

## Experiment 9

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D15A 43

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

**Step 1:** Create an EC2 Instance and name it as nagios-host

**Launch an instance** [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags** [Info](#)

Name:  [Add additional tags](#)

**Application and OS Images (Amazon Machine Image)** [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

**Recents** | **Quick Start**

Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux

[Browse more AMIs](#)  
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)  
Amazon Linux 2023 AMI Free tier eligible

**Summary**

Number of instances [Info](#)

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.5.2...[read more](#)  
ami-08718895af4dfa033

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

**Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

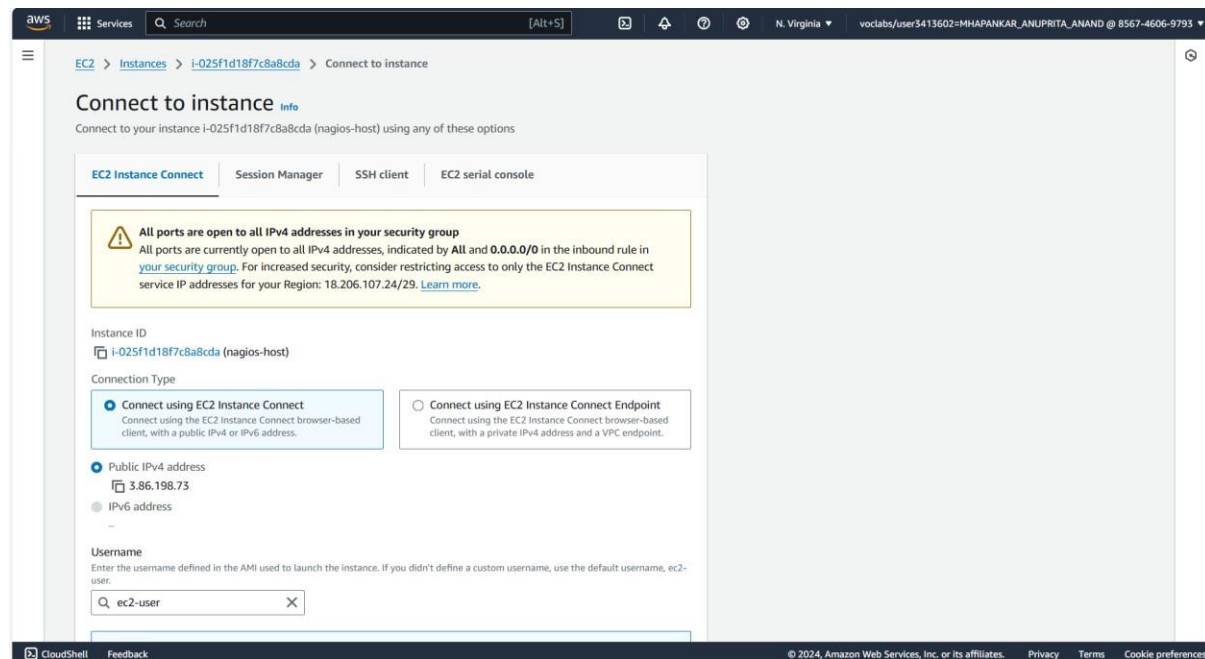
[Cancel](#) [Launch instance](#) [Review commands](#)

**Step 2:** Under the security groups, click on edit inbound rules and set as shown in the figure below

**Inbound rules (6)** [Manage tags](#) [Edit inbound rules](#)

<input type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input type="checkbox"/>	-	sgr-08fdd8adc13683e0a	IPv4	HTTPS	TCP	443	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-058fcd777849588b	IPv4	HTTP	TCP	80	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-0dc6f270d7dc5c0b7	IPv4	All traffic	All	All	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-0af2fa8d1584e888c	IPv4	SSH	TCP	22	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-04bc8aca5d0aa8c78	IPv4	All ICMP - IPv6	IPv6 ICMP	All	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-02c0cdd35c5a31f9f	IPv4	All ICMP - IPv4	ICMP	All	0.0.0.0/0	-

**Step 3:** Then select the instance nagios-host and then connect the instance.



Step 3: Now, run the following commands -

```
sudo su
```

```
sudo yum update
```

```
sudo yum install httpd php
```

```
sudo yum install gcc glibc glibc-common
```

```
sudo yum install gd gd-devel
```

```
[ec2-user@ip-172-31-19-171 ~]$ sudo yum update -y
sudo yum install -y httpd php
sudo yum install -y gcc glibc glibc-common
sudo yum install -y gd gd-devel
Last metadata expiration check: 0:04:14 ago on Thu Oct  3 12:58:05 2024.

WARNING:
  A newer release of "Amazon Linux" is available.

Available Versions:

Version 2023.5.20241001:
  Run the following command to upgrade to 2023.5.20241001:

    dnf upgrade --releasever=2023.5.20241001

  Release notes:
    https://docs.aws.amazon.com/linux/al2023/release-notes/relnotes-2023.5.20241001.html

Dependencies resolved.
Nothing to do.
Complete!
Last metadata expiration check: 0:04:14 ago on Thu Oct  3 12:58:05 2024.
Dependencies resolved.

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 k
httpd-filesystem                     x86_64    2.4.62-1.amzn2023                    amazonlinux                               14 k
httpd-tools                          x86_64    2.4.62-1.amzn2023                    amazonlinux                               81 k
libbratli                             x86_64    1.0.3-1.amzn2023.0.2                 amazonlinux                               315 k
```

