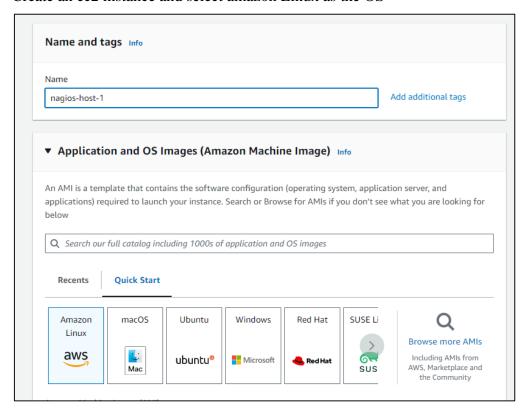
Advance DevOps

Experiment 9

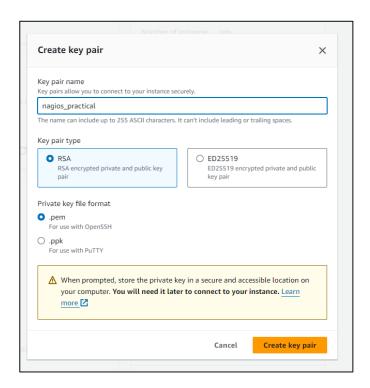
Aim: To understand continuous monitoring and installation and configuration of Nagios Core, Nagios Plugins and NRPE (Nagios Remote Plugin Executor) on Linux Machine.

Steps:

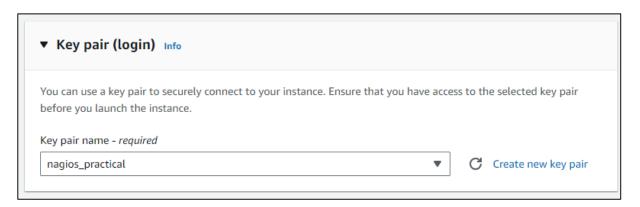
1. Create an ec2 instance and select amazon Linux as the OS



2. Now we will create a key pair.

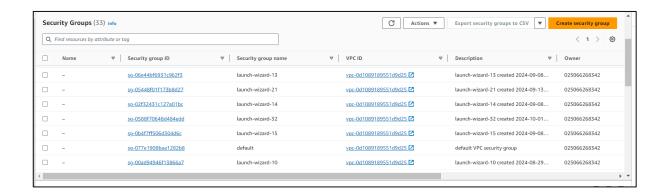


3. Use the created key pair while creating the instance



4. Once the instance is successfully initiated go to security groups and select the security group id of the instance you just created.

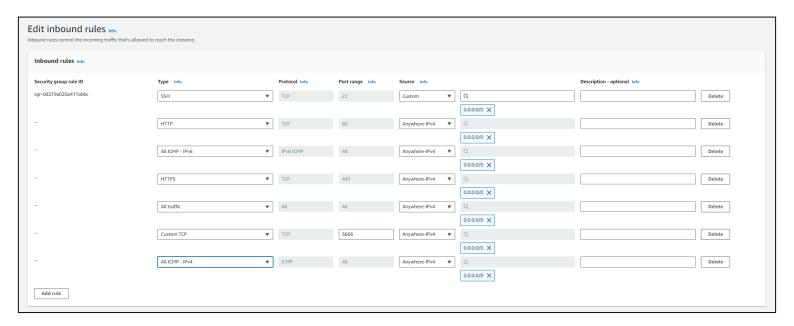
(The security group name is visible during instance creation and also on the ec2 instances dashboard)



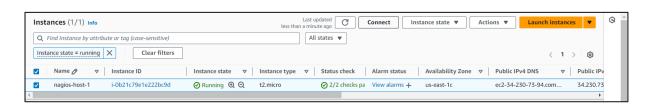
5. To edit the inbound rules select the "Edit inbound rules" button



