643 Apr 28
643 Apr 28
  -rw-r--r--.
-rw-r--r--.
                                                                                                      2020 CONTRIBUTING.md
2020 Changelog
2020 INSTALLING
                            1 ec2-user ec2-user
                                                                                                      2020 LEGAL
2020 LICENSE
                                                                                                     2020 LICENSE
2020 Makefile.in
2020 README.md
2020 THANKS
2020 UPGRADING
                                                                                                      2020 aclocal.m4
2020 autoconf-m
2020 base
                                                                                                      2020 common
                                                                                                     2020 config.guess
2020 config.sub
                                                                                                    2020 configure
2020 configure.ac
2020 contrib
2020 docs
                                                                       29812 Apr 28
16384 Apr 28
129 Apr 28
886 Apr 28
7025 Apr 28
16384 Apr 28
16384 Apr 28
77 Apr 28
161 Apr 28
16386 Apr 28
                                                                                                      2020 doxy.conf
2020 functions
2020 html
 drwxr-xr-x. 2 ec2-user ec2-user
-rwxr-xr-x. 1 ec2-user ec2-user
                                                                                                      2020 include
2020 indent-all.sh
  rwxr-xr-x. 1 ec2-user ec2-user
rwxr-xr-x. 1 ec2-user ec2-user
                                                                                                      2020 indent.sh
2020 install-sh
 drwxr-xr-x. 2 ec2-user ec2-user
-rwxr-xr-x. 1 ec2-user ec2-user
                                                                        16384 Apr 28
461 Apr 28
                                                                                                       2020 lib
2020 make
```

☐ Then run the configuration script with the following command ./configure --with-command-group=nagcmd

```
tec2-user@ip-172-31-46-179 nagios-4.4.6)$ ./configure --with-command-group=nagcmd checking for a BSD-compatible inetall. ./usr/bin/install -c checking build system type... x86 64-pc-linux-gnu checking host system type... x86 64-pc-linux-gnu checking host system type... x86 64-pc-linux-gnu checking for gcc... gcc checking whether the C compiler works... yes checking for C compiler default output file name... a.out checking for suffix of executables... checking for suffix of object files... o checking for suffix of object files... o checking whether we are using the GNU C compiler... yes checking whether we are using the GNU C compiler... yes checking for gcc option to accept ISO C89... none needed checking whether means sets $(NMSE)... yes checking for strip... /usr/bin/strip checking for strip... /usr/bin/strip checking for strip... /usr/bin/strip checking for grep that handles long lines and -e... /usr/bin/grep checking for grep that handles long lines and -e... /usr/bin/grep checking for sys/wait.h that is PoSIX.l compatible... yes checking for sys/vyt.h that is PoSIX.l compatible... yes checking for sys/vyt.h that is PoSIX.l compatible... yes checking for string.h.. yes checking for string.h... yes checking for string.h... yes checking for stringsh... yes checking for stringsh... yes checking for stringsh... yes checking for inttypes.h... yes checking for inttypes.h... yes checking for inttypes.h... yes checking for inttypes.h... yes checking for stringsh... yes checking for inttypes.h... yes
```

```
*** Configuration summary for nagios 4.4.6 2020-04-28 ***:

General Options:

Nagios executable: nagios
Nagios user/group: nagios,nagios
Command user/group: nagios,nagomd
Event Broker: yes
Install ${prefix}: /usr/local/nagios
Install ${prefix}: /usr/local/nagios
Install ${includedir}: /usr/local/nagios/include/nagios
Lock file: /run/nagios.lock
Check result directory: /usr/local/nagios/var/spool/checkresults
Init directory: /usr/local/nagios/var/spool/checkresults
Apache conf.d directory: /etc/httpd/conf.d
Mail program: /bin/mail
Host OS: linux-gnu
IOBroker Method: epoll

Web Interface Options:

HTML URL: http://localhost/nagios/
CGI URL: http://localhost/nagios/
CGI URL: http://localhost/nagios/cgi-bin/
Traceroute (used by WAP): /usr/bin/traceroute

Review the options above for accuracy. If they look okay,
type 'make all' to compile the main program and CGIs.

[ec2-user@ip-172-31-46-179 nagios-4.4.6]$
```

Compile the source code with the following commands make all

Install binaries, init script and sample config files

sudo make install

```
naqios:x:1002:1003:/home/naqios:/bin/bash
[cc2-user@ip-172-31-46-179 naqios-4.4.6]$ sudo make install

cd ./base & make install

make[1]: Entering directory '/home/ec2-user/downloads/naqios-4.4.6/base'
/usr/bin/install -c -m 775 -o naqios -q naqios naqios /usr/local/naqios/bin
/usr/bin/install -c -s -m 774 -o naqios -q naqios naqios /usr/local/naqios/bin
/usr/bin/install -c -s -m 774 -o naqios -q naqios naqios /usr/local/naqios/bin
make[1]: Leaving directory '/home/ec2-user/downloads/naqios-4.4.6/base'

