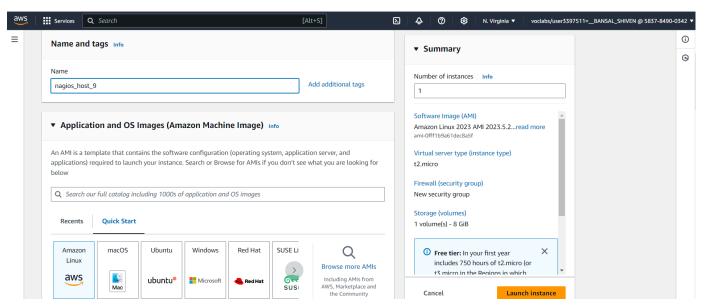
Name: SHIVEN BANSAL Roll no: 03 Class: D15C

### **Experiment-9**

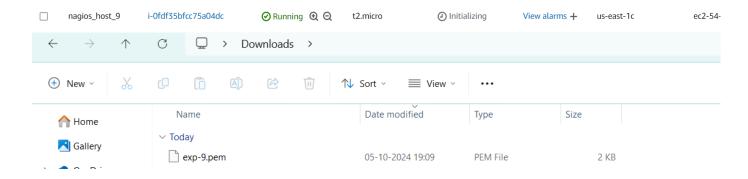
Steps to perform the experiment:

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

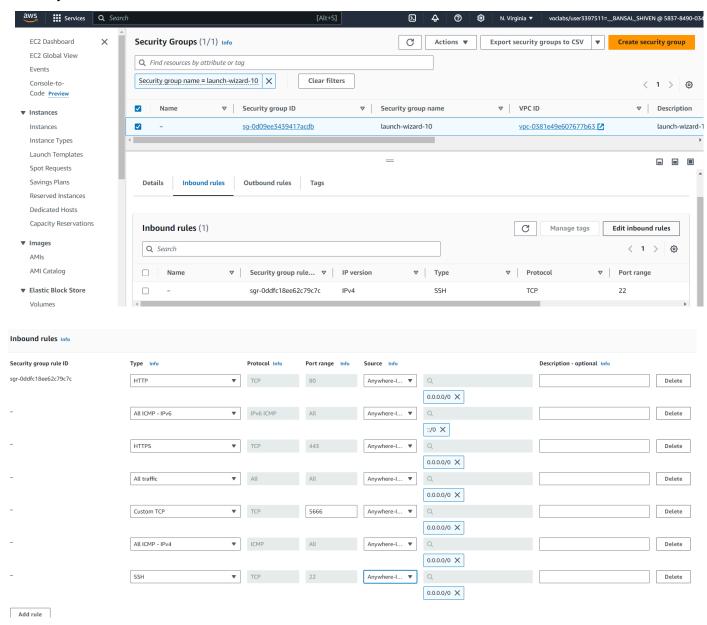


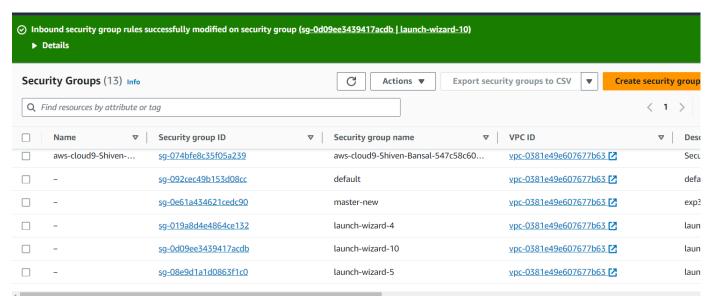
Create a new key pair login and save the downloaded file in a folder of your local desktop. Also create a new security group. In my case its name will 'launch-wizard-10'.

Later we will edit rules of this security group.

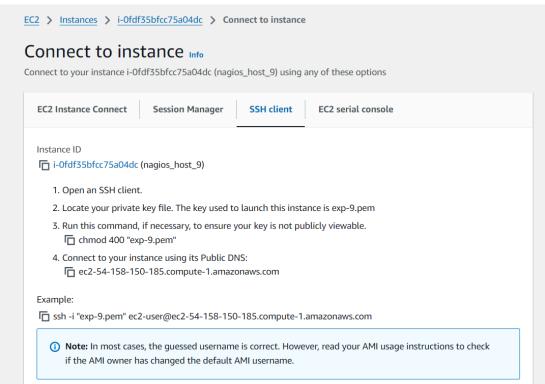


Now to edit security groups, select your security group and click on edit inbound rules. Add these security rules.





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 "exp-9.pem" <u>ec2-user@ec2-54-158-150-185.compute-1.amazonaws.com</u> ...paste this command in terminal..just replace your.pem file path.

```
C:\Users\ADMIN\Downloads>ssh -i "exp-9.pem" ec2-user@ec2-54-158-150-185.compute-1.amazonaws.com
The authenticity of host 'ec2-54-158-150-185.compute-1.amazonaws.com (54.158.150.185)' can't be established.
ED25519 key fingerprint is SHA256:MLHx7pxctPRettGDRiKHoksaoKOtmmQSzs1BuQKnQeo.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-54-158-150-185.compute-1.amazonaws.com' (ED25519) to the list of known hosts.
      ####_
                    Amazon Linux 2023
     \_####\
 ~~
        \###|
          \#/
                    https://aws.amazon.com/linux/amazon-linux-2023
           V~' '->
       _/m/'
[ec2-user@ip-172-31-47-54 ~]$|
```

### sudo yum update

```
[ec2-user@ip-172-31-47-54 ~]$ sudo yum update
Last metadata expiration check: 0:11:09 ago on Sat Oct 5 13:40:09 2024.
Dependencies resolved.
Nothing to do.
Complete!
```

### sudo yum install httpd php Select v when asked i prompt.

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 dependenci				
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
mod_lua	x86_64	2.4.62-1.amzn2023	amazonlinux	61 k
php8.3-fpm	x86_64	8.3.10-1.amzn2023.0.1	amazonlinux	1.9 M
php8.3-mbstring	x86_64	8.3.10-1.amzn2023.0.1	amazonlinux	528 k
php8.3-opcache	x86_64	8.3.10-1.amzn2023.0.1	amazonlinux	379 k
php8.3-pdo	x86_64	8.3.10-1.amzn2023.0.1	amazonlinux	89 k
php8.3-sodium	x86_64	8.3.10-1.amzn2023.0.1	amazonlinux	41 k

### sudo yum install gcc glibc glibc-common

[ec2-user@ip-172-31-47-54 ~]\$ sudo yum install gcc glibc glibc-common Last metadata expiration check: 0:15:43 ago on Sat Oct 5 13:40:09 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
======================================			
qcc	x86_64	11.4.1-2.amzn2023.0.2	amazonlinux
Installing dependencies:			
annobin-docs	noarch	10.93-1.amzn2023.0.1	amazonlinux
annobin-plugin-gcc	x86_64	10.93-1.amzn2023.0.1	amazonlinux
срр	x86_64	11.4.1-2.amzn2023.0.2	amazonlinux
gc	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
kernel-headers	x86_64	6.1.109-118.189.amzn2023	amazonlinux
libmpc	x86_64	1.2.1-2.amzn2023.0.2	amazonlinux
libtool-ltdl	x86_64	2.4.7-1.amzn2023.0.3	amazonlinux
libxcrypt-devel	x86_64	4.4.33-7.amzn2023	amazonlinux
make	x86_64	1:4.3-5.amzn2023.0.2	amazonlinux

Install 13 Packages

### sudo yum install gd gd-devel

[ec2-user@ip-172-31-47-54 ~]\$ sudo yum install gd gd-devel Last metadata expiration check: 0:16:31 ago on Sat Oct 5 13:40:09 2024. Dependencies resolved.

Dependencies resolved.					
Package	Architecture	Version	Repository	S	
Installing:					
gd	x86_64	2.3.3-5.amzn2023.0.3	amazonlinux	13	
gd-devel	x86_64	2.3.3-5.amzn2023.0.3	amazonlinux	3	
Installing dependencies:					
brotli	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux	31	
brotli-devel	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux	3	
bzip2-devel	x86_64	1.0.8-6.amzn2023.0.2	amazonlinux	21	
cairo	x86_64	1.17.6-2.amzn2023.0.1	amazonlinux	68	
cmake-filesystem	x86_64	3.22.2-1.amzn2023.0.4	amazonlinux	1	
fontconfig	x86_64	2.13.94-2.amzn2023.0.2	amazonlinux	27	
fontconfig-devel	x86_64	2.13.94-2.amzn2023.0.2	amazonlinux	12	
fonts-filesystem	noarch	1:2.0.5-12.amzn2023.0.2	amazonlinux	9.	
freetype	x86_64	2.13.2-5.amzn2023.0.1	amazonlinux	42	
freetype-devel	x86_64	2.13.2-5.amzn2023.0.1	amazonlinux	91	
glib2-devel	x86_64	2.74.7-689.amzn2023.0.2	amazonlinux	48	
google-noto-fonts-common	noarch	20201206-2.amzn2023.0.2	amazonlinux	1	

## sudo adduser -m nagios sudo passwd

[ec2-user@ip-172-31-47-54 ~]\$ sudo adduser -m nagios [ec2-user@ip-172-31-47-54 ~]\$ sudo passwd nagios Changing password for user nagios.

