Adv DevOps Exp 09

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

Theory:

What is Nagios?

Nagios is an open-source software for continuous monitoring of systems, networks, and infrastructures. It runs plugins stored on a server that is connected with a host or another server on your network or the Internet. In case of any failure, Nagios alerts about the issues so that the technical team can perform the recovery process immediately.

Nagios is used for continuous monitoring of systems, applications, service and business processes in a DevOps culture.

Why We Need Nagios tool?

Here are the important reasons to use Nagios monitoring tool:

- Detects all types of network or server issues
- Helps you to find the root cause of the problem which allows you to get the permanent solution to the problem
- Active monitoring of your entire infrastructure and business processes
- Allows you to monitor and troubleshoot server performance issues
- Helps you to plan for infrastructure upgrades before outdated systems create failures
- You can maintain the security and availability of the service
- Automatically fix problems in a panic situation

Features of Nagios

Following are the important features of Nagios monitoring tool:

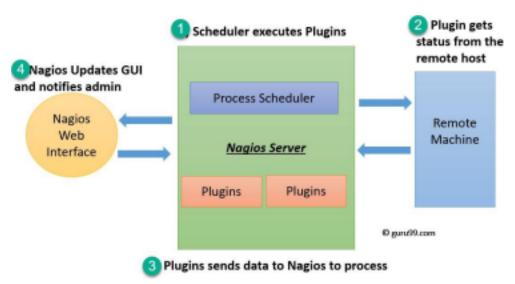
- Relatively scalable, Manageable, and Secure
- Good log and database system
- Informative and attractive web interfaces
- Automatically send alerts if condition changes
- If the services are running fine, then there is no need to do check that host is an alive
- Helps you to detect network errors or server crashes
- You can troubleshoot the performance issues of the server.
- The issues, if any, can be fixed automatically as they are identified during the monitoring process
- You can monitor the entire business process and IT infrastructure with a single pass
- The product's architecture is easy to write new plugins in the language of your choice
- Nagios allows you to read its configuration from an entire directory which helps you to decide how to define individual files
- Utilizes topology to determine dependencies
- Monitor network services like HTTP, SMTP, HTTP, SNMP, FTP, SSH, POP, etc.
- Helps you to define network host hierarchy using parent hosts
- Ability to define event handlers that runs during service or host events for proactive

problem resolution

• Support for implementing redundant monitoring hosts

Nagios Architecture

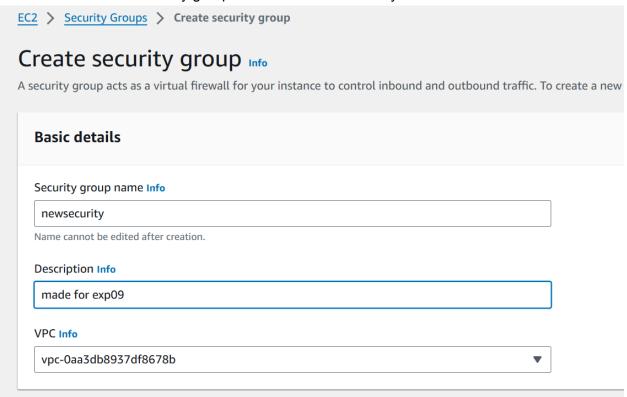
Nagios is a client-server architecture. Usually, on a network, a Nagios server is running on a host, and plugins are running on all the remote hosts which should be monitored.



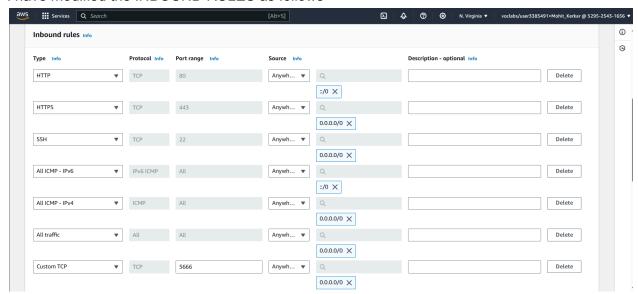
- 1. The scheduler is a component of the server part of Nagios. It sends a signal to execute the plugins at the remote host.
- 2. The plugin gets the status from the remote host
- 3. The plugin sends the data to the process scheduler
- 4. The process scheduler updates the GUI and notifications are sent to admins.