cd ./cqi & make install
make[1]: Entering directory '/home/ec2-user/downloads/naqios-4.4.6/cqi'
make [1]: Entering directory '/home/ec2-user/downloads/naqios-4.4.6/cqi'
make [1]: Entering directory '/home/ec2-user/downloads/naqios-4.4.6/cqi'
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/sbin; \
done
make[2]: Leaving directory '/home/ec2-user/downloads/naqios-4.4.6/cqi'
make[1]: Leaving directory '/home/ec2-user/downloads/naqios-4.4.6/cqi'
make[1]: Entering directory '/home/ec2-user/downloads/naqios-4.4.6/cqi'
make[1]: Entering directory '/home/ec2-user/downloads/naqios-4.4.6/chml'
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/contexthelp
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/docs
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/docs
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/jocos/inaqes
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/inaqes/locs/inaqes
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/inaqes/locs
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/inaqes/locs
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/inaqes/locs
/usr/bin/install -c -m 775 -o naqios -q naqios -d /usr/local/naqios/share/inaqes/locs
/usr/bin/
```

sudo make install-init

sudo make install-config

```
[ec2-user@ip-172-31-46-179 nagios-4.4.6]$ sudo make install-config
/usr/bin/install - c -m 775 -o nagios -g nagios -d vusr/local/nagios/etc/bjects
/usr/bin/install - c -m 775 -o nagios -g nagios -d vusr/local/nagios/etc/objects
/usr/bin/install - c -b -m 664 -o nagios -g nagios sample-config/qinagios.cfg /usr/local/nagios/etc/cgi.cfg
/usr/bin/install - c -b -m 664 -o nagios -g nagios sample-config/qinagios.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/cpsource.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/commands.cfg /usr/local/nagios/etc/objects/commands.cfg
/usr/bin/install - c -b -m 664 -o nagios -g nagios sample-config/template-object/commands.cfg /usr/local/nagios/etc/objects/comtacts.cfg
/usr/bin/install - c -b -m 664 -o nagios -g nagios sample-config/template-object/combacts.cfg /usr/local/nagios/etc/objects/localhost.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/vindows.cfg /usr/local/nagios/etc/objects/localhost.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/vindows.cfg /usr/local/nagios/etc/objects/vindows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/vindows.cfg /usr/local/nagios/etc/objects/vindows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/vindows.cfg /usr/local/nagios/etc/objects/vindows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/vindows.cfg /usr/local/nagios/etc/objects/vindows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/vindows.cfg /usr/local/nagios/etc/objects/vindows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/vindows.cfg /usr/local/nagios/etc/objects/synthet.cfg
```

sudo make install-commandmode

```
[ec2-user@ip-172-31-46-179 nagios-4.4.6]$ 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-172-31-46-179 nagios-4.4.6]$
```

□ Edit the Config File to Change the Email Address

```
CONTACTS.CFG - SAMPLE CONTACT/CONTACTGROUP DEFINITIONS

NOTES: This config file provides you with some example contact and contact group definitions that you can reference in host and service definitions.

You don't need to keep these definitions in a separate file from your other object definitions. This has been done just to make things easier to understand.

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

Gefine contact

Gefine Contact Gefined Out To Where Is To Cut To Execute To Cocation Model Undo Model Make Copy Where Where Is To County To Line Model Make Copy Where Is To County To Line Model Make Copy Where Is To County To Line Model Make Copy Where Is To County To Line Model Make Copy Where Make Is To County To Line Model Make Copy Where Is To County To Line Model Make Copy Where Is To County To Line Model Make Copy Where Is To County To Line Model Make Copy Where Is To County To Line Model Make Copy Where Is To County To Line Model Make Copy Where Is To County To Line Model Make Copy Where Is To County To Line Model Make Copy Where Is To County To Line Make Model Make Copy Make Copy Make Copy To Line Make Model Make Copy To Line Make Model Make Copy M
```

Change the email address in the contacts.cfg file to your preferred email

□ Extract the Plugins Source File

```
[ec2-user@ip-172-31-46-179 nagios-4.4.6]$ cd ...
[ec2-user@ip-172-31-46-179 downloads]$ tar zxvf nagios-plugins-2.3.3.tar.gz
nagios-plugins-2.3.3/perlmods/
nagios-plugins-2.3.3/perlmods/Config-Tiny-2.14.tar.gz
nagios-plugins-2.3.3/perlmods/Parent-0.226.tar.gz
nagios-plugins-2.3.3/perlmods/Parent-0.98.tar.gz
nagios-plugins-2.3.3/perlmods/Makefile.in
nagios-plugins-2.3.3/perlmods/Makefile.in
nagios-plugins-2.3.3/perlmods/Makefile.am
nagios-plugins-2.3.3/perlmods/Module-Metadata-1.000014.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Metadata-1.000014.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Metadata-1.000014.tar.gz
nagios-plugins-2.3.3/perlmods/Try-Tiny-0.18.tar.gz
nagios-plugins-2.3.3/perlmods/Try-Tiny-0.18.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Implementation-0.07.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Implementation-0.07.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Implementation-0.07.tar.gz
nagios-plugins-2.3.3/perlmods/Makefile
nagios-plugins-2.3.3/perlmods/Magios-Plugin-0.36.tar.gz
nagios-plugins-2.3.3/perlmods/Magios-Plugin-0.36.tar.gz
nagios-plugins-2.3.3/perlmods/Magios-Plugin-0.70.tar.gz
nagios-plugins-2.3.3/perlmods/Magios-Plugin-0.36.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Build-0.4007.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Build-0.4007.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Build-0.4007.tar.gz
nagios-plugins-2.3.3/configure.ac
```

Create a Nagios Admin Account

