

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

Steps:

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

Name and tags [Info](#)

Name

nagios [Add additional tags](#)

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

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Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

ami-0ff1b9a61dec8a5f (64-bit (x86), uefi-preferred) / ami-0621e09dc8263acc3 (64-bit (Arm), uefi)

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications.

Number of instances

Info

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.5.2...[read more](#)

ami-0ff1b9a61dec8a5f

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](#)

Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

server

Create new key pair

Network settings [Info](#)

Edit

Network

Info

vpc-051bba342b3626898

Subnet

Info

No preference (Default subnet in any availability zone)

Auto-assign public IP

Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups)

Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

Common security groups

Info

Select security groups

Nagios sg-0b1355e80625c05ee

X

VPC: vpc-051bba342b3626898

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.


```
sudo yum update
```

```
sudo yum install httpd php
```

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

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

```
[ec2-user@ip-172-31-39-90 ~]$ sudo yum update
sudo yum install httpd php
sudo yum install gcc glibc glibc-common
sudo yum install gd gd-devel
Last metadata expiration check: 0:02:27 ago on Fri Oct  4 03:35:02 2024.
Dependencies resolved.
Nothing to do.
Complete!
```

```
Installed:
brotli-1.0.9-4.amzn2023.0.2.x86_64
bzip2-devel-1.0.8-6.amzn2023.0.2.x86_64
cmake-filesystem-3.22.2-1.amzn2023.0.4.x86_64
fontconfig-devel-2.13.94-2.amzn2023.0.2.x86_64
freetype-2.13.2-5.amzn2023.0.1.x86_64
gd-2.3.3-5.amzn2023.0.3.x86_64
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-1.0.10-6.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
libselinux-devel-3.4-5.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
pixmap-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
brotli-devel-1.0.9-4.amzn2023.0.2.x86_64
cairo-1.17.6-2.amzn2023.0.1.x86_64
fontconfig-2.13.94-2.amzn2023.0.2.x86_64
fonts-filesystem-1:2.0.5-12.amzn2023.0.2.noarch
freetype-devel-2.13.2-5.amzn2023.0.1.x86_64
gd-devel-2.3.3-5.amzn2023.0.3.x86_64
google-noto-fonts-common-20201206-2.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-2021.4-1.amzn2023.0.2.noarch
zlib-devel-1.2.11-33.amzn2023.0.5.x86_64

Complete!
```

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-172-31-39-90 ~]$ sudo adduser -m nagios
sudo passwd nagios
Changing password for user nagios.
New password:
```

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

6. Create a new user group

```
sudo groupadd nagcmd
```

```
[ec2-user@ip-172-31-39-90 ~]$ 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
```

```
[ec2-user@ip-172-31-39-90 ~]$ 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-172-31-39-90 ~]$ mkdir ~/downloads  
cd ~/downloads
```

9. Use wget to download the source zip files.

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

```
[ec2-user@ip-172-31-39-90 downloads]$ wget https://go.nagios.org/1/975333/2024-09-17/6kqcx  
--2024-10-04 03:45:50-- https://go.nagios.org/1/975333/2024-09-17/6kqcx  
Resolving go.nagios.org (go.nagios.org)... 3.92.120.28, 34.237.219.119, 52.54.96.194, ...  
Connecting to go.nagios.org (go.nagios.org)|3.92.120.28|: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=Dow  
utm_campaign=Core+4.5.5+Download+&pi_content=1e9662c93afb2ed6bd2e3f3cc38771a7f01125e969f2a75b0e2254439d4a81d8 [following]  
--2024-10-04 03:45:51-- http://assets.nagios.com/downloads/nagioscore/releases/nagios-4.5.5.tar.gz?utm_source=Nagios.org&  
=Download+Form&utm_campaign=Core+4.5.5+Download+&pi_content=1e9662c93afb2ed6bd2e3f3cc38771a7f01125e969f2a75b0e2254439d4a81  
Resolving assets.nagios.com (assets.nagios.com)... 45.79.49.120, 2600:3c00::f03c:92ff:fe77:45ce  
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=Do  
&utm_campaign=Core+4.5.5+Download+&pi_content=1e9662c93afb2ed6bd2e3f3cc38771a7f01125e969f2a75b0e2254439d4a81d8 [following]  
--2024-10-04 03:45:51-- https://assets.nagios.com/downloads/nagioscore/releases/nagios-4.5.5.tar.gz?utm_source=Nagios.org  
t=Download+Form&utm_campaign=Core+4.5.5+Download+&pi_content=1e9662c93afb2ed6bd2e3f3cc38771a7f01125e969f2a75b0e2254439d4a8  
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 7.32MB/s i  
2024-10-04 03:45:51 (7.32 MB/s) - '6kqcx' saved [2065473/2065473]  
[ec2-user@ip-172-31-39-90 downloads]$ |
```

Wget <http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz>