Step 4: Create a new nagios user with its password.

```
sudo adduser -m nagios
```

```
sudo passwd nagios
```

```
sudo groupadd nagcmd
```

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

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

```
[ec2-user@ip-172-31-13-171 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-13-171 ~]$ sudo usermod -aG nagcmd nagios
sudo usermod -aG nagcmd apache
[ec2-user@ip-172-31-13-171 ~]$ mkdir ~/downloads
cd ~/downloads
[ec2-user@ip-172-31-13-171 downloads]$ wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.6.tar.gz
wget https://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz
--2024-10-03 13:05:44-- https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.6.tar.gz
Resolving assets.nagios.com (assets.nagios.com)... 45.79.49.120, 2600:3c00::f03c:92ff:fef7:45ce
Connecting to assets.nagios.com (assets.nagios.com)|45.79.49.120|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11333414 (11M) [application/x-gzip]
Saving to: 'nagios-4.4.6.tar.gz'

nagios-4.4.6.tar.gz           100%[=====>] 10.81M  2.44MB/s  in 5.1s

2024-10-03 13:05:50 (2.14 MB/s) - 'nagios-4.4.6.tar.gz' saved [11333414/11333414]

--2024-10-03 13:05:50-- https://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz
Resolving nagios-plugins.org (nagios-plugins.org)... 45.56.123.251
Connecting to nagios-plugins.org (nagios-plugins.org)|45.56.123.251|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2782610 (2.7M) [application/x-gzip]
Saving to: 'nagios-plugins-2.3.3.tar.gz'

nagios-plugins-2.3.3.tar.gz  100%[=====>] 2.65M  832KB/s  in 3.3s

2024-10-03 13:05:54 (832 KB/s) - 'nagios-plugins-2.3.3.tar.gz' saved [2782610/2782610]
```

Step 5: Now, run the following commands -

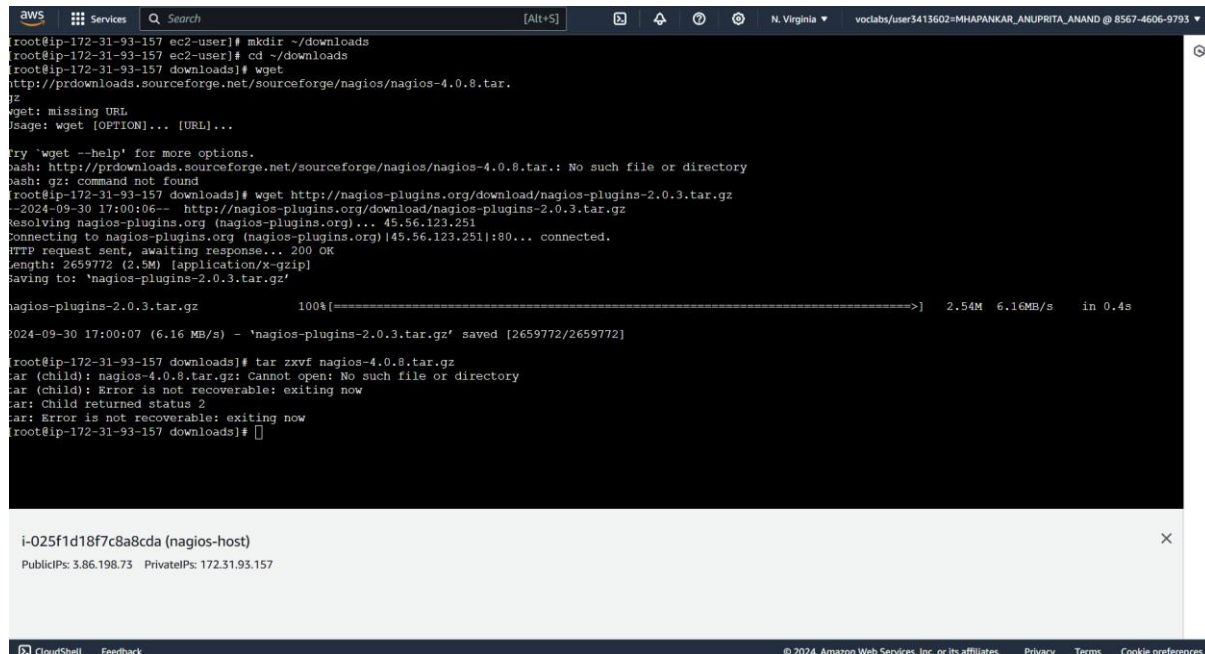
```
mkdir ~/downloads
```

```
cd ~/downloads
```

```
wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
```

```
wget http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz
```

```
tar zxvf nagios-4.0.8.tar.gz
```



```
root@ip-172-31-93-157 ec2-user]# mkdir ~/downloads
root@ip-172-31-93-157 ec2-user]# cd ~/downloads
root@ip-172-31-93-157 downloads]# wget
http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.
gz
wget: missing URL.
Usage: wget [OPTION]... [URL]...

Try 'wget --help' for more options.
bash: http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.: No such file or directory
bash: gz: command not found
root@ip-172-31-93-157 downloads]# wget http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz
--2024-09-30 17:00:06-- http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz
Resolving nagios-plugins.org (nagios-plugins.org)... 45.56.123.251
Connecting to nagios-plugins.org (nagios-plugins.org)|45.56.123.251|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2659772 (2.5M) [application/x-gzip]
Saving to: 'nagios-plugins-2.0.3.tar.gz'

nagios-plugins-2.0.3.tar.gz      100%[=====>] 2.54M  6.16MB/s  in 0.4s

2024-09-30 17:00:07 (6.16 MB/s) - 'nagios-plugins-2.0.3.tar.gz' saved [2659772/2659772]

root@ip-172-31-93-157 downloads]# tar zxvf nagios-4.0.8.tar.gz
tar (child): nagios-4.0.8.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
root@ip-172-31-93-157 downloads]#
```

i-025f1d18f7c8a8cda (nagios-host)