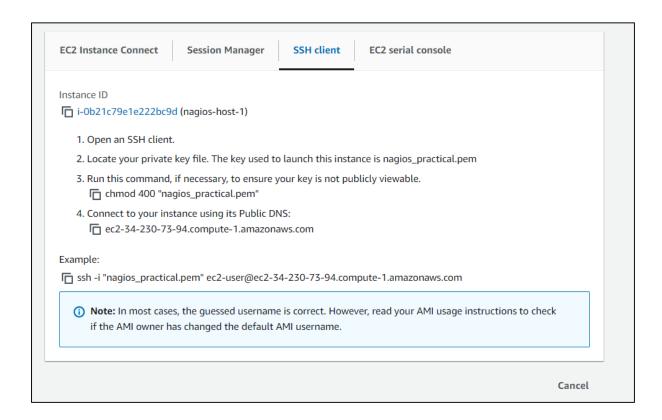
6. Add the rules as given in the screenshot below



7. Connect the instance



8. Copy the ssh command given in the ssh client section.



9. In your terminal paste the copied command, just replace the .pem file name with the actual location where the .pem file is downloaded in your system

10. Now install the following packages using yum:

sudo yum update

```
[ec2-user@ip-172-31-87-75 ~]$ sudo yum update
Last metadata expiration check: 0:30:09 ago on Tue Oct 1 15:04:44 2024.
Dependencies resolved.
Nothing to do.
Complete!
```

sudo yum install httpd php

```
[ec2-user@ip-172-31-87-75 ~]$ sudo yum install httpd php
Last metadata expiration check: 0:31:22 ago on Tue Oct  1 15:04:44 2024.
                                                                           Architecture
                                                                                                                       Version
                                                                                                                                                                                                                  Repository
                                                                                                                        2.4.62-1.amzn2023
8.3.10-1.amzn2023.0.1
                                                                                                                                                                                                                                                                            48 k
10 k
                                                                                                                                                                                                                  amazonlinux
amazonlinux
                                                                                                                       1.7.2-2.amzn2023.0.2
1.6.3-1.amzn2023.0.1
18.0.0-12.amzn2023.0.3
2.4.62-1.amzn2023
2.4.62-1.amzn2023
2.4.62-1.amzn2023
2.4.62-1.amzn2023
1.0.9-4.amzn2023.0.2
1.0.19-4.amzn2023.0.2
1.1.44-5.amzn2023.0.3
1:1.24.0-1.amzn2023.0.4
8.3.10-1.amzn2023.0.1
8.3.10-1.amzn2023.0.1
8.3.10-1.amzn2023.0.1
Installing dependencies:
                                                                                                                                                                                                                                                                         129 k
98 k
19 k
1.4 M
14 k
81 k
                                                                           x86_64
x86_64
noarch
x86_64
                                                                                                                                                                                                                 amazonlinux
                                                                                                                                                                                                                 amazonlinux
amazonlinux
  httpd-core
httpd-filesystem
httpd-tools
libbrotli
                                                                                                                                                                                                                 amazonlinux
                                                                                                                                                                                                                 amazonlinux
amazonlinux
                                                                            x86_64
                                                                                                                                                                                                                 amazonlinux
                                                                                                                                                                                                                                                                         176 k
241 k
33 k
9.8 k
3.7 M
                                                                                                                                                                                                                 amazonlinux
amazonlinux
amazonlinux
                                                                            noarch
                                                                                                                                                                                                                 amazonlinux
amazonlinux
  php8.3-common
php8.3-process
                                                                            x86_64
x86_64
                                                                                                                                                                                                                 amazonlinux
                                                                                                                                                                                                                 amazonlinux
amazonlinux
Installing weak dependencies:
                                                                                                                       1.6.3-1.amzn2023.0.1
2.0.27-1.amzn2023.0.3
2.4.62-1.amzn2023.0.1
8.3.10-1.amzn2023.0.1
8.3.10-1.amzn2023.0.1
                                                                            x86 64
                                                                                                                                                                                                                                                                            17 k
 apr-util-openssl
mod_http2
                                                                                                                                                                                                                 amazonlinux
                                                                                                                                                                                                                                                                         17 k
166 k
61 k
1.9 M
528 k
379 k
                                                                                                                                                                                                                 amazonlinux
amazonlinux
  php8.3-fpm
php8.3-mbstring
php8.3-opcache
                                                                                                                                                                                                                  amazonlinux
                                                                                                                                                                                                                 amazonlinux
amazonlinux
                                                                                                                        8.3.10-1.amzn2023.0.1
8.3.10-1.amzn2023.0.1
                                                                                                                                                                                                                  amazonlinux
Transaction Summary
```

```
Installed:
apr-1.7.2-2.amzn2023.0.2.x86_64
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-filesystem-2.4.62-1.amzn2023.0.6.4
libsodium-1.0.19-4.amzn2023.x86_64
mod_http2-2.0.27-1.amzn2023.x86_64
httpd-core-2.4.62-1.amzn2023.x86_64
libsodium-1.0.19-4.amzn2023.x86_64
libsodium-1.0.19-4.amzn2023.x86_64
mod_http2-2.0.27-1.amzn2023.x86_64
php8.3-Fpm-8.3.10-1.amzn2023.0.1.x86_64
php8.3-Fpm-8.3.10-1.amzn2023.0.1.x86_64
php8.3-pod-8.3.10-1.amzn2023.0.1.x86_64
php8.3-pod-8.3.10-1.amzn2023.0.1.x86_64
php8.3-ml-8.3.10-1.amzn2023.0.1.x86_64
php8.3-ml-8.3.10-1.amzn2023.0.1.x86_64
php8.3-ml-8.3.10-1.amzn2023.0.1.x86_64
php8.3-ml-8.3.10-1.amzn2023.0.1.x86_64
php8.3-sml-8.3.10-1.amzn2023.0.1.x86_64
php8.3-sml-8.3.10-1.amzn2023.0.1.x86_64
php8.3-sml-8.3.10-1.amzn2023.0.1.x86_64
php8.3-sml-8.3.10-1.amzn2023.0.1.x86_64
php8.3-sml-8.3.10-1.amzn2023.0.1.x86_64
php8.3-sml-8.3.10-1.amzn2023.0.1.x86_64
php8.3-sml-8.3.10-1.amzn2023.0.1.x86_64
```

