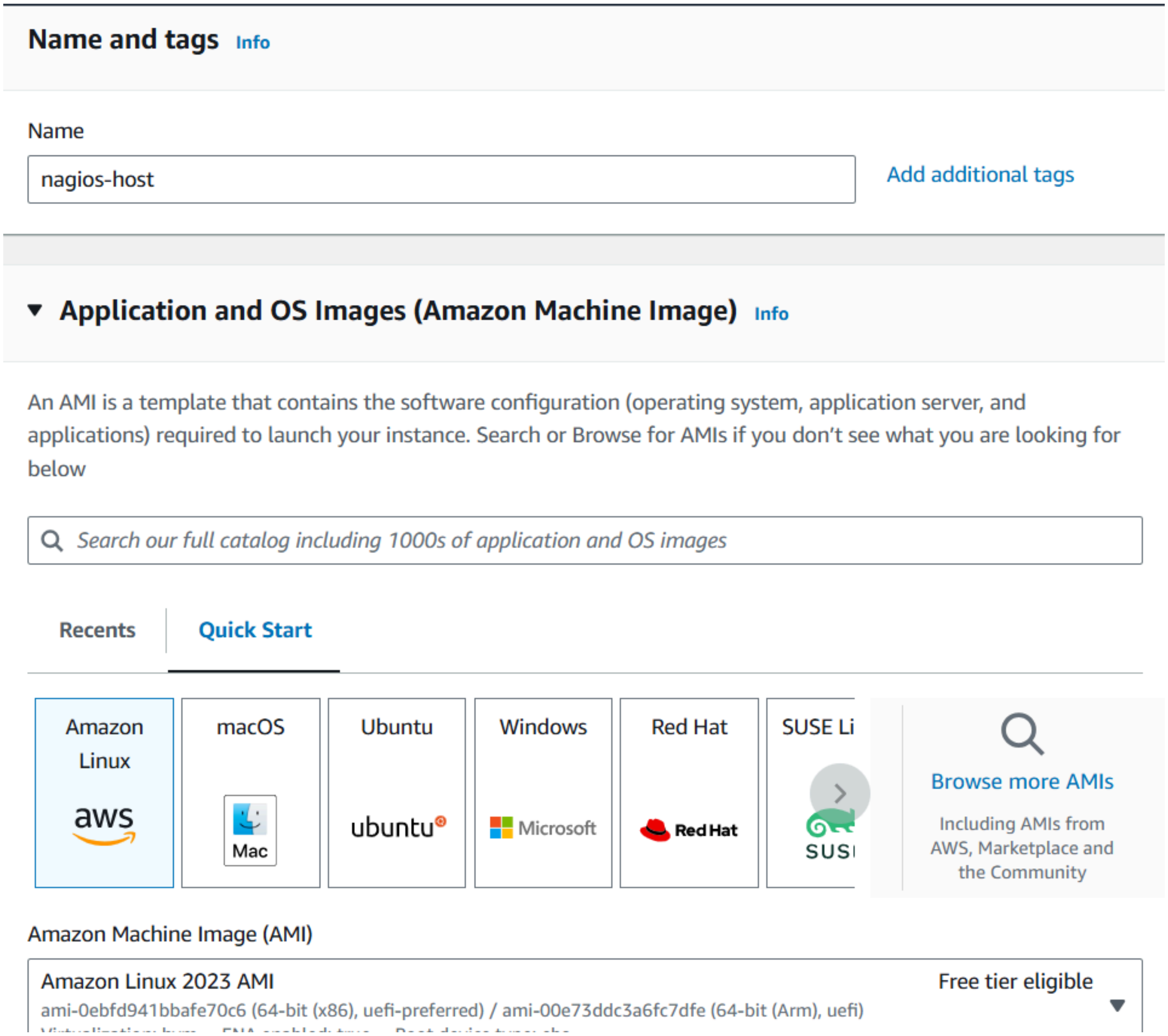
Siddhant Sathe **D15A/51**

EXPERIMENT 9

User added: nagios
New passwd: nagios

Step 1. Create an Amazon Linux EC2 Instance

- Name it `nagios-host`.



Name and tags Info

Name: nagios-host

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

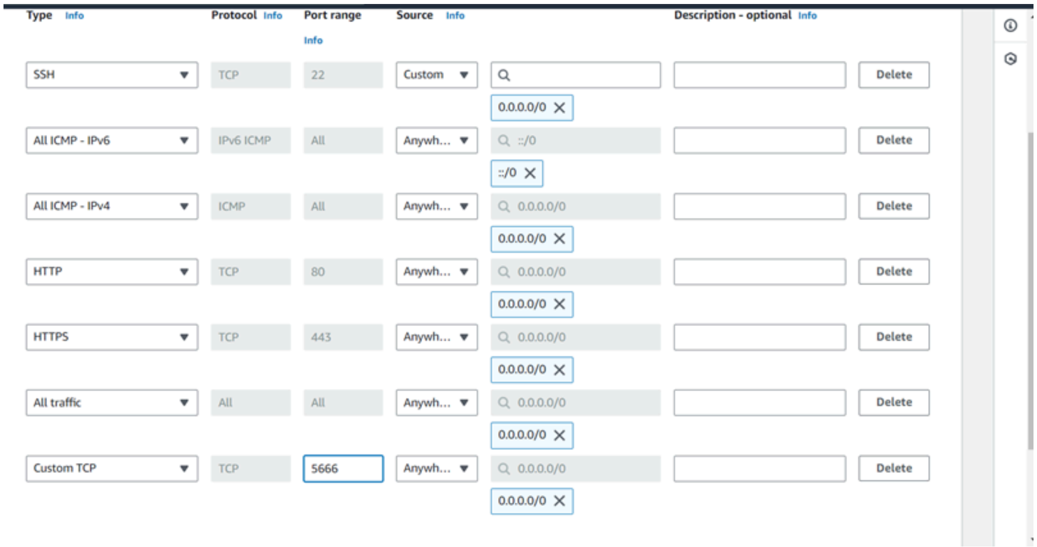
Search our full catalog including 1000s of application and OS images

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI — Free tier eligible
ami-0ebfd941bbafe70c6 (64-bit (x86), uefi-preferred) / ami-00e73ddc3a6fc7dfe (64-bit (Arm), uefi)

Step 2. Configure Security Group

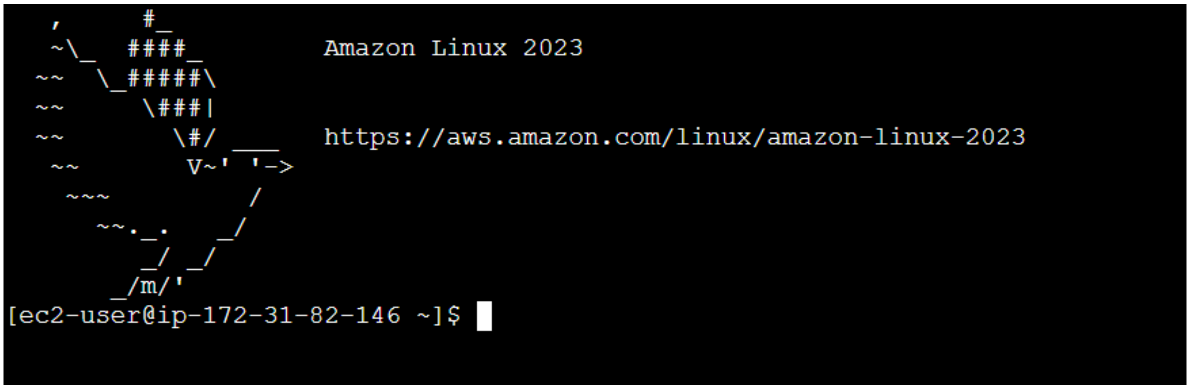
- Ensure HTTP, HTTPS, SSH, and ICMP are open from everywhere.
- Edit the inbound rules of the specified Security Group