Step 1: Create a security group with the required configurations

I have created a new security group with a name 'newsecurity'

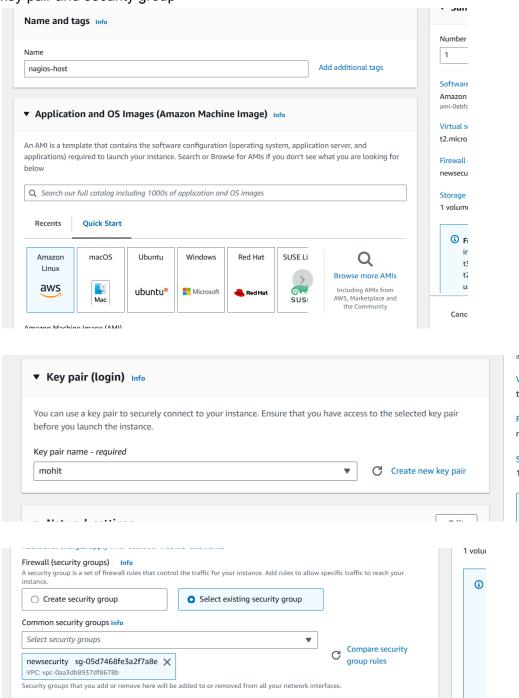


I have modified the INBOUND RULES as follows

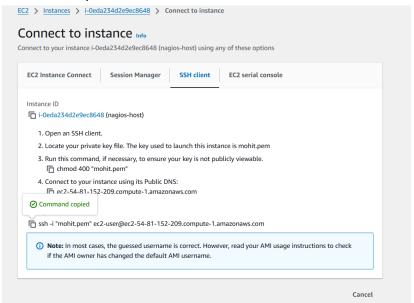


Step 2: Create ec2 instance

Name it as nagios-host. Select instance type as amazon-linux and choose the already created key pair and security group



Copy the given ssh command, as we will require it for logging into our nagios-host instance from our windows powershell



Step 3: Open an administrative powershell and remotely login using the above mentioned ssh command

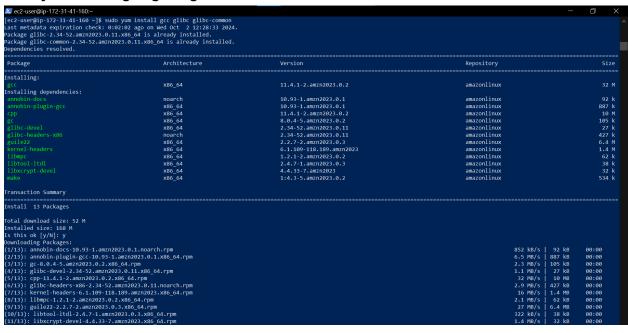
```
ec2-user@ip-172-31-92-249:~
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\WINDOWS\system32> cd C:\Users\Dell\Downloads
PS C:\Users\Dell\Downloads> <mark>ssh</mark> -i "mohit.pem" ec2-user@ec2-54-81-152-209.compute-1.amazonaws.com
        ####
                       Amazon Linux 2023
       \_####\
          \###I
            \#/
V~' '->
                       https://aws.amazon.com/linux/amazon-linux-2023
 ast login: Mon Sep 30 09:25:13 2024 from 125.99.93.18
        ####
                       Amazon Linux 2023
       \_####\
          \###|
                       https://aws.amazon.com/linux/amazon-linux-2023
            \#/
V~'-->
        _/m/
ast login: Mon Sep 30 09:25:13 2024 from 125.99.93.18
[ec2-user@ip-172-31-92-249 ~]$ sudo yum update
 ast metadata expiration check: 0:13:13 ago on Mon Sep 30 09:23:03 2024.
ependencies resolved.
othing to do.
complete!
ec2-user@ip-172-31-92-249 ~]$ sudo yum install httpd php
.
Last metadata expiration check: 0:13:23 ago on Mon Sep 30 09:23:03 2024.
Package httpd-2.4.62-1.amzn2023.x86_64 is already installed.
Package php8.3-8.3.10-1.amzn2023.0.1.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

And then run these commands

sudo yum update sudo yum install httpd php

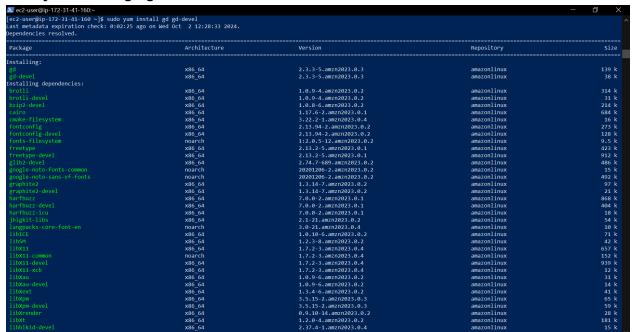


sudo yum install gcc glibc glibc-common



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sudo yum install gd gd-devel



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-172-31-41-160 ~]$ sudo adduser -m nagios
[ec2-user@ip-172-31-41-160 ~]$ sudo passwd nagios
Changing password for user nagios.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[ec2-user@ip-172-31-41-160 ~]$
```