sudo yum install gcc glibc glibc-common

```
| Color | Colo
```

```
Installed:
annobin-docs-10.93-1.amzn2023.0.1.noarch
gc-8.0.4-5.amzn2023.0.2.x86_64
glibc-headers-x86-2.34-52.amzn2023.0.11.noarch
libmpc-1.2.1-2.amzn2023.0.2.x86_64
make-1:4.3-5.amzn2023.0.2.x86_64
```

annobin-plugin-gcc-10.93-1.amzn2023.0.1.x86_64 gcc-11.4.1-2.amzn2023.0.2.x86_64 guile22-2.2.7-2.amzn2023.0.3.x86_64 libtool-ltdl-2.4.7-1.amzn2023.0.3.x86_64

cpp-11.4.1-2.amzn2023.0.2.x86_64 glibc-devel-2.34-52.amzn2023.0.11.x86_64 kernel-headers-6.1.109-118.189.amzn2023.x86_64 libxcrypt-devel-4.4.33-7.amzn2023.x86_64

sudo yum install gd gd-devel

```
| Distalled: | brotli-1.9.9-4.amzn2023.0.2.x86_64 | brotli-devel-1.9.9-4.amzn2023.0.2.x86_64 | cairo-1.17.6-2.amzn2023.0.1.x86_64 | cairo-1.17.6-2.amzn2023.0.1.x86_64 | cairo-1.17.6-2.amzn2023.0.1.x86_64 | fontconfig-devel-2.13.2-5.amzn2023.0.2.x86_64 | fontconfig-devel-2.13.2-5.amzn2023.0.2.x86_64 | fonts-filesystem=1:2.0.5-12.amzn2023.0.2.x86_64 | gd-devel-2.3.3-5.amzn2023.0.2.x86_64 | gd-devel-2.3.3-5.amzn2023.0.2.x86_64 | fonts-filesystem=1:2.0.5-12.amzn2023.0.2.x86_64 | fonts-filesystem=1:2.0.5-12.amzn2023.0.2.x86_64 | fonts-filesystem=1:2.0.5-12.amzn2023.0.2.x86_64 | fonts-filesystem=1:2.0.2.amzn2023.0.2.x86_64 | fonts-filesystem=1:2.0.2.amzn2023.0
```

