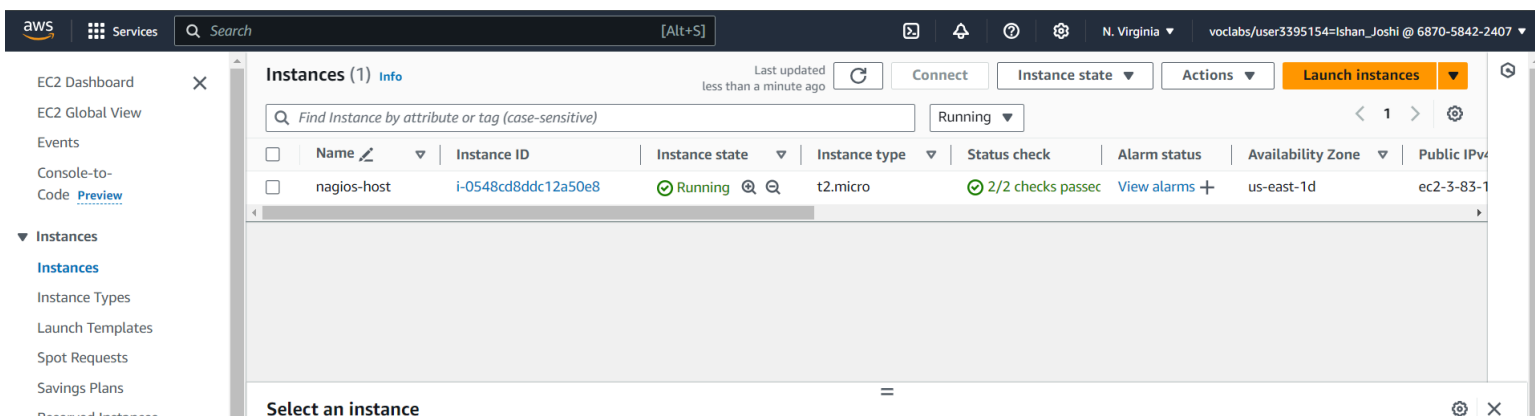


# Name-Ishan Kiran Joshi Div-D15C Roll No-21 A.Y.-2024-25

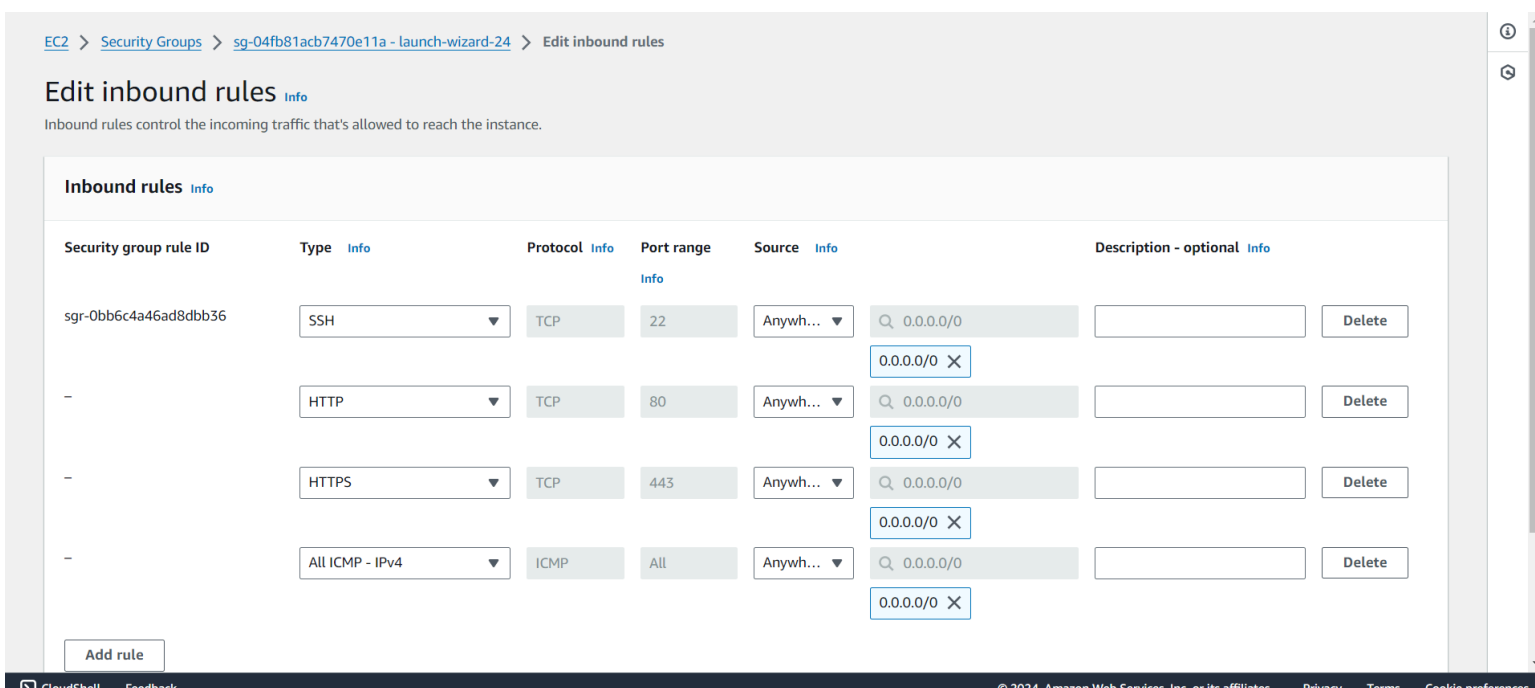
## Experiment 9

**Aim:** To Understand Continuous monitoring and Installation and configuration of Nagios Core, Nagios Plugins and NRPE (Nagios Remote Plugin Executor) on Linux Machine.

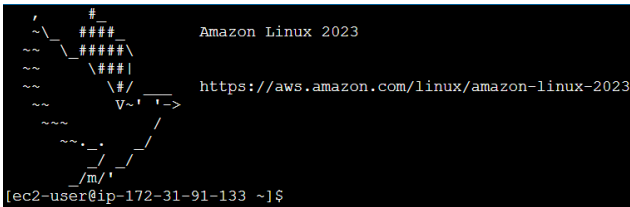
1. Create an Amazon Linux EC2 Instance in AWS and name it - nagios-host



2. Under Security Group, make sure HTTP, HTTPS, SSH, ICMP are open from everywhere.



### 3. SSH into Your EC2 instance.



4. Update the package indices and install the following packages  
`sudo yum update`  
`sudo yum install httpd php`  
`sudo yum install gcc glibc glibc-common sudo`  
`yum install gd gd-devel`

```
aws  Services  Search  [Alt+S]
```

```
[ec2-user@ip-172-31-91-133 ~]$ sudo yum install gd gd-devel -y
Last metadata expiration check: 0:11:22 ago on Tue Oct 1 09:23:10 2024.
Dependencies resolved.
```