Create a new user group & create a new directory for Nagios downloads using the following commands

sudo groupadd nagcmd sudo usermod -a -G nagcmd nagios sudo usermod -a -G nagcmd apache mkdir ~/downloads cd ~/downloads

Use wget to download the source zip files.

In this step, we are downloading, the latest version of nagios and the necessary plugins required to carry out the tasks of setting up a nagios server

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wget https://sourceforge.net/projects/nagios/files/latest/download

```
■ ec2-user@ip-172-31-41-160-/downloads/nagios-4.55

[ec2-user@ip-172-31-41-160 downloads/s wget https://sourceforge.net/projects/nagios/files/latest/download
--2024-10-02 12:34:21-- https://sourceforge.net/projects/nagios/files/latest/download
--2024-10-02 12:34:21-- https://sourceforge.net/projects/nagios/files/latest/download
--2024-10-02 12:34:22 (4.23 MB/s) - 'downloads' sever [2065473]

— □ ×

Ec2-user@ip-172-31-41-160 downloads/nagios-4.55

— □ ×

Ec2-user@ip-172-31-41-160 downloads/sourceforge.net/projects/nagios/files/latest/download
--2024-10-02 12:34:21- https://sourceforge.net/projects/nagios/10,41.83.71.11,2606:4700:4400::6812:256f, ...

Connecting to sourceforge.net (sourceforge.net/project/nagios/nagios-4.x/nagios-4.5.5/nagios-4.5.5.tar.gz?ts=gAAAAABm_T3NMNSZPzP-6la21ltvoOGCG7VVV7QXVHOBn3tC2AQehfNw7vHcoKbGHg2iIRxbmfug1I0LccNffxEa0ixg3;2kG3MZ30%30M3use_mirror=phenoixmapRe=
Resolving downloads.sourceforge.net (downloads.sourceforge.net/project/nagios/nagios-4.x/nagios-4.5.5/nagios-4.5.5.tar.gz?ts=gAAAAABm_T3NMNSZPzP-6la21ltvoOGCG7VVV7QXVHOBn3tC2AQehfNw7vHcoKbGHg2i
Resolving downloads.sourceforge.net (downloads.sourceforge.net)]204-68.111.105

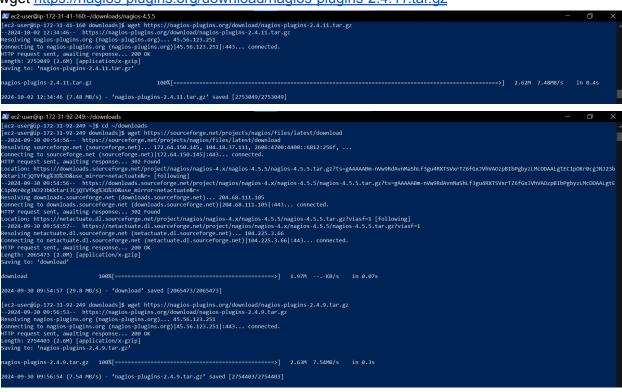
Connecting to downloads.sourceforge.net (downloads.sourceforge.net)]204-68.111.105

INTO request sent, awalting response... 302 Found
Location: https://phoenixmap.dl.sourceforge.net/project/nagios-4.x/nagios-4.5.5/nagios-4.5.5.tar.gz?viasf=1

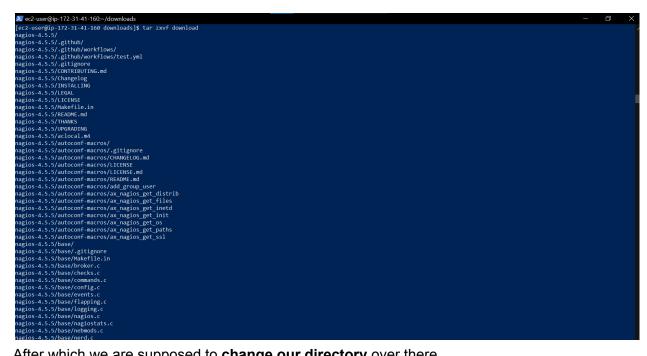
Location: https://phoenixmap.dl.sourceforge.net/project/nagios-4.x/nagios-4.5.5/nagios-4.5.5.tar.gz?viasf=1

Resolving phenixmap.dl.sourceforge.net (phoenixmap.dl.sourceforge.net) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
```

