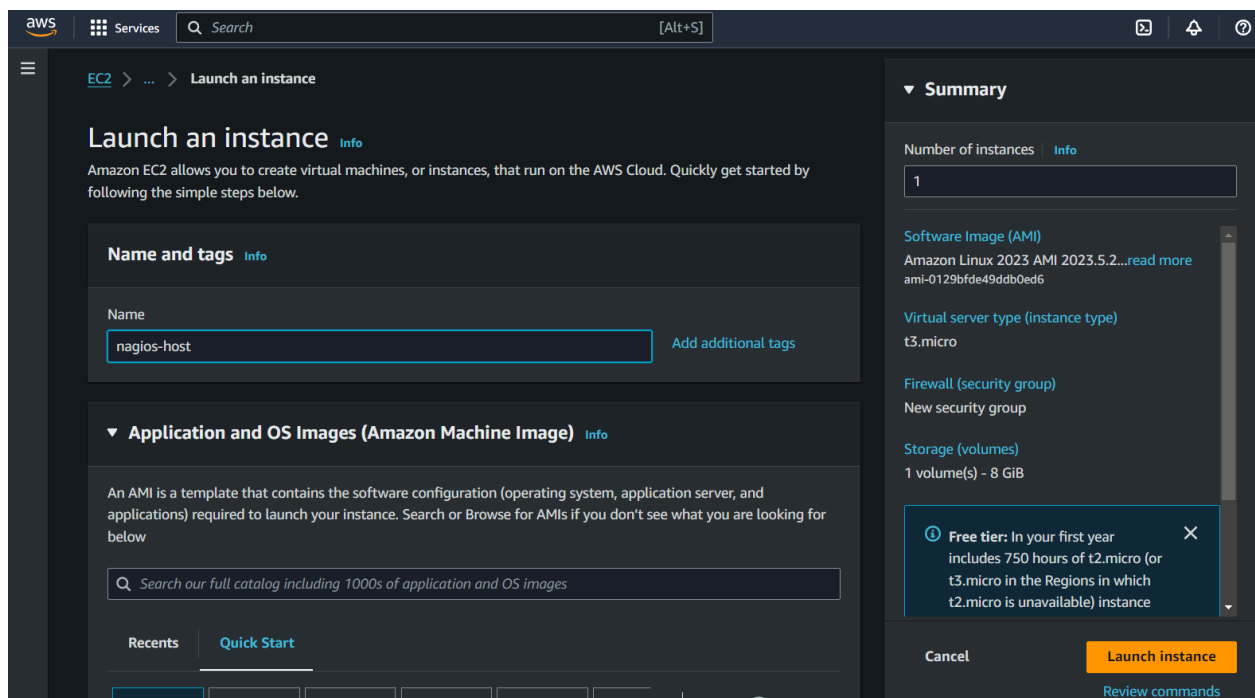Mahvish Siddiqui
D15A Roll No: 58

Advance DevOps Lab 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

- Name it nagios-host.

2. Configure Security Group

- Ensure HTTP, HTTPS, SSH, and ICMP are open from everywhere.

- Edit the inbound rules of the specified Security Group

Select the instance and under security, open security groups

Security Groups (1/1) Info

[Actions ▼] [Export security groups to CSV ▼] [Create security group]

🔍 Find resources by attribute or tag

Security group name = launch-wizard-3 ✕   [Clear filters]   ‹ 1 › ⚙

☑	Name ▽	Security group ID ▽	Security group name ▽	VPC ID ▽	Description
☑	–	sg-06d67ab13e0550eef	launch-wizard-3	vpc-08e88c85fcc263608 ↗	launch-wizar

sg-06d67ab13e0550eef - launch-wizard-3

Details   **Inbound rules**   **Outbound rules**   **Tags**

Inbound rules (1)

[Manage tags] [Edit inbound rules]

🔍 Search   ‹ 1 › ⚙

☐	Name ▽	Security group rule... ▽	IP version ▽	Type ▽	Protocol ▽	Port range
☐	–	sgr-03df802fcb1cda26b	IPv4	SSH	TCP	22