PublicIPs: 3.86.198.73 PrivateIPs: 172.31.93.157

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To resolve the error run the following commands -

```
wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
```

```
wget http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz
```

```
tar zxvf nagios-4.0.8.tar.gz
```

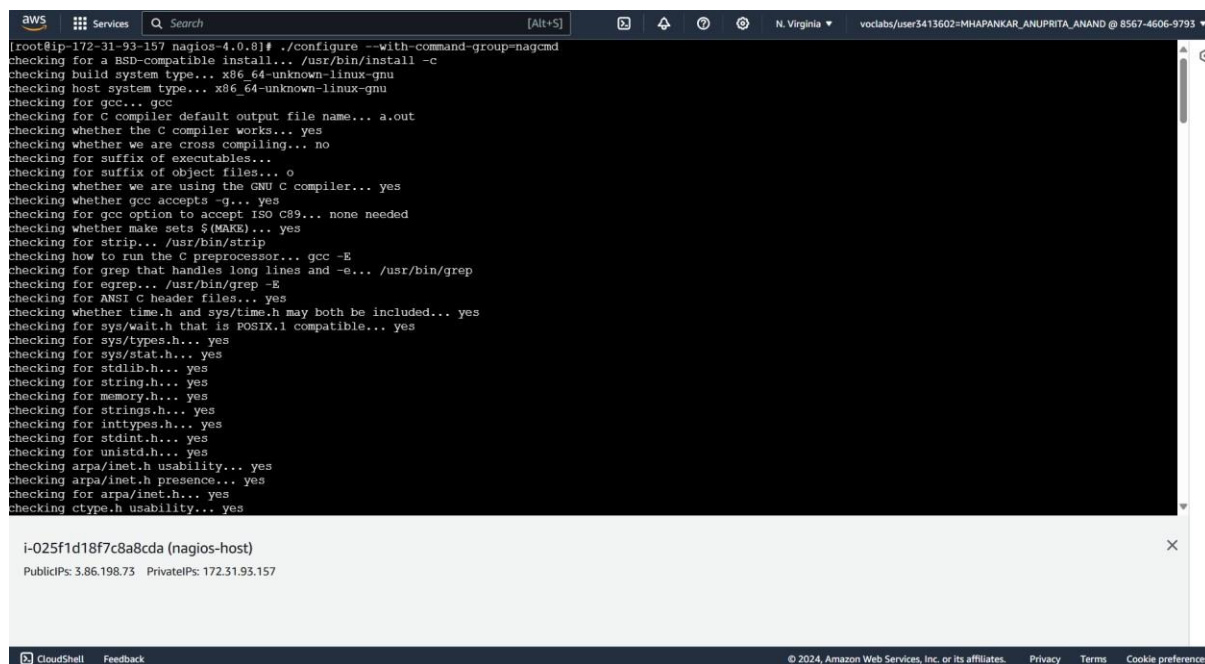
```
tar zxvf nagios-plugins-2.0.3.tar.gz
```

```
cd nagios-4.0.8
```



Step 6: Now to run the configuration script run the following command.