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



Now, we run the next command in the following manner tar zxvf <nagios-4.5.5 version> (for me it has gotten saved as 'download') So i wrote tar zxvf download



After which we are supposed to **change our directory** over there For eg. **cd nagios-4.5.5**... depending on the version that we have downloaded

Next, Run this command (make sure that you are working inside nagios-4.x.x directory) ./configure --with-command-group=nagcmd

```
checking for strtoul... yes
checking for unsetenv... yes
checking for type of socket size... size t
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
[ec2-user@ip-172-31-41-160 nagios-4.5.5]$ _
```

After running this command, we get an error related to ssl header being absent

For that purpose, we are to run the following command.

sudo yum install openssl-devel (for ssl header)

```
ec2-user@ip-172-31-41-160 nagios-4.5.5]$ sudo yum install openssl-devel
ast metadata expiration check: 0:12:11 ago on Wed Oct 2 12:28:33 2024.
ependencies resolved.
Package
otal download size: 3.0 M
nstalled size: 4.7 M
s this ok [y/N]: y
ownloading Packages:
ppenssl-devel-3.0.8-1.amzn2023.0.14.x86_64.rpm
                                                                                                                                                                                                                                                                                                                                       26 MB/s | 3.0 MB 00:00
                                                                                                                                                                                                                                                                                                                                       17 MB/s | 3.0 MB 00:00
  nning transaction check
 ransaction check succeeded.
unning transaction test
ransaction test succeeded.
 ransaction test succeeded.
unning transaction
Preparing :
Installing : openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64
Running scriptlet: openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64
Verifying : openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64
 nstalled:
openssl-devel-1:3.0.8-1.amzn2023.0.14.x86_64
omplete|
ec2-user@ip-172-31-41-160 nagios-4.5.5]$ _
```

Now, Re-run ./configure --with-command-group=nagcmd After this, run make all command

```
ec_user@ip-172-31-41-160-/downloads/nagios-4.5.5]* make all

//base && make
[el]: Intering directory '/home/ec2-user/downloads/nagios-4.5.5/base'

- Hall -1... -1.../lib -1../include -1.../include -1... -g -02 - DHAVE_CONFIG_H - DMSCORE -c -o nagios.o ./nagios.c

- Hall -1... -1... -1../lib -1../include -1.../include -1... -g -02 - DHAVE_CONFIG_H - DMSCORE -c -o broker.o broker.c

- Hall -1... -1... -1.../lib -1../include -1.../include -1... -g -02 - DHAVE_CONFIG_H - DMSCORE -c -o nebmods.o nebmods.c

- Hall -1... -1... -1.../lib -1../include -1.../include -1... -g -02 - DHAVE_CONFIG_H - DMSCORE -c -o nebmods.o nebmods.c

- Hall -1... -1... -1.../lib -1../include -1.../include -1... -g -02 - DHAVE_CONFIG_H - DMSCORE -c -o .../common/shared.o ../common/shared.o ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Li, include -1. g -0. OHAWE COMPIG H DONSCORE - 0 ochecks.o. checks.c. check
                                                                                                                                                b

ring directory '/home/ec2-user/downloads/nagios-4.5.5/lib'

-02 -1. -1./include -DHAWE_COMFIG_H -c squeue.c -o squeue.o

-02 -1. -1./include -DHAWE_COMFIG_H -c squeue.c -o squeue.o

-02 -1. -1./include -DHAWE_COMFIG_H -c locache.c -o locache.o

-02 -1. -1./include -DHAWE_COMFIG_H -c lorache.c -o locache.o

-02 -1. -1./include -DHAWE_COMFIG_H -c blimap.c -o bitmap.o

-02 -1. -1./include -DHAWE_COMFIG_H -c dhash.c -o dhash.o
```

```
Me c2-user@p-172-31-41-160-/downloads/nagios-45.5

on doing this. Pay particular attention to the does on object configuration files, as they determine what/how things get monitored!

make install-webconf

- This installs the Apache config file for the Nagios web interface

make install-orfoliation

- This installs the Exfoliation theme for the Nagios web interface

make install-classicui

- This installs the classic theme for the Nagios

web interface

*** Support Notes

*** Support
```