Package	Architecture	Version	Repository
Installing:			
gd	x86_64	2.3.3-5.amzn2023.0.3	amazonlinux
gd-devel	x86_64	2.3.3-5.amzn2023.0.3	amazonlinux
Installing dependencies:			
brotli	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux
brotli-devel	x86_64	1.0.9-4.amzn2023.0.2	amazonlinux
bzip2-devel	x86_64	1.0.8-6.amzn2023.0.2	amazonlinux
cairo	x86_64	1.17.6-2.amzn2023.0.1	amazonlinux
cmake-filesystem	x86_64	3.22.2-1.amzn2023.0.4	amazonlinux
fontconfig	x86_64	2.13.94-2.amzn2023.0.2	amazonlinux
fontconfig-devel	x86_64	2.13.94-2.amzn2023.0.2	amazonlinux
fonts-filesystem	noarch	1:2.0.5-12.amzn2023.0.2	amazonlinux
freetype	x86_64	2.13.2-5.amzn2023.0.1	amazonlinux
freetype-devel	x86_64	2.13.2-5.amzn2023.0.1	amazonlinux
glib2-devel	x86_64	2.74.7-689.amzn2023.0.2	amazonlinux
google-noto-fonts-common	noarch	20201206-2.amzn2023.0.2	amazonlinux
google-noto-sans-vf-fonts	noarch	20201206-2.amzn2023.0.2	amazonlinux
graphite2	x86_64	1.3.14-7.amzn2023.0.2	amazonlinux
graphite2-devel	x86_64	1.3.14-7.amzn2023.0.2	amazonlinux
harfbuzz	x86_64	7.0.0-2.amzn2023.0.1	amazonlinux
harfbuzz-devel	x86_64	7.0.0-2.amzn2023.0.1	amazonlinux
harfbuzz-icu	x86_64	7.0.0-2.amzn2023.0.1	amazonlinux

```
aws  [Alt+S]  N. Virginia  voclabs/user3395154=ls

glib2-devel-2.74.7-689.amzn2023.0.2.x86_64
google-noto-sans-vf-fonts-20201206-2.amzn2023.0.2.noarch
graphite2-devel-1.3.14-7.amzn2023.0.2.x86_64
harfbuzz-devel-7.0.0-2.amzn2023.0.1.x86_64
jbigkit-libs-2.1-21.amzn2023.0.2.x86_64
libICE-1.10.10-6.amzn2023.0.2.x86_64
libX11-1.7.2-3.amzn2023.0.4.x86_64
libX11-devel-1.7.2-3.amzn2023.0.4.x86_64
libXau-1.0.9-6.amzn2023.0.2.x86_64
libXext-1.3.4-6.amzn2023.0.2.x86_64
libXpm-devel-3.5.15-2.amzn2023.0.3.x86_64
libXt-1.2.0-4.amzn2023.0.2.x86_64
libffi-devel-3.4.4-1.amzn2023.0.1.x86_64
libicu-devel-67.1-7.amzn2023.0.3.x86_64
libjpeg-turbo-devel-2.1.4-2.amzn2023.0.5.x86_64
libpng-2:1.6.37-10.amzn2023.0.6.x86_64
libsdl2-devel-2.0.18-1.amzn2023.0.2.x86_64
libtiff-4.4.0-4.amzn2023.0.18.x86_64
libwebp-1.2.4-1.amzn2023.0.6.x86_64
libxcb-1.13.1-7.amzn2023.0.2.x86_64
libxml2-devel-2.10.4-1.amzn2023.0.6.x86_64
pcre2-utf16-10.40-1.amzn2023.0.3.x86_64
pixman-0.40.0-3.amzn2023.0.3.x86_64
xml-common-0.6.3-56.amzn2023.0.2.noarch
xz-devel-5.2.5-9.amzn2023.0.2.x86_64

google-noto-fonts-common-2021206-2.amzn2023.0.2.noarch
graphite2-1.3.14-7.amzn2023.0.2.x86_64
harfbuzz-7.0.0-2.amzn2023.0.1.x86_64
harfbuzz-icu-7.0.0-2.amzn2023.0.1.x86_64
langpacks-core-font-en-3.0-21.amzn2023.0.4.noarch
libSM-1.2.3-8.amzn2023.0.2.x86_64
libX11-common-1.7.2-3.amzn2023.0.4.noarch
libX11-xcb-1.7.2-3.amzn2023.0.4.x86_64
libXau-devel-1.0.9-6.amzn2023.0.2.x86_64
libXpm-3.5.15-2.amzn2023.0.3.x86_64
libXrender-0.9.10-14.amzn2023.0.2.x86_64
libblkid-devel-2.37.4-1.amzn2023.0.4.x86_64
libicu-67.1-7.amzn2023.0.3.x86_64
libjpeg-turbo-2.1.4-2.amzn2023.0.5.x86_64
libmount-devel-2.37.4-1.amzn2023.0.4.x86_64
libpng-devel-2:1.6.37-10.amzn2023.0.6.x86_64
libsepol-devel-3.4-3.amzn2023.0.3.x86_64
libtiff-devel-4.4.0-4.amzn2023.0.18.x86_64
libwebp-devel-1.2.4-1.amzn2023.0.6.x86_64
libxcb-devel-1.13.1-7.amzn2023.0.2.x86_64
pcre2-devel-10.40-1.amzn2023.0.3.x86_64
pcre2-utf32-10.40-1.amzn2023.0.3.x86_64
sysprof-capture-devel-3.40.1-2.amzn2023.0.2.x86_64
xorg-x11-proto-devel-1.2.4-1.amzn2023.0.2.noarch
zlib-devel-1.2.11-33.amzn2023.0.5.x86_64

Complete!
[ec2-user@ip-172-31-91-133 ~]$
```

5. Create a new Nagios User with its password. You'll have to enter the password twice for confirmation.

```
sudo adduser -m nagios sudo
```

```
passwd nagios
```

```
[ec2-user@ip-172-31-91-133 ~]$ sudo adduser -m nagios
[ec2-user@ip-172-31-91-133 ~]$ 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:
Sorry, passwords do not match.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[ec2-user@ip-172-31-91-133 ~]$
```

6. Create a new user group

```
sudo groupadd nagcmd
```

7. Use these commands so that you don't have to use sudo for Apache and Nagios

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

```
usermod -a -G nagcmd apache
```

8. Create a new directory for Nagios downloads

```
mkdir ~/downloads
```

```
cd ~/downloads
```

```
[ec2-user@ip-172-31-91-133 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-91-133 ~]$ sudo usermod -a -G nagcmd nagios
[ec2-user@ip-172-31-91-133 ~]$ sudo usermod -a -G nagcmd apache
[ec2-user@ip-172-31-91-133 ~]$ downloads mkdir ~/downloads
cd ~/downloads
-bash: downloads: command not found
-bash: cd: /home/ec2-user/downloads: No such file or directory
[ec2-user@ip-172-31-91-133 ~]$ downloads mkdir ~/downloads
-bash: downloads: command not found
[ec2-user@ip-172-31-91-133 ~]$ mkdir ~/downloads
[ec2-user@ip-172-31-91-133 ~]$ cd ~/downloads
[ec2-user@ip-172-31-91-133 downloads]$
```

9. Use wget to download the source zip files.

wget <https://go.nagios.org/1/975333/2024-09-17/6kqcx>

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

```
[ec2-user@ip-172-31-91-133 downloads]$ wget https://go.nagios.org/1/975333/2024-09-17/6kqcx
--2024-10-01 09:42:04-- https://go.nagios.org/1/975333/2024-09-17/6kqcx
Resolving go.nagios.org (go.nagios.org)... 34.237.219.119, 52.54.96.194, 3.92.120.28, ...
Connecting to go.nagios.org (go.nagios.org)|34.237.219.119|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: http://assets.nagios.com/downloads/nagioscore/releases/nagios-4.5.5.tar.gz?utm_source=Nagios.org&utm_content=Download+Form&utm_campaign=Core+4.5.5+Downl
oad&api_content=1e9662c93afb2ed6bd2e3f3cc38771a7f01125e969f2a75b0e2254439d4a81d8 [following]
--2024-10-01 09:42:05-- http://assets.nagios.com/downloads/nagioscore/releases/nagios-4.5.5.tar.gz?utm_source=Nagios.org&utm_content=Download+Form&utm_campaign=C
ore+4.5.5+Download&api_content=1e9662c93afb2ed6bd2e3f3cc38771a7f01125e969f2a75b0e2254439d4a81d8 [following]
Resolving assets.nagios.com (assets.nagios.com)... 45.79.49.120, 2600:3c00::f03c:92ff:fe7f:45ce
Connecting to assets.nagios.com (assets.nagios.com)|45.79.49.120|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.5.5.tar.gz?utm_source=Nagios.org&utm_content=Download+Form&utm_campaign=Core+4.5.5+Downl
oad&api_content=1e9662c93afb2ed6bd2e3f3cc38771a7f01125e969f2a75b0e2254439d4a81d8 [following]
--2024-10-01 09:42:05-- https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.5.5.tar.gz?utm_source=Nagios.org&utm_content=Download+Form&utm_campaign=C
ore+4.5.5+Download&api_content=1e9662c93afb2ed6bd2e3f3cc38771a7f01125e969f2a75b0e2254439d4a81d8
Connecting to assets.nagios.com (assets.nagios.com)|45.79.49.120|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2065473 (2.0M) [application/x-gzip]
Saving to: '6kqcx'

6kqcx                               100%[=====>] 1.97M 8.33MB/s in 0.2s

2024-10-01 09:42:05 (8.33 MB/s) - '6kqcx' saved [2065473/2065473]

[ec2-user@ip-172-31-91-133 downloads]$
```

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

zxvf nagios-4.5.5.tar.gz

```
[ec2-user@ip-172-31-91-133 downloads]$ tar zxvf nagios-4.5.5.tar.gz
tar (child): nagios-4.5.5.tar.gz: Cannot open: No such file or directory
tar (child): Error is not recoverable: exiting now
tar: Child returned status 2
tar: Error is not recoverable: exiting now
[ec2-user@ip-172-31-91-133 downloads]$ cd nagios-4.5.5
-bash: cd: nagios-4.5.5: No such file or directory
[ec2-user@ip-172-31-91-133 downloads]$ tar zxvf nagios-4.5.5.tar.gz
tar (child): nagios-4.5.5.tar.gz: Cannot open: No such file or directory
tar (child): Error is not recoverable: exiting now
tar: Child returned status 2
tar: Error is not recoverable: exiting now
[ec2-user@ip-172-31-91-133 downloads]$ tar -zxvf 6kqcx
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/LLEGAL
nagios-4.5.5/LICENSE
nagios-4.5.5/Makefile.in
nagios-4.5.5/README.md
```

cd nagios-4.5.5

```
[ec2-user@ip-172-31-91-133 downloads]$ cd nagios-4.5.5
[ec2-user@ip-172-31-91-133 nagios-4.5.5]$
```

11. Run the configuration script with the same group name you previously created.

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

```
aws Services Search [Alt+S] N. Virginia voclabs/user3395154=Ishan_Joshi @ 6870-5842-2407
/usr/bin/which: no sendmail in (/home/ec2-user/.local/bin:/home/ec2-user/bin:/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin)
checking for RLIMIT_PROC... yes
checking for glibc at least version 2.4... checking how to run the C preprocessor... gcc -E
yes
checking for sys/epoll.h... yes
checking for sys/select.h... yes
checking for main in -liconv... no
checking for gdImagePng in -lgd (order 1)... no
checking for gdImagePng in -lgd (order 2)... yes
checking for GD library... yes
checking for gdImageCreateTrueColor in -lgd... yes
checking for ltdl.h... no
checking for dlfcn.h... yes
checking for dlopen in -ldl... yes
checking for extra flags needed to export symbols... -Wl,-export-dynamic
checking for linker flags for loadable modules... -shared
checking for traceroute... /usr/bin/traceroute
checking for type va_list... yes
checking for perl... /usr/bin/perl
checking for unzip... /usr/bin/unzip
configure: creating ./config.status
config.status: creating html/index.php
config.status: creating Makefile
config.status: creating lib/Makefile
config.status: creating base/Makefile
config.status: creating common/Makefile
config.status: creating contrib/Makefile
config.status: creating cgi/Makefile
```

12. Compile the source code.

`make all`

```
*** 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.

[ec2-user@ip-172-31-91-133 nagios-4.5.5]$
```

13. Install binaries, init script and sample config files. Lastly, set permissions on the external command directory.

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

```
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 nagiosstats /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
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.5.5/html'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share
/usr/bin/install -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/stylesheets
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/contexthelp
```

14. Configure the web interface.

```
sudo make install-webconf
```

```
[ec2-user@ip-172-31-91-133 nagios-4.5.5]$ sudo make install-webconf
/usr/bin/install -c -m 644 sample-config/httpd.conf /etc/httpd/conf.d/nagios.conf
if [ 0 -eq 1 ]; then \
    ln -s /etc/httpd/conf.d/nagios.conf /etc/apache2/sites-enabled/nagios.conf; \
fi
*** Nagios/Apache conf file installed ***
```

15. Create a nagiosadmin account for nagios login along with password. You'll have to specify the password twice.

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

```
[ec2-user@ip-172-31-91-133 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-172-31-91-133 nagios-4.5.5]$
```

## 16. Restart Apache

`sudo service httpd restart`

```
[ec2-user@ip-172-31-91-133 nagios-4.5.5]$ sudo service httpd restart
Redirecting to /bin/systemctl restart httpd.service
```

## 17. Go back to the downloads folder and unzip the plugins zip file. `cd`

`~/downloads`

`tar zxvf nagios-plugins-2.0.3.tar.gz`

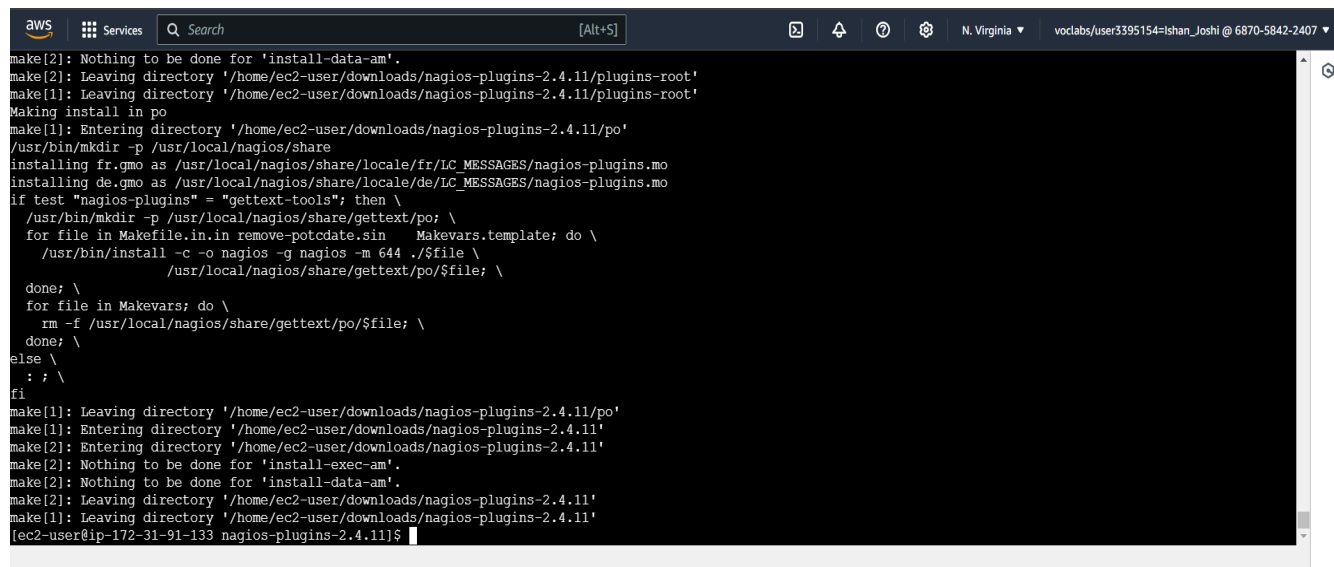
```
aws Services Search [Alt+S]
nagios-plugins-2.4.11/plugins-scripts/t/check_ifoperstatus.t
nagios-plugins-2.4.11/plugins-scripts/t/check_ifstatus.t
nagios-plugins-2.4.11/plugins-scripts/t/check_rpc.t
nagios-plugins-2.4.11/plugins-scripts/t/utills.t
nagios-plugins-2.4.11/plugins-root/
nagios-plugins-2.4.11/plugins-root/Makefile.am
nagios-plugins-2.4.11/plugins-root/Makefile.in
nagios-plugins-2.4.11/plugins-root/check_dhcp.c
nagios-plugins-2.4.11/plugins-root/check_icmp.c
nagios-plugins-2.4.11/plugins-root/pst3.c
nagios-plugins-2.4.11/plugins-root/t/
nagios-plugins-2.4.11/plugins-root/t/check_dhcp.t
nagios-plugins-2.4.11/plugins-root/t/check_icmp.t
nagios-plugins-2.4.11/po/
nagios-plugins-2.4.11/po/Makefile.in.in
nagios-plugins-2.4.11/po/remove-potcdate.sin
nagios-plugins-2.4.11/po/Makevars
nagios-plugins-2.4.11/po/POTFILES.in
nagios-plugins-2.4.11/po/fr.po
nagios-plugins-2.4.11/po/de.po
nagios-plugins-2.4.11/po/fr.gmo
nagios-plugins-2.4.11/po/de.gmo
nagios-plugins-2.4.11/po/nagios-plugins.pot
nagios-plugins-2.4.11/po/stamp-po
nagios-plugins-2.4.11/po/ChangeLog
nagios-plugins-2.4.11/po/LINGUAS
nagios-plugins-2.4.11/release
[ec2-user@ip-172-31-91-133 downloads]$
```

## 18. Compile and install

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

```
aws Services Search [Alt+S]
--with-trusted-path: /usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin
--enable-libtap: no
checking that generated files are newer than configure... done
configure: creating ./config.status
config.status: creating gl/Makefile
config.status: creating nagios-plugins.spec
config.status: creating tools/build_perl_modules
config.status: creating Makefile
config.status: creating tap/Makefile
config.status: creating lib/Makefile
config.status: creating plugins/Makefile
config.status: creating lib/tests/Makefile
config.status: creating plugins-root/Makefile
config.status: creating plugins-scripts/Makefile
config.status: creating plugins-scripts/utills.pm
config.status: creating plugins-scripts/utills.sh
config.status: creating perlmods/Makefile
config.status: creating test.pl
config.status: creating pkg/solaris/pkginfo
config.status: creating po/Makefile.in
config.status: creating config.h
config.status: config.h is unchanged
config.status: executing depfiles commands
config.status: executing libtool commands
config.status: executing po-directories commands
config.status: creating po/POTFILES
config.status: creating po/Makefile
[ec2-user@ip-172-31-91-133 nagios-plugins-2.4.11]$
```

sudo make install



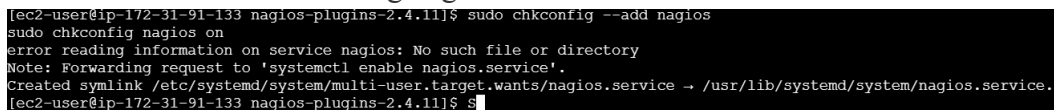
```
aws Services Q Search [Alt+S] N, Virginia voclabs/user3395154=Ishan_Joshi @ 6870-5842-2407
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/home/ec2-user/downloads/nagios-plugins-2.4.11/plugins-root'
make[1]: Leaving directory '/home/ec2-user/downloads/nagios-plugins-2.4.11/plugins-root'
Making install in po
make[1]: Entering directory '/home/ec2-user/downloads/nagios-plugins-2.4.11/po'
/usr/bin/mkdir -p /usr/local/nagios/share
installing fr.gmo as /usr/local/nagios/share/locale/fr/LC_MESSAGES/nagios-plugins.mo
installing de.gmo as /usr/local/nagios/share/locale/de/LC_MESSAGES/nagios-plugins.mo
if test "nagios-plugins" = "gettext-tools"; then \
  /usr/bin/mkdir -p /usr/local/nagios/share/gettext/po; \
  for file in Makefile.in.in remove-potcdate.sin Makevars.template; do \
    /usr/bin/install -c -o nagios -g nagios -m 644 ./$file \
      /usr/local/nagios/share/gettext/po/$file; \
  done; \
  for file in Makevars; do \
    rm -f /usr/local/nagios/share/gettext/po/$file; \
  done; \
else \
  : ; \
fi
make[1]: Leaving directory '/home/ec2-user/downloads/nagios-plugins-2.4.11/po'
make[1]: Entering directory '/home/ec2-user/downloads/nagios-plugins-2.4.11'
make[2]: Entering directory '/home/ec2-user/downloads/nagios-plugins-2.4.11'
make[2]: Nothing to be done for 'install-exec-am'.
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/home/ec2-user/downloads/nagios-plugins-2.4.11'
make[1]: Leaving directory '/home/ec2-user/downloads/nagios-plugins-2.4.11'
[ec2-user@ip-172-31-91-133 nagios-plugins-2.4.11]$
```