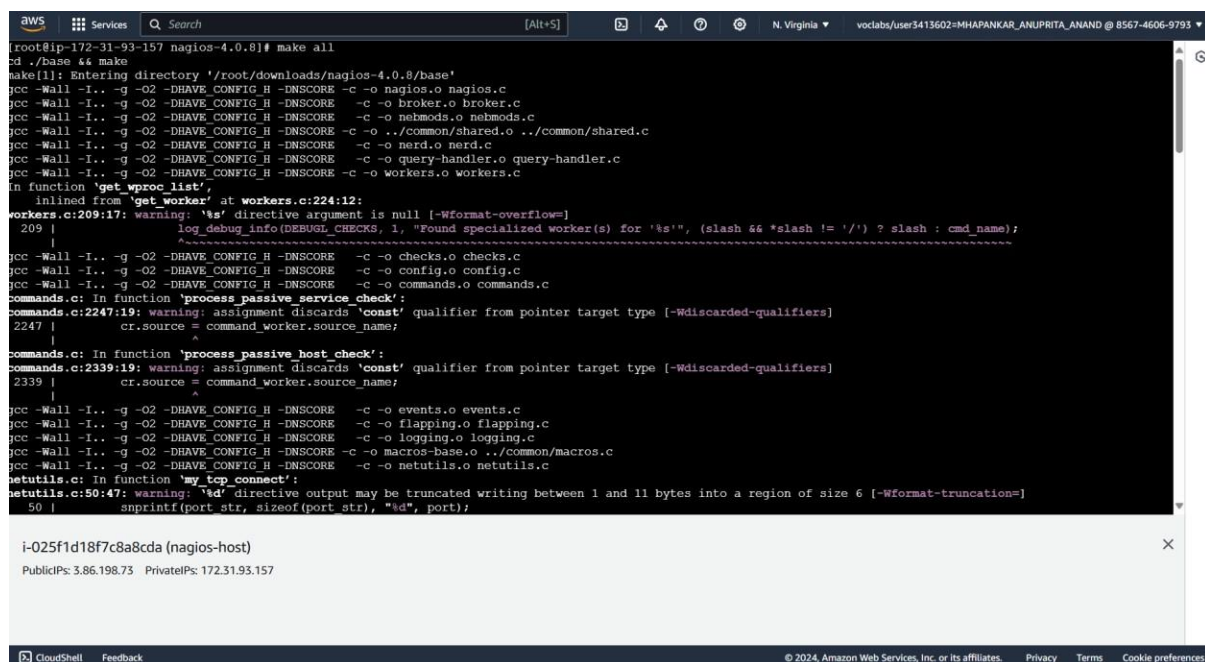
`./configure --with-command-group=nagcmd`



```
[root@ip-172-31-93-157 nagios-4.0.8]# ./configure --with-command-group=nagcmd
checking for a BSD-compatible install... /usr/bin/install -c
checking build system type... x86_64-unknown-linux-gnu
checking host system type... x86_64-unknown-linux-gnu
checking for gcc... gcc
checking for C compiler default output file name... a.out
checking whether the C compiler works... yes
checking whether we are cross compiling... no
checking for suffix of executables...
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking whether make sets $(MAKE)... yes
checking for strip... /usr/bin/strip
checking how to run the C preprocessor... gcc -E
checking for grep that handles long lines and -e... /usr/bin/grep
checking for egrep... /usr/bin/grep -E
checking for ANSI C header files... yes
checking whether time.h and sys/time.h may both be included... yes
checking for sys/wait.h that is POSIX.1 compatible... yes
checking for sys/types.h... yes
checking for sys/stat.h... yes
checking for stdlib.h... yes
checking for string.h... yes
checking for memory.h... yes
checking for strings.h... yes
checking for inttypes.h... yes
checking for stdint.h... yes
checking forunistd.h... yes
checking arpa/inet.h usability... yes
checking arpa/inet.h presence... yes
checking for arpa/inet.h... yes
checking ctype.h usability... yes
```

Step 7: Now, to compile the source code run the following command -

`make all`



```
[root@ip-172-31-93-157 nagios-4.0.8]# make all
cd ./base && make
make[1]: Entering directory '/root/downloads/nagios-4.0.8/base'
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o nagios.o nagios.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o broker.o broker.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o netmods.o netmods.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o ../common/shared.o ../common/shared.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o nard.o nard.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o query-handler.o query-handler.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o workers.o workers.c
In function 'get_vproc_list',
    inlined from 'get_worker' at workers.c:224:12:
workers.c:209:17: warning: '%s' directive argument is null [-Wformat-overflows]
   209 |         log_debug_info(DEBUGL_CHECKS, 1, "Found specialized worker(s) for '%s'", (slash && *slash != '/') ? slash : cmd_name);
       |         ^~~~~~
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o checks.o checks.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o config.o config.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o commands.o commands.c
commands.c: In function 'process_passive_service_check':
commands.c:2247:19: warning: assignment discards 'const' qualifier from pointer target type [-Wdiscarded-qualifiers]
   2247 |         cr.source = command_worker.source_name;
       |         ^
commands.c: In function 'process_passive_host_check':
commands.c:2339:19: warning: assignment discards 'const' qualifier from pointer target type [-Wdiscarded-qualifiers]
   2339 |         cr.source = command_worker.source_name;
       |         ^
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o events.o events.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o flapping.o flapping.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o logging.o logging.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o macros-base.o ../common/macros.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DSCORE -c -o netutils.o netutils.c
netutils.c: In function 'my_tcp_connect':
netutils.c:50:47: warning: '%d' directive output may be truncated writing between 1 and 11 bytes into a region of size 6 [-Wformat-truncation=]
    50 |         snprintf(port_str, sizeof(port_str), "%d", port);
```



```
aws Services Search [Alt+S] N. Virginia voclabs/user3413602=MHAPANKAR_ANUPRITA_ANAND @ 8567-4606-9793

[root@ip-172-31-93-157 nagios-4.0.8]# sudo make install
cd ./base && make install
make[1]: Entering directory '/root/downloads/nagios-4.0.8/base'
make install-basic
make[2]: Entering directory '/root/downloads/nagios-4.0.8/base'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/bin
/usr/bin/install -c -m 774 -o nagios -g nagios nagios /usr/local/nagios/bin
/usr/bin/install -c -m 774 -o nagios -g nagios nagiosstats /usr/local/nagios/bin
make[2]: Leaving directory '/root/downloads/nagios-4.0.8/base'
make strip-post-install
make[2]: Entering directory '/root/downloads/nagios-4.0.8/base'
/usr/bin/strip /usr/local/nagios/bin/nagios
/usr/bin/strip /usr/local/nagios/bin/nagiosstats
make[2]: Leaving directory '/root/downloads/nagios-4.0.8/base'
make[1]: Leaving directory '/root/downloads/nagios-4.0.8/base'
cd ./cgi && make install
make[1]: Entering directory '/root/downloads/nagios-4.0.8/cgi'
make install-basic
make[2]: Entering directory '/root/downloads/nagios-4.0.8/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 -m 775 -o nagios -g nagios $file /usr/local/nagios/sbin; \
done
/usr/bin/install: cannot stat '*.cgi': No such file or directory
make[2]: *** [Makefile:205: install-basic] Error 1
make[2]: Leaving directory '/root/downloads/nagios-4.0.8/cgi'
make[1]: *** [Makefile:197: install] Error 2
make[1]: Leaving directory '/root/downloads/nagios-4.0.8/cgi'
make: *** [Makefile:235: install] Error 2
[root@ip-172-31-93-157 nagios-4.0.8]# sudo make install-init
/usr/bin/install -c -m 755 -d -o root -g root /etc/rc.d/init.d
/usr/bin/install -c -m 755 -o root -g root daemon-init /etc/rc.d/init.d/nagios
*** Init script installed ***

i-025f1d18f7c8a8cda (nagios-host)
PublicIPs: 3.86.198.73 PrivateIPs: 172.31.93.157
```

```
aws Services Search [Alt+S] N. Virginia voclabs/user3413602=MHAPANKAR_ANUPRITA_ANAND @ 8567-4606-9793

[root@ip-172-31-93-157 nagios-4.0.8]# sudo make install-init
/usr/bin/install -c -m 755 -d -o root -g root /etc/rc.d/init.d
/usr/bin/install -c -m 755 -o root -g root daemon-init /etc/rc.d/init.d/nagios
*** Init script installed ***

[root@ip-172-31-93-157 nagios-4.0.8]# sudo make install-config
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/etc/objects
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/nagios.cfg /usr/local/nagios/etc/nagios.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/cgi.cfg /usr/local/nagios/etc/cgi.cfg
/usr/bin/install -c -b -m 660 -o nagios -g nagios sample-config/resource.cfg /usr/local/nagios/etc/resource.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/templates.cfg /usr/local/nagios/etc/objects/templates.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/commands.cfg /usr/local/nagios/etc/objects/commands.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/contacts.cfg /usr/local/nagios/etc/objects/contacts.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/timeperiods.cfg /usr/local/nagios/etc/objects/timeperiods.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/localhost.cfg /usr/local/nagios/etc/objects/localhost.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/windows.cfg /usr/local/nagios/etc/objects/windows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/printer.cfg /usr/local/nagios/etc/objects/printer.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/switch.cfg /usr/local/nagios/etc/objects/switch.cfg
*** Config files installed ***

Remember, these are *SAMPLE* config files. You'll need to read
the documentation for more information on how to actually define
services, hosts, etc. to fit your particular needs.

[root@ip-172-31-93-157 nagios-4.0.8]# sudo make install-commandmode
/usr/bin/install -c -m 775 -o nagios -g nagcmd -d /usr/local/nagios/var/rw
chmod g+s /usr/local/nagios/var/rw
*** External command directory configured ***

[root@ip-172-31-93-157 nagios-4.0.8]# []
```