Run the following set of commands to ensure that sudo make install

```
ec2-user@ip-172-31-41-160:~/downloads/nagios-4.5.5
[ec2-user@ip-172-31-41-160 nagios-4.5.5]$ sudo make install
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 nagiostats /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; \
make[2]: Leaving directory '/home/ec2-user/downloads/nagios-4.5.5/cgi'
make[1]: Leaving directory '/home/ec2-user/downloads/nagios-4.5.5/cgi'
cd ./html && make install
make[1]: Entering directory '/home/ec2-user/downloads/nagios-4.5.5/html'
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/media
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/stylesheets
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/contexthelp
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/docs
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/docs/images
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/js
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/images
usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/images/logos/
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/includes
/usr/bin/install -c -m 775 -o nagios -g nagios -d /usr/local/nagios/share/ssi
/usr/bin/install -c -m 664 -o nagios -g nagios ./robots.txt /usr/local/nagios/share
usr/bin/install -c -m 664 -o nagios -g nagios ./jsonquery.html /usr/local/nagios/share/
rm -f /usr/local/nagios/share/index.html
rm -f /usr/local/nagios/share/main.html
rm -f /usr/local/nagios/share/side.html
rm -f /usr/local/nagios/share/map.html
rm -f /usr/local/nagios/share/rss-*
rm -f /usr/local/nagios/share/graph-header.html
rm -f /usr/local/nagios/share/histogram.html
rm -f /usr/local/nagios/share/histogram-form.html
 rm -f /usr/local/nagios/share/histogram-graph.html
rm -f /usr/local/nagios/share/histogram-links.html
rm -f /usr/local/nagios/share/infobox.html
 m -f /usr/local/nagios/share/map.php
```

Name:Advik Hegde Div: D15C Roll No: 15

sudo make install-init

```
≥ ec2-user@ip-172-31-41-160:~/downloads/nagios-4.5.5

[ec2-user@ip-172-31-41-160 nagios-4.5.5]$ sudo make install-init
/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
```

sudo make install-config

```
[ec2-user@ip-172-31-41-160 nagios-4.5.5]$ 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/regi.cfg /usr/local/nagios/etc/cgi.cfg
/usr/bin/install -c -b -m 664 -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/windows.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/windows.cfg
/usr/bin/install -c -b -m 664 -o nagios -g nagios sample-config/template-object/printer.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.
```

sudo make install-webconf

Next, we are supposed to create a nagiosadmin account for nagios login along with password. Specify the password twice.

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

```
[ec2-user@ip-172-31-41-160 nagios-4.5.5]$ sudo htpasswd -c /usr/local/nagios/etc/htpasswd.users nagiosadmin
New password:
Re-type new password:
Adding password for user nagiosadmin
[ec2-user@ip-172-31-41-160 nagios-4.5.5]$
```

Restart Apache

sudo service httpd restart

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

cd ~/downloads

tar zxvf nagios-plugins-2.4.11.tar.gz

```
ec2-user@ip-172-31-41-160:~/downloads
[ec2-user@ip-172-31-41-160 nagios-4.5.5]$ sudo service httpd restart
Redirecting to /bin/systemctl restart httpd.service
[ec2-user@ip-172-31-41-160 nagios-4.5.5]$ cd ~/downloads
[ec2-user@ip-172-31-41-160 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
```

Compile and install plugins

cd nagios-plugins-2.4.11

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

Run the following command:

sudo chkconfig --add nagios

On running the above command

```
[ec2-user@ip-172-31-41-160 nagios-plugins-2.4.11]$ sudo chkconfig --add nagios error reading information on service nagios: No such file or directory
```

If this is the output that one is getting, then it means that the init script is missing... We can check this by running Is /etc/init.d/

```
[ec2-user@ip-172-31-92-249 nagios-plugins-2.4.9]$ ls /etc/init.d/
README functions
[ec2-user@ip-172-31-92-249 nagios-plugins-2.4.9]$
```

