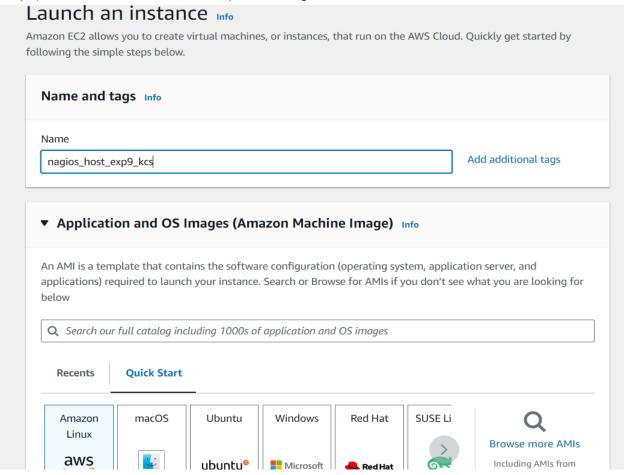
Name: Kshitij Hundre

Div: D15C Roll No:18

Adv-Devops Exp 9

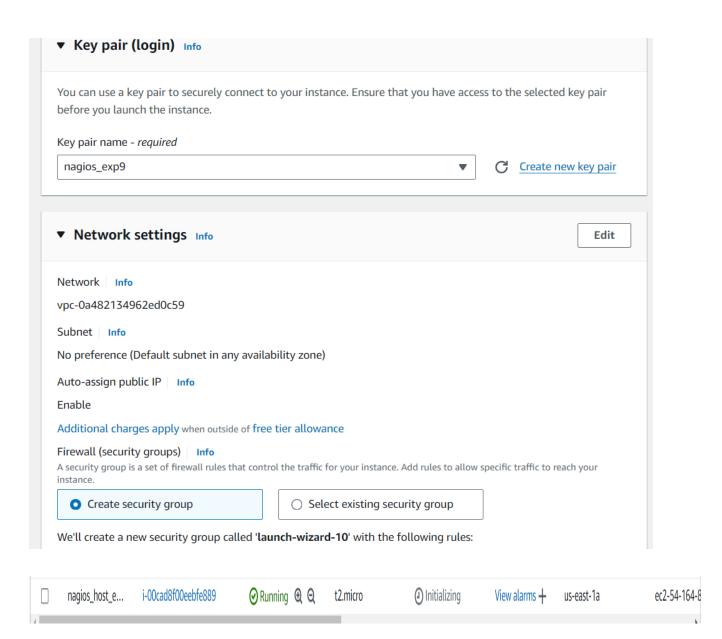
Steps to perform the experiment:

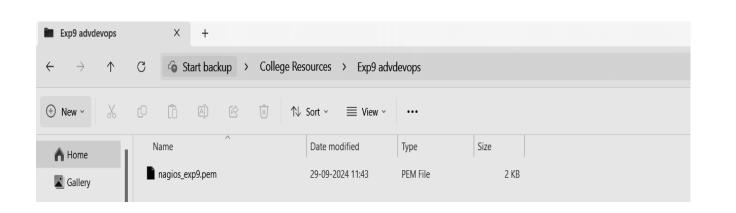
Step1) Create an EC2 instance.keep the settings as default.



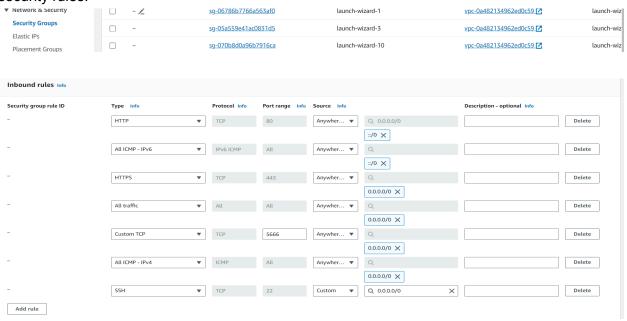
Create a new key pair login and save the downloaded file in a folder of your local desktop.

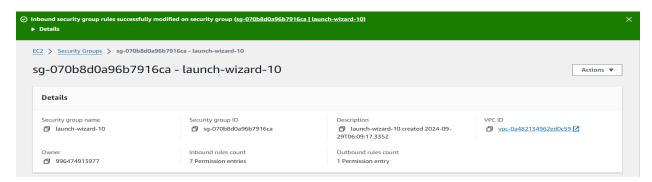
Also create a new security group. In my case its name will 'launch-wizard-10'. Later we will edit rules of this security group.