```
[ec2-user@ip-172-31-46-179 nagios-4.4.6]$ sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
[ec2-user@ip-172-31-46-179 nagios-4.4.6]$
```

☐ Compile and Install Plugins
./configure --with-nagios-user=nagios --with-nagios-group=nagios make

```
ec2-user@ip-172-31-46-179 nagios-4.4.6]$ configure --with-nagios-user=nagios --with-nagios-group=nagios
nake
-bash: configure: command not found
Please supply a command line argument (i.e. 'make all'). Other targets are:
nagios cgis contrib modules workers
                                         install-base
  install-cgis
                                         install-html
   install-webconf
                                       install-daemoninit
install-groups-users
install-classicui
  install-init
  install-commandmode
   install-exfoliation
  install-basic
                                         install-unstripped
  fullinstall
  c2-user@ip-172-31-46-179 nagios-4.4.6]$
```

Start Nagios

sudo chkconfig --add nagios

sudo chkconfig nagios on

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

sudo systemctl start nagios

```
[ec2-user@ip-172-31-46-179 nagios-4.4.6]$ sudo chkconfig —add nagios sudo chkconfig nagios on sudo /usr/local/nagios/bin/nagios ¬v /usr/local/nagios/etc/nagios.cfg sudo systemetl start nagios error reading information on service nagios: No such file or directory Note: Forwarding request to 'systemetl enable nagios.service'.

Created symlink /etc/systemd/system/multi-user.target.wants/nagios.service → /usr/lib/systemd/system/nagios.service.

Nagios Core 4.4.6

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Last Modified: 2020-04-28

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Website: https://www.nagios.org
Reading configuration data...

Read main config file okay...

Read object config files okay...

Read object config files okay...

Checked 3 services.

Checked 1 hosts.

Checked 1 hosts.

Checked 1 contacts.

Checked 1 contact groups.

Checked 1 contact groups.

Checked 24 commands.

Checked 5 time periods.

Checked 6 host escalations.
```

```
Read main configuration data...
Read main config file okay...
Read object config files okay...

Running pre-flight check on configuration data...

Checked 0 services.
Checked 1 host groups.
Checked 0 service groups.
Checked 1 contacts.
Checked 2 commands.
Checked 2 commands.
Checked 5 time periods.
Checked 5 time periods.
Checked 0 service escalations.
Checked 0 service dependencies
Checked 1 hosts
Checked 5 service dependencies
Checked 5 timeperiods
Checked 5 timeperiods
Checking obsessive compulsive processor commands...
Checking obsessive compulsive processor commands...
Total Warnings: 0
Total Errors: 0

Things look okay - No serious problems were detected during the pre-flight check
[ec2-user@ip-172-31-46-179 nagios-4.4.6]$
```

Verify the sample configuration files

```
[ec2-user@ip-172-31-46-179 nagios-4.4.6]$ sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

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Reading configuration data...

Read main config file okay...

Read object config files okay...

Running pre-flight check on configuration data...

Checking objects...

Checked 8 services.

Checked 1 hosts.

Checked 1 hosts.

Checked 1 ost groups.

Checked 1 ost groups.

Checked 1 contacts.

Checked 1 contacts.

Checked 24 commands.

Checked 5 time periods.

Checked 5 time periods.

Checked 0 host escalations.

Checked 0 host escalations.

Checked 10 nots

Checked 1 osts

Checked 1 osts

Checked 3 service escalations.

Checked 3 service escalations.

Checked 3 service dependencies

Checked 1 sots

Checked 1 sots

Checked 3 service dependencies

Checked 3 service dependencies

Checked 1 sots

Checked 1 sots

Checked 1 sots

Checked 3 service dependencies

Checked 3 service dependencies
```

If there are no errors, you can go ahead and start Nagios and Check the status of Nagios

```
[ec2-user8ip-172-31-46-179 nagios-4.4.6]$ sudo service nagios start
Redirecting to /hin/systemctl start nagios.service
[ec2-user8ip-172-31-46-179 nagios-4.4.6]$ sudo systemctl status nagios
**nagios.service - Nagios Core 4.4.6
Loaded: loaded (/usr/lib/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/systemal/sys
```

- Access Nagios Web Interface
 Copy the Public IP address of your EC2 instance.
 Open your browser and navigate to http://nagios.
- ☐ Enter username as nagiosadmin and password you set



After sign in, this page will be displayed.
 This means that Nagios was correctly installed and configured with its plugins so far.