---

aws ⊞ Services 🔍 Search [Alt+S]   ▣ ⌂ ? ⚙ Stockholm ▾ Mahvish ▾

Inbound rules Info

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info	
sgr-03df802fcb1cda26b	HTTPS ▾	TCP	443	Anywher... ▾	🔍 0.0.0.0/0		Delete
					0.0.0.0/0 ✕	
–	All ICMP - IPv6 ▾	IPv6 ICMP	All	Anywher... ▾	🔍 ::/0		Delete
					::/0 ✕	
–	HTTPS ▾	TCP	443	Anywher... ▾	🔍		Delete
					0.0.0.0/0 ✕	
–	All traffic ▾	All	All	Anywher... ▾	🔍		Delete
					0.0.0.0/0 ✕	
–	SSH ▾	TCP	22	Anywher... ▾	🔍		Delete
					0.0.0.0/0 ✕	
–	Custom TCP ▾	TCP	5666	Anywher... ▾	🔍		Delete
					0.0.0.0/0 ✕	
–	All ICMP - IPv4 ▾	ICMP	All	Anywher... ▾	🔍		Delete
					0.0.0.0/0 ✕	

3. Connect to Your EC2 Instance

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

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-172-31-38-129 ~]$ sudo yum install httpd php
Last metadata expiration check: 0:16:40 ago on Tue Oct  1 04:26:43 2024.
Dependencies resolved.
================================================================================
 Package              Architecture     Version                 Repository     Si:
================================================================================
Installing:
 httpd                x86_64           2.4.62-1.amzn2023        amazonlinux    48
 php8.3               x86_64           8.3.10-1.amzn2023.0.1    amazonlinux    10
Installing dependencies:
 apr                  x86_64           1.7.2-2.amzn2023.0.2     amazonlinux    129
 apr-util             x86_64           1.6.3-1.amzn2023.0.1     amazonlinux    98
 generic-logos-httpd  noarch           18.0.0-12.amzn2023.0.3   amazonlinux    19
 httpd-core           x86_64           2.4.62-1.amzn2023        amazonlinux    1.4
 httpd-filesystem     noarch           2.4.62-1.amzn2023        amazonlinux    14
 httpd-tools          x86_64           2.4.62-1.amzn2023        amazonlinux    81
 libbrotli            x86_64           1.0.9-4.amzn2023.0.2     amazonlinux    315
 libsodium            x86_64           1.0.19-4.amzn2023        amazonlinux    176
 libxslt              x86_64           1.1.34-5.amzn2023.0.2    amazonlinux    241
 mailcap              noarch           2.1.49-3.amzn2023.0.3    amazonlinux    33
 nginx-filesystem     noarch           1:1.24.0-1.amzn2023.0.4  amazonlinux    9.8
 php8.3-cli           x86_64           8.3.10-1.amzn2023.0.1    amazonlinux    3.7
 php8.3-common        x86_64           8.3.10-1.amzn2023.0.1    amazonlinux    737
 php8.3-process       x86_64           8.3.10-1.amzn2023.0.1    amazonlinux    45
 php8.3-xml           x86_64           8.3.10-1.amzn2023.0.1    amazonlinux    154
Installing weak dependencies:
```

```
Installed:
  apr-1.7.2-2.amzn2023.0.2.x86_64                    apr-util-1.6.3-1.amzn2023.0.1.x86_64              apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
  generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch httpd-2.4.62-1.amzn2023.x86_64                    httpd-core-2.4.62-1.amzn2023.x86_64
  httpd-filesystem-2.4.62-1.amzn2023.noarch         httpd-tools-2.4.62-1.amzn2023.x86_64              libbrotli-1.0.9-4.amzn2023.0.2.x86_64
  libsodium-1.0.19-4.amzn2023.x86_64                libxslt-1.1.34-5.amzn2023.0.2.x86_64              mailcap-2.1.49-3.amzn2023.0.3.noarch
  mod_http2-2.0.27-1.amzn2023.0.3.x86_64            mod_lua-2.4.62-1.amzn2023.x86_64                  nginx-filesystem-1:1.24.0-1.amzn2023.0.4.noarch
  php8.3-8.3.10-1.amzn2023.0.1.x86_64               php8.3-cli-8.3.10-1.amzn2023.0.1.x86_64           php8.3-common-8.3.10-1.amzn2023.0.1.x86_64
  php8.3-fpm-8.3.10-1.amzn2023.0.1.x86_64           php8.3-mbstring-8.3.10-1.amzn2023.0.1.x86_64      php8.3-opcache-8.3.10-1.amzn2023.0.1.x86_64
  php8.3-pdo-8.3.10-1.amzn2023.0.1.x86_64           php8.3-process-8.3.10-1.amzn2023.0.1.x86_64       php8.3-sodium-8.3.10-1.amzn2023.0.1.x86_64
  php8.3-xml-8.3.10-1.amzn2023.0.1.x86_64