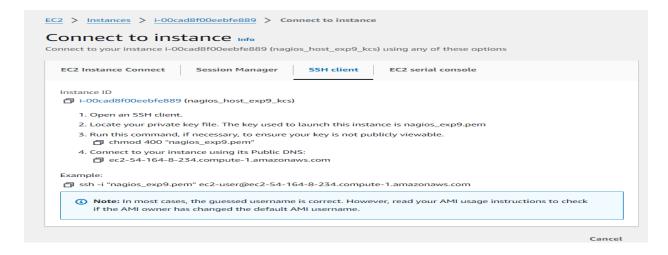


Now to edit security groups, select your security group and click on edit inbound rules. Add these security rules.





now navigate to instances, click on the instance which was created earlier and click on connect. now copy the ssh command and just replace the .pem file with its actual location in your computer.



ssh -i "nagios_exp9.pem" <u>ec2-user@ec2-54-164-8-234.compute-1.amazonaws.com</u>...paste this command in terminal..just replace your.pem file path.

sudo yum update

```
[ec2-user@ip-172-31-86-195 ~]$ sudo yum update
Last metadata expiration check: 0:32:14 ago on Sun Sep 29 06:16:51 2024.

Dependencies resolved.

Nothing to do.

Complete!

[ec2-user@ip-172-31-86-195 ~]$
```

sudo yum install httpd php Select y when asked i prompt.

```
[ec2-user@ip-172-31-86-195 ~]$ sudo yum install httpd php
Last metadata expiration check: 0:33:12 ago on Sun Sep 29 06:16:51 2024.
Dependencies resolved.
______
Package
                             Architecture
                                             Version
                                                                                Repository
______
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:
                                                                                                     129 k
                             x86_64
                                              1.7.2-2.amzn2023.0.2
                                                                                amazonlinux
apr
                             x86_64
                                              1.6.3-1.amzn2023.0.1
apr-util
                                                                                amazonlinux
                                                                                                      98 k
generic-logos-httpd
                                              18.0.0-12.amzn2023.0.3
                                                                                                      19 k
                             noarch
                                                                                amazonlinux
 httpd-core
                             x86_64
                                              2.4.62-1.amzn2023
                                                                                amazonlinux
                                                                                                     1.4 M
                                              2.4.62-1.amzn2023
2.4.62-1.amzn2023
httpd-filesystem
                             noarch
                                                                                amazonlinux
                                                                                                      14 k
httpd-tools
                                                                                                      81 k
                             x86_64
                                                                                amazonlinux
 libbrotli
                                              1.0.9-4.amzn2023.0.2
                                                                                                     315 k
                             x86 64
                                                                                amazonlinux
                                              1.0.19-4.amzn2023
                                                                                                     176 k
libsodium
                             x86_64
                                                                                amazonlinux
                             x86_64
                                              1.1.34-5.amzn2023.0.2
                                                                                                      241 k
libxslt
                                                                                amazonlinux
                                                                                                     33 k
9.8 k
3.7 M
mailcap
                             noarch
                                              2.1.49-3.amzn2023.0.3
                                                                                amazonlinux
nginx-filesystem
                             noarch
                                              1:1.24.0-1.amzn2023.0.4
                                                                                amazonlinux
php8.3-cli
php8.3-common
                             x86_64
x86_64
                                              8.3.10-1.amzn2023.0.1
                                                                                amazonlinux
                                              8.3.10-1.amzn2023.0.1
                                                                                                      737 k
                                                                                amazonlinux
php8.3-process
                             x86_64
                                              8.3.10-1.amzn2023.0.1
                                                                                amazonlinux
php8.3-xml
                                              8.3.10-1.amzn2023.0.1
                             x86_64
                                                                                amazonlinux
                                                                                                     154 k
Installing weak dependencies:
                                              1.6.3-1.amzn2023.0.1
                                                                                amazonlinux
                                                                                                      17 k
apr-util-openssl
                             x86 64
```

sudo yum install gcc glibc glibc-common

[ec2-user@ip-172-31-86-195 ~]\$ sudo yum install gcc glibc glibc-common Last metadata expiration check: 0:35:10 ago on Sun Sep 29 06:16:51 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.