Type Info	Protocol Info	Port range Info	Source Info		Description - optional Info	
SSH ▼	TCP	22	Custom ▼	🔍 0.0.0.0/0 ✕		Delete
All ICMP - IPv6 ▼	IPv6 ICMP	All	Anywh... ▼	🔍 ::/0 ::/0 ✕		Delete
All ICMP - IPv4 ▼	ICMP	All	Anywh... ▼	🔍 0.0.0.0/0 0.0.0.0/0 ✕		Delete
HTTP ▼	TCP	80	Anywh... ▼	🔍 0.0.0.0/0 0.0.0.0/0 ✕		Delete
HTTPS ▼	TCP	443	Anywh... ▼	🔍 0.0.0.0/0 0.0.0.0/0 ✕		Delete
All traffic ▼	All	All	Anywh... ▼	🔍 0.0.0.0/0 0.0.0.0/0 ✕		Delete
Custom TCP ▼	TCP	5666	Anywh... ▼	🔍 0.0.0.0/0 0.0.0.0/0 ✕		Delete

Step 3. Connect to Your EC2 Instance

- SSH into your EC2 instance or use EC2 Instance Connect from the browser



```
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-172-31-82-146 ~]$
```

Step 4. Update Package Indices and Install Required Packages

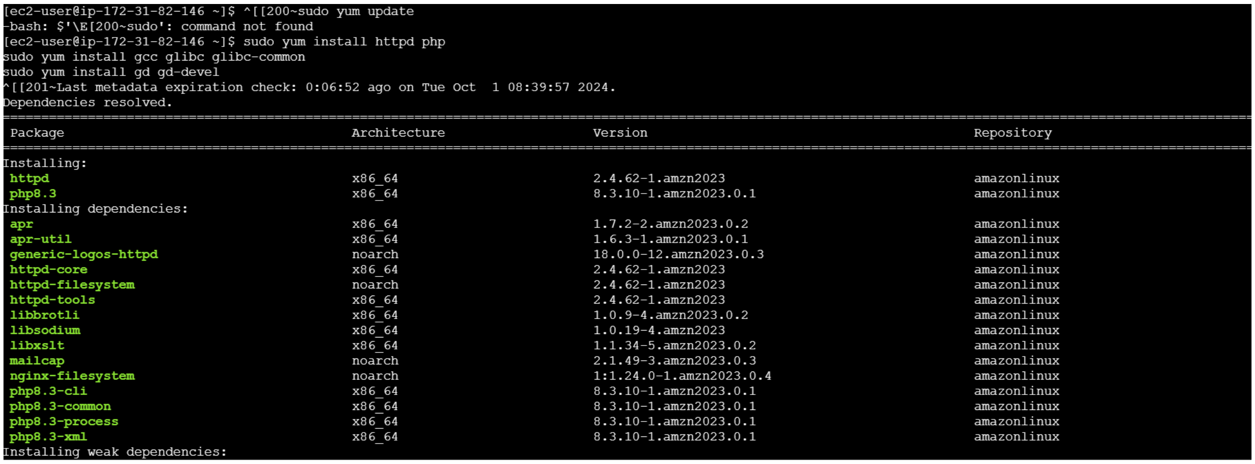
Commands -

sudo yum update

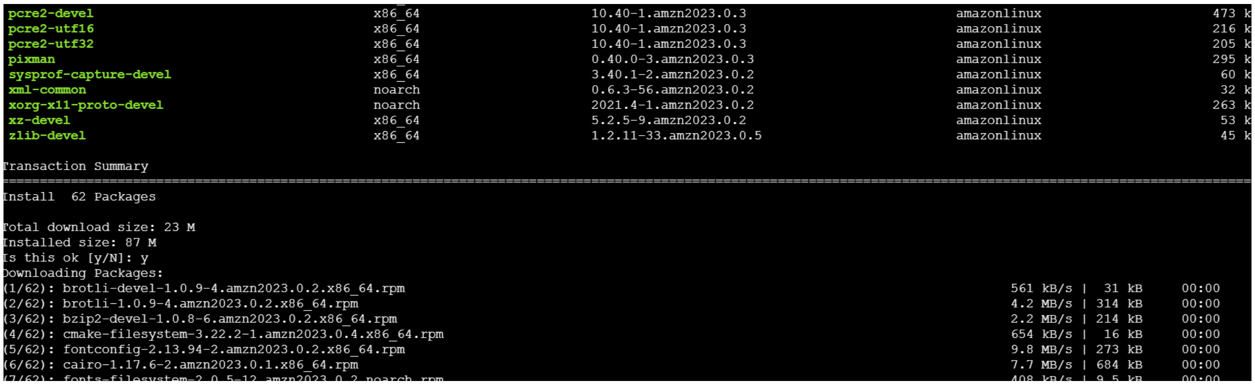
sudo yum install httpd php

sudo yum install gcc glibc glibc-common

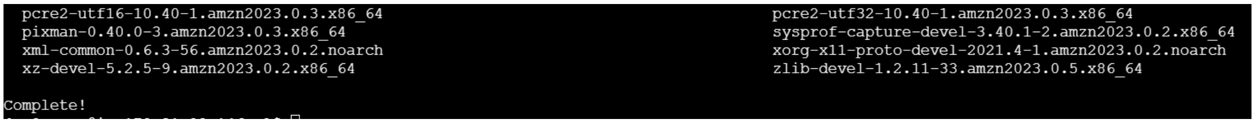
sudo yum install gd gd-devel



```
[ec2-user@ip-172-31-82-146 ~]$ ^[[200~sudo yum update
-bash: $'\E[200~sudo': command not found
[ec2-user@ip-172-31-82-146 ~]$ sudo yum install httpd php
sudo yum install gcc glibc glibc-common
sudo yum install gd gd-devel
^[[201~Last metadata expiration check: 0:06:52 ago on Tue Oct  1 08:39:57 2024.
Dependencies resolved.
================================================================================================================================
 Package                                   Architecture                    Version                                   Repository
================================================================================================================================
Installing:
 httpd                                     x86_64                          2.4.62-1.amzn2023                         amazonlinux
 php8.3                                    x86_64                          8.3.10-1.amzn2023.0.1                     amazonlinux
Installing dependencies:
 apr                                       x86_64                          1.7.2-2.amzn2023.0.2                      amazonlinux
 apr-util                                  x86_64                          1.6.3-1.amzn2023.0.1                      amazonlinux
 generic-logos-httpd                       noarch                          18.0.0-12.amzn2023.0.3                    amazonlinux
 httpd-core                                x86_64                          2.4.62-1.amzn2023                         amazonlinux
 httpd-filesystem                          noarch                          2.4.62-1.amzn2023                         amazonlinux
 httpd-tools                               x86_64                          2.4.62-1.amzn2023                         amazonlinux
 libbrotli                                 x86_64                          1.0.9-4.amzn2023.0.2                      amazonlinux
 libsodium                                 x86_64                          1.0.19-4.amzn2023                         amazonlinux
 libxslt                                   x86_64                          1.1.34-5.amzn2023.0.2                     amazonlinux
 mailcap                                   noarch                          2.1.49-3.amzn2023.0.3                     amazonlinux
 nginx-filesystem                          noarch                          1:1.24.0-1.amzn2023.0.4                   amazonlinux
 php8.3-cli                                x86_64                          8.3.10-1.amzn2023.0.1                     amazonlinux
 php8.3-common                             x86_64                          8.3.10-1.amzn2023.0.1                     amazonlinux
 php8.3-process                            x86_64                          8.3.10-1.amzn2023.0.1                     amazonlinux
 php8.3-xml                                x86_64                          8.3.10-1.amzn2023.0.1                     amazonlinux
Installing weak dependencies:
```



```
 pcre2-devel                                  x86_64                      10.40-1.amzn2023.0.3                   amazonlinux                 473 k
 pcre2-utf16                                  x86_64                      10.40-1.amzn2023.0.3                   amazonlinux                 216 k
 pcre2-utf32                                  x86_64                      10.40-1.amzn2023.0.3                   amazonlinux                 205 k
 pixman                                       x86_64                      0.40.0-3.amzn2023.0.3                  amazonlinux                 295 k
 sysprof-capture-devel                        x86_64                      3.40.1-2.amzn2023.0.2                  amazonlinux                  60 k
 xml-common                                   noarch                      0.6.3-56.amzn2023.0.2                  amazonlinux                  32 k
 xorg-x11-proto-devel                         noarch                      2021.4-1.amzn2023.0.2                  amazonlinux                 263 k
 xz-devel                                     x86_64                      5.2.5-9.amzn2023.0.2                   amazonlinux                  53 k
 zlib-devel                                   x86_64                      1.2.11-33.amzn2023.0.5                 amazonlinux                  45 k

Transaction Summary
================================================================================================================================
Install  62 Packages

Total download size: 23 M
Installed size: 87 M
Is this ok [y/N]: y
Downloading Packages:
(1/62): brotli-devel-1.0.9-4.amzn2023.0.2.x86_64.rpm                                                 561 kB/s |  31 kB     00:00
(2/62): brotli-1.0.9-4.amzn2023.0.2.x86_64.rpm                                                       4.2 MB/s | 314 kB     00:00
(3/62): bzip2-devel-1.0.8-6.amzn2023.0.2.x86_64.rpm                                                  2.2 MB/s | 214 kB     00:00
(4/62): cmake-filesystem-3.22.2-1.amzn2023.0.4.x86_64.rpm                                            654 kB/s |  16 kB     00:00
(5/62): fontconfig-2.13.94-2.amzn2023.0.2.x86_64.rpm                                                 9.8 MB/s | 273 kB     00:00
(6/62): cairo-1.17.6-2.amzn2023.0.1.x86_64.rpm                                                       7.7 MB/s | 684 kB     00:00
(7/62): fonts-filesystem-2.0.5-12.amzn2023.0.2.noarch.rpm                                            408 kB/s | 9.5 kB     00:00
```



