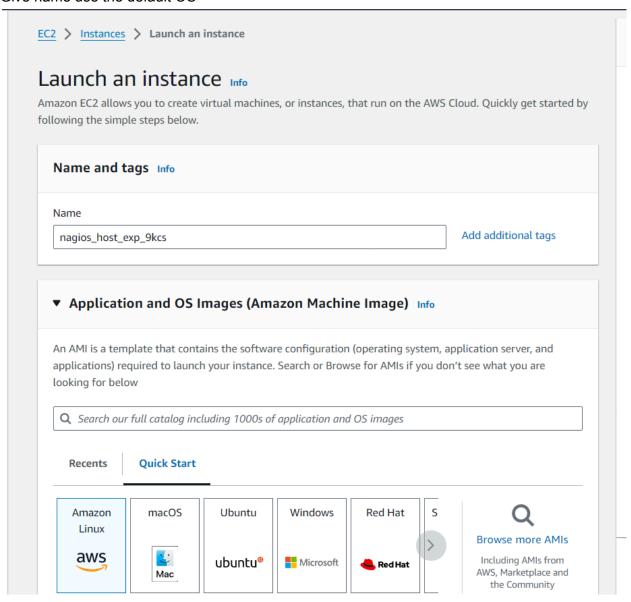
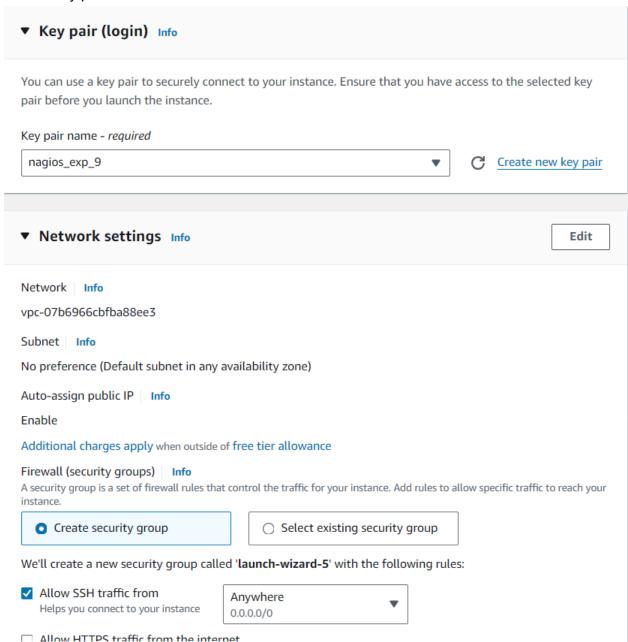
### **Steps**

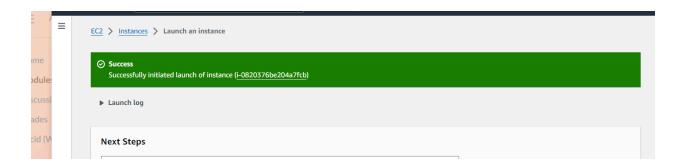
Launch an ec2 instance Give name use the default OS



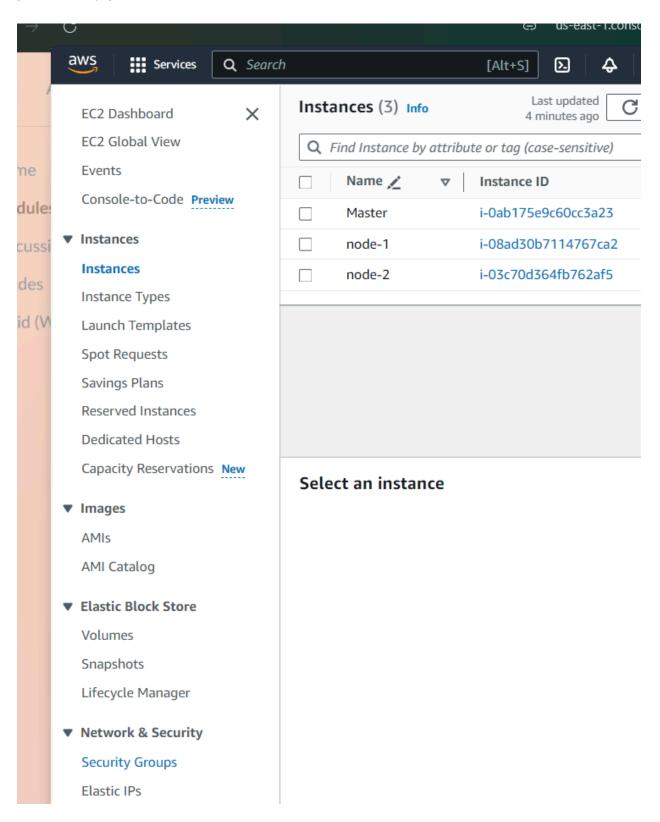
### Make a key pair and use it.