11. Create a new Nagios User with its password using the below given commands.

sudo adduser -m nagios sudo passwd nagios

```
[ec2-user@ip-172-31-87-75 ~]$ sudo adduser -m nagios sudo passwd nagios
Changing password for user nagios.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[ec2-user@ip-172-31-87-75 ~]$ |
```

12. Create a new user group

sudo groupadd nagcmd

```
[ec2-user@ip-172-31-87-75 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-87-75 ~]$ |
```

13. Next execute these commands so that you don't have to use sudo for Apache and Nagios:

sudo usermod -a -G nagemd nagios

sudo usermod -a -G nagcmd apache

```
[ec2-user@ip-172-31-87-75 ~]$ sudo usermod -a -G nagcmd nagios sudo usermod -a -G nagcmd apache [ec2-user@ip-172-31-87-75 ~]$ |
```

14. Create a new directory for Nagios downloads

mkdir ~/downloads cd ~/downloads

```
[ec2-user@ip-172-31-87-75 ~]$ mkdir ~/downloads cd ~/downloads [ec2-user@ip-172-31-87-75 downloads]$
```

15. Use wget to download the source zip files.

wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.5.5.tar.gz

wget https://nagios-plugins.org/download/nagios-plugins-2.4.11.tar.gz

16. Use tar to unzip and change to that directory.

tar zxvf nagios-4.5.5.tar.gz

```
[ec2-user@ip-172-31-87-75 downloads]$ tar zxvf nagios-4.5.5.tar.gz
nagios-4.5.5/
nagios-4.5.5/.github/
nagios-4.5.5/.github/workflows/
nagios-4.5.5/.github/workflows/test.yml
nagios-4.5.5/.gitipnore
nagios-4.5.5/.gitignore
nagios-4.5.5/ContrrButing.md
nagios-4.5.5/Changelog
nagios-4.5.5/INSTALLING
nagios-4.5.5/IEGAL
nagios-4.5.5/ICENSE
nagios-4.5.5/FEADME.md
nagios-4.5.5/FEADME.md
nagios-4.5.5/FEADME.md
nagios-4.5.5/Jeclocal.m4
nagios-4.5.5/Jeclocal.m4
nagios-4.5.5/Jeclocal.m4
nagios-4.5.5/Jeclocal.m4
nagios-4.5.5/Jeclocal.m4
nagios-4.5.5/Jeclocal.m4
nagios-4.5.5/Jeclocal.m6
nagios-4.5.5/J
```

17. We have to now change the directory to nagios-4.5.5, for this first verify whether nagios-4.5.5 exists by using ls command.

```
[ec2-user@ip-172-31-87-75 downloads]$ ls
nagios-4.5.5 nagios-4.5.5.tar.gz nagios-plugins-2.4.11.tar.gz
```

18. As nagios-4.5.5 is present we will now use cd command to change directory.

```
[ec2-user@ip-172-31-87-75 downloads]$ cd nagios-4.5.5
[ec2-user@ip-172-31-87-75 nagios-4.5.5]$ |
```

