Nagios

Reference link :-

https://www.howtoforge.com/tutorial/how-to-install-nagios-on-ubuntu-2004/amp/

**Step 1 :-** Launch 2 instances 1 for nagios server and 2nd for frontend or server which we have to monitor

**Step 2 :-** Login both server through putty.

**Step 3 :-** Do follow commands on nagios server

- sudo apt update

- sudo apt install -y autoconf bc gawk dc build-essential gcc libc6 make wget unzip apache2 php

libapache2-mod-php

- cd ~/

- wget https://github.com/NagiosEnterprises/nagioscore/archive/nagios-4.4.6.tar.gz

- tar -xf nagios-4.4.6.tar.gz

- cd nagioscore-\*/

- sudo ./configure --with-httpd-conf=/etc/apache2/sites-enabled

- sudo make all

- sudo make install-groups-users

- sudo usermod -a -G nagios www-data

- sudo make install

- sudo make install-daemoninit

- sudo make install-commandmode

- sudo make install-config

- sudo make install-webconf

- sudo a2enmod rewrite cgi

- sudo systemctl restart apache2

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

(Give any password which you want)

- sudo su

- for svc in Apache ssh

do

ufw allow $svc

done

- ufw enable

Enter y

- sudo apt install monitoring-plugins nagios-nrpe-plugin

Enter y

- cd /usr/local/nagios/etc

- mkdir -p /usr/local/nagios/etc/servers

- sudo nano nagios.cfg

(Remove # before below command ie uncomment bellow line)

cfg\_dir=/usr/local/nagios/etc/servers

- sudo nano resource.cfg

(Comment $USER which is already present and add bellow line)

$USER1$=/usr/lib/nagios/plugins

- objects/contacts.cfg

(Remove -----@------- and add your email address)

define contact{

......

email email@host.com

}

- sudo nano objects/commands.cfg

( Add bellow lines at the bottom save and exit)

define command{

command\_name check\_nrpe

command\_line $USER1$/check\_nrpe -H $HOSTADDRESS$ -c $ARG1$

}

- systemctl start nagios

- systemctl enable nagios

- systemctl status nagios

- systemctl restart apache2

- Open in web browser <http://NagiosServer_public_Ip_address/nagios/>

(Nagios dashbord will be appear on browser)

**Step 3 :-** Go in your frontend server or server which you want to monitor and run the commands step by step

- sudo apt update

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

- cd /etc/nagios/

- sudo nano nrpe.cfg

(Remove # ie uncomment the bellow line and add private ips of your servers)

server\_address=frontend\_private\_ip

allowed\_hosts=nagios\_private\_ip

- sudo nano nrpe\_local.cfg

(Copy past below lines and give frontend private ip )

command[check\_root]=/usr/lib/nagios/plugins/check\_disk -w 20% -c 10% -p /

command[check\_ping]=/usr/lib/nagios/plugins/check\_ping -H frontend\_private\_ip -w 100.0,20% -c

500.0,60% -p 5

command[check\_ssh]=/usr/lib/nagios/plugins/check\_ssh -4 frontend\_private\_ip

command[check\_http]=/usr/lib/nagios/plugins/check\_http -I frontend\_private\_ip

command[check\_apt]=/usr/lib/nagios/plugins/check\_apt

- sudo systemctl restart nagios-nrpe-server

- sudo systemctl enable nagios-nrpe-server

- sudo systemctl status nagios-nrpe-server

**Step 5 :-** Go to your nagios server putty

(Note - change frontend\_private\_ip with your frontend server private ip)

- /usr/lib/nagios/plugins/check\_nrpe -H frontend\_private\_ip

- /usr/lib/nagios/plugins/check\_nrpe -H frontend\_private\_ip -c check\_ping

- cd /usr/local/nagios/etc

- sudo nano servers/client01.cfg

(Copy and past all in the file)

# Ubuntu Host configuration file1

define host {

use linux-server

host\_name client01

alias Ubuntu Host

address frontend\_private\_ip ---------------> change this with your frontend server private ip

register 1

}

define service {

host\_name client01

service\_description PING

check\_command check\_nrpe!check\_ping

max\_check\_attempts 2

check\_interval 2

retry\_interval 2

check\_period 24x7

check\_freshness 1

contact\_groups admins

notification\_interval 2

notification\_period 24x7

notifications\_enabled 1

register 1

}

define service {

host\_name client01

service\_description Check Users

check\_command check\_nrpe!check\_users

max\_check\_attempts 2

check\_interval 2

retry\_interval 2

check\_period 24x7

check\_freshness 1

contact\_groups admins

notification\_interval 2

notification\_period 24x7

notifications\_enabled 1

register 1

}

define service {

host\_name client01

service\_description Check SSH

check\_command check\_nrpe!check\_ssh

max\_check\_attempts 2

check\_interval 2

retry\_interval 2

check\_period 24x7

check\_freshness 1

contact\_groups admins

notification\_interval 2

notification\_period 24x7

notifications\_enabled 1

register 1

}

define service {

host\_name client01

service\_description Check Root / Disk

check\_command check\_nrpe!check\_root

max\_check\_attempts 2

check\_interval 2

retry\_interval 2

check\_period 24x7

check\_freshness 1

contact\_groups admins

notification\_interval 2

notification\_period 24x7

notifications\_enabled 1

register 1

}

define service {

host\_name client01

service\_description Check APT Update

check\_command check\_nrpe!check\_apt

max\_check\_attempts 2

check\_interval 2

retry\_interval 2

check\_period 24x7

check\_freshness 1

contact\_groups admins

notification\_interval 2

notification\_period 24x7

notifications\_enabled 1

register 1

}

define service {

host\_name client01

service\_description Check HTTP

check\_command check\_nrpe!check\_http

max\_check\_attempts 2

check\_interval 2

retry\_interval 2

check\_period 24x7

check\_freshness 1

contact\_groups admins

notification\_interval 2

notification\_period 24x7

notifications\_enabled 1

register 1

}

- systemctl restart nagios

Some errors and there solutions :-

1. check\_nrpe socket timeout after 10 seconds

NOTE :- Use only private ips

<https://bobcares.com/blog/check_nrpe-socket-timeout-after-10-seconds/>

Check the ips which you provided that are private or not

1. CHECK\_NRPE: Error - Could not connect to 172.31.91.195. Check system logs on

172.31.91.195

Allow 5666 port in frontend 5666 is port of nagios

Check ips

1. apt update critical nagios dashbord or http is critical on nagios dashbord

Run below commands on frotend server

sudo apt-get update

sudo apt-get upgrade