To resolve the errors run the following commands -

```
sudo yum install -y gcc glibc glibc-common gd gd-devel make net-snmp openssl-devel
rm -rf nagios-4.0.8
cd ~/downloads/nagios-4.4.6
./configure --with-command-group=nagcmd
make all
sudo make install
```

```
aws Services Q Search [Alt+S] N. Virginia voclabs/user3413602:MHAPANKAR_ANUPRITA_ANAND @ 8567-4606-9793

web interface

make install-classicui
- This installs the classic theme for the Nagios
web interface

*** 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.
[root@ip-172-31-93-157 nagios-4.4.6]#
```

i-025f1d18f7c8a8cda (nagios-host)  
PublicIPs: 3.86.198.73 PrivateIPs: 172.31.93.157

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Step 8: Edit the config file and change the email address.

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

```
aws Services Q Search [Alt+S] N. Virginia voclabs/user3413602:MHAPANKAR_ANUPRITA_ANAND @ 8567-4606-9793

GNU nano 5.8 /usr/local/nagios/etc/objects/contacts.cfg Modified
This contact definition inherits a lot of default values from the 'generic-contact'
template which is defined elsewhere.

define contact{
    contact_name      nagiosadmin      ; Short name of user
    use               generic-contact   ; Inherit default values from generic-contact template (defined above)
    alias             Nagios Admin     ; Full name of user

    email             2022.anuprita.mhapankar@ves.ac.in ; <<***** CHANGE THIS TO YOUR EMAIL ADDRESS *****
}

=====

[CONTACT GROUPS]
=====

We only have one contact in this simple configuration file, so there is
no need to create more than one contact group.

define contactgroup{
    contactgroup_name admins
    alias             Nagios Administrators
    members           nagiosadmin
}

G Help W Write Out W Where Is C Cut E Execute L Location M-U Undo M-A Set Mark M-] To Bracket M-; Previous
X Exit R Read File R Replace U Paste J Justify G Go To Line M-E Redo M-C Copy M-^ Where Was M-W Next

i-025f1d18f7c8a8cda (nagios-host)
PublicIPs: 3.86.198.73 PrivateIPs: 172.31.93.157

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```

Step 9: Now run the following commands –

`sudo make install-webconf`

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

`sudo service httpd restart`

`cd ~/downloads`

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



```
aws Services Q Search [Alt+S] N. Virginia voclabs/user3413602=MHAPANKAR_ANUPRITA_ANAND @ 8567-4606-9793

- 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.