19. Now we will install openssl dev library by using the command: sudo yum install openssl-devel

20. Run the configuration script

./configure --with-command-group=nagcmd

```
[ec2-user@ip-172-31-87-75 nagios-4.5.5]$ ./configure --with-command-group=nagcmd checking for a BSD-compatible install... /usr/bin/install -c checking build 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 whether we are cross compiling... no checking whether we are cross compiling... no checking whether the compiler supports GNU C... yes checking whether gcc accepts -g... yes checking whether gcc accepts -g... yes checking for gcc option to enable C11 features... none needed checking whether ln -s works... yes checking whether ln -s works... yes checking for strip... /usr/bin/strip checking for strip... /usr/bin/strip checking for stdio.h... yes checking for stdio.h... yes checking for stdio.h... yes checking for stdlib.h... yes checking for string.h... yes
```

```
*** Configuration summary for nagios 4.5.5 2024-09-17 ***:
General Options:
        Nagios executable: nagios
        Nagios user/group: nagios, nagios
       Command user/group:
Event Broker:
                               nagios, nagcmd
                               yes
         Install ${prefix}:
                               /usr/local/nagios
                               /usr/local/nagios/include/nagios/run/nagios.lock
    Install ${includedir}:
                 Lock file:
   Check result directory:
                               /usr/local/nagios/var/spool/checkresults
            Init directory:
                               /lib/systemd/system
/etc/httpd/conf.d
  Apache conf.d directory:
                               /bin/mail
              Mail program:
                    Host OS:
                               linux-gnu
                               epoll
           IOBroker Method:
 Web Interface Options:
                   HTML 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.
```

21. To compile the source code run "make all"

```
[ec2-user@ip-172-31-87-75 nagios-4.5.5]$ make all
cd ./base && make
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.5.5/base'
gcc -Wall -I. . -I. -I. /lib -I. /include -I. /include -I. . -g -02 - DHAVE_CONFIG_H -DNSCORE -c -o nagios.o ./nagios.c
gcc -Wall -I. . -I. -I. /lib -I. /include -I. /include -I. . -g -02 - DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. . -I. -I. /lib -I. /include -I. /include -I. . -g -02 - DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. . -I. -I. /lib -I. /include -I. /include -I. . -g -02 - DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. . -I. -I. /lib -I. /include -I. /include -I. . -g -02 - DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. . -I. -I. /lib -I. /include -I. /include -I. . -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. . -I. -I. /lib -I. /include -I. /include -I. . -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. . -I. -I. /lib -I. /include -I. /include -I. . -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. . -I. -I. /lib -I. /include -I. /include -I. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. . -I. -I. /lib -I. /include -I. /include -I. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. -I. -I. /lib -I. /include -I. /include -I. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. -I. -I. /lib -I. /include -I. /include -I. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmods.c
gcc -Wall -I. -I. -I. /lib -I. /include -I. /include -I. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.c
gcc -Wall -I. -I. -I. /lib -I. /include -I. /include -I. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.c
gcc -Wall -I. -I. -I. /lib -I. /include -I. /include -I. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.c
gcc -Wall -I. -I. -I. /lib -I. /include -I. /include -I. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.c
gcc -Wall -I. -I. -I. /lib -I. /include -I. /include -I. -g -02
```

22. To install binaries, init script and sample config files run

sudo make install-init
sudo make install-config

sudo make install-commandmode

```
[ec2-user@ip-172-31-87-75 nagios-4.5.5]$ sudo make install
sudo make install-init
sudo make install-config
sudo make install-commandmode
cd ./base && make install
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.5.5/base'
//usr/bin/install -c -m 775 -o nagios -g nagios -d //usr/local/nagios/bin
//usr/bin/install -c -s -m 774 -o nagios -g nagios nagios //usr/local/nagios/bin
//usr/bin/install -c -s -m 774 -o nagios -g nagios nagios //usr/local/nagios/bin
//usr/bin/install -c -s -m 774 -o nagios -g nagios nagios //usr/local/nagios/bin
make[1]: Leaving directory '/home/ec2-user/downloads/nagios-4.5.5/cgi'
make [1]: Entering directory '/home/ec2-user/downloads/nagios-4.5.5/cgi'
make install-basic
make[2]: Entering directory '/home/ec2-user/downloads/nagios-4.5.5/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 -s -m 775 -o nagios -g nagios $file //usr/local/nagios/sbin; \
done
make[2]: Leaving directory '/home/ec2-user/downloads/nagios-4.5.5/cgi'
make[1]: Leaving directory '/home/ec2-user/downloads/nagios-4.5.5/cgi'
cd ./html && make install
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.5.5/cgi'
cd ./html && make install
make[1]: c-m 775 -o nagios -g nagios -d //usr/local/nagios/share/media
//usr/bin/install -c -m 775 -o nagios -g nagios -d //usr/local/nagios/share/edia
//usr/bin/install -c -m 775 -o nagios -g nagios -d //usr/local/nagios/share/contexthelp
//usr/bin/install -c -m 775 -o nagios -g nagios -d //usr/local/nagios/share/simages
//usr/bin/install -c -m 775 -o nagios -g nagios -d //usr/local/nagios/share/images
//usr/bin/install -c -m 775 -o nagios -g nagios -d //usr/local/nagios/share/images
//usr/bin/install -c -m 775 -o nagios -g nagios -d //usr/local/nagios/share/images
//usr/bin/install -c -m 775 -o nagios -g nagios -d //usr/local/nagios/share/images
//usr/bin/install -c -m 775 -o nagios -g nagios -d //usr/local/nagios/share/images
//usr/bin/install -c -m 775 -o nagios -g nagios -d //usr/local/na
```