```
[ec2-user@ip-172-31-39-90 downloads]$ wget http://nagios-plugins.org/download/nagios-plugins-2.4.11.tar.gz
--2024-10-04 03:47:43-- http://nagios-plugins.org/download/nagios-plugins-2.4.11.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: 2753049 (2.6M) [application/x-gzip]
Saving to: 'nagios-plugins-2.4.11.tar.gz'

nagios-plugins-2.4.11.tar.gz      100%[=====] 2.62M
2024-10-04 03:47:44 (6.85 MB/s) - 'nagios-plugins-2.4.11.tar.gz' saved [2753049/2753049]
```

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

```
tar zxvf 6kqcx
```

```
[ec2-user@ip-172-31-39-90 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/LEGAL
nagios-4.5.5/LICENSE
nagios-4.5.5/Makefile.in
nagios-4.5.5/README.md
nagios-4.5.5/THANKS
nagios-4.5.5/UPGRADING
nagios-4.5.5/aclocal.m4
nagios-4.5.5/autoconf-macros/
nagios-4.5.5/autoconf-macros/.gitignore
nagios-4.5.5/autoconf-macros/CHANGELOG.md
nagios-4.5.5/autoconf-macros/LICENSE
```

```
[ec2-user@ip-172-31-39-90 downloads]$ cd nagios-4.5.5
```

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

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

```
[ec2-user@ip-172-31-39-90 nagios-4.5.5]$ ./configure --with-command-group=nagcmd
checking for a BSD-compatible install... /usr/bin/install -c
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether the compiler supports GNU C... yes
checking whether gcc accepts -g... yes
checking for gcc option to enable C11 features... none needed
checking whether make sets $(MAKE)... yes
checking whether ln -s works... yes
checking for strip... /usr/bin/strip
checking for sys/wait.h that is POSIX.1 compatible... yes
checking for stdio.h... yes
```

error:

```
checking for Kerberos include files... configure: WARNING: could not find include files
checking for pkg-config... pkg-config
checking for SSL headers... configure: error: Cannot find ssl headers
```

```
checking for SSL headers... configure: error: Cannot find ssl headers
[ec2-user@ip-172-31-39-90 nagios-4.5.5]$ sudo yum install openssl-devel
Last metadata expiration check: 0:16:59 ago on Fri Oct 4 03:35:02 2024.
Dependencies resolved.
=====
Package                               Architecture      Version            Repository          Size
=====
Installing:
openssl-devel                          x86_64            1:3.0.8-1.amzn2023.0.14  amazonlinux         3.0 M
Transaction Summary
=====
Install 1 Package

Total download size: 3.0 M
Installed size: 4.7 M
Is this ok [y/N]: y
Downloading Packages:
openssl-devel-3.0.8-1.amzn2023.0.14.x86_64.rpm                                19 MB/s | 3.0 MB  00:00
-----
Total                                                                    15 MB/s | 3.0 MB  00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      :                                1/1
  Installing     : openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64 1/1
  Running scriptlet: openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64 1/1
  Verifying      : openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64 1/1