Complete!
[ec2-user@ip-172-31-38-129 ~]$ sudo yum install gcc glibc glibc-common~
```

```
[ec2-user@ip-172-31-38-129 ~]$ sudo yum install gcc glibc glibc-common
Last metadata expiration check: 0:20:07 ago on Tue Oct  1 04:26:43 2024.
Package glibc-2.34-52.amzn2023.0.11.x86_64 is already installed.
Package glibc-common-2.34-52.amzn2023.0.11.x86_64 is already installed.
Dependencies resolved.
================================================================================
 Package              Architecture     Version                  Repository     Size
================================================================================
Installing:
 gcc                  x86_64           11.4.1-2.amzn2023.0.2     amazonlinux    32 M
Installing dependencies:
 annobin-docs         noarch           10.93-1.amzn2023.0.1      amazonlinux    92 k
 annobin-plugin-gcc   x86_64           10.93-1.amzn2023.0.1      amazonlinux    887 k
 cpp                  x86_64           11.4.1-2.amzn2023.0.2     amazonlinux    10 M
 gc                   x86_64           8.0.4-5.amzn2023.0.2      amazonlinux    105 k
 glibc-devel          x86_64           2.34-52.amzn2023.0.11     amazonlinux    27 k
 glibc-headers-x86    noarch           2.34-52.amzn2023.0.11     amazonlinux    427 k
 guile22              x86_64           2.2.7-2.amzn2023.0.3      amazonlinux    6.4 M
 kernel-headers       x86_64           6.1.109-118.189.amzn2023  amazonlinux    1.4 M
 libmpc               x86_64           1.2.1-2.amzn2023.0.2      amazonlinux    62 k
 libtool-ltdl         x86_64           2.4.7-1.amzn2023.0.3      amazonlinux    38 k
 libxcrypt-devel      x86_64           4.4.33-7.amzn2023         amazonlinux    32 k
 make                 x86_64           1:4.3-5.amzn2023.0.2      amazonlinux    534 k
```

```
Installed:
  annobin-docs-10.93-1.amzn2023.0.1.noarch          annobin-plugin-gcc-10.93-1.amzn2023.0.1.x86_64      cpp-11.4.1-2.amzn2023.0.2.x86_64
  gc-8.0.4-5.amzn2023.0.2.x86_64                     gcc-11.4.1-2.amzn2023.0.2.x86_64                    glibc-devel-2.34-52.amzn2023.0.11.x86_64
  glibc-headers-x86-2.34-52.amzn2023.0.11.noarch     guile22-2.2.7-2.amzn2023.0.3.x86_64                 kernel-headers-6.1.109-118.189.amzn2023.x86_64
  libmpc-1.2.1-2.amzn2023.0.2.x86_64                 libtool-ltdl-2.4.7-1.amzn2023.0.3.x86_64            libxcrypt-devel-4.4.33-7.amzn2023.x86_64
  make-1:4.3-5.amzn2023.0.2.x86_64

Complete!
[ec2-user@ip-172-31-38-129 ~]$
```

```
  libXext-1.3.4-6.amzn2023.0.2.x86_64               libXpm-3.5.15-2.amzn2023.0.3.x86_64
  libXpm-devel-3.5.15-2.amzn2023.0.3.x86_64         libXrender-0.9.10-14.amzn2023.0.2.x86_64
  libXt-1.2.0-4.amzn2023.0.2.x86_64                 libblkid-devel-2.37.4-1.amzn2023.0.4.x86_64
  libffi-devel-3.4.4-1.amzn2023.0.1.x86_64          libicu-67.1-7.amzn2023.0.3.x86_64
  libicu-devel-67.1-7.amzn2023.0.3.x86_64           libjpeg-turbo-2.1.4-2.amzn2023.0.5.x86_64
  libjpeg-turbo-devel-2.1.4-2.amzn2023.0.5.x86_64   libmount-devel-2.37.4-1.amzn2023.0.4.x86_64
  libpng-2:1.6.37-10.amzn2023.0.6.x86_64            libpng-devel-2:1.6.37-10.amzn2023.0.6.x86_64
  libselinux-devel-3.4-5.amzn2023.0.2.x86_64        libsepol-devel-3.4-3.amzn2023.0.3.x86_64
  libtiff-4.4.0-4.amzn2023.0.18.x86_64              libtiff-devel-4.4.0-4.amzn2023.0.18.x86_64
  libwebp-1.2.4-1.amzn2023.0.6.x86_64               libwebp-devel-1.2.4-1.amzn2023.0.6.x86_64
  libxcb-1.13.1-7.amzn2023.0.2.x86_64               libxcb-devel-1.13.1-7.amzn2023.0.2.x86_64
  libxml2-devel-2.10.4-1.amzn2023.0.6.x86_64        pcre2-devel-10.40-1.amzn2023.0.3.x86_64
  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!
[ec2-user@ip-172-31-38-129 ~]$
```

5. Create a New Nagios User

Commands -

   sudo adduser -m nagios

   sudo passwd nagios

