

NAGIOS:-

- :- Nagios is an open-source monitoring system used to monitor the performance and availability of networked devices and infrastructure components, such as servers, switches, applications, and services. It provides real-time notifications and alerts to help system administrators quickly detect and resolve issues before they become major problems.
- =>It run on port no-5666
- =>It is a software.
- =>Nagios is a monitoring tool.we use to find out information about nodes and there services on master node.
- =>cluster monitor.
- =>server package-nagios
- =>client/node package-NRPE

PLUGIN:-

- -A collection of plugins that can be used to monitor various aspects of networked devices and infrastructure components.
- -It is tool which run on node.
- -it helps to find the error of node and send the information to NRPE.
- -It is scripting code

NRPE(Nagios Remote Plugin Executor):-

- -It is tool which run on node.
- -Using this tool we would to send the information to nagios which run on server.
- -Allows remote systems to execute Nagios plugins and return performance data to the Nagios server.

Nagios Core: The main Nagios monitoring system that includes the Nagios daemon, web interface, and other components.

Nagios XI: A commercial version of Nagios that includes additional features and is supported by a paid support team.

Nagios Mobile: A mobile app that allows administrators to access Nagios monitoring data and receive alerts on their mobile devices.

Nagios Visualization: A set of tools and plugins that allow administrators to create custom visualizations of Nagios monitoring data. These tools can be used together to provide a comprehensive and scalable monitoring solution for organizations of all sizes.

- => Create two machine using nat network and make 1 server and 1 client
- On both system (server & Client) —

Turn off the firewall

1. Systemctl disable firewalld

Turn off selinux

2. vi /etc/selinux/config

```
# This file controls the state of SELinux on the system.

# SELINUX= can take one of these three values:

# enforcing - SELinux security policy is enforced.

# permissive - SELinux prints warnings instead of enforcing.

# disabled - No SELinux policy is loaded.

SELINUX=disabled

# SELINUXTYPE= can take one of three values:

# targeted - Targeted processes are protected,

# minimum - Modification of targeted policy. Only selected processes are protected.

# mls - Multi Level Security protection.

SELINUXTYPE=targeted
```

SELINUX='enable' to 'disabled'

do restart the system

3. Init 6

#set ip and host name in host file of both system

4. vi /etc/hosts

```
27.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4 ::1 localhost localhost.localdomain localhost6 localhost6.localdomain6 192.168.174.131 server 192.168.174.132 client
```

make sure both system are able to ping each other

---- On Server--

#

wget

https://github.com/openhpc/ohpc/releases/download/v1.3.GA/ohpc-release-1.3-1.el7.x86_64.rp m

install ohpc-release

2. Yum install ohpc-release -y

install ohpc-nagios

3. yum install ohpc-nagios -y

change file name

- 4. mv /etc/nagios/conf.d/services.cfg.example /etc/nagios/conf.d/services.cfg
- 5. mv /etc/nagios/conf.d/hosts.cfg.example /etc/nagios/conf.d/hosts.cfg

For change the password of nagios

6. htpasswd -c /etc/nagios/passwd nagiosadmin Password:0000

Make nagios direatory

7. mkdir -p /var/run/nagios

change owner of nagios

8. chown -R nagios:nagios /var/run/nagios/

start nagios service

9. systemctl start nagios

start httpd service

10. systemctl start httpd

login nagios on browser

-Go to browser and type 'ip-address/nagios'

Username: nagiosadmin

Password: 0000

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install ohpc package

1. wget

https://github.com/openhpc/ohpc/releases/download/v1.3.GA/ohpc-release-1.3-1.el7.x86_64.rp m

install ohpc-release

2. yum install ohpc-release-1.3-1.el7.x86_64.rpm

install nagios and nrpe package

3. yum install nagios-plugins-all nrpe-ohpc

make a directory

4. mkdir -p /var/log/nagios

Change owner to nagios file

5. chown -R nrpe:nrpe /var/log/nagios

Edit this file

6. vi /etc/nagios/nrpe.cfg

```
99 # Note: The daemon only does rudimentary checking of the client's IP
100 # address. I would highly recommend adding entries in your /etc/hosts.allow
101 # file to allow only the specified host to connect to the port
102 # you are running this daemon on.
103 #
104 # NOTE: This option is ignored if NRPE is running under either inetd or xinetd
105
106 allowed_hosts=192.168.174.131
107
108
109
110 # COMMAND ARGUMENT PROCESSING
111 # This option determines whether or not the NRPE daemon will allow clients
112 # to specify arguments to commands that are executed. This option only works
113 # if the daemon was configured with the --enable-command-args configure script
```

In line no 106 write server 'ip address'

Restart nerp service

7. systemctl restart nrpe

Restart restart httpd service

8. systemctl restart httpd

Again On Server

Edit this file

vi /etc/nagios/conf.d/hosts.cfg

•

```
1 ## Linux Host Template ##
 2 define host{
          name linux-box; Name of this template
          use generic-host; Inherit default values
 4
 5
         check period 24x7
 6
         check interval 5
 7
         retry interval 1
 8
        max check attempts 10
9
        check command check-host-alive
10
        notification_period 24x7
11
        notification interval 30
12
        notification options d,r
13
         contact groups admins
         register 0 ; DONT REGISTER THIS - ITS A TEMPLATE
14
15 }
16
17 define hostgroup {
     hostgroup name compute
18
          alias compute nodes
19
20
          members client
21 }
22
23 # example configuration of 4 remote linux systems
24 define host{
use linux-box ; Inherit default values from a template
         host_name client ; The name we're giving to this server alias client ; A longer name for the server
26
27
         address 19.168.174.132 ; IP address of Remote Linux host
28
29 }
30
31
```

Line no 20:write your client hostname

From line no 26: Write client hosname and their 'ip-address' as your no of host

Restart httpd # Restart nagios