Advance DevOps Exp 10

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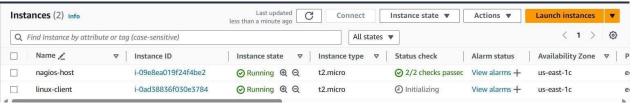
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Aim: To perform Port, Service monitoring, Windows/Linux server monitoring using Nagios.

Procedure:-

Check if the nagios service is running by executing following command sudo systematl status nagios

Now, create a new EC2 instance on AWS



Now perform the following commands on nagios-host EC2 instance. On the server, run this command

ps -ef | grep nagios

```
00:00:00 /usr/local/na
               0 16:08
                                                           los/bin/nagios -d /usr/local/n
        15764
                                 00:00:00 /usr/local/n
                                                                     gios --worker /usr/local/magios/var/rw/
               0 16:08
                                                           os/bin/na
                                 00:00:00 /usr/local/
                                                                         --worker /usr/local/
15766
        15764
                                                            s/bin/n
                 16:08
                                                                                                     s/var/rw/
        15764
                                 00:00:00 /usr/local/
                                                                         --worker /usr/local/
        15764
               0 16:08 ?
0 16:08 ?
                                 00:00:00 /usr/local/
                                                                         --worker /usr/local/m
                                 00:00:00 /usr/local/
        15764
                                                                      ios -d /usr/local/nagios/etc/nagios.cfg
15769
                                                             s/bin/na
               0 16:13 pts/0
                                 00:00:00 grep --color=auto na
15957
         1342
```

Sudo su

mkdir /usr/local/nagios/etc/objects/monitorhosts mkdir /usr/local/nagios/etc/objects/monitorhosts/linuxhosts

```
ubuntu@ip-172-31-89-161:~$ sudo su
mkdir /usr/local/nagios/etc/objects/monitorhosts
mkdir /usr/local/nagios/etc/objects/monitorhosts/linuxhosts
root@ip-172-31-89-161:/home/ubuntu#
```

Copy localhost.cfg file to the mentioned location

ср

/usr/local/nagios/etc/objects/localhost.cfg/usr/local/nagios/etc/objects/monitorhosts/linuxhosts

```
root@ip-172-31-89-161:/usr/local/nagios/etc/objects# cp /usr/local/nagios/etc/objects/local/nagios/etc/objects/monitorhosts/linuxhosts cp: cannot create regular file '/usr/local/nagios/etc/objects/monitorhosts/linuxhosts': No such file or directory root@ip-172-31-89-161:/usr/local/nagios/etc/objects# sudo mkdir -p /usr/local/nagios/etc/objects/monitorhosts/linuxhosts root@ip-172-31-89-161:/usr/local/nagios/etc/objects# sudo mkdir -p /usr/local/nagios/etc/objects/monitorhosts/linuxhosts root@ip-172-31-89-161:/usr/local/nagios/etc/objects# p /usr/local/nagios/etc/objects/monitorhosts/linuxhosts root@ip-172-31-89-161:/usr/local/nagios/etc/objects#
```

Open the nano editor for localhost.cfg file and make these changes. Add the Ip address of the linux-client for the address field.

nano/usr/local/nagios/etc/objects/monitorhosts/linuxhosts/localhost.cfg

```
GNU nano 7.2
                                                  /usr/local/nagios/et
define host {
   use
                            linux-server
                                                     ; Name of host te
                                                     ; This host defin
                                                     ; in (or inherite
   host name
                           linuxserver
   alias
                            linuxserver
   address
                            52.207.253.18
                  Write Out
                                   Where Is
```

Note - Here replace hostname with linuxserver

nano /usr/local/nagios/etc/nagios.cfg

Add the following line to the nagios.cfg file

cfg_dir=/usr/local/nagios/etc/objects/monitorhosts/

```
# Definitions for monitoring a router/switch
#cfg_file=/usr/local/nagios/etc/objects/switch.cfg

# Definitions for monitoring a network printer
#cfg_file=/usr/local/nagios/etc/objects/printer.cfg

# 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/printers
#cfg_dir=/usr/local/nagios/etc/switches
#cfg_dir=/usr/local/nagios/etc/routers

cfg_dir=/usr/local/nagios/etc/objects/monitorhosts/
```

After making the changes in nagios.cfg file now check validate the file by typingthe following command in the terminal.

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

```
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 16 services.
        Checked 2 hosts.
        Checked 2 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 2 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:
Things look okay - No serious problems were detected during the pre-flight check
root@ip-172-31-89-161:/usr/local/nagios/etc/objects/monitorhosts/linuxhosts#
```

Now restart the service by using this command

service nagios restart

Now using this command update the apt repository of ubuntu (linux-client), install gcc, nagios-nrpe-server and nagios-plugin

```
sudo apt update -y
sudo apt install gcc -y
sudo apt install -y nagios-nrpe-server nagios-plugins
```

Now open nrpe.cfg file and add the ip address of the nagios host as shown. To open the nrpe.cfg file copy this command.

```
# Note: The daemon only does rudimentary checking address. I would highly recommend adding entry file to allow only the specified host to connect you are running this daemon on.

# NOTE: This option is ignored if NRPE is running allowed_hosts=127.0.0.1,54.167.169.0

# COMMAND ARGUMENT PROCESSING
# This option determines whether or not the NRPE to specify arguments to commands that are exect if the daemon was configured with the --enable poption.
```

sudo nano /etc/nagios/nrpe.cfg

Now restart nrpe server by using this command

sudo systemctl restart nagios-nrpe-server

Now, check nagios dashboard, you should see linuxserver up and running, if not