Installed:
  openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64

Complete!
```

```

complete.
[ec2-user@ip-172-31-39-90 nagios-4.5.5]$ ./configure --with-command-group=nagcmd
checking for a BSD-compatible install... /usr/bin/install -c
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether the compiler supports GNU C... yes
checking whether gcc accepts -g... yes
checking for gcc option to enable C11 features... none needed
checking whether make sets $(MAKE)... yes
checking whether ln -s works... yes
checking for strip... /usr/bin/strip
checking for sys/wait.h that is POSIX.1 compatible... yes
checking for stdio.h... yes
checking for stdlib.h... yes
checking for string.h... yes
checking for inttypes.h... yes
checking for stdint.h... yes
checking for strings.h... yes
checking for sys/stat.h... yes
checking for sys/types.h... yes
checking for unistd.h... yes
checking for arpa/inet.h... yes
checking for ctype.h... yes
checking for dirent.h... yes
checking for errno.h... yes
checking for fcntl.h... yes
checking for getopt.h... yes
checking for grp.h... yes

```

Creating sample config files in sample-config/ ...

*** Configuration summary for nagios 4.5.5 2024-09-17 ***:

General Options:

```

-----
Nagios executable: nagios
Nagios user/group: nagios,nagios
Command user/group: nagios,nagcmd
Event Broker: yes
Install ${prefix}: /usr/local/nagios
Install ${includedir}: /usr/local/nagios/include/nagios
Lock file: /run/nagios.lock
Check result directory: /usr/local/nagios/var/spool/checkresults
Init directory: /lib/systemd/system
Apache conf.d directory: /etc/httpd/conf.d
Mail program: /bin/mail
Host OS: linux-gnu
IOBroker Method: epoll

```

Web Interface Options:

```

-----
HTML URL: http://localhost/nagios/
CGI URL: http://localhost/nagios/cgi-bin/
Traceroute (used by WAP): /usr/bin/traceroute

```

Review the options above for accuracy. If they look okay,
type 'make all' to compile the main program and CGIs.

12. Compile the source code.

```
make all
```

```
*** Compile finished ***

If the main program and CGIs compiled without any errors, you
can continue with testing or installing Nagios as follows (type
'make' without any arguments for a list of all possible options):

make test
- This runs the test suite

make install
- This installs the main program, CGIs, and HTML files

make install-init
- This installs the init script in /lib/systemd/system

make install-daemoninit
- This will initialize the init script
  in /lib/systemd/system
```

```
*** 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.
```

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
```


14. Edit the config file and change the email address.

```
sudo nano /usr/local/nagios/etc/objects
```

```
[ec2-user@ip-172-31-39-90 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 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'
```

*** Main program, CGIs and HTML files installed ***

You can continue with installing Nagios as follows (type 'make' without any arguments for a list of all possible options):

make install-init

- This installs the init script in /lib/systemd/system

make install-commandmode

- This installs and configures permissions on the directory for holding the external command file

make install-config

- This installs sample config files in /usr/local/nagios/etc

*** 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 ***

```
cd nagios-plugins-2.4.11
```

```
[ec2-user@ip-172-31-39-90 nagios-plugins-2.4.11]$ ./configure
--with-nagios-user=nagios --with-nagios-group=nagios
```

```
[ec2-user@ip-172-31-39-90 downloads]$ cd nagios-plugins-2.4.11
[ec2-user@ip-172-31-39-90 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 for gcc option to accept ISO C89... none needed
checking whether gcc understands -c and -o together... yes
checking whether make supports the include directive... yes (GNU style)
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
checking for egrep... /usr/bin/grep -E
checking for Minix Amsterdam compiler... no
checking for ar... ar
```

15. Configure the web interface.

`sudo make install-webconf`

```
[ec2-user@ip-172-31-39-90 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 ***
```

16. 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-172-31-39-90 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
```

17. Restart Apache

`sudo service httpd restart`

```
[ec2-user@ip-172-31-39-90 nagios-4.5.5]$ sudo service httpd restart
Redirecting to /bin/systemctl restart httpd.service
```

18. Go back to the downloads folder and unzip the plugins zip file.

`cd ~/downloads`

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