```
[ec2-user@ip-172-31-38-129 ~]$ sudo adduser -m nagios
[ec2-user@ip-172-31-38-129 ~]$ 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:
Retype new password:
passwd: all authentication tokens updated successfully.
[ec2-user@ip-172-31-38-129 ~]$ sudo groupadd nagcmd
[ec2-user@ip-172-31-38-129 ~]$
```

8. Create a Directory for Nagios Downloads

Commands -

   mkdir ~/downloads

   cd ~/downloads

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-172-31-38-129 downloads]$ wget http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gwget http://prdownloads.sourceforge.net/source
forge/nagios/nagios-4.0.8.tar.gz
--2024-10-01 04:54:41--  http://prdownloads.sourceforge.net/sourceforge/nagios/nagios-4.0.8.tar.gz
Resolving prdownloads.sourceforge.net (prdownloads.sourceforge.net)... 204.68.111.105
Connecting to prdownloads.sourceforge.net (prdownloads.sourceforge.net)|204.68.111.105|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: http://downloads.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz [following]
--2024-10-01 04:54:41--  http://downloads.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz
Resolving downloads.sourceforge.net (downloads.sourceforge.net)... 204.68.111.105
Reusing existing connection to prdownloads.sourceforge.net:80.
HTTP request sent, awaiting response... 302 Found
Location: http://altushost-swe.dl.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz?viasf=1 [following]
--2024-10-01 04:54:41--  http://altushost-swe.dl.sourceforge.net/project/nagios/nagios-4.x/nagios-4.0.8/nagios-4.0.8.tar.gz?viasf=1
Resolving altushost-swe.dl.sourceforge.net (altushost-swe.dl.sourceforge.net)... 79.142.76.130
Connecting to altushost-swe.dl.sourceforge.net (altushost-swe.dl.sourceforge.net)|79.142.76.130|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1805059 (1.7M) [application/x-gzip]
Saving to: 'nagios-4.0.8.tar.gz'

nagios-4.0.8.tar.gz              0%[                                                             ]      0  --.-KB/s            nagios-4
.0.8.tar.gz            100%[============================================================================>]   1.72M  --.-KB/s    in 0.03s

2024-10-01 04:54:42 (52.6 MB/s) - 'nagios-4.0.8.tar.gz' saved [1805059/1805059]

[ec2-user@ip-172-31-38-129 downloads]$
```

```
[ec2-user@ip-172-31-38-129 downloads]$ wget http://nagios-plugins.org/download/nagios-plugins-2.0.3.tar.gz          wget http://nagios-plugins.org/download/nagios
-plugins-2.0.3.tar.gz
--2024-10-01 04:55:25--  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      0%[                                                             ]      0  --.-KB/s            nagios-p
lugins-2.0.3.tar.gz      1%[>                                                            ]  50.11K   200KB/s            nagios-plugins-2
.0.3.tar.gz              7%[====>                                                        ]  192.00K   383KB/s        nagios-plugins-2.0.tar
.gz             30%[=======================>                                             ]  796.74K  1.03MB/s        nagios-plugins-2.0.3.tar.gz
                       100%[============================================================================>]   2.54M  2.88MB/s    in 0.9s

2024-10-01 04:55:26 (2.88 MB/s) - 'nagios-plugins-2.0.3.tar.gz' saved [2659772/2659772]

[ec2-user@ip-172-31-38-129 downloads]$
```