## 19. Start Nagios

Add Nagios to the list of system services sudo

chkconfig --add nagios

sudo chkconfig nagios on



```
[ec2-user@ip-172-31-91-133 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-172-31-91-133 nagios-plugins-2.4.11]$
```

i-0548cd8ddc12a50e8 (nagios-host)

Verify the sample configuration files

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



```

aws Services Search [Alt+S]
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: 0

Things look okay - No serious problems were detected during the pre-flight check
[ec2-user@ip-172-31-91-133 nagios-plugins-2.4.11]$

```

sudo service nagios start

```

[ec2-user@ip-172-31-91-133 nagios-plugins-2.4.11]$ sudo service nagios start
Redirecting to /bin/systemctl start nagios.service
[ec2-user@ip-172-31-91-133 nagios-plugins-2.4.11]$

```

## 20. Check the status of Nagios

sudo systemctl status nagios

```

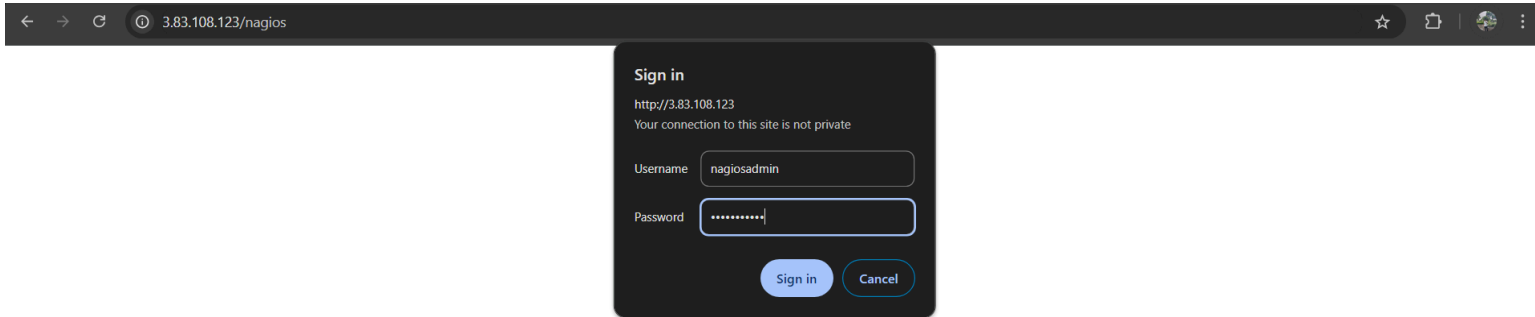
aws Services Search [Alt+S]
nagios.service - Nagios Core 4.5.5
Loaded: loaded (/usr/lib/systemd/system/nagios.service; enabled; preset: disabled)
Active: active (running) since Tue 2024-10-01 10:06:31 UTC; 25s ago
Docs: https://www.nagios.org/documentation
Process: 66170 ExecStartPre=/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)
Process: 66171 ExecStart=/usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)
Main PID: 66172 (nagios)
Tasks: 6 (limit: 1112)
Memory: 5.7M
CPU: 96ms
CGroup: /system.slice/nagios.service
├─66172 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
├─66173 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
├─66174 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
├─66175 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
├─66176 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
└─66177 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg

Oct 01 10:06:31 ip-172-31-91-133.ec2.internal nagios[66172]: qh: Socket '/usr/local/nagios/var/rw/nagios.qh' successfully initialized
Oct 01 10:06:31 ip-172-31-91-133.ec2.internal nagios[66172]: qh: core query handler registered
Oct 01 10:06:31 ip-172-31-91-133.ec2.internal nagios[66172]: qh: echo service query handler registered
Oct 01 10:06:31 ip-172-31-91-133.ec2.internal nagios[66172]: qh: help for the query handler registered
Oct 01 10:06:31 ip-172-31-91-133.ec2.internal nagios[66172]: wproc: Successfully registered manager as @wproc with query handler
Oct 01 10:06:31 ip-172-31-91-133.ec2.internal nagios[66172]: wproc: Registry request: name=Core Worker 66175;pid=66175
Oct 01 10:06:31 ip-172-31-91-133.ec2.internal nagios[66172]: wproc: Registry request: name=Core Worker 66176;pid=66176
Oct 01 10:06:31 ip-172-31-91-133.ec2.internal nagios[66172]: wproc: Registry request: name=Core Worker 66174;pid=66174
Oct 01 10:06:31 ip-172-31-91-133.ec2.internal nagios[66172]: wproc: Registry request: name=Core Worker 66173;pid=66173
lines 1-27