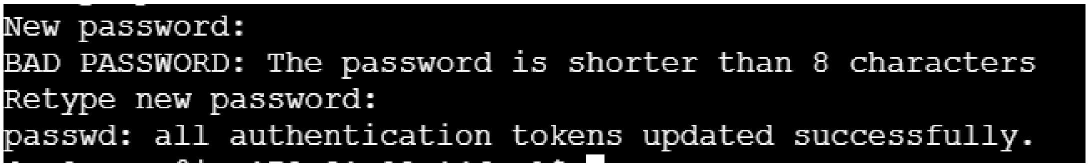
```
  pcre2-utf16-10.40-1.amzn2023.0.3.x86_64                          pcre2-utf32-10.40-1.amzn2023.0.3.x86_64
  pixman-0.40.0-3.amzn2023.0.3.x86_64                              sysprof-capture-devel-3.40.1-2.amzn2023.0.2.x86_64
  xml-common-0.6.3-56.amzn2023.0.2.noarch                          xorg-x11-proto-devel-2021.4-1.amzn2023.0.2.noarch
  xz-devel-5.2.5-9.amzn2023.0.2.x86_64                             zlib-devel-1.2.11-33.amzn2023.0.5.x86_64

Complete!
```

Step 5. Create a New Nagios User

Commands -

sudo adduser -m nagios

sudo passwd nagios

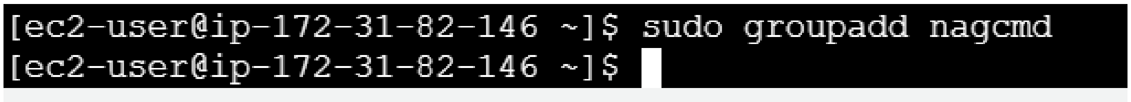


```
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
```

Step 6. Create a New User Group

Commands -

sudo groupadd nagcmd



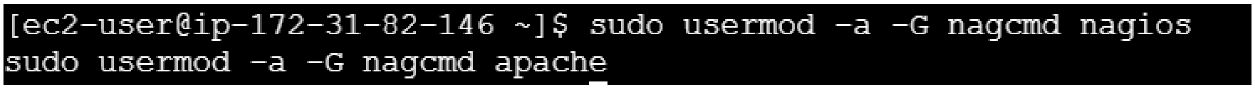
```
[ec2-user@ip-172-31-82-146 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-82-146 ~]$
```

Step 7. Add Users to the Group

Commands -

sudo usermod -a -G nagcmd nagios

sudo usermod -a -G nagcmd apache



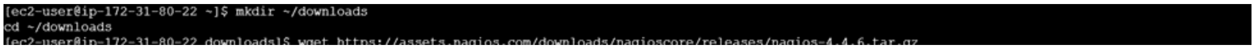
```
[ec2-user@ip-172-31-82-146 ~]$ sudo usermod -a -G nagcmd nagios
sudo usermod -a -G nagcmd apache
```

Step 8. Create a Directory for Nagios Downloads

Commands -

mkdir ~/downloads

cd ~/downloads



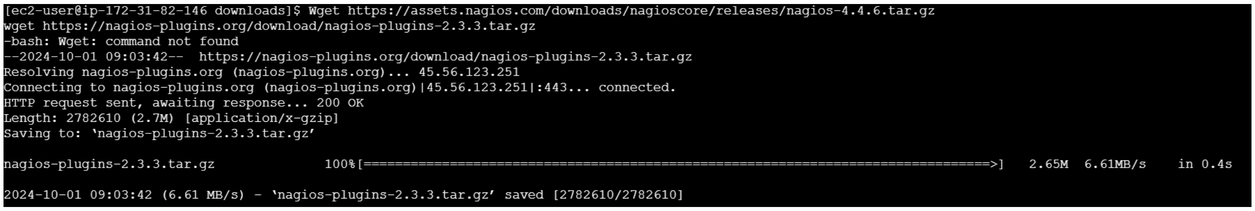
```
[ec2-user@ip-172-31-80-22 ~]$ mkdir ~/downloads
cd ~/downloads
[ec2-user@ip-172-31-80-22 downloads]$ wget https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.4.6.tar.gz
```

Step 9. Download Nagios and Plugins Source Files

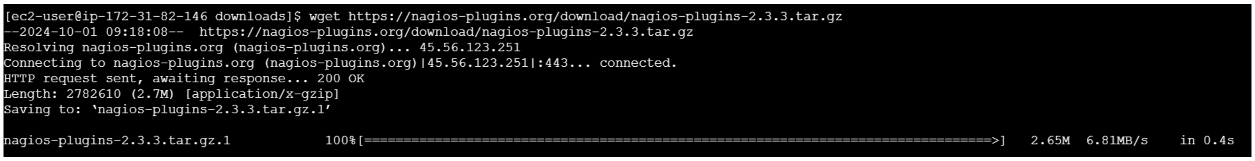
Commands -

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



```
[ec2-user@ip-172-31-82-146 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
-bash: Wget: command not found
--2024-10-01 09:03:42--  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  6.61MB/s    in 0.4s

2024-10-01 09:03:42 (6.61 MB/s) - ‘nagios-plugins-2.3.3.tar.gz’ saved [2782610/2782610]
```