Package	Architecture	Version	Repository	Size
<pre>Installing:</pre>				========
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
срр	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	6.1.109-118.189.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

sudo yum install gd gd-devel

[ec2-user@ip-172-31-86-195 ~]\$ sudo yum install gd gd-devel Last metadata expiration check: 0:36:28 ago on Sun Sep 29 06:16:51 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

sudo adduser -m nagios sudo passwd nagios

[ec2-user@ip-172-31-86-195 ~]\$ sudo adduser -m nagios sudo passwd nagios

Changing password for user nagios.

New password:

Retype new password:

passwd: all authentication tokens updated successfully.

sudo groupadd nagcmd

[ec2-user@ip-172-31-86-195 ~]\$ sudo groupadd nagcmd [ec2-user@ip-172-31-86-195 ~]\$

```
sudo usermod -a -G nagcmd nagios sudo usermod -a -G nagcmd apache
```

```
[ec2-user@ip-172-31-86-195 ~]$ sudo usermod -a -G nagcmd nagios sudo usermod -a -G nagcmd apache [ec2-user@ip-172-31-86-195 ~]$
```

mkdir ~/downloads cd ~/downloads

```
[ec2-user@ip-172-31-86-195 ~]$ mkdir ~/downloads cd ~/downloads [ec2-user@ip-172-31-86-195 downloads]$
```

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

tar zxvf nagios-4.5.5.tar.gz

```
[ec2-user@ip-172-31-86-195 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/.gitignore
nagios-4.5.5/CONTRIBUTING.md
nagios-4.5.5/Changelog
nagios-4.5.5/INSTALLING
nagios-4.5.5/LEGAL
nagios-4.5.5/LICENSE
nagios-4.5.5/Makefile.in
nagios-4.5.5/README.md
nagios-4.5.5/THANKS
nagios-4.5.5/UPGRADING
```

Now we have to first navigate to the nagios-4.5.5 folder in downloads.

• commands to enter:

Is (verify whether nagios-4.5.5 exists). Then go inside nagios 4.5.5 using cd.

```
[ec2-user@ip-172-31-86-195 downloads]$ ls
nagios-4.5.5 nagios-4.5.5.tar.gz nagios-plugins-2.4.11.tar.gz
[ec2-user@ip-172-31-86-195 downloads]$ cd nagios-4.5.5
[ec2-user@ip-172-31-86-195 nagios-4.5.5]$
```

we now have to install openssl dev library

The OpenSSL development library, or openssl-devel contains include files that help develop applications that use cryptographic algorithms and protocols

commands to enter:

sudo yum install openssl-devel

```
[ec2-user@ip-172-31-86-195 nagios-4.5.5]$ sudo yum install openssl-devel Last metadata expiration check: 1:13:15 ago on Sun Sep 29 06:16:51 2024. Dependencies resolved.
             ______
                          Architecture Version Repository S.
Installing:
                                                                                                                                                 1:3.0.8-1.amzn2023.0.14
  openssl-devel
                                                                                    x86_64
                                                                                                                                                                                                                                                                                                                                                     3.0 M
                                                                                                                                                                                                                                                                      amazonlinux
Transaction Summary
                                                          ______
Install 1 Package
Total download size: 3.0 M
Installed size: 4.7 M
Is this ok [y/N]: y
Downloading Packages
openssl-devel-3.0.8-1.amzn2023.0.14.x86_64.rpm
                                                                                                                                                                                                                                                                          31 MB/s | 3.0 MB
                                                                                                                                                                                                                                                                          22 MB/s | 3.0 MB
Running transaction check
 Transaction check succeeded.
Running transaction test
 Transaction test succeeded.
Running transaction
     Preparing
Installing
     | Installing | copenssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64 | Running scriptlet: openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64 | Verifying | copenssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64 | Copenssl-devel-1:3.0.8-1.amzn2023.0.14 | Copenssl-devel-1:3.0.8-1.amzn2023.0.14 | Copenssl-devel-1:3.0.8-1.amzn2023.0.14 | Copens
      openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64
Complete!
```

Then finally we can run the commands like usual.