10. Extract the Nagios Source File

Commands -

tar zxvf nagios-4.4.6.tar.gz

cd nagios-4.4.6

11. Run the Configuration Script

Commands -

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

```
[ec2-user@ip-172-31-38-129 downloads]$ ls
nagios-4.0.8  nagios-4.0.8.tar.gz  nagios-plugins-2.0.3.tar.gz
[ec2-user@ip-172-31-38-129 downloads]$ cd nagios-4.0.8
[ec2-user@ip-172-31-38-129 nagios-4.0.8]$ ./configure --with-command-group=na./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
```

12. Compile the Source Code

```
*** Configuration summary for nagios 4.0.8 08-12-2014 ***:

 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:  ${prefix}/var/nagios.lock
     Check result directory:  ${prefix}/var/spool/checkresults
           Init directory:  /etc/rc.d/init.d
    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.

[ec2-user@ip-172-31-38-129 nagios-4.0.8]$ █
```

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

```
*** Init script installed ***

[ec2-user@ip-172-31-38-129 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.

[ec2-user@ip-172-31-38-129 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 ***

[ec2-user@ip-172-31-38-129 nagios-4.0.8]$
```

14. Edit the Config File to Change the Email Address

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

```
  GNU nano 5.8                          /usr/local/nagios/etc/objects/contacts.cfg                          Modified
# Just one contact defined by default - the Nagios admin (that's you)
# This contact definition inherits a lot of default values from the 'generic-contact'
# template which is defined elsewhere.

define contact{
        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                           mahvishsiddiqui169@gmail.com   ; <<***** 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.

^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
```

15. Configure the Web Interface

Commands - sudo make install-webconf

```
*** 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.

[ec2-user@ip-172-31-38-129 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 ***

[ec2-user@ip-172-31-38-129 nagios-4.0.8]$ sudo nano /usr/local/nagios/etc/obj
ects/contacts.cfg
[ec2-user@ip-172-31-38-129 nagios-4.0.8]$ sudo nano /usr/local/nagios/etc/obj
ects/contacts.cfg
[ec2-user@ip-172-31-38-129 nagios-4.0.8]$ sudo make install-webconf
/usr/bin/install -c -m 644 sample-config/httpd.conf /etc/httpd/conf.d/nagios.
conf

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

[ec2-user@ip-172-31-38-129 nagios-4.0.8]$
```

16. Create a Nagios Admin Account

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

```
[ec2-user@ip-172-31-38-129 nagios-4.0.8]$ sudo htpasswd -c /usr/local/nagios/
etc/htpasswd.users nagiosadmin          sudo htpasswd -c /usr/local/nagios/
etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
[ec2-user@ip-172-31-38-129 nagios-4.0.8]$ sudo service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[ec2-user@ip-172-31-38-129 nagios-4.0.8]$ cd ~/downloads
[ec2-user@ip-172-31-38-129 downloads]$
```

ERROR:

```
[ec2-user@ip-172-31-38-129 nagios-plugins-2.0.3]$ sudo chkconfig --add nagios
[ec2-user@ip-172-31-38-129 nagios-plugins-2.0.3]$ sudo chkconfig nagios on
[ec2-user@ip-172-31-38-129 nagios-plugins-2.0.3]$ sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg          sudo /usr/local/nagios/bin/nag
ios -v /usr/local/nagios/etc/nagios.cfg


Nagios Core 4.0.8
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Last Modified: 08-12-2014
License: GPL


Website: http://www.nagios.org
Reading configuration data...
Error in configuration file '/usr/local/nagios/etc/nagios.cfg' - Line 452 (Check result path '/usr/local/nagios/var/spool/checkresults' is not a valid directory)
    Error processing main config file!
```

 To resolve this issue, run these commands

```
[ec2-user@ip-172-31-38-129 nagios-plugins-2.0.3]$ sudo mkdir -p /usr/local/nagios/var/spool/checkresults          sudo mkdir -p /usr/local/nagio
s/var/spool/checkresults
[ec2-user@ip-172-31-38-129 nagios-plugins-2.0.3]$ sudo chown -R nagios:nagcmd /usr/local/nagios/var          sudo chown -R nagios:nagcmd /usr/lo
cal/nagios/var
[ec2-user@ip-172-31-38-129 nagios-plugins-2.0.3]$ sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg          sudo /usr/local/nagios/bin/nagios -
v /usr/local/nagios/etc/nagios.cfg


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Website: http://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
```