With Is command, we must see a file named nagios, which i was not able to see If the Init Script is Missing i.e If you don't see the nagios script in /etc/init.d/, you can create it manually. Here's how:

Run the following command:

sudo nano /etc/init.d/nagios

Within this file, paste the following script

```
#!/bin/bash
# nagios
             Startup script for Nagios
#
# chkconfig: 345 99 10
# description: Nagios is a host/service/network monitoring program
# processname: nagios
# pidfile: /var/run/nagios/nagios.pid
case "$1" in
 start)
  echo "Starting Nagios..."
  /usr/local/nagios/bin/nagios /usr/local/nagios/etc/nagios.cfg
  ;;
 stop)
  echo "Stopping Nagios..."
  kill `cat /var/run/nagios/nagios.pid`
  ;;
 restart)
  $0 stop
  $0 start
 status)
  ps aux | grep nagios
 *)
  echo "Usage: $0 {start|stop|restart|status}"
  exit 1
esac
exit 0
```

Make the Script Executable: After saving the file, run the following command to make it executable:

sudo chmod +x /etc/init.d/nagios

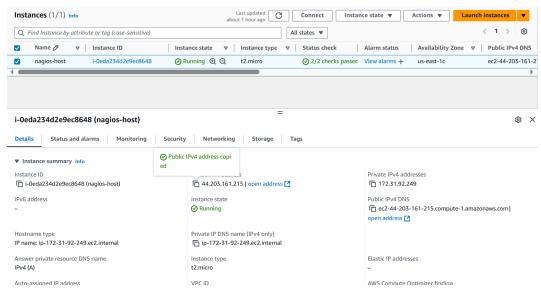
Run **sudo chkconfig --add nagios** again And then run **sudo chkconfig nagios on**

```
[ec2-user@ip-172-31-41-160 nagios-plugins-2.4.11]$ sudo nano /etc/init.d/nagios
[ec2-user@ip-172-31-41-160 nagios-plugins-2.4.11]$ sudo chmod +x /etc/init.d/nagios
[ec2-user@ip-172-31-41-160 nagios-plugins-2.4.11]$ sudo chkconfig --add nagios
[ec2-user@ip-172-31-41-160 nagios-plugins-2.4.11]$ sudo chkconfig nagios on
Note: Forwarding request to 'systemctl enable nagios.service'.
Synchronizing state of nagios.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable nagios
Created symlink /etc/systemd/system/multi-user.target.wants/nagios.service → /usr/lib/systemd/system/nagios.service.
[ec2-user@ip-172-31-41-160 nagios-plugins-2.4.11]$
```

sudo service nagios start

```
[ec2-user@ip-172-31-92-249 nagios-plugins-2.4.11]$ sudo service nagios start
Starting Nagios...
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
Nagios 4.5.5 starting... (PID=72261)
Local time is Tue Oct 01 20:59:58 UTC 2024
wproc: Successfully registered manager as @wproc with query handler
wproc: Registry request: name=Core Worker 72265;pid=72265
uproc: Registry request: name=Core Worker 72264;pid=72264
wproc: Registry request: name=Core Worker 72263;pid=72263
wproc: Registry request: name=Core Worker 72262;pid=72262
Successfully launched command file worker with pid 72266
wproc: NOTIFY job 4 from worker Core Worker 72262 is a non-check helper but exited with return code 127
wproc: host=localhost; service=Swap Usage; contact=nagiosadmin
       early_timeout=0; exited_ok=1; wait_status=32512; error_code=0;
wproc:
wproc:
       stderr line 01: /bin/sh: line 1: /bin/mail: No such file or directory
        stderr line 02: /usr/bin/printf: write error: Broken pipe
```

Get your public IPv4 address from your instance. We will require it for connecting to our nginx server



Browse for this url: http://<your_public_ip_address>/nagios
The browser may ask you for your nagios credentials which set in the earlier steps
The username is nagiosadmin and enter the password that you set earlier



Conclusion:

In this experiment, we successfully installed and configured Nagios Core on an Amazon Linux EC2 instance, showcasing its role in continuous monitoring within a DevOps environment. We learned about user management and service configuration, emphasizing Nagios's ability to monitor systems and networks effectively. This experience laid the groundwork for enhancing infrastructure reliability and integrating advanced monitoring strategies in future projects.