[root@ip-172-31-93-157 nagios-4.4.6]# sudo nano /usr/local/nagios/etc/objects/contacts.cfg
[root@ip-172-31-93-157 nagios-4.4.6]# 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 \
fi
ln -s /etc/httpd/conf.d/nagios.conf /etc/apache2/sites-enabled/nagios.conf; \
fi

*** Nagios/Apache conf file installed ***

[root@ip-172-31-93-157 nagios-4.4.6]# sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
[root@ip-172-31-93-157 nagios-4.4.6]# []
```

i-025f1d18f7c8a8cda (nagios-host)  
PublicIPs: 3.86.198.73 PrivateIPs: 172.31.93.157

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```
aws Services Q Search [Alt+S] N. Virginia voclabs/user3413602=MHAPANKAR_ANUPRITA_ANAND @ 8567-4606-9793

[root@ip-172-31-93-157 nagios-4.4.6]# sudo service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[root@ip-172-31-93-157 nagios-4.4.6]# cd ~/downloads
tar zxvf nagios-plugins-2.0.3.tar.gz
nagios-plugins-2.0.3/
nagios-plugins-2.0.3/perlmods/
nagios-plugins-2.0.3/perlmods/Config-Tiny-2.14.tar.gz
nagios-plugins-2.0.3/perlmods/parent-0.226.tar.gz
nagios-plugins-2.0.3/perlmods/test-Simple-0.98.tar.gz
nagios-plugins-2.0.3/perlmods/Makefile.in
nagios-plugins-2.0.3/perlmods/version-0.9903.tar.gz
nagios-plugins-2.0.3/perlmods/Makefile.am
nagios-plugins-2.0.3/perlmods/Module-Runtime-0.013.tar.gz
nagios-plugins-2.0.3/perlmods/Module-Metadata-1.000014.tar.gz
nagios-plugins-2.0.3/perlmods/Params-Validate-1.08.tar.gz
nagios-plugins-2.0.3/perlmods/Class-Accessor-0.34.tar.gz
nagios-plugins-2.0.3/perlmods/Try-Tiny-0.19.tar.gz
nagios-plugins-2.0.3/perlmods/Module-Implementation-0.07.tar.gz
nagios-plugins-2.0.3/perlmods/Makefile
nagios-plugins-2.0.3/perlmods/Perl-OSType-1.003.tar.gz
nagios-plugins-2.0.3/perlmods/install_order
nagios-plugins-2.0.3/perlmods/Nagios-Plugin-0.36.tar.gz
nagios-plugins-2.0.3/perlmods/Math-Calc-Units-1.07.tar.gz
nagios-plugins-2.0.3/perlmods/Module-Build-0.4007.tar.gz
nagios-plugins-2.0.3/above-mls
nagios-plugins-2.0.3/configure.ac
nagios-plugins-2.0.3/Makefile.in
nagios-plugins-2.0.3/config.h.in
nagios-plugins-2.0.3/ChangeLog
nagios-plugins-2.0.3/AUTHORS
nagios-plugins-2.0.3/lib/
nagios-plugins-2.0.3/lib/parse_ini.h
nagios-plugins-2.0.3/lib/extra_opts.c
nagios-plugins-2.0.3/lib/Makefile.in
```

i-025f1d18f7c8a8cda (nagios-host)  
PublicIPs: 3.86.198.73 PrivateIPs: 172.31.93.157

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## Step 10: Compile and install plugins

cd nagios-plugins-2.0.3

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

make

sudo make install

```
aws Services Q Search [Alt+S] N. Virginia voclabs/user3413602:MHAPANKAR_ANUPRITA_ANAND @ 8567-4606-9793

/usr/bin/install -c -o nagios -g nagios check_dhcp /usr/local/nagios/libexec/check_dhcp
chown root /usr/local/nagios/libexec/check_dhcp
chmod ug-rx,us+ /usr/local/nagios/libexec/check_dhcp
/usr/bin/install -c -o nagios -g nagios check_icmp /usr/local/nagios/libexec/check_icmp
chown root /usr/local/nagios/libexec/check_icmp
chmod ug-rx,us+ /usr/local/nagios/libexec/check_icmp
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/root/downloads/nagios-plugins-2.0.3/plugins-root'
make[1]: Leaving directory '/root/downloads/nagios-plugins-2.0.3/plugins-root'
making install in po
make[1]: Entering directory '/root/downloads/nagios-plugins-2.0.3/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 '/root/downloads/nagios-plugins-2.0.3/po'
make[1]: Entering directory '/root/downloads/nagios-plugins-2.0.3'
make[2]: Entering directory '/root/downloads/nagios-plugins-2.0.3'
make[2]: Nothing to be done for 'install-exec-am'.
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/root/downloads/nagios-plugins-2.0.3'
make[1]: Leaving directory '/root/downloads/nagios-plugins-2.0.3'
root@ip-172-31-93-157 nagios-plugins-2.0.3#
```

i-025f1d18f7c8a8cda (nagios-host)  
PublicIPs: 3.86.198.73 PrivateIPs: 172.31.93.157

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Step 11: To start nagios run the following commands –

`sudo chkconfig --add nagios`

`sudo chkconfig nagios on`

Verify using the following command -

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

```
aws Services Q Search [Alt+S] N. Virginia voclabs/user3413602:MHAPANKAR_ANUPRITA_ANAND @ 8567-4606-9793

root@ip-172-31-93-157 nagios-plugins-2.0.3# sudo chkconfig --add nagios
root@ip-172-31-93-157 nagios-plugins-2.0.3# sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

Nagios Core 4.4.6
Copyright (c) 2009-present Nagios Core Development Team and Community Contributors
Copyright (c) 1999-2009 Ethan Galstad
Last Modified: 2020-04-28
License: GPL

Website: https://www.nagios.org
Reading configuration data...
  Read main config file okay...
WARNING: The normal_check_interval attribute is deprecated and will be removed in future versions. Please use check_interval instead.
WARNING: The retry_check_interval attribute is deprecated and will be removed in future versions. Please use retry_interval instead.
WARNING: The normal_check_interval attribute is deprecated and will be removed in future versions. Please use check_interval instead.
WARNING: The retry_check_interval attribute is deprecated and will be removed in future versions. Please use retry_interval instead.
  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.

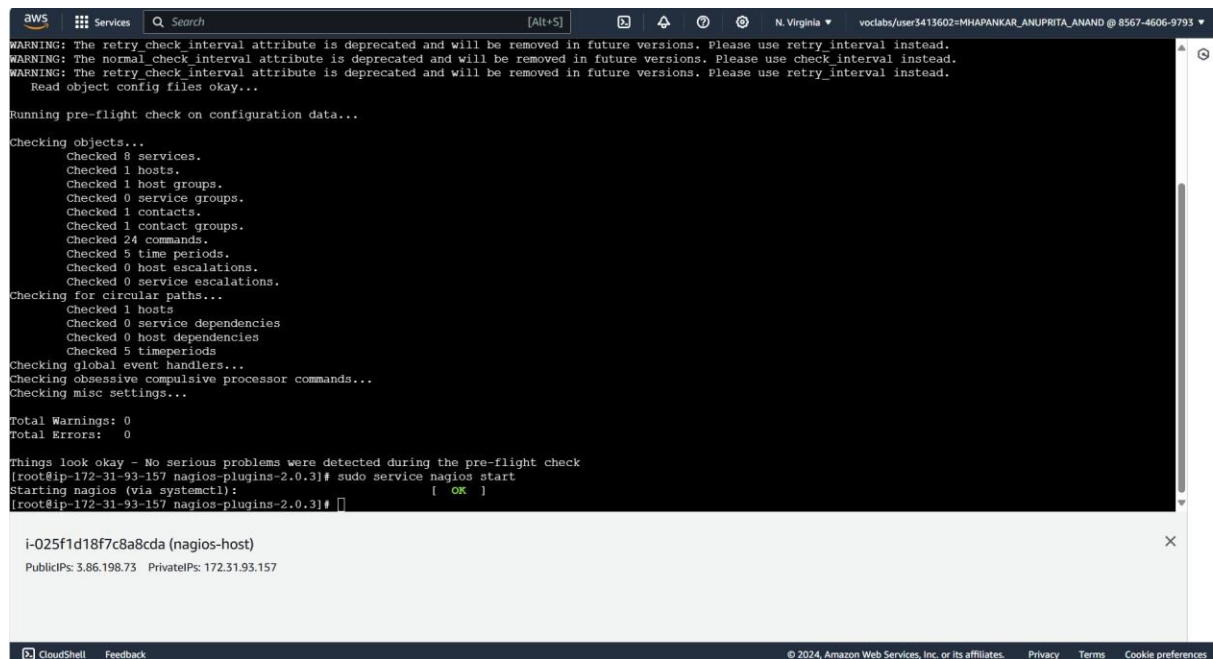
Checking for circular paths...
  Checked 1 hosts
```

i-025f1d18f7c8a8cda (nagios-host)  
PublicIPs: 3.86.198.73 PrivateIPs: 172.31.93.157

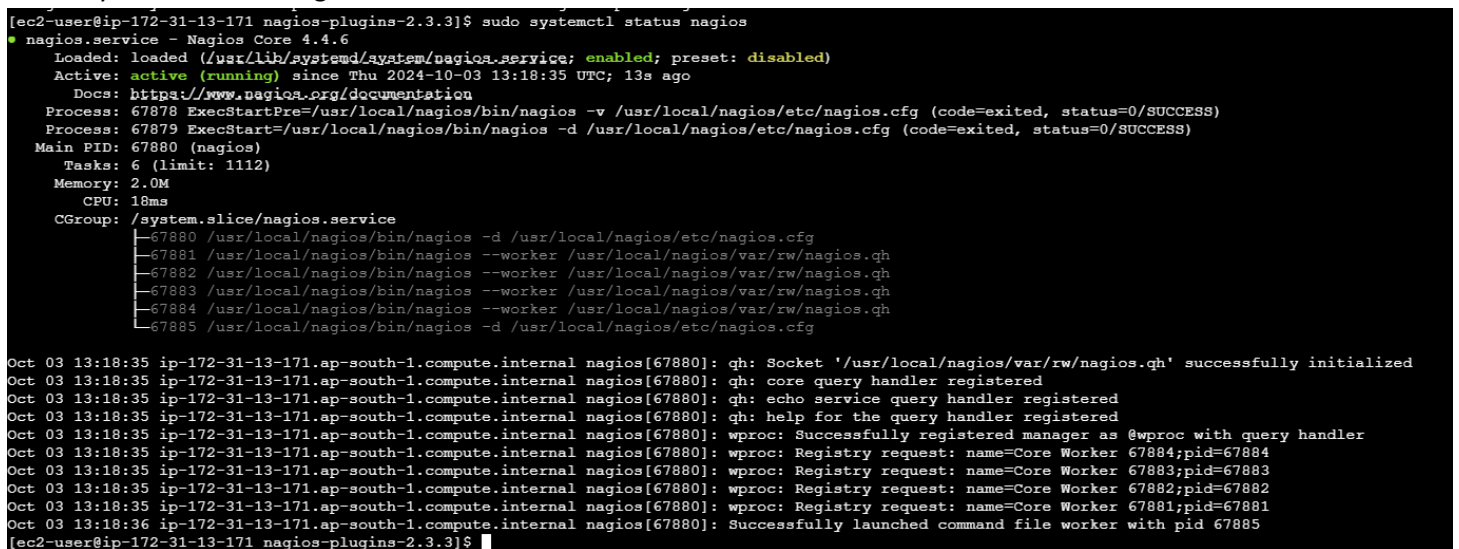
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If there are no errors run the following command –