```
[ec2-user@ip-172-31-39-90 nagios-4.5.5]$ cd ~/downloads
[ec2-user@ip-172-31-39-90 downloads]$ tar zxvf nagios-plugins-2.4.11.tar.gz
nagios-plugins-2.4.11/
nagios-plugins-2.4.11/build-aux/
nagios-plugins-2.4.11/build-aux/compile
nagios-plugins-2.4.11/build-aux/config.guess
nagios-plugins-2.4.11/build-aux/config.rpath
nagios-plugins-2.4.11/build-aux/config.sub
nagios-plugins-2.4.11/build-aux/install-sh
nagios-plugins-2.4.11/build-aux/ltmain.sh
nagios-plugins-2.4.11/build-aux/missing
nagios-plugins-2.4.11/build-aux/mkinstalldirs
nagios-plugins-2.4.11/build-aux/depcomp
nagios-plugins-2.4.11/build-aux/snippet/
nagios-plugins-2.4.11/build-aux/snippet/_Noreturn.h
nagios-plugins-2.4.11/build-aux/snippet/arg-nonnull.h
nagios-plugins-2.4.11/build-aux/snippet/c++defs.h
nagios-plugins-2.4.11/build-aux/snippet/warn-on-use.h
nagios-plugins-2.4.11/build-aux/test-driver
nagios-plugins-2.4.11/config_test/
nagios-plugins-2.4.11/config_test/Makefile
nagios-plugins-2.4.11/config_test/run_tests
nagios-plugins-2.4.11/config_test/child_test.c
nagios-plugins-2.4.11/gl/
nagios-plugins-2.4.11/gl/m4/
```

20. Start Nagios

Add Nagios to the list of system services

`sudo chkconfig --add nagios`

(error)

```
[ec2-user@ip-172-31-39-90 nagios-plugins-2.4.11]$ sudo chkconfig --add nagios
error reading information on service nagios: No such file or directory
```

`sudo chkconfig nagios on`

Verify the sample configuration files

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

```
ec2-user@ip-172-31-39-90:~$ sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

Nagios Core 4.5.5
Copyright (c) 2009-present Nagios Core Development Team and Community Contributors
Copyright (c) 1999-2009 Ethan Galstad
Last Modified: 2024-09-17
License: GPL

Website: https://www.nagios.org
Reading configuration data...
  Read main config file okay...
  Read object config files okay...

Running pre-flight check on configuration data...

Checking objects...
  Checked 8 services.
  Checked 1 hosts.
  Checked 1 host groups.
  Checked 0 service groups.
  Checked 1 contacts.
  Checked 1 contact groups.
  Checked 24 commands.
  Checked 5 time periods.
  Checked 0 host escalations.
  Checked 0 service escalations.
Checking for circular paths...
  Checked 1 hosts
  Checked 0 service dependencies
  Checked 0 host dependencies
  Checked 5 timeperiods
Checking global event handlers...
Checking obsessive compulsive processor commands...
Checking misc settings...

Total Warnings: 0
Total Errors: 0
```

```
ec2-user@ip-172-31-39-90:~/nagios-plugins-2.4.11$ sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

Nagios Core 4.5.5
Copyright (c) 2009-present Nagios Core Development Team and Community Contributors
Copyright (c) 1999-2009 Ethan Galstad
Last Modified: 2024-09-17
License: GPL

Website: https://www.nagios.org
Reading configuration data...
  Read main config file okay...
  Read object config files okay...

Running pre-flight check on configuration data...

Checking objects...
  Checked 8 services.
  Checked 1 hosts.
  Checked 1 host groups.
  Checked 0 service groups.
  Checked 1 contacts.
  Checked 1 contact groups.
  Checked 24 commands.
  Checked 5 time periods.
  Checked 0 host escalations.
  Checked 0 service escalations.
Checking for circular paths...
  Checked 1 hosts
  Checked 0 service dependencies
  Checked 0 host dependencies
  Checked 5 timeperiods
Checking global event handlers...
Checking obsessive compulsive processor commands...
Checking misc settings...