New password:

BAD PASSWORD: The password is shorter than 8 characters Retype new password:

Sorry, passwords do not match.

New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password: passwd: all authentication tokens updated successfully.

[ec2-user@ip-172-31-47-54 ~]\$|

### nagios

### sudo groupadd nagcmd

```
[ec2-user@ip-172-31-47-54 ~]$ sudo groupadd nagcmd
```

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

```
[ec2-user@ip-172-31-47-54 ~]$ sudo usermod -a -G nagcmd nagios [ec2-user@ip-172-31-47-54 ~]$ sudo usermod -a -G nagcmd apache [ec2-user@ip-172-31-47-54 ~]$ |
```

mkdir ~/downloads cd ~/downloads

```
[ec2-user@ip-172-31-47-54 ~]$ mkdir ~/downloads
[ec2-user@ip-172-31-47-54 ~]$ cd ~/downloads
[ec2-user@ip-172-31-47-54 downloads]$|
```

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

### wget <a href="https://nagios-plugins.org/download/nagios-plugins-2.4.11.tar.gz">https://nagios-plugins.org/download/nagios-plugins-2.4.11.tar.gz</a>

### tar zxvf nagios-4.5.5.tar.gz

```
[ec2-user@ip-172-31-47-54 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
nagios-4.5.5/aclocal.m4
nagios-4.5.5/autoconf-macros/
nagios-4.5.5/autoconf-macros/.gitignore
nagios-4.5.5/autoconf-macros/CHANGELOG.md nagios-4.5.5/autoconf-macros/LICENSE
nagios-4.5.5/autoconf-macros/LICENSE.md
nagios-4.5.5/autoconf-macros/README.md
nagios-4.5.5/autoconf-macros/add_group_user
```

### 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-172-31-47-54 downloads]$ ls
nagios-4.5.5 nagios-4.5.5.tar.gz nagios-plugins-2.4.11.tar.gz
[ec2-user@ip-172-31-47-54 downloads]$ cd nagios-4.5.5/
[ec2-user@ip-172-31-47-54 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-172-31-47-54 nagios-4.5.5]$ sudo yum install openssl-devel
Last metadata expiration check: 0:31:58 ago on Sat Oct 5 13:40:09 2024.
Dependencies resolved.
 Package
                                     Architecture
                                                                                                                Repository
        ______
Installing:
                                     x86_64
                                                                  1:3.0.8-1.amzn2023.0.14
                                                                                                                                                   3.0 M
                                                                                                                 amazonlinux
Transaction Summary
            -----
Install 1 Package
Total download size: 3.0 M
Installed 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
                                                                                                                                               00:00
                                                                                                                          21 MB/s | 3.0 MB
Running transaction check
Transaction check succeeded
Running transaction test
Transaction test succeeded
Running transaction
  Preparing
Installing
  Installing : openssl-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
                  : openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64
  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-172-31-47-54 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 for suffix of object files... o 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
```

#### make all

```
[ec2-user@ip-172-31-47-54 nagios-4.5.5]$ make all
[ec2_user@ip-172-31-47-54 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 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../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o ../common/shared.c gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o ../common/shared.c gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I. -I../lib -I../include -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I.. -I../lib -I../include -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I.. -I../lib -I../include -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I.. -I../lib -I../include -I../include -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c gcc -Wall -I.. -I.. -I../include -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o outery-handler.c 
In function 'get_wproc_list',
    inlined from 'get_worker' at workers.c:277:12:
workers.c:253:17: warning: '%s' directive argument is null [-Wformat-overflow=]
                                                                                                                            "Found specialized worker(s) for '%s'", (slash && *slash != '/') ? slash : cmd_name);
    253
 acc _wall _T _T _T /lib _T /ipaludo _T /ipaludo _T __a _02 _DUAVE COMETO U _DNSCODE _c _c chacks o chacks
  *** Support Notes ********************
  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-172-31-47-54 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'
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
```

### 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
# 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
        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
Nagios Admin
                            Nagios Admin ; Full name of user
nagios@localhost; <<***** CHANGE THIS TO YOUR EMAIL ADDRESS ******
    alias
   email
[ Read 51 lines ]
^T Execute ^0
^J Justify ^/
                 ^O Write Out
^R Read File
                                  ^W Where Is
^\ Replace
                                                                                       ^C Location
^/ Go To Line
                                                                                                                          M-A Set Mark
M-6 Copy
                                                                                                                                             To Bracket
                                                                                                        M-U Undo
M-E Redo
                                                    ^U Paste
                                                                                                                                              Where Was
```