17. cd ~/downloads

    tar zxvf nagios-plugins-2.0.3.tar.gz

    cd nagios-plugins-2.0.3

```
[ec2-user@ip-172-31-38-129 nagios-plugins-2.0.3]$ sudo service nagios start
Reloading systemd:                                          [  OK  ]
Starting nagios (via systemctl):                            [  OK  ]
[ec2-user@ip-172-31-38-129 nagios-plugins-2.0.3]$
```

18. sudo systemctl status nagios

```
[ec2-user@ip-172-31-38-129 nagios-plugins-2.0.3]$ sudo systemctl status nagios
● nagios.service - LSB: Starts and stops the Nagios monitoring server
   Loaded: loaded (/etc/rc.d/init.d/nagios; generated)
   Active: active (running) since Tue 2024-10-01 05:25:28 UTC; 49s ago
     Docs: man:systemd-sysv-generator(8)
  Process: 67388 ExecStart=/etc/rc.d/init.d/nagios start (code=exited, status=0/SUCCESS)
    Tasks: 6 (limit: 1059)
   Memory: 2.1M
      CPU: 76ms
   CGroup: /system.slice/nagios.service
           ├─67426 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
           ├─67430 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
           ├─67431 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
           ├─67432 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
           ├─67433 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
           └─67474 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg

Oct 01 05:25:28 ip-172-31-38-129.eu-north-1.compute.internal nagios[67426]: nerd: Channel hostchecks registered successfully
Oct 01 05:25:28 ip-172-31-38-129.eu-north-1.compute.internal nagios[67426]: nerd: Channel servicechecks registered successfully
Oct 01 05:25:28 ip-172-31-38-129.eu-north-1.compute.internal nagios[67426]: nerd: Channel opathchecks registered successfully
Oct 01 05:25:28 ip-172-31-38-129.eu-north-1.compute.internal nagios[67426]: nerd: Fully initialized and ready to rock!
Oct 01 05:25:28 ip-172-31-38-129.eu-north-1.compute.internal nagios[67426]: wproc: Successfully registered manager as @wproc with query handler
Oct 01 05:25:28 ip-172-31-38-129.eu-north-1.compute.internal nagios[67426]: wproc: Registry request: name=Core Worker 67432;pid=67432
Oct 01 05:25:28 ip-172-31-38-129.eu-north-1.compute.internal nagios[67426]: wproc: Registry request: name=Core Worker 67431;pid=67431
Oct 01 05:25:28 ip-172-31-38-129.eu-north-1.compute.internal nagios[67426]: wproc: Registry request: name=Core Worker 67430;pid=67430
Oct 01 05:25:28 ip-172-31-38-129.eu-north-1.compute.internal nagios[67426]: wproc: Registry request: name=Core Worker 67433;pid=67433
Oct 01 05:25:28 ip-172-31-38-129.eu-north-1.compute.internal nagios[67426]: Successfully launched command file worker with pid 67474
[ec2-user@ip-172-31-38-129 nagios-plugins-2.0.3]$
```

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 earlier
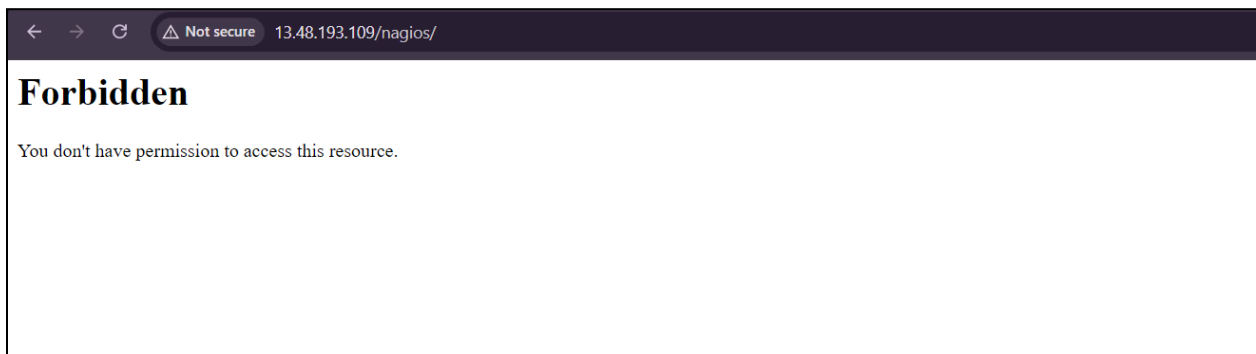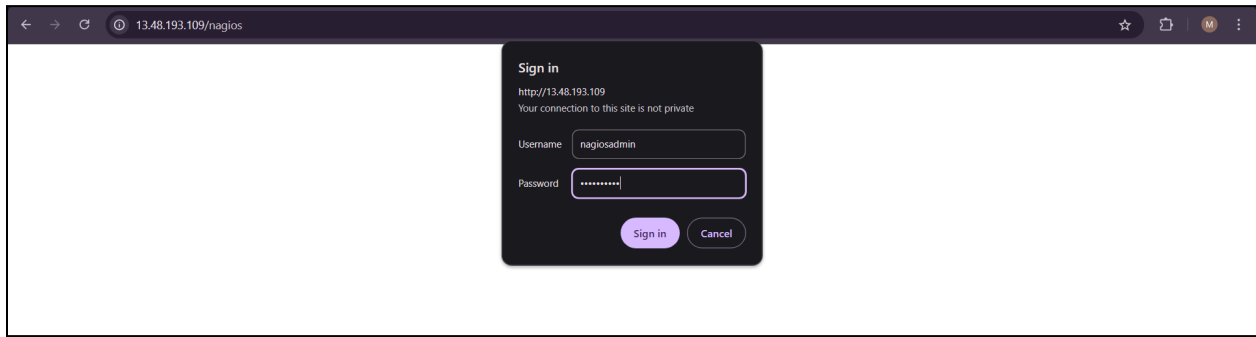
To resolve this issue, run theses commands