23. In the config file edit the email address

sudo nano /usr/local/nagios/etc/objects/contacts.cfg

24. To configure the web interface run:

sudo make install-webconf

25. Create a nagios admin account and password sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin

```
[ec2-user@ip-172-31-87-75 nagios-4.5.5]$ sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
```

26. Restart apache

sudo service httpd restart

```
[ec2-user@ip-172-31-87-75 nagios-4.5.5]$ sudo service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[ec2-user@ip-172-31-87-75 nagios-4.5.5]$ |
```

27. Go back to the downloads folder by using "cd ~/downloads" and unzip the plugins zip file using

tar zxvf nagios-plugins-2.4.11.tar.gz

```
[ec2-user@ip-172-31-87-75 nagios-4.5.5]$ cd ~/downloads
tar zxvf nagios-plugins-2.4.11.tar.gz
nagios-plugins-2.4.11/
nagios-plugins-2.4.11/build-aux/
nagios-plugins-2.4.11/build-aux/compile
nagios-plugins-2.4.11/build-aux/config.guess
nagios-plugins-2.4.11/build-aux/config.rpath
nagios-plugins-2.4.11/build-aux/config.sub
nagios-plugins-2.4.11/build-aux/install-sh
nagios-plugins-2.4.11/build-aux/ltmain.sh
nagios-plugins-2.4.11/build-aux/missing
nagios-plugins-2.4.11/build-aux/mkinstalldirs
nagios-plugins-2.4.11/build-aux/depcomp
nagios-plugins-2.4.11/build-aux/snippet/
nagios-plugins-2.4.11/build-aux/snippet/_Noreturn.h
nagios-plugins-2.4.11/build-aux/snippet/arg-nonnull.h
nagios-plugins-2.4.11/build-aux/snippet/c++defs.h
nagios-plugins-2.4.11/build-aux/snippet/warn-on-use.h
nagios-plugins-2.4.11/build-aux/test-driver
nagios-plugins-2.4.11/config_test/
nagios-plugins-2.4.11/config_test/Makefile
nagios-plugins-2.4.11/config_test/run_tests
nagios-plugins-2.4.11/config_test/child_test.c
nagios-plugins-2.4.11/gl/
```

28. Compile and install the plugins

cd nagios-plugins-2.0.3

./configure --with-nagios-user=nagios --with-nagios-group=nagios

```
[ec2-user@ip-172-31-87-75 downloads]$ cd nagios-plugins-2.4.11
./configure --with-nagios-user=nagios --with-nagios-group=nagios
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 make supports nested variables... yes
checking whether to enable maintainer-specific portions of Makefiles... yes
checking build 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 whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
```

make

sudo make install

29. Run below given commands to start nagios: sudo chkconfig --add nagios sudo chkconfig nagios on

```
[ec2-user@ip-172-31-87-75 nagios-plugins-2.4.11]$ sudo chkconfig --add nagios
sudo chkconfig nagios on
error reading information on service nagios: No such file or directory
Note: Forwarding request to 'systemctl enable nagios.service'.
Created symlink /etc/systemd/system/multi-user.target.wants/nagios.service → /usr/lib/systemd/system/nagios.service.
```