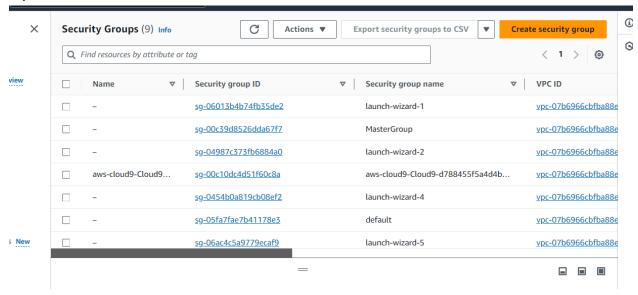
Note the name of the security group that was created for future use: here it is 'launch-wizard-5'



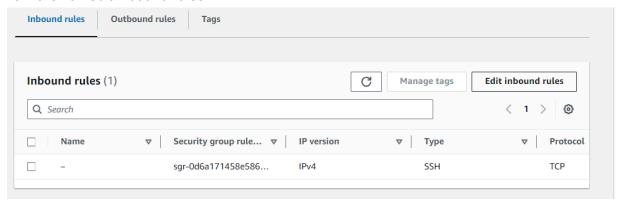
go to security groups:



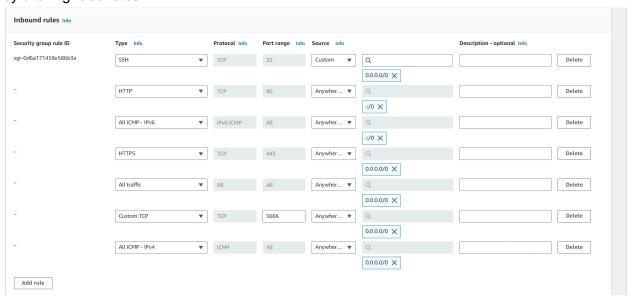
click the security group id which was created while you created the ec2 instance of this experiment.



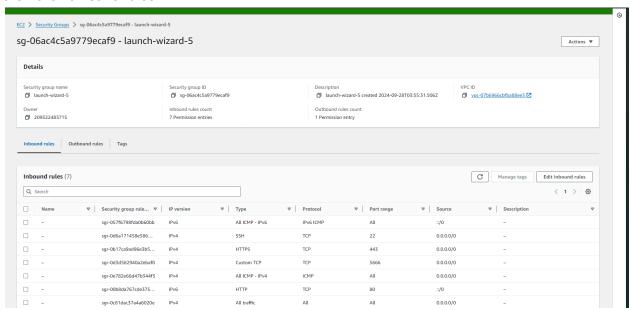
### now click on edit inbound rules



# now do the following configurations: by clicking "add rules"



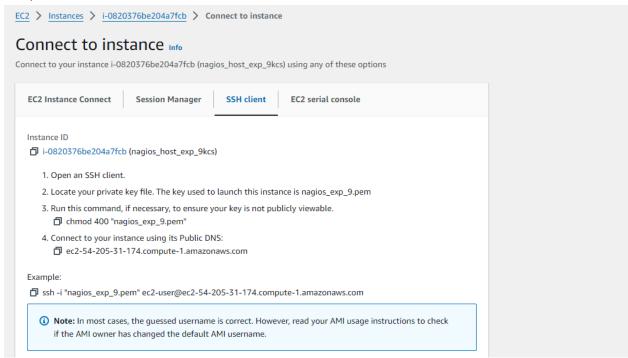
### then click on save rules.



### 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.



paste the command in your terminal and enter after replacing the .pem file with its actual location in your system.