```

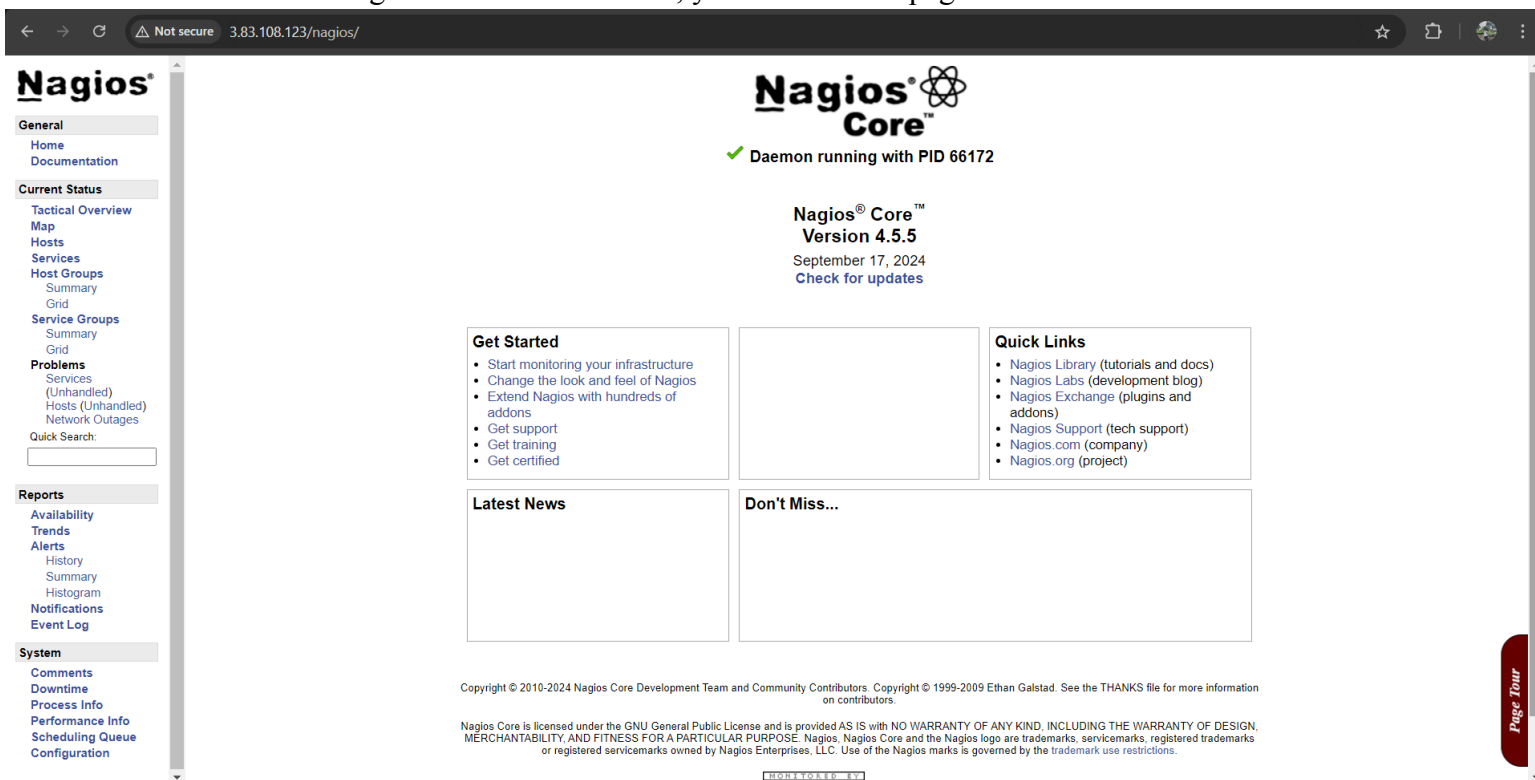
21. Go back to EC2 Console and copy the Public IP address of this instance. Open up your browser and look for **[http://<your\\_public\\_ip\\_address>/nagios](http://<your_public_ip_address>/nagios)**.

<http://44.204.87.109/nagios>



Enter username as **nagiosadmin** and password as **ishanjoshi** (which you set in Step 15)

22. After entering the correct credentials, you will see this page.



**Conclusion:** We have successfully installed and configured Nagios Core, Nagios Plugins, and NRPE on a Linux machine. This powerful setup allows us to efficiently monitor system performance and gain real-time visibility into critical metrics. By leveraging Nagios, we can proactively identify and address potential issues before they escalate, ensuring optimal reliability. The integration of NRPE extends our monitoring capabilities to remote systems, enhancing our oversight. Overall, this configuration empowers us to maintain high-performance standards and streamline incident response. Consequently, we can minimize downtime and improve service delivery across our infrastructure.

















