**NAGIOS**

**WHAT IS NAGIOS ?**

● Nagios is a monitoring tool which monitors your entire IT

infrastructure to ensure systems applications , services and business

processes are functioning properly

● In the event of a failure , Nagios can alert technical staff of the

problem , allowing them to begin remediation processes before outages

effect businesses processes, end-users or customers

● Nagios core serves as the basic event scheduler, event processes and

alert manager for elements that are mentioned

● It features several APIS that are used to extend its capabilities to

perform additional tasks is implemented as a daemon written in C for

performance reasons and is designed to run natively on linux systems

**FEATURES OF NAGIOS CORE**

● Monitoring of network services **(** smtp,pop3,http,nntp,ping .. etc **)**

● Monitoring of host services **(** processor load , disk usage., etc **)**

● Simple plugin design that allow users to easily develop their own

service checks

● parallalized service checks

● Automatic log file rotation

**ADVANTAGES OF NAGIOS**

**a) Comprehensive monitoring in a single tool**

● Monitoring of all mission-critical infrastructure components

including applications , services , operating systems , network

protocols

**b) Consolidated central visibility**

● Provides central view of your entire IT operations network and

businesses processes central aggregated view of multiple monitoring

server instances improves visibility and shortens problem reaction

times for IT operations staff

**c) Scalability**

● Monitor thousands of devices with a single monitering server

distributed monitoring architectures allow for monitoring 1000 +

nodes environments

**NOTE :**

GO WITH THE BELOW LINK TO CONFIGURE **NAGIOS**

**https://r.search.yahoo.com/\_ylt=AwrwBpWjWgJcQPwAiCLnHgx.;\_ylu=X3o**

**DMTBycWJpM21vBGNvbG8Dc2czBHBvcwMxBHZ0aWQDBHNlYwNzcg--/**

**RV=2/RE=1543686947/RO=10/RU=https%3a%2f%2fwww.linuxtechi.com%2**

**finstall-configure-nagios-core-centos7-rhel7%2f/RK=2/RS=oc7r2IBIztsPiRnc**

**TUv0cj6UTl4-**

**NAGIOS CLIENT**

**Create Ec2 instance and tag as Nagio-Client:**

**Logon to Ec2 instance with putty and run below commands.**

**Login: centos**

**Sudo su –**

**Referance:** [**https://www.tecmint.com/how-to-add-linux-host-to-nagios-monitoring-server/**](https://www.tecmint.com/how-to-add-linux-host-to-nagios-monitoring-server/)

# yum install httpd php gcc glibc glibc-common gd gd-devel make net-snmp

unzip openssl-devel wget -y

# useradd nagios

# passwd nagios

# mkdir /katari

# cd /katari

# wget https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz

# wget

http://downloads.sourceforge.net/project/nagios/nrpe-2.x/nrpe-2.15/nrpe-2.15.tar.gz?r=&ts=1363788540&use\_mirror=hivelocity

# tar -zxpvf nagios-plugins-2.2.1.tar.gz

# tar -zxf nrpe-2.15.tar.gz\?r\=

# cd nagios-plugins-2.2.1

# ./configure

# make

# make install

# chown nagios.nagios /usr/local/nagios

# chown -R nagios.nagios /usr/local/nagios/libexec

#ls

# systemctl enable xinetd

# systemctl restart xinetd

# systemctl status xinetd

# cd /katari

#ls

nrpe 2.15

# cd nrpe-2.15 (change Directory)

# ./configure

# make all

# make install-plugin

# make install-daemon

# make install-daemon-config

# make install-xinetd

# vi /etc/xinetd.d/nrpe--go to last line and just type local host after 127.0.0.1

only\_from = 127.0.0.1 localhost <ServerIP> -- (Mention Ec2 Nagios Server local ip where <ServerIP> is showing)

: wq

# vi /etc/services--- go to end of code i.e after last line and add below line

nrpe 5666/tcp NRPE

: wq

# systemctl restart xinetd

# netstat -at | grep nrpe

# /usr/local/nagios/libexec/check\_nrpe -H localhost

Out put is “ NRPE v2.15” has to show for correct installation.

Next go to server Ec2 instance and do install same above configuration.

Give # /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_load

In both client and server m/cs and check load.