# now paste the following commands in your connected terminal:

### sudo yum update

```
_/m/'
[ec2-user@ip-172-31-80-137 ~]$ sudo yum update
Last metadata expiration check: 2:21:45 ago on Sat Sep 28 03:59:04 2024.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-80-137 ~]$ |
```

### sudo yum install httpd php

```
[ec2-user@ip-172-31-80-137 ~]$ sudo yum install httpd php
Last metadata expiration check: 2:22:53 ago on Sat Sep 28 03:59:04 2024.
Dependencies resolved.
Package
                                                                                          Repository
                                Architecture
                                                   Version
______
Installing:
                                                    2.4.62-1.amzn2023
                                                                                          amazonlinux
httpd
                                x86_64
                                                   8.3.10-1.amzn2023.0.1
                                                                                         amazonlinux
Installing dependencies:
                                x86_64
                                                    1.7.2-2.amzn2023.0.2
                                                                                         amazonlinux
                                                   1.6.3-1.amzn2023.0.1
18.0.0-12.amzn2023.0.3
2.4.62-1.amzn2023
                                x86_64
                                                                                          amazonlinux
generic-logos-httpd
                                noarch
                                                                                          amazonlinux
                                x86_64
 httpd-core
                                                                                          amazonlinux
                                                    2.4.62-1.amzn2023
                                noarch
                                                                                          amazonlinux
```

(type y when prompted)

### sudo yum install gcc glibc glibc-common

Package	Architecture	Version	Repository
============================== Installing:			
gcc	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
Transaction Summary			
======================================		=======================================	=======================================
mseace 15 rackages			
Total download size: 52 M			

sudo yum install gd gd-devel

```
graphite2—devel—1.3.14—7.amzn2023.0.2.x86_64
harfbuzz—devel—7.0.0—2.amzn2023.0.1.x86_64
harfbuzz—devel—7.0.0—2.amzn2023.0.1.x86_64
libfuz=1.3.14—7.amzn2023.0.1.x86_64
libX1—1.7.2—3.amzn2023.0.2.x86_64
libX1—1.7.2—3.amzn2023.0.2.x86_64
libX1—devel—1.7.2—3.amzn2023.0.2.x86_64
libXi—devel—1.7.2—3.amzn2023.0.2.x86_64
libXi—amzn2023.0.2.x86_64
libXi—amzn2023.0.2.x86_64
libXi—amzn2023.0.2.x86_64
libXi—amzn2023.0.2.x86_64
libXi—amzn2023.0.2.x86_64
libXi—amzn2023.0.2.x86_64
libXi—amzn2023.0.2.x86_64
libXi—amzn2023.0.2.x86_64
libXi—amzn2023.0.2.x86_64
libixi—devel—3.4—1.amzn2023.0.2.x86_64
libixi—devel—3.4—1.amzn2023.0.3.x86_64
libixi—devel—3.4—1.amzn2023.0.3.x86_64
libixi—devel—3.4—1.amzn2023.0.3.x86_64
libixi—devel—3.4—1.amzn2023.0.3.x86_64
libixi—devel—3.4—1.amzn2023.0.3.x86_64
libixi—devel—3.4—1.amzn2023.0.3.x86_64
libixi—devel—1.4.0—4.amzn2023.0.3.x86_64
libixi—devel—4.0—4.amzn2023.0.3.x86_64
libixi—devel—4.0—4.amzn2023.0.3.x86_64
libixi—devel—4.0—4.amzn2023.0.3.x86_64
libixi—devel—4.0—4.amzn2023.0.3.x86_64
libixi—devel—4.0—4.amzn2023.0.3.x86_64
libixi—devel—4.0—4.amzn2023.0.3.x86_64
libixi—devel—4.0—4.amzn2023.0.3.x86_64
libixi—devel—4.0—4.amzn2023.0.
```

sudo adduser -m nagios sudo passwd nagios

```
Complete!
[ec2-user@ip-172-31-80-137 ~]$ sudo adduser -m nagios
sudo passwd nagios
Changing password for user nagios.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[ec2-user@ip-172-31-80-137 ~]$ |
```

( add a password here)

sudo groupadd nagcmd

```
[ec2-user@ip-172-31-80-137 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-80-137 ~]$ |
```

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

```
[ec2-user@ip-172-31-80-137 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-80-137 ~]$ sudo usermod -a -G nagcmd nagios
sudo usermod -a -G nagcmd apache
[ec2-user@ip-172-31-80-137 ~]$ |
```

mkdir ~/downloads cd ~/downloads

```
[ec2-user@ip-172-31-80-137 ~]$ mkdir ~/downloads
cd ~/downloads
[ec2-user@ip-172-31-80-137 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-172-31-80-137 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/Changelog
nagios-4.5.5/LEGAL
nagios-4.5.5/LICENSE
nagios-4.5.5/Makefile.in
```