### Change your email

```
define contact {

contact_name use generic-contact ; Inherit default values from generic-contact template (defined above) alias Nagios Admin ; Full name of user email 2022.shiven.bansal@ves.ac.in|; <<***** CHANGE THIS TO YOUR EMAIL ADDRESS ******
}
```

Press crtl + O and enter Press crtl + X

```
[ec2-user@ip-172-31-47-54 nagios-4.5.5]$ sudo nano /usr/local/nagios/etc/objects/contacts.cfg [ec2-user@ip-172-31-47-54 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-172-31-47-54 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-172-31-47-54 nagios-4.5.5]$ |
```

### sudo service httpd restart

```
[ec2-user@ip-172-31-47-54 nagios-4.5.5]$ sudo service httpd restart Redirecting to /bin/systemctl restart httpd.service [ec2-user@ip-172-31-47-54 nagios-4.5.5]$ |
```

### cd ~/downloads

### tar zxvf nagios-plugins-2.4.11.tar.gz

```
[ec2-user@ip-172-31-47-54 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
```

### cd nagios-plugins-2.4.11

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

```
[ec2-user@ip-172-31-47-54 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...
```

#### make

### sudo make install

```
[ec2-user@ip-172-31-47-54 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' \
    < ../build-aux/snippet/c++defs.h \
> c++defs.h-t && \
```

# sudo chkconfig --add nagios sudo chkconfig nagios on

```
[ec2-user@ip-172-31-47-54 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.

[ec2-user@ip-172-31-47-54 nagios-plugins-2.4.11]$ |
```

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

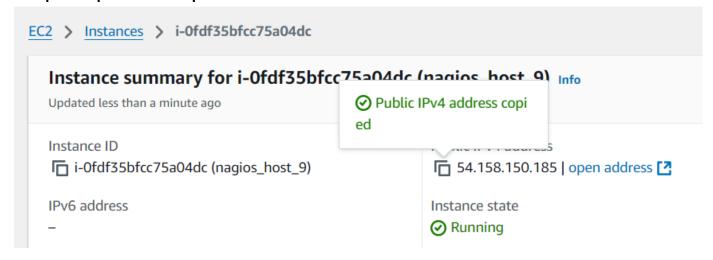
```
[ec2-user@ip-172-31-47-54 nagios-plugins-2.4.11]$ sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg
Nagios Core 4.5.5
Copyright (c) 2009-present Nagios Core Development Team and Community Contributors
Copyright (c) 1999-2009 Ethan Galstad
Last Modified: 2024-09-17
License: GPL
Website: https://www.nagios.org
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 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-172-31-47-54 nagios-plugins-2.4.11]$
```

### sudo service nagios start

```
[ec2-user@ip-172-31-47-54 nagios-plugins-2.4.11]$ sudo service nagios start
Redirecting to /bin/systemctl start nagios.service
[ec2-user@ip-172-31-47-54 nagios-plugins-2.4.11]$ |
```

### sudo systemctl status nagios

# 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.



Lastly, go to your web browser and type "http:///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

← → C ② 54.158.150.185/nagios	
	Sign in  http://54.158.150.185 Your connection to this site is not private  Username nagiosadmin  Password Sign in Cancel



### Conclusion:

In this experiment, we installed and configured Nagios Core, Nagios Plugins, and NRPE on a Linux system to enable continuous monitoring. Nagios is a vital tool in the DevOps ecosystem, providing real-time detection of network and server issues, which helps ensure the health of the infrastructure. Its scalability, robust security, and automated alerting system enhance the effectiveness of monitoring. By integrating NRPE, we extended Nagios' capabilities to monitor remote hosts, enabling proactive issue resolution. With its highly customizable architecture and extensive plugin support, Nagios proves to be indispensable for maintaining service uptime and operational stability.