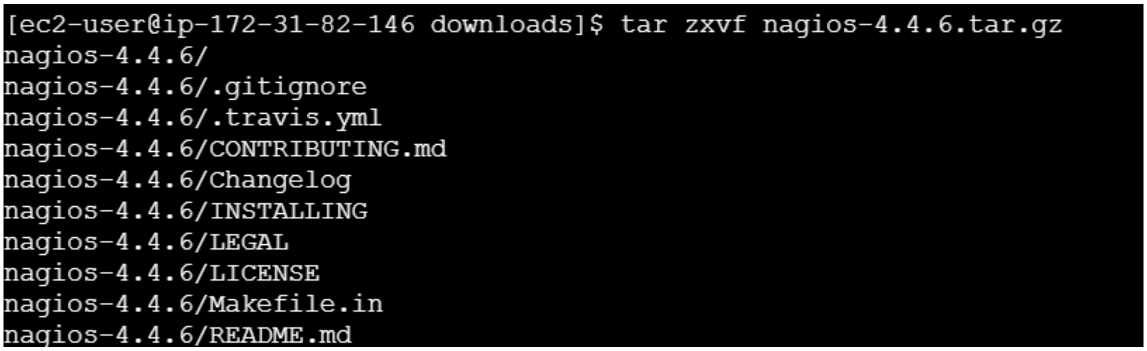
```
[ec2-user@ip-172-31-82-146 downloads]$ wget https://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz
--2024-10-01 09:18:08--  https://nagios-plugins.org/download/nagios-plugins-2.3.3.tar.gz
Resolving nagios-plugins.org (nagios-plugins.org)... 45.56.123.251
Connecting to nagios-plugins.org (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.1’

nagios-plugins-2.3.3.tar.gz.1           100%[===============================================================================>]   2.65M  6.81MB/s    in 0.4s
```

Step 10. Extract the Nagios Source File

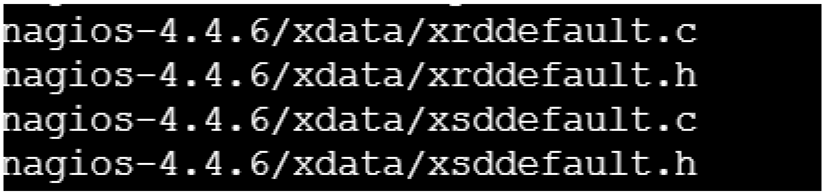
Commands -

tar zxvf nagios-4.4.6.tar.gz

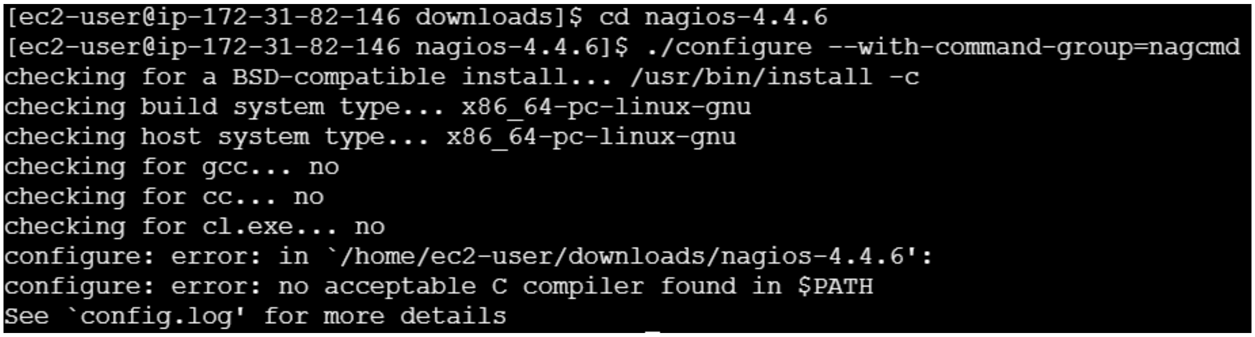
cd nagios-4.4.6



```
[ec2-user@ip-172-31-82-146 downloads]$ tar zxvf nagios-4.4.6.tar.gz
nagios-4.4.6/
nagios-4.4.6/.gitignore
nagios-4.4.6/.travis.yml
nagios-4.4.6/CONTRIBUTING.md
nagios-4.4.6/Changelog
nagios-4.4.6/INSTALLING
nagios-4.4.6/LEGAL
nagios-4.4.6/LICENSE
nagios-4.4.6/Makefile.in
nagios-4.4.6/README.md
```



```
nagios-4.4.6/xdata/xrddefault.c
nagios-4.4.6/xdata/xrddefault.h
nagios-4.4.6/xdata/xsddefault.c
nagios-4.4.6/xdata/xsddefault.h
```

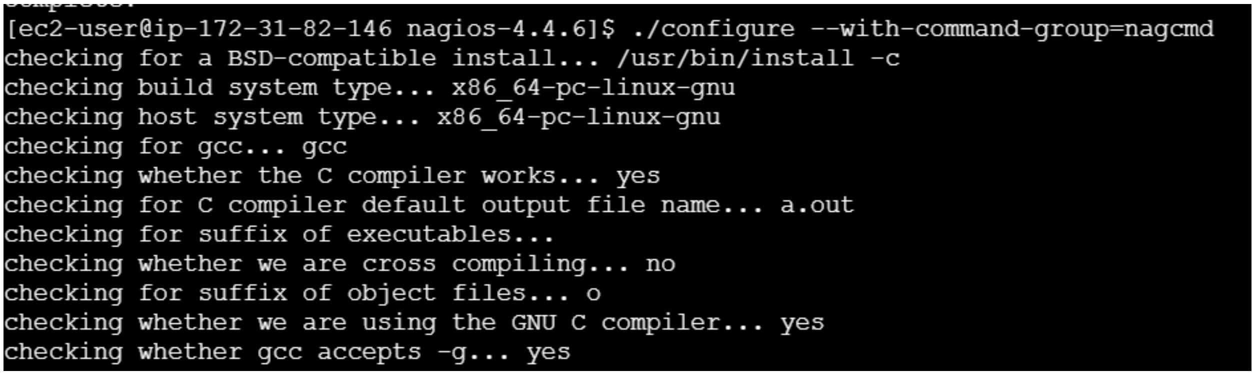


```
[ec2-user@ip-172-31-82-146 downloads]$ cd nagios-4.4.6
[ec2-user@ip-172-31-82-146 nagios-4.4.6]$ ./configure --with-command-group=nagcmd
checking for a BSD-compatible install... /usr/bin/install -c
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for gcc... no
checking for cc... no
checking for cl.exe... no
configure: error: in `/home/ec2-user/downloads/nagios-4.4.6':
configure: error: no acceptable C compiler found in $PATH
See `config.log' for more details
```

Step 11. Run the Configuration Script

Commands -

./configure –with-command-group=nagcmd

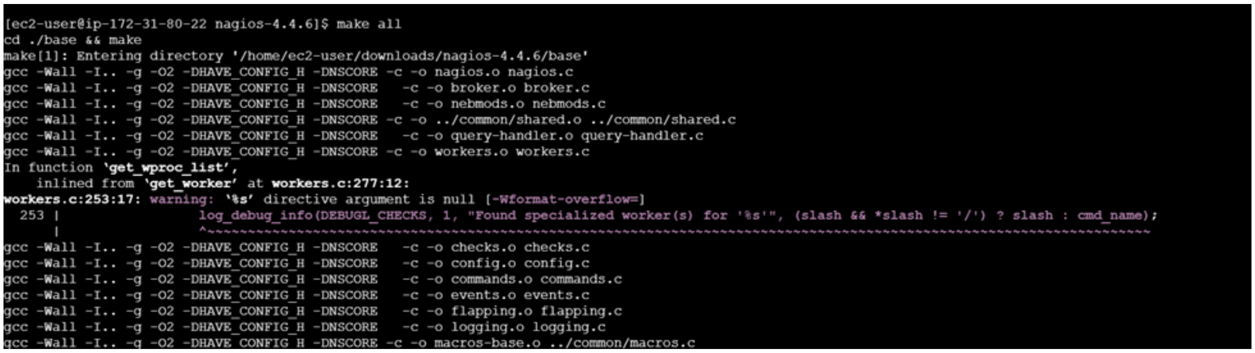


```
[ec2-user@ip-172-31-82-146 nagios-4.4.6]$ ./configure --with-command-group=nagcmd
checking for a BSD-compatible install... /usr/bin/install -c
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for gcc... gcc
checking whether the C compiler 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 we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
```

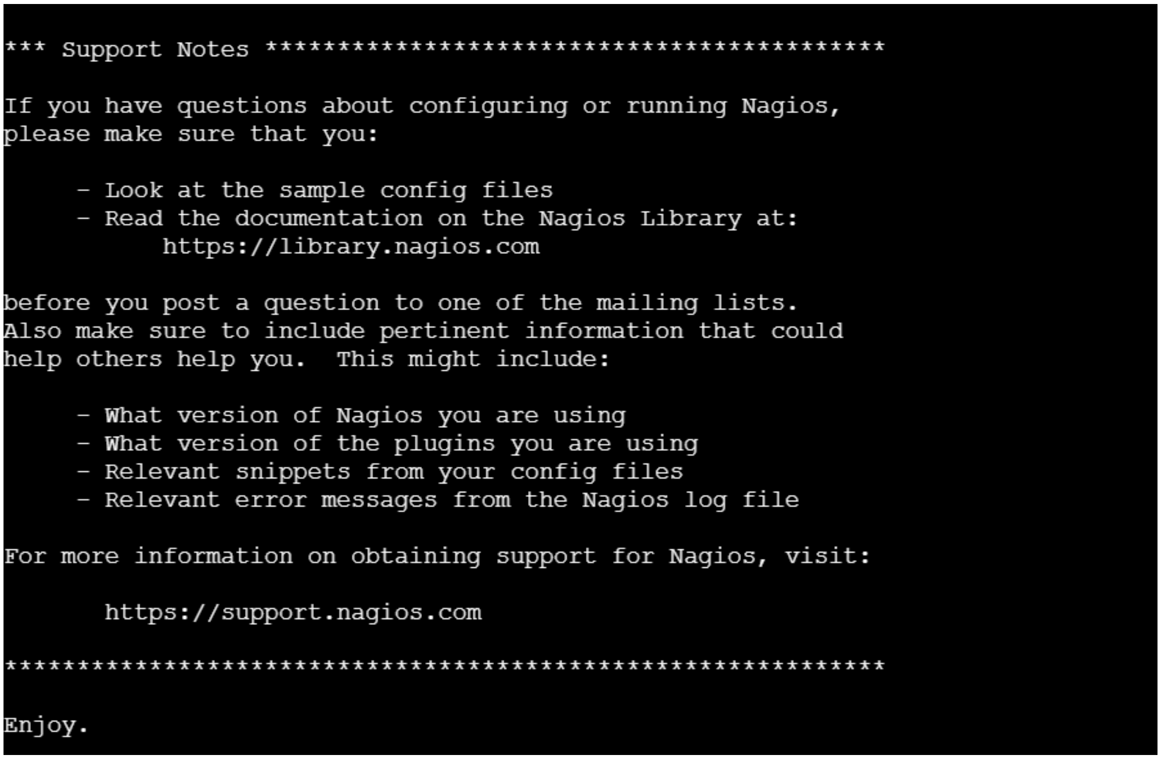
Step 12. Compile Source Code

Commands -

make all



```
[ec2-user@ip-172-31-80-22 nagios-4.4.6]$ make all
cd ./base && make
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.4.6/base'
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o nagios.o nagios.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o broker.o broker.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o nebmods.o nebmods.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o ../common/shared.o ../common/shared.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o query-handler.o query-handler.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o workers.o workers.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=]
  253 |                 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 -DNSCORE   -c -o checks.o checks.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o config.o config.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o commands.o commands.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o events.o events.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o flapping.o flapping.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE   -c -o logging.o logging.c
gcc -Wall -I.. -g -O2 -DHAVE_CONFIG_H -DNSCORE -c -o macros-base.o ../common/macros.c
```

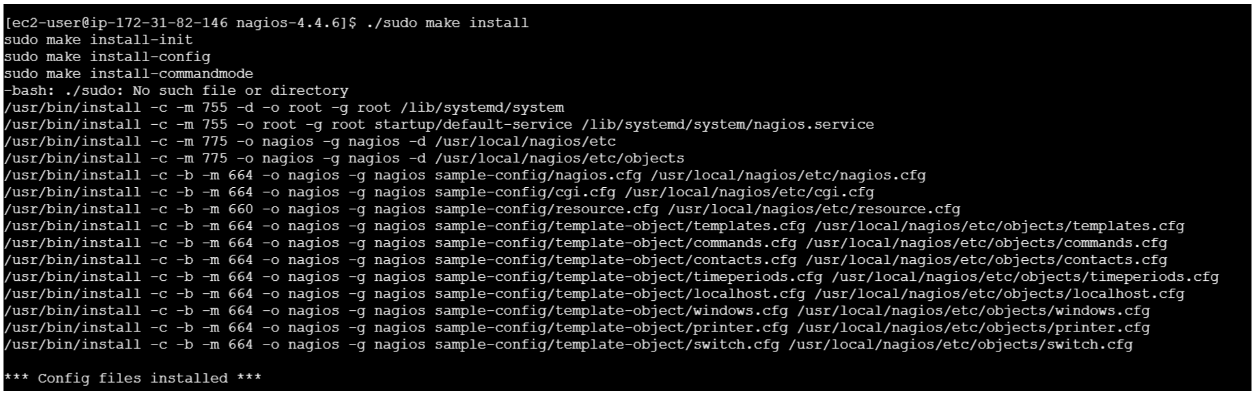


```
*** Support Notes *******************************************

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.
```

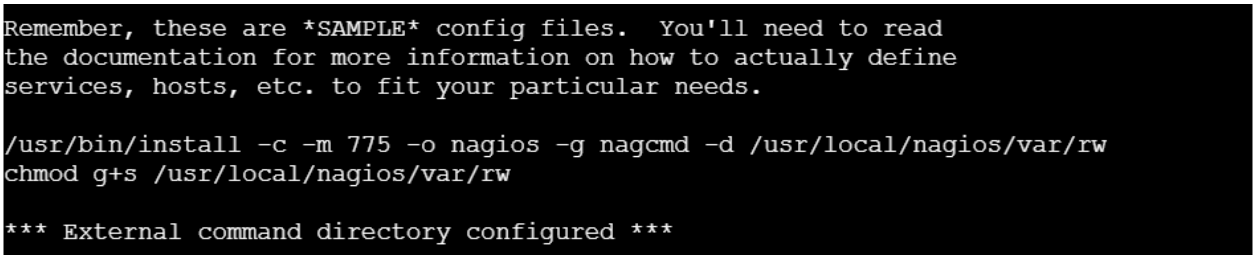
Step 13. Install Binaries, Init Script, and Sample Config Files

Commands -

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



```
[ec2-user@ip-172-31-82-146 nagios-4.4.6]$ ./sudo make install
sudo make install-init
sudo make install-config
sudo make install-commandmode
-bash: ./sudo: No such file or directory
/usr/bin/install -c -m 755 -d -o root -g root /lib/systemd/system
/usr/bin/install -c -m 755 -o root -g root startup/default-service /lib/systemd/system/nagios.service
/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 ***
```



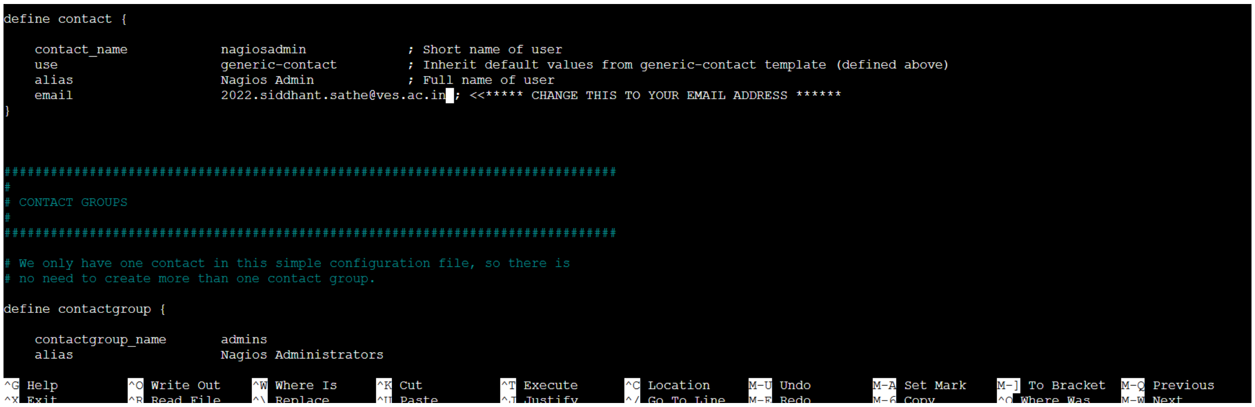
```
Remember, these are *SAMPLE* config files.  You'll need to read
the documentation for more information on how to actually define
services, hosts, etc. to fit your particular needs.

/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 ***
```

Step 14. Edit the Config File to Change the Email Address

Commands -

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

Change the email address in the `contacts.cfg` file to your preferred email.

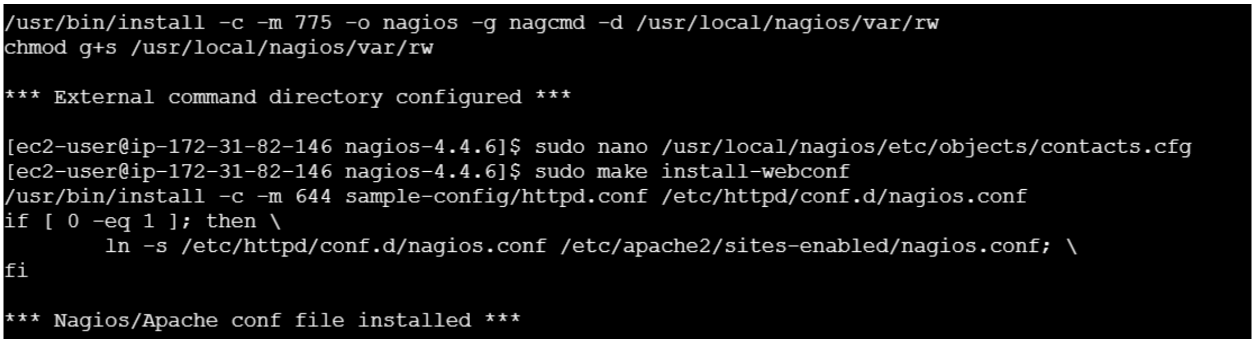


```
define contact {

    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.siddhant.sathe@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
^G Help      ^O Write Out  ^W Where Is  ^K Cut     ^T Execute  ^C Location    M-U Undo  M-A Set Mark  M-] To Bracket  M-Q Previous
^X Exit      ^R Read File  ^\ Replace   ^U Paste   ^J Justify  ^/ Go To Line  M-E Redo  M-6 Copy      ^Q Where Was    M-W Next
```

Step 15. Configure the Web Interface

Commands -

sudo make install-webconf



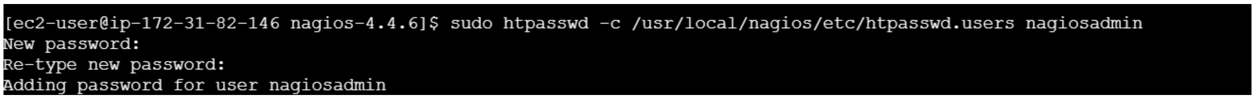
```
/usr/bin/install -c -m 775 -o nagios -g nagcmd -d /usr/local/nagios/var/rw
chmod g+s /usr/local/nagios/var/rw

*** External command directory configured ***

[ec2-user@ip-172-31-82-146 nagios-4.4.6]$ sudo nano /usr/local/nagios/etc/objects/contacts.cfg
[ec2-user@ip-172-31-82-146 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 \
        ln -s /etc/httpd/conf.d/nagios.conf /etc/apache2/sites-enabled/nagios.conf; \
fi

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

Step 16. Create a Nagios Admin Account

Commands -

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

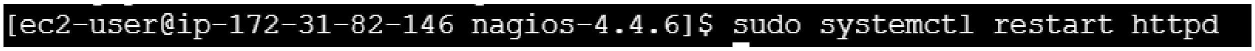
- You will be prompted to enter and confirm the password for the `nagiosadmin` user.(password is nagios)



```
[ec2-user@ip-172-31-82-146 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
```

Step 17. Restart Apache

Commands - sudo systemctl restart httpd



```
[ec2-user@ip-172-31-82-146 nagios-4.4.6]$ sudo systemctl restart httpd
```

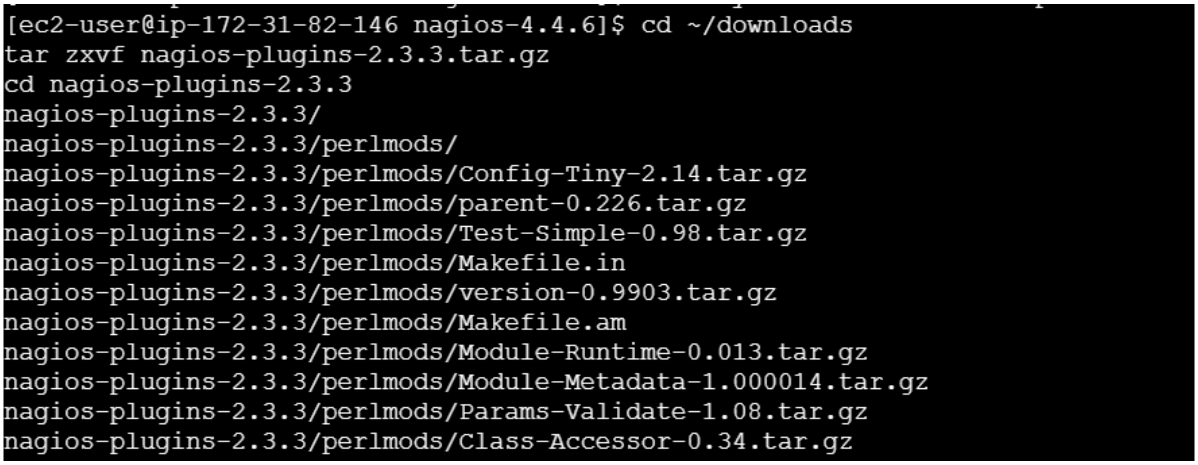
Step 18. Extract the Plugins Source File

Commands -

cd ~/downloads

tar zxvf nagios-plugins-2.3.3.tar.gz

cd nagios-plugins-2.3.3



```
[ec2-user@ip-172-31-82-146 nagios-4.4.6]$ cd ~/downloads
tar zxvf nagios-plugins-2.3.3.tar.gz
cd nagios-plugins-2.3.3
nagios-plugins-2.3.3/
nagios-plugins-2.3.3/perlmods/
nagios-plugins-2.3.3/perlmods/Config-Tiny-2.14.tar.gz
nagios-plugins-2.3.3/perlmods/parent-0.226.tar.gz
nagios-plugins-2.3.3/perlmods/Test-Simple-0.98.tar.gz
nagios-plugins-2.3.3/perlmods/Makefile.in
nagios-plugins-2.3.3/perlmods/version-0.9903.tar.gz
nagios-plugins-2.3.3/perlmods/Makefile.am
nagios-plugins-2.3.3/perlmods/Module-Runtime-0.013.tar.gz
nagios-plugins-2.3.3/perlmods/Module-Metadata-1.000014.tar.gz
nagios-plugins-2.3.3/perlmods/Params-Validate-1.08.tar.gz
nagios-plugins-2.3.3/perlmods/Class-Accessor-0.34.tar.gz
```

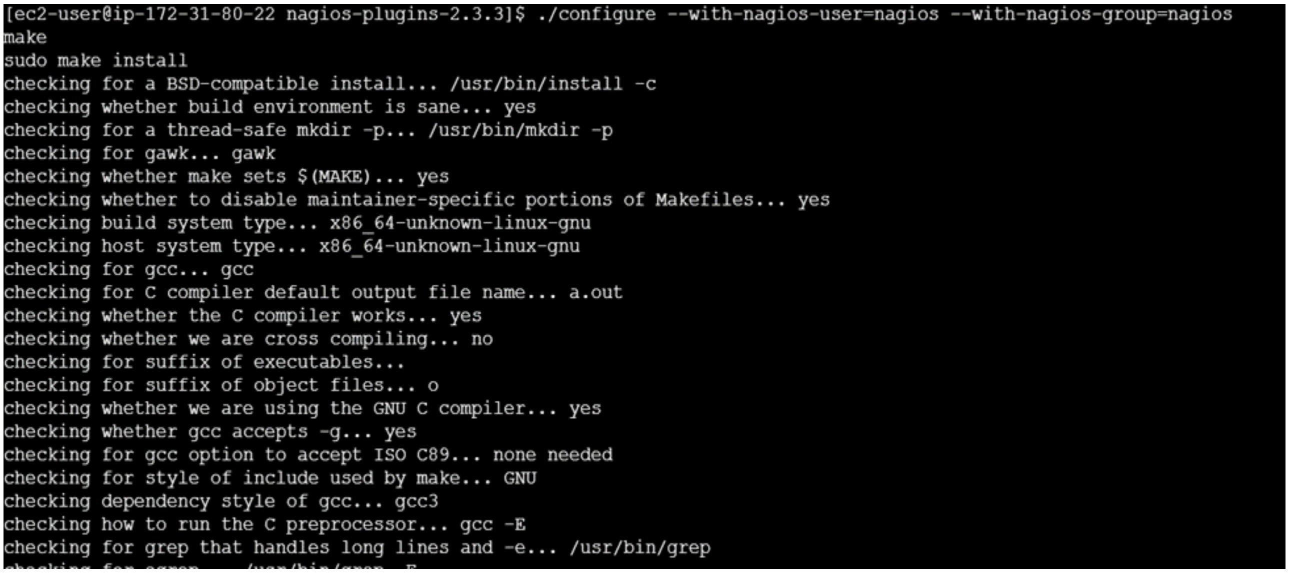
Step 19. Compile and Install Plugins

Commands -

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

make

sudo make install



```
[ec2-user@ip-172-31-80-22 nagios-plugins-2.3.3]$ ./configure --with-nagios-user=nagios --with-nagios-group=nagios
make
sudo make install
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 to disable maintainer-specific portions of Makefiles... yes
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 for style of include used by make... GNU
checking dependency style of gcc... gcc3
checking how to run the C preprocessor... gcc -E
checking for grep that handles long lines and -e... /usr/bin/grep
```

Step 20. Start Nagios

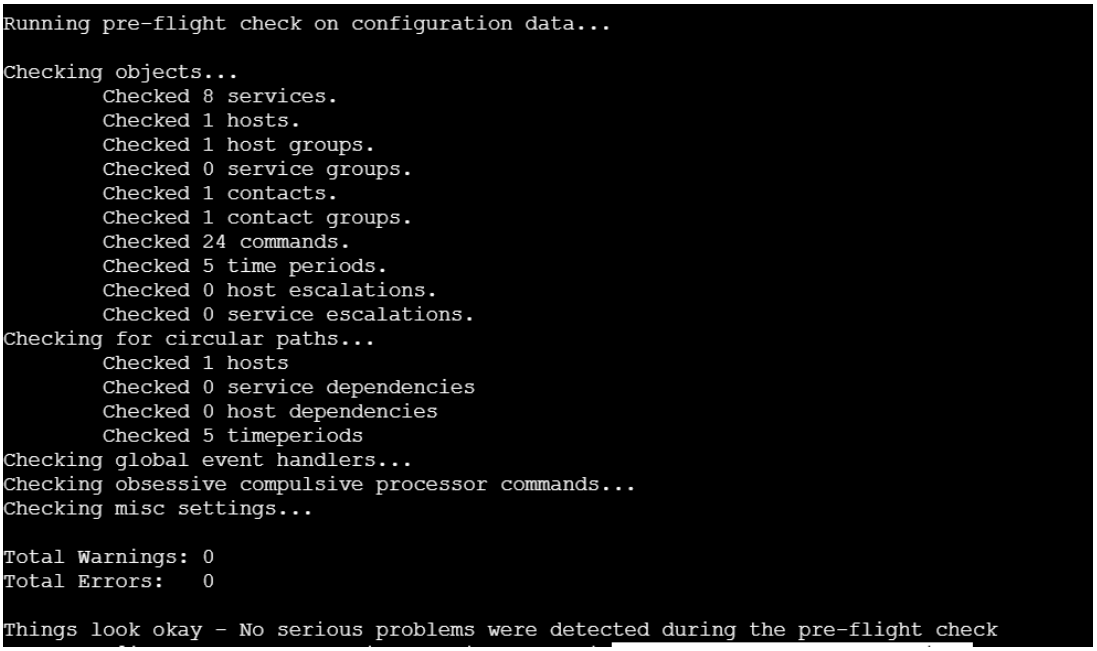
Commands -

sudo chkconfig --add nagios

sudo chkconfig nagios on

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

sudo systemctl start nagios

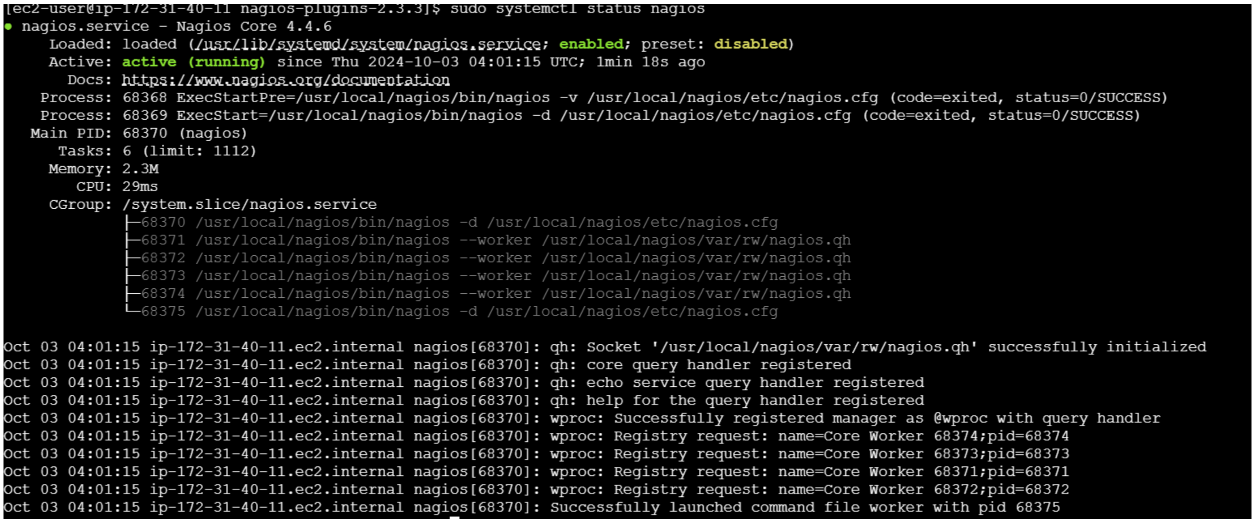


```
Running pre-flight check on configuration data...

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
```

Step 21. Check the Status of Nagios

Commands -

sudo systemctl status nagios



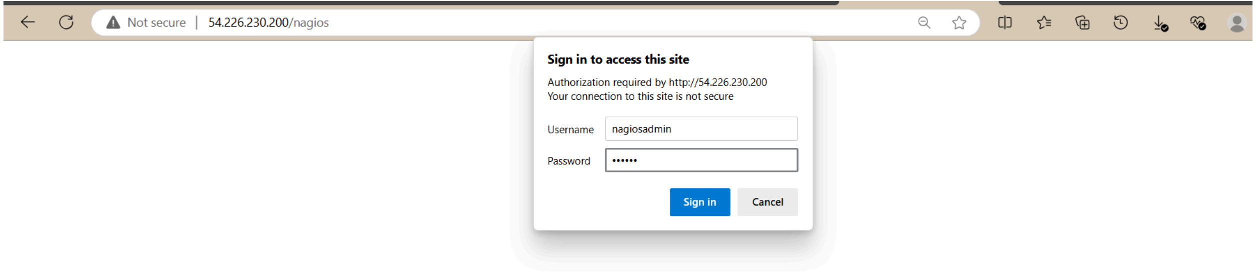
```
[ec2-user@ip-172-31-40-11 nagios-plugins-2.3.3]$ sudo systemctl status nagios
● nagios.service - Nagios Core 4.4.6
     Loaded: loaded (/usr/lib/systemd/system/nagios.service; enabled; preset: disabled)
     Active: active (running) since Thu 2024-10-03 04:01:15 UTC; 1min 18s ago
       Docs: https://www.nagios.org/documentation
    Process: 68368 ExecStartPre=/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)
    Process: 68369 ExecStart=/usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)
   Main PID: 68370 (nagios)
      Tasks: 6 (limit: 1112)
     Memory: 2.3M
        CPU: 29ms
     CGroup: /system.slice/nagios.service
             ├─68370 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
             ├─68371 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             ├─68372 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             ├─68373 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             ├─68374 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             └─68375 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg

Oct 03 04:01:15 ip-172-31-40-11.ec2.internal nagios[68370]: qh: Socket '/usr/local/nagios/var/rw/nagios.qh' successfully initialized
Oct 03 04:01:15 ip-172-31-40-11.ec2.internal nagios[68370]: qh: core query handler registered
Oct 03 04:01:15 ip-172-31-40-11.ec2.internal nagios[68370]: qh: echo service query handler registered
Oct 03 04:01:15 ip-172-31-40-11.ec2.internal nagios[68370]: qh: help for the query handler registered
Oct 03 04:01:15 ip-172-31-40-11.ec2.internal nagios[68370]: wproc: Successfully registered manager as @wproc with query handler
Oct 03 04:01:15 ip-172-31-40-11.ec2.internal nagios[68370]: wproc: Registry request: name=Core Worker 68374;pid=68374
Oct 03 04:01:15 ip-172-31-40-11.ec2.internal nagios[68370]: wproc: Registry request: name=Core Worker 68373;pid=68373
Oct 03 04:01:15 ip-172-31-40-11.ec2.internal nagios[68370]: wproc: Registry request: name=Core Worker 68371;pid=68371
Oct 03 04:01:15 ip-172-31-40-11.ec2.internal nagios[68370]: wproc: Registry request: name=Core Worker 68372;pid=68372
Oct 03 04:01:15 ip-172-31-40-11.ec2.internal nagios[68370]: Successfully launched command file worker with pid 68375
```

Step 22. Access Nagios Web Interface

- Copy the Public IP address of your EC2 instance.

- Open your browser and navigate to `http://<your_public_ip_address>/nagios`.

Enter the username `nagiosadmin` and the password you set in Step 16.

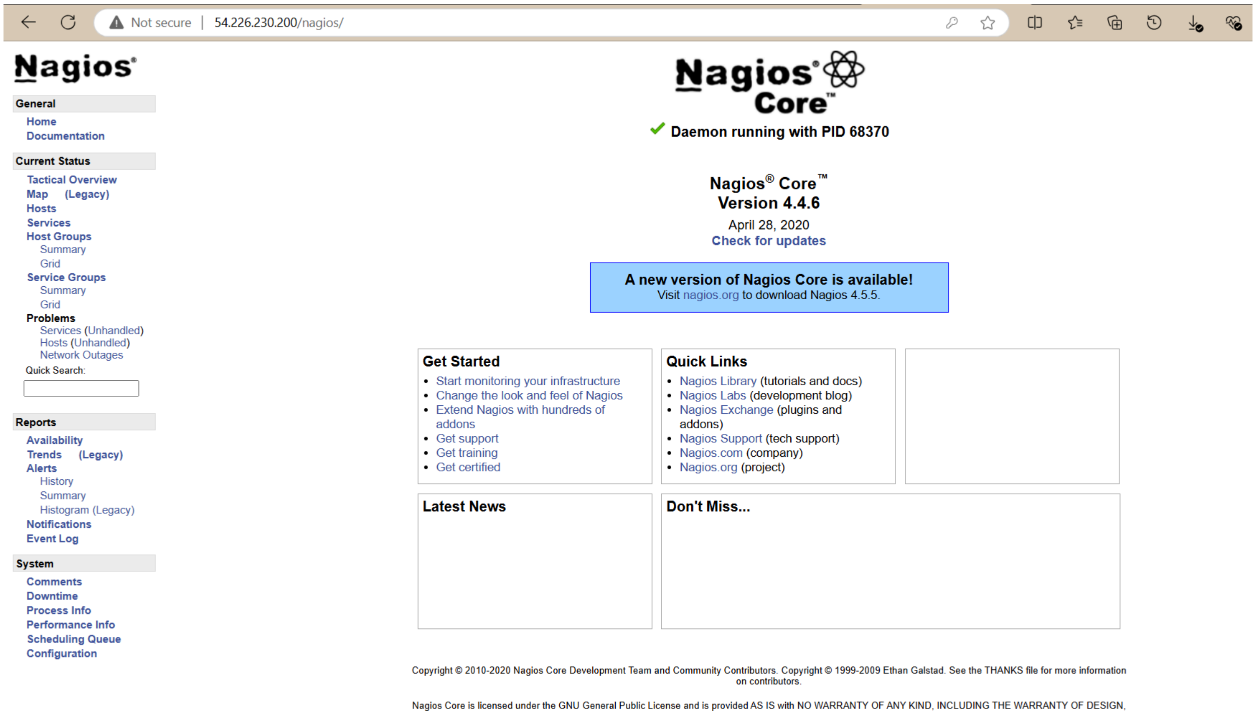


Sign in to access this site

Authorization required by http://54.226.230.200
Your connection to this site is not secure

Username: nagiosadmin

Password: ••••••



✓ Daemon running with PID 68370

Nagios® Core™
Version 4.4.6
April 28, 2020
Check for updates

A new version of Nagios Core is available!
Visit nagios.org to download Nagios 4.5.5.

Get Started
- Start monitoring your infrastructure
- 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)
- Nagios Support (tech support)
- Nagios.com (company)
- Nagios.org (project)

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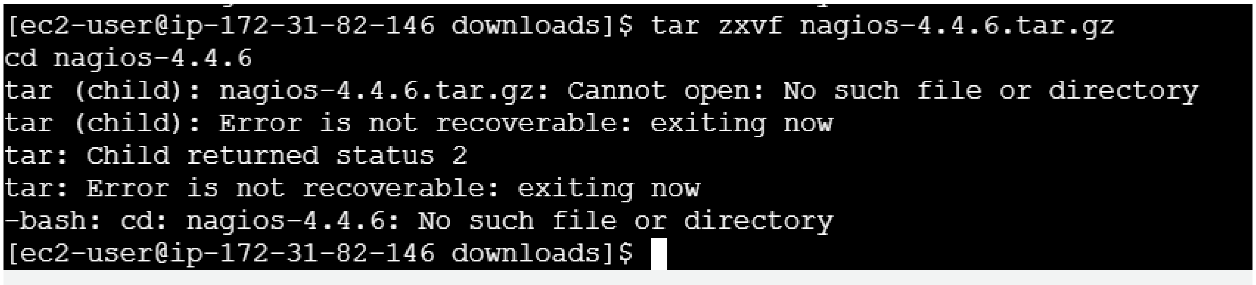
Error:

This error arises because nagios 4.4.6 was not found. It was arised due to sudo yum install gcc glibc glibc-common was not executed successfully.



```
[ec2-user@ip-172-31-82-146 downloads]$ tar zxvf nagios-4.4.6.tar.gz
cd nagios-4.4.6
tar (child): nagios-4.4.6.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
-bash: cd: nagios-4.4.6: No such file or directory
[ec2-user@ip-172-31-82-146 downloads]$
```