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

```
[ec2-user@ip-172-31-86-195 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 for gcc... gcc checking for 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 whether we are cross compiling... no checking whether the compiler supports GNU C... yes checking whether gcc accepts -g... yes checking for gcc option to enable C11 features... none needed checking whether make sets $(MAKE)... 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 stdib.h... yes checking for string.h... yes checking for string.h... yes checking for string.h... yes checking for string.h... yes checking for strings.h... yes checking for stdint.h... yes checking for stdint.h... yes checking for strings.h... yes
```

make all

```
[ec2-user@ip-172-31-86-195 nagios-4.5.5]$ make all cd ./base && make make[l]: 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 broker.o broker.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.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o ./common/shared.c gcc -Wall -I.. -I. -I../lib -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o ./common/shared.c gcc -Wall -I.. -I. -I../lib -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o query-handler.c qcc -Wall -I.. -I.. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o ovorkers.o workers.c
```

If you have questions about configuring or running Nagios, please make sure that you:

- Look at the sample config files
- Read the documentation on the Nagios Library at: https://library.nagios.com

before you post a question to one of the mailing lists.
Also make sure to include pertinent information that could help others help you. This might include:

- What version of Nagios you are using
- What version of the plugins you are using
- Relevant snippets from your config files
- Relevant error messages from the Nagios log file

For more information on obtaining support for Nagios, visit:

https://support.nagios.com

Enjoy.

sudo make install sudo make install-init sudo make install-config sudo make install-commandmode

```
[ec2-user@ip-172-31-86-195 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 nagiostats /usr/local/nagios/bin make[1]: Leaving directory '/home/ec2-user/downloads/nagios-4.5.5/base' cd ./cgi && make install make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.5.5/cgi'
```

Now the next command will take us to nano editor:

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

```
/usr/local/nagios/etc/objects/contacts.cfg
GNU nano 5.8
 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 {
                                                  ; Short name of user
; Inherit default values from generic-contact template (defined above)
    contact_name
                           nagiosadmin
                           generic-contact
    alias
                           Nagios Admin ; Full name of user
nagios@localhost ; <<***** CHANGE THIS TO YOUR EMAIL ADDRESS ******
M-] To Bracket
                ^O Write Out
^R Read File
                                                                                   ^C Location
^/ Go To Line
                                                                                                                    M-A Set Mark
M-6 Copy
```

Change your email

Press crtl + O and enter

Press crtl + X

[ec2-user@ip-172-31-86-195 nagios-4.5.5]\$ sudo nano /usr/local/nagios/etc/objects/contacts.cfg
[ec2-user@ip-172-31-86-195 nagios-4.5.5]\$ |

sudo make install-webconf

Adding password for nagios admin

sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin

```
[ec2-user@ip-172-31-86-195 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
[ec2-user@ip-172-31-86-195 nagios-4.5.5]$
```

sudo service httpd restart

```
[ec2-user@ip-172-31-86-195 nagios-4.5.5]$ sudo service httpd restart Redirecting to /bin/systemctl restart httpd.service [ec2-user@ip-172-31-86-195 nagios-4.5.5]$
```

cd ~/downloads

tar zxvf nagios-plugins-2.4.11.tar.gz

```
[ec2-user@ip-172-31-86-195 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/ltmain.sh
```

cd nagios-plugins-2.4.11

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

```
[ec2-user@ip-172-31-86-195 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 for gcc... gcc
```

sudo chkconfig --add nagios sudo chkconfig nagios on

make

sudo make install

```
[ec2-user@ip-172-31-86-195 nagios-plugins-2.4.11]$ make
sudo make install
make all-recursive
make[1]: Entering directory '/home/ec2-user/downloads/nagios-plugins-2.4.11'
Making all in gl
make[2]: Entering directory '/home/ec2-user/downloads/nagios-plugins-2.4.11/gl'
rm -f alloca.h-t alloca.h && \
{ echo '/* DO NOT EDIT! GENERATED AUTOMATICALLY! */'; \
    cat ./alloca.in.h; \
} > alloca.h-t && \
mv -f alloca.h-t alloca.h
rm -f c++defs.h-t c++defs.h && \
sed -n -e '/_GL_CXXDEFS/,$p' \
```

sudo chkconfig --add nagios sudo chkconfig nagios on

```
[ec2-user@ip-172-31-86-195 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