Total Warnings: 0
Total Errors: 0
```

```
sudo service nagios start
```

```
[ec2-user@ip-172-31-39-90 ~]$ sudo service nagios start  
Redirecting to /bin/systemctl start nagios.service
```

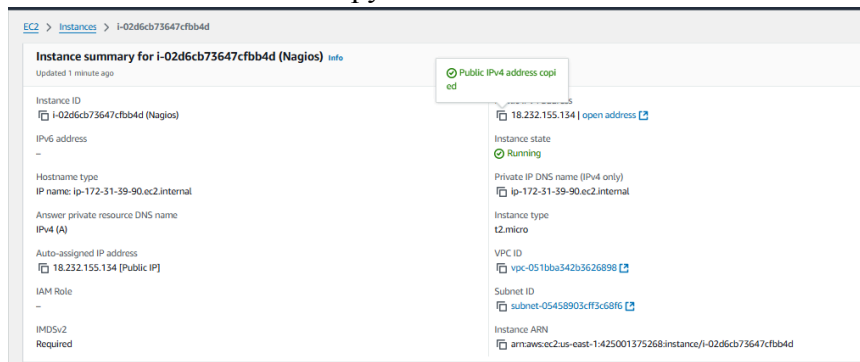
21. Check the status of Nagios

```
sudo systemctl status nagios
```

```
[ec2-user@ip-172-31-39-90 ~]$ sudo systemctl status nagios
● nagios.service - Nagios Core 4.5.5
   Loaded: loaded (/usr/lib/systemd/system/nagios.service; disabled; preset: disabled)
   Active: active (running) since Fri 2024-10-04 04:14:29 UTC; 1min 41s ago
     Docs: https://www.nagios.org/documentation
   Process: 75298 ExecStartPre=/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)
   Process: 75299 ExecStart=/usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/SUCCESS)
  Main PID: 75300 (nagios)
    Tasks: 6 (limit: 1112)
   Memory: 5.6M
      CPU: 89ms
   CGroup: /system.slice/nagios.service
           └─75300 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
             └─75301 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
               └─75302 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
                 └─75303 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
                   └─75304 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
                     └─75305 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg

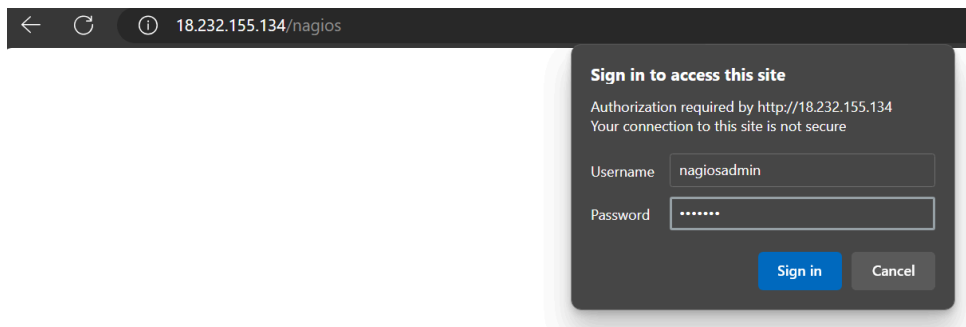
Oct 04 04:14:29 ip-172-31-39-90.ec2.internal nagios[75300]: wproc: Successfully registered manager as @wproc with query handler
Oct 04 04:14:29 ip-172-31-39-90.ec2.internal nagios[75300]: wproc: Registry request: name=Core Worker 75301;pid=75301
Oct 04 04:14:29 ip-172-31-39-90.ec2.internal nagios[75300]: wproc: Registry request: name=Core Worker 75302;pid=75302
Oct 04 04:14:29 ip-172-31-39-90.ec2.internal nagios[75300]: wproc: Registry request: name=Core Worker 75304;pid=75304
Oct 04 04:14:29 ip-172-31-39-90.ec2.internal nagios[75300]: wproc: Registry request: name=Core Worker 75303;pid=75303
Oct 04 04:14:29 ip-172-31-39-90.ec2.internal nagios[75300]: Successfully launched command file worker with pid 75305
Oct 04 04:14:29 ip-172-31-39-90.ec2.internal nagios[75300]: HOST ALERT: localhost;DOWN;SOFT;1;(No output on stdout) stderr: execvp(/
Oct 04 04:15:06 ip-172-31-39-90.ec2.internal nagios[75300]: SERVICE ALERT: localhost;Current Load;CRITICAL;HARD;1;(No output on stdo
Oct 04 04:15:29 ip-172-31-39-90.ec2.internal nagios[75300]: HOST ALERT: localhost;DOWN;SOFT;2;(No output on stdout) stderr: execvp(/
Oct 04 04:15:44 ip-172-31-39-90.ec2.internal nagios[75300]: SERVICE ALERT: localhost;Current Users;CRITICAL;HARD;1;(No output on std
[ec2-user@ip-172-31-39-90 ~]$
```

22. Go back to EC2 Console and copy the Public IP address of this instance

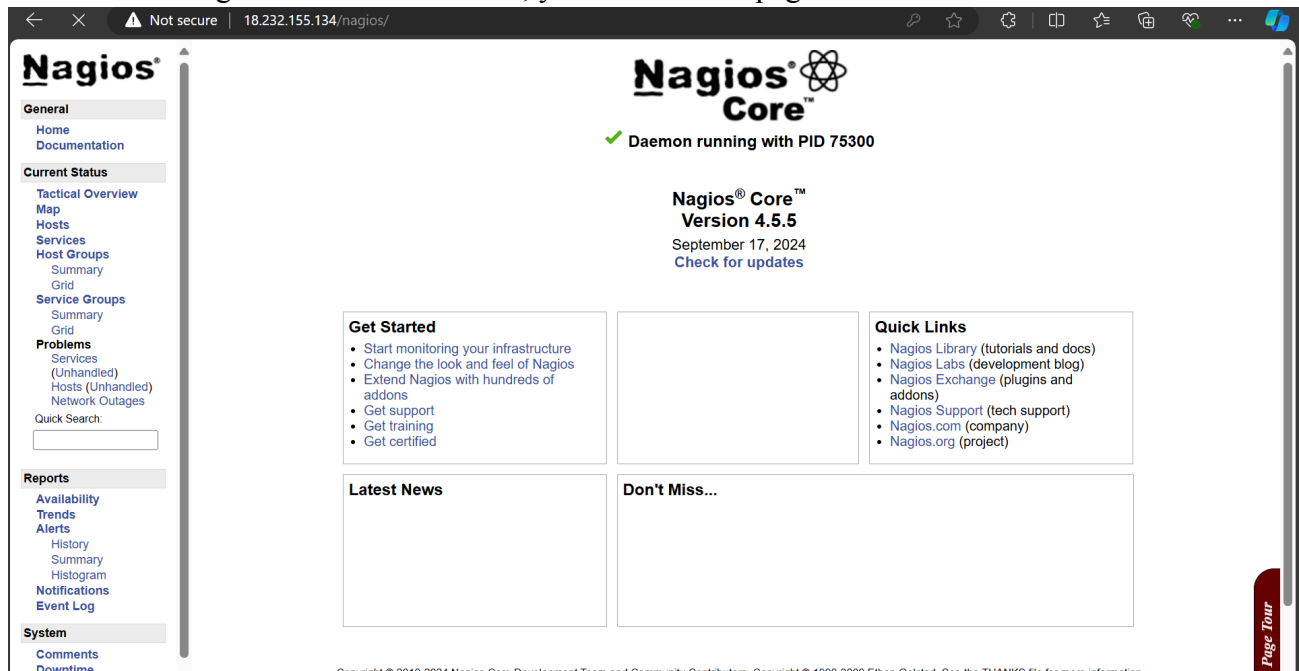


23. Open up your browser and look for **http://<your_public_ip_address>/nagios**

Enter username as nagiosadmin and password which you set in Step 16.



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



This means that Nagios was correctly installed and configured with its plugins so far.

Conclusion: