ADVANCE DEVOPS EXPERIMENT - 10

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Prerequisites

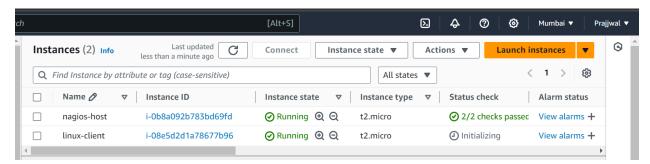
- AWS Free Tier
- Nagios Server running on an Amazon Linux Machine

Steps

 Confirm Nagios is Running sudo systemctl status nagios

2. Create a Linux Client

- o Create an Ubuntu 20.04 server EC2 instance in AWS.
- Assign it the same security group as the Nagios Host.
- Name it linux-client.



Verify Nagios Process ps -ef | grep nagios

```
2.3.3]$ ps -ef | grep nagi

00:00:00 /usr/local/nagio

00:00:00 /usr/local/nagio

00:00:00 /usr/local/nagio
                  1 0 16:21 ?
59 0 16:21 ?
                                                                                                                 -d /usr/local/nac
                                                                                             s/bin/n
                                                                                                                 --worker /usr/local/nac
--worker /usr/local/nac
--worker /usr/local/nac
                                                                                                                                                           s/var/rw/
                                                                                              /bin/nac
                        0 16:21
                                                                                                                                                            /var/rw/
                                                                                              /bin/r
                                                                                                                  --worker /usr/local/n
                                                    00:00:00 /usr/local/m
00:00:00 /usr/local/m
67463
             67459 0 16:21 ?
                                                                                               /bin/
                                                                                                                                                            /var/rw/
                       0 16:21 ?
                                                                                                                  -d /usr/local/nag
                                                                                              /bin/
                        0 16:37 pts/0
                                                    00:00:00 grep --color=auto na
```

- Create Directories for Monitoring Hosts sudo su mkdir -p /usr/local/nagios/etc/objects/monitorhosts/linuxhosts
- 5. Copy and Modify Configuration File cp /usr/local/nagios/etc/objects/localhost.cfg /usr/local/nagios/etc/objects/monitorhosts/linuxhosts/linuxserver.cfg nano /usr/local/nagios/etc/objects/monitorhosts/linuxhosts/linuxserver.cfg
 - Change hostname to linuxserver everywhere in the file.
 - Change address to the public IP address of your linux-client.
 - Change hostgroup_name under hostgroup to linux-servers1.
- 6. Update Nagios Configuration Add the following line: cfg_dir=/usr/local/nagios/etc/objects/monitorhosts/

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

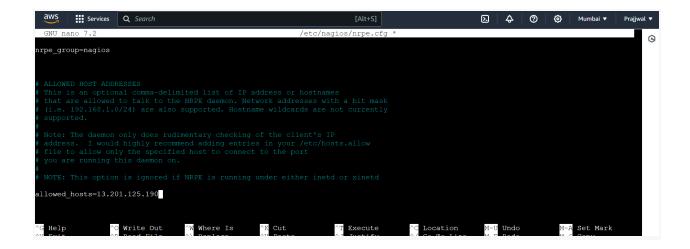
# Definitions for monitoring a network printer
#cfg_file=/usr/local/nagios/etc/objects/printer.cfg

# 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/
```

7. Verify Configuration Files sudo /usr/local/nagios/bin/nagios -v /usr/local/nagios/etc/nagios.cfg

```
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
otal Errors:
```

- 8. Restart Nagios Service sudo systemctl restart nagios
- 9. Switch to Client Machine
 - SSH into the linux-client machine or use the EC2 Instance Connect feature.
- 10. Install Required Packages on Client. sudo apt update -y sudo apt install gcc -y sudo apt install -y nagios-nrpe-server nagios-plugins
- 11. Configure NRPE sudo nano /etc/nagios/nrpe.cfg
 - Under allowed_hosts, add your Nagios host IP address.



12. Restart NRPE Server sudo systemctl restart nagios-nrpe-server

13. Check Nagios Dashboard

- Go to your Nagios dashboard.
- Click on Hosts and then on linuxserver to see the host details.
- Click on Services to see all services and ports being monitored.

Host Information

Last Updated: Tue Oct 1 16:52:19 UTC 2024 Updated every 90 seconds Nagios® Core™ 4.4.6 - www.nagios.org Logged in as nagiosadmin

View Status Detail For This Host View Alert History For This Host View Trends For This Host View Alert Histogram For This Host View Availability Report For This Host View Notifications For This Host Host localhost (linuxserver)

Member of No hostgroups

13.234.202.182

Host State Information

Host Status: DOWN (for 0d 0h 6m 37s)

Status Information: PING CRITICAL - Packet loss = 100%

Performance Data: rta=5000.000000ms;3000.000000;5000.000000 pl=100%;80;100;0

 Current Attempt:
 4/10 (SOFT state)

 Last Check Time:
 10-01-2024 16:50:12

Check Latency / Duration: ACTIVE

 Check Latency / Duration:
 0.000 / 30.003 seconds

 Next Scheduled Active Check:
 10-01-2024 16:51:42

 Last State Change:
 10-01-2024 16:45:42

 Last Notification:
 N/A (notification 0)

Is This Host Flapping? NO (5.86% state change)

In Scheduled Downtime?

Last Update: 10-01-2024 16:52:11 (0d 0h 0m 8s ago)

Active Checks: ENABLED
Passive Checks: ENABLED
Obsessing: ENABLED
Notifications: ENABLED
Event Handler: ENABLED
Flap Detection: ENABLED