```
Running pre-flight check on configuration data...
Checking objects..
         Checked 8 services.
         Checked 1 hosts.
         Checked 1 host groups.
         Checked 0 service groups.
         Checked 1 contacts.
         Checked 1 contact groups.
Checked 24 commands.
         Checked 5 time periods.
Checked 0 host escalations.
         Checked 0 service escalations.
Checking for circular paths...
Checked 1 hosts
Checked 0 service dependencies
         Checked 0 host dependencies
         Checked 5 timeperiods
Checking global event handlers.
Checking obsessive compulsive processor commands...
Checking misc settings...
Total Warnings: 0
Total Errors:
Things look okay - No serious problems were detected during the pre-flight check
[ec2-user@ip-172-31-86-195 nagios-plugins-2.4.11]$
```

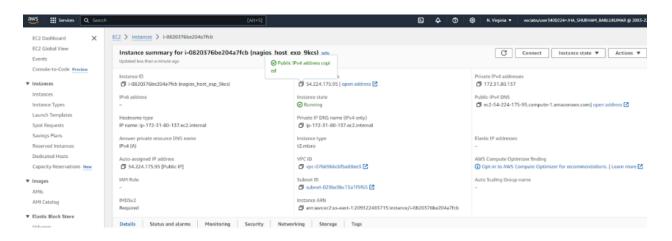
sudo service nagios start

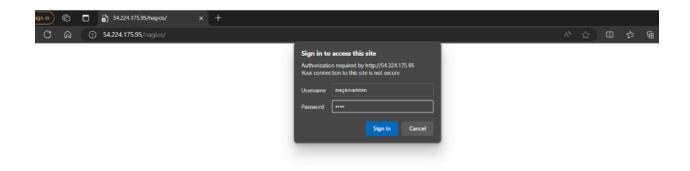
```
[ec2-user@ip-172-31-86-195 nagios-plugins-2.4.11]$ sudo service nagios start Redirecting to /bin/systemctl start nagios.service [ec2-user@ip-172-31-86-195 nagios-plugins-2.4.11]$
```

sudo systemctl status nagios

```
[ec2-user@ip-172-31-86-195 nagios-plugins-2.4.11]$ sudo systemctl status nagios
• nagios.service - Nagios Core 4.5.5
       Loaded: loaded (/usr/lib/systemd/system/nagios.service; enabled; preset: disabled)
Active: active (running) since Sun 2024-09-29 08:00:47 UTC; 1min 5s ago
          Docs: https://www.nagios.org/documentation
      Process: 66625 ExecStartPre=/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg (code=exited, status=0
      Process: 66626 ExecStart=/usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SU
    Main PID: 66627 (nagios)
         Tasks: 6 (limit: 1112)
       Memory: 5.8M
           CPU: 90ms
       CGroup: /system.slice/nagios.service
                     -66627 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
                     -66628 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
                     -66629 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
                     -66630 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
                      -66631 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
                    66632 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
Sep 29 08:00:47 ip-172-31-86-195.ec2.internal nagios[66627]: qh: Socket '/usr/local/nagios/var/rw/nagios.qh' successful Sep 29 08:00:47 ip-172-31-86-195.ec2.internal nagios[66627]: qh: core query handler registered Sep 29 08:00:47 ip-172-31-86-195.ec2.internal nagios[66627]: qh: echo service query handler registered Sep 29 08:00:47 ip-172-31-86-195.ec2.internal nagios[66627]: qh: help for the query handler registered
Sep 29 08:00:47 ip-172-31-86-195.ec2.internal nagios[66627]: wproc: Successfully registered manager as @wproc with quer
Sep 29 08:00:47 ip-172-31-86-195.ec2.internal nagios[66627]: wproc: Registry request: name=Core Worker 66630;pid=66630
Sep 29 08:00:47 ip-172-31-86-195.ec2.internal nagios[66627]: wproc: Registry request: name=Core Worker 66631;pid-66631 Sep 29 08:00:47 ip-172-31-86-195.ec2.internal nagios[66627]: wproc: Registry request: name=Core Worker 66631;pid-66628 Sep 29 08:00:47 ip-172-31-86-195.ec2.internal nagios[66627]: wproc: Registry request: name=Core Worker 66628;pid-66628 Sep 29 08:00:48 ip-172-31-86-195.ec2.internal nagios[66627]: Successfully launched command file worker with pid 66632
```

Now, go to EC2 instance and click on instance id. Then, click on the copy icon just before the public ip address on public IP.







Conclusion:

In this experiment, we successfully installed and configured Nagios Core, Nagios Plugins, and NRPE on a Linux machine for continuous monitoring. Nagios proves to be an essential tool in DevOps culture by detecting network and server issues in real-time, ensuring infrastructure health. Its scalability, security, and ability to send automated alerts enhance monitoring efficiency. By integrating NRPE, we extended monitoring to remote hosts, allowing proactive troubleshooting. Overall, Nagios is highly customizable with its plugin support and architecture, making it invaluable for maintaining service availability and operational stability.