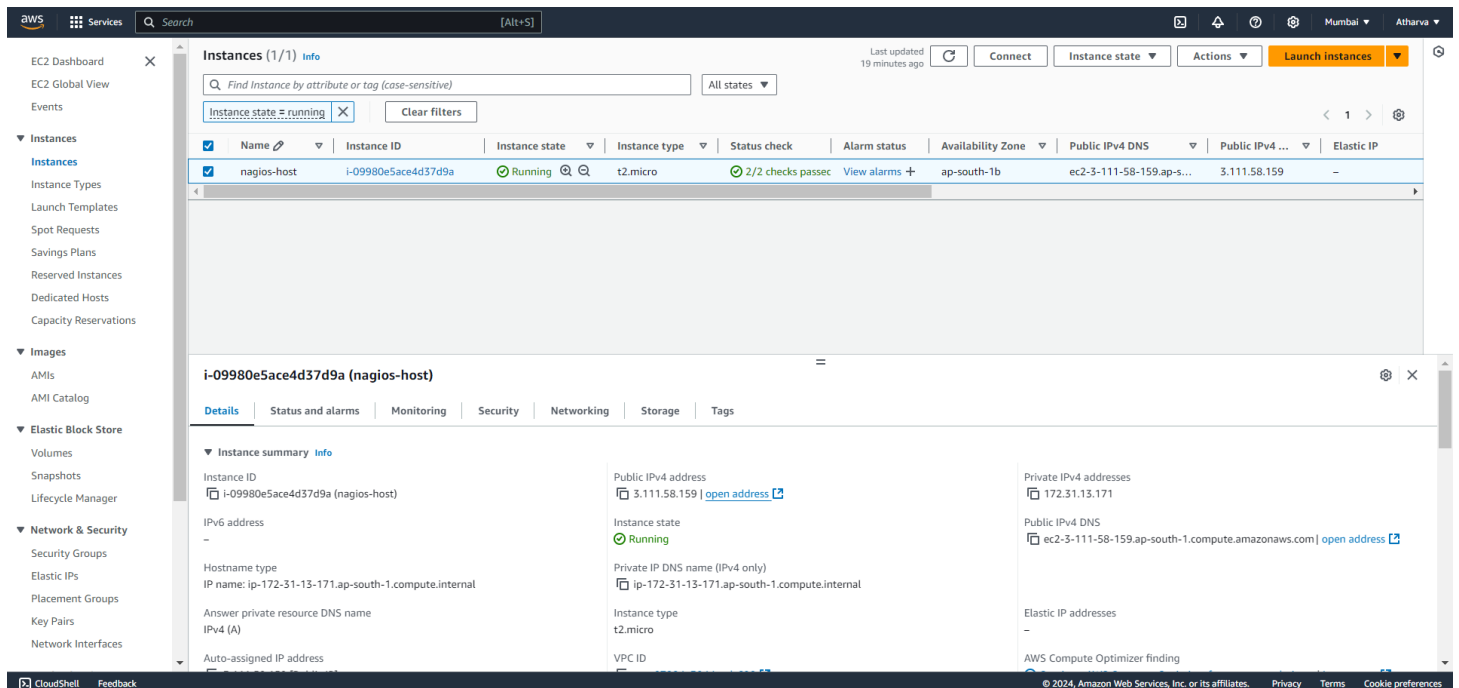
`sudo service nagios start`



Check status using the following command -  
`sudo systemctl status nagios`



Step 12: Go to EC2 instance and copy the public IP address of the instance



Step 13: Now visit [http://<your\\_public\\_ip\\_address>/nagios](http://<your_public_ip_address>/nagios) Enter correct credentials and then you will see this page.

General

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Grid

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Downtime

Process Info

Performance Info

Scheduling Queue

Configuration

Nagios®

Core™

✓ Daemon running with PID 80009

Nagios® Core™

Version 4.4.6

April 28, 2020

Check for updates

A new version of Nagios Core is available!

Visit [nagios.org](https://nagios.org) to download Nagios 4.5.5.

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- Change the look and feel of Nagios
- Extend Nagios with hundreds of addons
- Get support
- Get training
- Get certified

Quick Links

- Nagios Library (tutorials and docs)
- Nagios Labs (development blog)
- Nagios Exchange (plugins and addons)
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- Nagios.org (project)

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Nagios

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