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

```
[ec2-user@ip-172-31-87-75 nagios-plugins-2.4.11]$ sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
Nagios Core 4.5.5
Copyright (c) 2099-present Nagios Core Development Team and Community Contributors
Copyright (c) 1999-2809 Ethan Galstad
Last Modified: 2024-89-17
License: GPL

Website: https://www.nagios.org
Reading configuration data...
Read main config file okay...
Read object config files okay...
Read object config files okay...

Checking objects...
Checked 8 services.
Checked 1 hosts.
Checked 1 hosts.
Checked 1 ontacts.
Checked 1 contacts.
Checked 1 contacts.
Checked 1 contacts.
Checked 2 commands.
Checked 2 service groups.
Checked 2 sime periods.
Checked 9 service escalations.
Checked 9 service escalations.
Checked 9 service escalations.
Checked 9 contacts.
Checked 9 service commands.
Checked 9 service commands.
Checked 9 service commands.
Checked 9 service escalations.
Checked 9 service commands.
Checked 9 service commands.
Checked 9 service commands.
Checked 9 service commands...
```

If the message says no errors detected then run "sudo service nagios start"

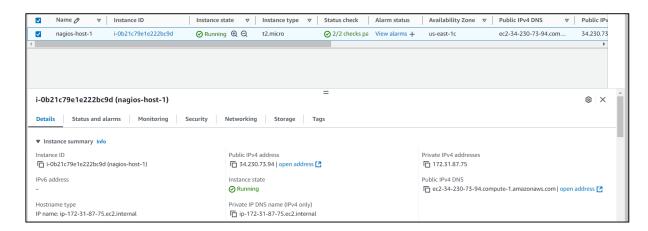
```
[ec2-user@ip-172-31-87-75 nagios-plugins-2.4.11]$ sudo service nagios start Redirecting to /bin/systemctl start nagios.service [ec2-user@ip-172-31-87-75 nagios-plugins-2.4.11]$ |
```

sudo systemctl status nagios

```
Checking global event handlers...
Checking obsessive compulsive processor commands...
Checking obsessive compulsive processor commands...
Total Warnings: 8
Total Errors: 8
Total Errors: 9
Total Errors: 9
Total Errors: 9
Total Warnings: 8
Total Errors: 9
```

We can see that Nagios has been initialized correctly and its status is active.

30. Go back to your instances and copy the public IPv4 address

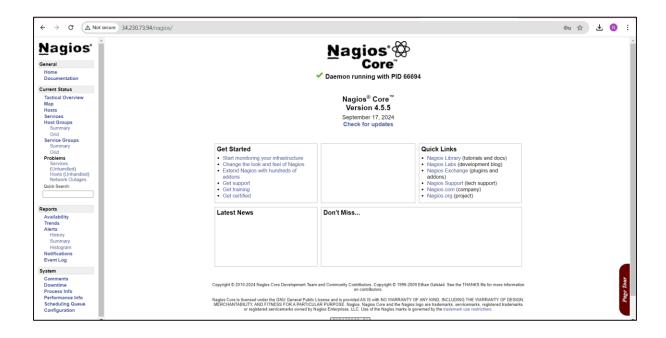


31. Lastly, go to your web browser and type "http://<public-IPv4-address>/nagios" Replace public-IPv4-address with the public ip address of your instance which you copied.

You will get a prompt to enter the username and password that have been set for nagios admin in step 25.



You will see the below shown page after entering credentials.



Conclusion: In this experiment the main issue that I faced was accessing the nagios web interface due to a "Forbidden: You do not have permission to access this resource" error This issue was resolved by adjusting the inbound security rules and ensuring that all necessary files were installed in the correct directories. It is also important to restart apache after doing any changes for the changes to get reflected. Once Nagios was activated without errors, the output was successfully displayed on the web interface.