cd /home/ec2-user/downloads/nagios-4.4.8 # Adjust the path if necessary
sudo yum install openssl-devel -y
sudo yum install httpd gcc glibc glibc-common perl php gcc-c++ make wget -y
sudo yum install php-mysqlnd -y

./configure

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

Again run:
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

sudo systemctl status nagios

```
[ec2-user@ip-172-31-38-129 nagios-plugins-2.3.3]$ sudo systemctl status nagios                                    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 Tue 2024-10-01 07:20:13 UTC; 19min ago
       Docs: https://www.nagios.org/documentation
      Tasks: 6 (limit: 1059)
     Memory: 4.0M
        CPU: 383ms
     CGroup: /system.slice/nagios.service
             ├─1628 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
             ├─1633 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             ├─1634 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             ├─1635 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             ├─1636 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh
             └─1637 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg

Oct 01 07:20:13 ip-172-31-38-129.eu-north-1.compute.internal nagios[1628]: wproc: Registry request: name=Core Worker 1635;pid=1635
Oct 01 07:20:13 ip-172-31-38-129.eu-north-1.compute.internal nagios[1628]: Successfully launched command file worker with pid 1637
Oct 01 07:22:05 ip-172-31-38-129.eu-north-1.compute.internal nagios[1628]: SERVICE ALERT: localhost;HTTP;CRITICAL;HARD;4;connect to address 127.0.0.1 and port 80
Oct 01 07:24:35 ip-172-31-38-129.eu-north-1.compute.internal nagios[1628]: SERVICE NOTIFICATION: nagiosadmin;localhost;Swap Usage;CRITICAL;notify-service-by-emai
Oct 01 07:24:35 ip-172-31-38-129.eu-north-1.compute.internal nagios[1628]: wproc: NOTIFY job 2 from worker Core Worker 1636 is a non-check helper but exited with
Oct 01 07:24:35 ip-172-31-38-129.eu-north-1.compute.internal nagios[1628]: wproc:   host=localhost; service=Swap Usage; contact=nagiosadmin
Oct 01 07:24:35 ip-172-31-38-129.eu-north-1.compute.internal nagios[1628]: wproc:   early_timeout=0; exited_ok=1; wait_status=32512; error_code=0;
Oct 01 07:24:35 ip-172-31-38-129.eu-north-1.compute.internal nagios[1628]: wproc:   stderr line 01: /bin/sh: line 1: /bin/mail: No such file or directory
Oct 01 07:24:35 ip-172-31-38-129.eu-north-1.compute.internal nagios[1628]: wproc:   stderr line 02: /usr/bin/printf: write error: Broken pipe
Oct 01 07:37:05 ip-172-31-38-129.eu-north-1.compute.internal nagios[1628]: SERVICE ALERT: localhost;HTTP;WARNING;HARD;4;HTTP WARNING: HTTP/1.1 403 Forbidden - 31
lines 1-25/25 (END)
```

Nagios® Core™

✓ **Daemon running with PID 1628**

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.

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