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)

### we now have to install openssl dev library

### commands to enter:

sudo yum install openssl-devel

```
[ec2-user@ip-172-31-80-137 nagios-4.5.5]$ sudo yum install openssl-devel
Last metadata expiration check: 2:31:25 ago on Sat Sep 28 03:59:04 2024.
 Dependencies resolved.
       Architecture
  Package
                                                            Version
                                                                                                             Repository
                                                                                                                                               Size
 Installing:
                                                              1:3.0.8-1.amzn2023.0.14
                                                                                                                                              3.0 M
                                    x86_64
                                                                                                              amazonlinux
 Transaction Summary
 Install 1 Package
 Total download size: 3.0 M
Installed size: 4.7 M
Is this ok [y/N]: y
                                                                                                                18 MB/s | 3.0 MB
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
 Preparing :
Preparing :
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
Installed:
openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64
 Complete!
[ec2-user@ip-172-31-80-137 nagios-4.5.5]$ |
```

Then finally we can run the commands like usual.

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

```
[ec2-user@ip-172-31-80-137 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 whether gcc accepts -g... yes checking whether make sets $(MAKE)... yes checking whether ln -s works... yes checking for strip... /usr/bin/strip checking for stdio.h... yes checking for stdio.h... yes checking for stdio.h... yes checking for stdio.h... yes checking for stdiib.h... yes checking for string.h... yes checking for string.h... yes checking for inttypes.h... yes checking for stdiith h yes
```

#### make all

```
[ec2-user@ip-172-31-80-137 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 ./nagio
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o broker.o broker.
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmod
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o nebmods.o nebmod
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 query-handler.o
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o worker
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o worker
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o worker
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o worker
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o worker
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o worker
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o worker
gcc -Wall -I.. -I. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o worker
gcc -Wall -I.. -I.. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o worker
gcc -Wall -I.. -I.. -I../lib -I../include -I../include -I.. -g -02 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o workers.o workers.o workers.o workers.o workers.o workers.o workers.o workers.o work
```

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

```
[ec2-user@ip-172-31-80-137 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 \
```

Now the next command will take us to nano editor:

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

```
nagiosexp9
                           /usr/local/nagios/etc/objects/contacts.cfg
GNU nano 5.8
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.
Just one contact defined by default - the Nagios admin (that's you)
                                  [ Read 51 lines ]
 Help
          ^O Write Out
                     Where Is
                               Cut
                                        <sup>^</sup>T Execute
                                                  ^C Location
                                                            M-U Undo
```

navigate down to email: and change it to your email address.

```
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 (define
    contact_name
                            nagiosadmin
                             generic-contact
                            Nagios Admin ; Full name of user
2022.shubham.jha@ves.ac.in ; <<***** CHANGE THIS TO YOUR EMAIL ADDRESS ******
    alias
    email
CONTACT GROUPS
               T Execute C Location M-U Undo
press Ctrl+O and then enter.
then press Ctrl +X
chmod g+s /usr/local/nagios/var/rw
 *** External command directory configured ***
 [ec2-user@ip-172-31-80-137 nagios-4.5.5]$ sudo nano /usr/local/nagios/etc/objects/contacts.cfg
 [ec2-user@ip-172-31-80-137 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-172-31-80-137 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-172-31-80-137 nagios-4.5.5]$|
```

sudo service httpd restart

```
[ec2-user@ip-172-31-80-137 nagios-4.5.5]$ sudo service httpd restart Redirecting to /bin/systemctl restart httpd.service [ec2-user@ip-172-31-80-137 nagios-4.5.5]$ |
```

### cd ~/downloads

tar zxvf nagios-plugins-2.4.11.tar.gz

```
[ec2-user@ip-172-31-80-137 downloads]$ cd ~/downloads
car zxvf nagios-plugins-2.4.11/
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
```

### cd nagios-plugins-2.4.11

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

```
[ec2-user@ip-172-31-80-137 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
checking whether gcc accepts -g... yes
checking whether gcc understands -c and -o together... yes
checking whether make supports the include directive... yes (GNU style)
```

### make

#### sudo make install

## sudo chkconfig --add nagios sudo chkconfig nagios on

```
[ec2-user@ip-172-31-80-137 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-172-31-80-137 nagios-plugins-2.4.11]$|
```

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

```
Note: Forwarding request to 'systemctle maglos. Service'.

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

[ec2-user@ip-172-31-80-137 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 hosts,

Checked 1 host groups.

Checked 1 contacts.

Checked 1 contacts.

Checked 1 contacts.

Checked 2 commands.

Checked 5 time periods.

Checked 5 time periods.

Checked 5 time periods.
```

**If this command is giving error!** (Error in configuration file '/usr/local/nagios/etc/nagios.cfg' - Line 452 (Check result path '/usr/local/nagios/var/spool/checkresults' is not a valid directory) Error processing main config file!)