**NAGIOS SERVER**

**https://www.linuxtechi.com/install-configure-nagios-core-centos7-rhel7/**

Then go to any machine (server or client) and run below configuration

https://www.linuxtechi.com/install-configure-nagios-core-centos7-rhel7/

(I.e Server Side Configuration)

# yum install httpd php gcc glibc glibc-common gd gd-devel make net-snmp

unzip openssl-devel wget -y

# useradd nagios

# passwd nagios

# groupadd nagcmd

# usermod -G nagcmd nagios

# usermod -G nagcmd apache

# mkdir /katari

# cd /katari

# wget

https://sourceforge.net/projects/nagios/files/nagios-4.x/nagios-4.3.2/nagios-4.3.2.ta

r.gz

# wget https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz

# wget

http://downloads.sourceforge.net/project/nagios/nrpe-2.x/nrpe-2.15/nrpe-2.15.tar.gz?r=&ts=1363788540&use\_mirror=hivelocity

# tar -zxvf nagios-4.3.2.tar.gz

# tar -zxpvf nagios-plugins-2.2.1.tar.gz

# tar -zxf nrpe-2.15.tar.gz\?r\=

# cd /katari/

# cd nagios-4.3.2

# ./configure

# make all

# make install

# make install-init

# make install-commandmode

# make install-config

# make install-webconf

# htpasswd -s -c /usr/local/nagios/etc/htpasswd.users nagiosadmin

--Enter new password

# systemctl enable nagios

# systemctl restart nagios

# systemctl enable httpd

# systemctl restart httpd

Checking Output

1. Go to Server Ec2 Instance and copy public IP and paste in browser, then it will prompt nagios user name and password.

Username:nagiosadmin

Password: which you have given in configuration

1. Go to Client Ec2 Instance and copy public IP and paste in browser, then it will prompt nagios user name and password.

Note: Before checking output

# vi /etc/xinetd.d/nrpe (open this file and make sure you have given right server ip or not)

**# vi /usr/local/nagios/etc/hosts.cfg (open this file and make sure you have given right client Ip or not)**

Note:Below commands already configured in serverside.

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

# cd /katari

# cd nagios-plugins-2.2.1

# ./configure

# make

# make install

# chown nagios.nagios /usr/local/nagios

# chown -R nagios.nagios /usr/local/nagios/libexec

# systemctl enable xinetd

# systemctl restart xinetd

# systemctl status xinetd

# cd /katari

# cd nrpe-2.15

# ./configure

# make all

# make install-plugin

# make install-daemon

# make install-daemon-config

# make install-xinetd

# vi /etc/xinetd.d/nrpe

only\_from = 127.0.0.1 localhost

: wq

# vi /etc/services

nrpe 5666/tcp # Nagios Remote Plugin Executor

: wq

# systemctl restart xinetd

# netstat -at | grep nrpe

# /usr/local/nagios/libexec/check\_nrpe -H localhost

# vi /usr/local/nagios/etc/nrpe.cfg

\*\*\*Below commands for checking output\*\*\*

# /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_users

# /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_load

# /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_hda1

# /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_total\_procs

# /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_zombie\_procs

# /usr/local/nagios/libexec/check\_nrpe -H 35.170.249.51

# cd /usr/local/nagios/etc/

# touch hosts.cfg

# touch services.cfg

**# vi /usr/local/nagios/etc/nagios.cfg**

# You can specify individual object config files as shown below:

cfg\_file=/usr/local/nagios/etc/hosts.cfg

cfg\_file=/usr/local/nagios/etc/services.cfg

**:wq**

**# vi /usr/local/nagios/etc/hosts.cfg**

## Default Linux Host Template ##

define host{

name linux-box ; Name of this template

use generic-host ; Inherit default values

check\_period 24x7

check\_interval 5

retry\_interval 1

max\_check\_attempts 10

check\_command check-host-alive

notification\_period 24x7

notification\_interval 30

notification\_options d,r

contact\_groups admins

register 0 ; DONT REGISTER THIS - ITS A

TEMPLATE

}

## Default

define host{

use linux-box ; Inherit default values from a template

host\_name tecmint ; The name we're giving to this server

alias CentOS 6 ; A longer name for the server

address 5.175.142.66 ; IP address of Remote Linux host

} —Give Ec2 Client IP in place of 5.175.142.66

**: wq**

**# vi /usr/local/nagios/etc/services.cfg**

define service{

use generic-service

host\_name tecmint

service\_description CPU Load

check\_command check\_nrpe!check\_load

}

define service{

use generic-service

host\_name tecmint

service\_description Total Processes

check\_command check\_nrpe!check\_total\_procs

}

define service{

use generic-service

host\_name tecmint

service\_description Current Users

check\_command check\_nrpe!check\_users

}

define service{

use generic-service

host\_name tecmint

service\_description SSH Monitoring

check\_command check\_nrpe!check\_ssh

}

define service{

use generic-service

host\_name tecmint

service\_description FTP Monitoring

check\_command check\_nrpe!check\_ftp

}

**: wq**

**# vi /usr/local/nagios/etc/objects/commands.cfg**

##################################################################

#############

# NRPE CHECK COMMAND

#

# Command to use NRPE to check remote host systems

##################################################################

#############

define command{

command\_name check\_nrpe

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

}

**: wq**

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

**# systemctl enable nagios**

**# systemctl restart nagios**

# vi /usr/local/nagios/etc/nrpe.cfg

# /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_users

# /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_load

# /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_hda1

# /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_total\_procs

# /usr/local/nagios/libexec/check\_nrpe -H localhost -c check\_zombie\_procs