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Steps:

Prerequisites: AWS Free Tier, Nagios Server running on Amazon Linux Machine.

1. To Confirm that Nagios is running on the server side, run this sudo systemctl status nagios on the "NAGIOS HOST".

```
Last Logan: | Nu Uct 10 08:58:32 2024 +rom 18.206.107.27

[ec2-user@ip-172-31-39-132 ~]$ 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 Sun 2024-10-13 11:51:57 UTC; 16min ago

Docs: https://www.nagios.org/documentation

Process: 1995 ExecStartPre-/usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/2)

Process: 1995 ExecStart-/usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg (code=exited, status=0/2)

Main PID: 1997 (nagios)

Tasks: 6 (limit: 1112)

Memory: 2.7M

CPU: 150ms

CGroup: /system.slice/nagios.service

-1997 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg

-1998 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh

-1999 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh

-2000 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh

-2001 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh

-2007 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagios.qh

-2007 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg

Oct 13 11:51:57 ip-172-31-39-132.ec2.internal nagios[1997]: qh: core query handler registered

Oct 13 11:51:57 ip-172-31-39-132.ec2.internal nagios[1997]: qh: echo service query handler registered

Oct 13 11:51:57 ip-172-31-39-132.ec2.internal nagios[1997]: qh: help for the query handler registered

Oct 13 11:51:57 ip-172-31-39-132.ec2.internal nagios[1997]: qh: echo service query handler registered

Oct 13 11:51:57 ip-172-31-39-132.ec2.internal nagios[1997]: wproc: Registry request: name=Core Worker 2000;pid=2000

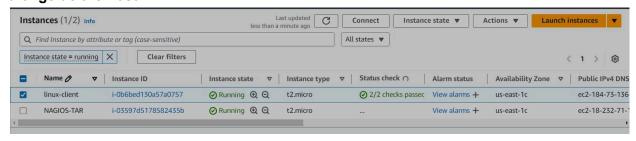
Oct 13 11:51:57 ip-172-31-39-132.ec2.internal nagios[1997]: wproc: Registry request: name=Core Worker 2000;pid=2000

Oct 13 11:51:57 ip-172-31-39-132.ec2.internal nagios[1997]: wproc: Registry request: name=Core Worker 1999;pid=1999
```

2. Before we begin,

To monitor a Linux machine, create an Ubuntu 20.04 server EC2 Instance in AWS.Provide it with the same security group as the Nagios Host and name it 'linux-client'

alongside the host.



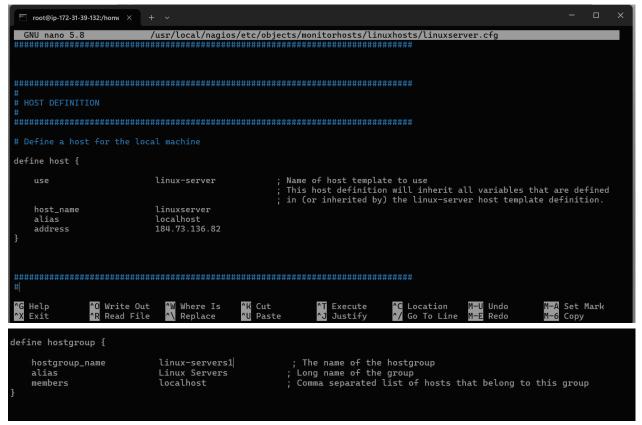
3. On the server, run this command

ps -ef | grep nagios

```
[ec2-user@ip-172-31-39-132 ~]$ ps -ef | grep nagios
nagios 1997 1 0 11:51 ? 00:00:00 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
nagios 1998 1997 0 11:51 ? 00:00:00 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagio
s.qh
nagios 1999 1997 0 11:51 ? 00:00:00 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagio
s.qh
nagios 2000 1997 0 11:51 ? 00:00:00 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagio
s.qh
nagios 2001 1997 0 11:51 ? 00:00:00 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagio
s.qh
nagios 2007 1997 0 11:51 ? 00:00:00 /usr/local/nagios/bin/nagios --worker /usr/local/nagios/var/rw/nagio
s.qh
nagios 2007 1997 0 11:51 ? 00:00:00 /usr/local/nagios/bin/nagios -d /usr/local/nagios/etc/nagios.cfg
ec2-user 3125 2836 0 12:15 pts/0 00:00:00 grep --color=auto nagios
[ec2-user@ip-172-31-39-132 ~]$
```

- Become a root user and create 2
 folders sudo su
 mkdir /usr/local/nagios/etc/objects/monitorhosts
 mkdir /usr/local/nagios/etc/objects/monitorhosts/linuxhosts
- 5. Copy the sample localhost.cfg file to linuxhost folder cp /usr/local/nagios/etc/objects/localhost.cfg /usr/local/nagios/etc/objects/monitorhosts/linuxhosts/linuxserver.cfg
- 6. Open linuxserver.cfg using nano and make the following changes nano

/usr/local/nagios/etc/objects/monitorhosts/linuxhosts/linuxserver.cfg
Change the hostname to linuxserver (EVERYWHERE ON THE FILE)
Change address to the public IP address of your LINUX CLIENT.



7. Open the Nagios Config file and add the following line nano /usr/local/nagios/etc/nagios.cfg ##Add this line cfg dir=/usr/local/nagios/etc/objects/monitorhosts/

```
# You can also tell Nagios to process all config files (with a .cfg
# extension) in a particular directory by using the cfg_dir
# directive as shown below:
#cfg_dir=/usr/local/nagios/etc/servers
#cfg_dir=/usr/local/nagios/etc/switches
#cfg_dir=/usr/local/nagios/etc/switches
#cfg_dir=/usr/local/nagios/etc/routers
cfg_dir=/usr/local/nagios/etc/routers
cfg_dir=/usr/local/nagios/etc/objects/monitorhosts/
# OBJECT CACHE FILE
# This option determines where object definitions are cached when
# Nagios starts/restarts. The CGIs read object definitions from
```

- 8. Verify the configuration files
- 9. Restart the nagios service

service nagios restart

10. Make a package index update and install gcc, nagios-nrpe-server and the plugins.

sudo apt update -y

sudo apt install gcc -y

sudo apt install -y nagios-nrpe-server nagios-plugins

11. Open nrpe.cfg file to make changes.

sudo nano /etc/nagios/nrpe.cfg

Under allowed hosts, add your nagios host IP address like so

12. Restart the NRPE server

sudo systemctl restart nagios-nrpe-server

```
# ALLOWED HOST ADDRESSES
# This is an optional comma-delimited list of IP address or hostnames
# that are allowed to talk to the NRPE daemon. Network addresses with a bit mask
# (i.e. 192.168.1.0/24) are also supported. Hostname wildcards are not currently
# supported.
#
# Note: The daemon only does rudimentary checking of the client's IP
# address. I would highly recommend adding entries in your /etc/hosts.allow
# file to allow only the specified host to connect to the port
# you are running this daemon on.
#
# NOTE: This option is ignored if NRPE is running under either inetd or xinetd

allowed_hosts=127.0.0.1, 13.232.100.28
```

13. Now, check your nagios dashboard and you'll see a new host being added.