### The solution:

### Create the missing directory, set the permissions, verify it.

```
sudo mkdir -p /usr/local/nagios/var/spool/checkresults (this is for creation) sudo chown nagios:nagios /usr/local/nagios/var/spool/checkresults sudo chmod 775 /usr/local/nagios/var/spool/checkresults (this is for permissions)
```

### Now rerun the commmad (also given below) and continue:

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

sudo service nagios start

```
hings look okay - No serious problems were detected during the pre-flight check
ec2-user@ip-172-31-80-137 nagios-plugins-2.4.11]$ sudo service nagios start
tedirecting to /bin/systemctl start nagios.service
ec2-user@ip-172-31-80-137 nagios-plugins-2.4.11]$ |
```

```
[ec2-user@ip-172-31-80-137 nagios-plugins-2.4.11]$ sudo systemctl status nagios

nagios.service - Nagios Core 4.5.5

Loaded: loaded (/usr/lib/system/nagios.service; enabled; preset: disabled)

Active: active (running) since Sat 2024-09-28 07:40:16 UTC; 35s ago

Docs: https://www.nagios.org/documentation

Process: 71009 ExecStatrPre=/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)

Process: 71010 ExecStatr=/usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)

Process: 71010 ExecStatr=/usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)

Main PID: 71011 (nagios)

Tasks: 6 (limit: 1112)

Memory: 5.6M

CPU: 82ms

CGroup: /system.slice/nagios.service

-71012 /usr/local/nagios/bin/nagios -worker /usr/local/nagios/var/rw/nagios.qh
-71013 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-71014 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-71015 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-71016 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-71017 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-71018 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-71019 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-71014 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-71015 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
-71014 /usr/local/nagios/bin/nagios --worker /usr/local/
```

(ignore if no error was found)

Again if this is giving an error then it is primarily because Nagios monitoring tool is unable to create or write to a temporary file in the "/usr/local/nagios/var/"

# To debug it lets start by checking the permissions:

Is -ld /usr/local/nagios/var

### Changing the ownership

sudo chown -R nagios:nagios /usr/local/nagios/var

### **Modify permissions**

sudo chmod -R 755 /usr/local/nagios/var

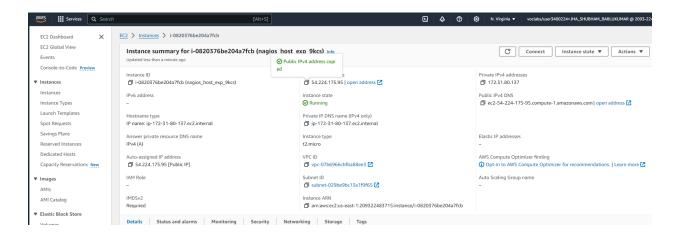
### Restart Nagios service

sudo systemctl restart nagios

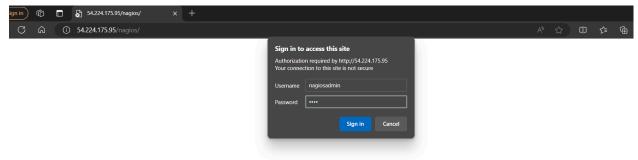
check status of nagios, Rerun the command
(the command which gave the recent error)

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.



Enter the username password set above. (in the section of adding password for nagios admin)





### Conclusion:

Setting up Nagios on an EC2 instance was a rewarding yet challenging experience for me. I began by launching an instance using the default operating system and configuring it to monitor my network. The installation process went smoothly at first; I installed essential packages, created users, and configured Nagios as planned.

However, I encountered a few hurdles along the way. One significant issue arose when the Apache server was not running, which prevented me from accessing the Nagios web interface. After some troubleshooting, I realized that restarting the Apache service was necessary to resolve this.

Additionally, I faced permission issues that initially hindered Nagios from creating or writing to temporary files. By checking the ownership and permissions of the necessary directories, I managed to address this issue effectively.