Installing Nagios

sudo apt update

sudo apt install autoconf gcc make unzip libgd-dev libmcrypt-dev libssl-dev dc snmp libnet-snmp-perl gettext

curl -L -O https://github.com/NagiosEnterprises/nagioscore/archive/nagios-4.4.4.tar.gz

tar zxf nagios-4.4.4.tar.gz

cd nagioscore-nagios-4.4.4

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

Note: If you want Nagios to send emails using Postfix, you must install Postfix and configure Nagios to use it by adding --with-mail=/usr/sbin/sendmail to the configure command. We won’t cover Postfix in this tutorial, but if you choose to use Postfix and Nagios later, you’ll need to reconfigure and reinstall Nagios to use Postfix support.

make all

sudo make install-groups-users

sudo make install

sudo make install-daemoninit

sudo make install-commandmode

sudo make install-config

sudo make install-webconf

sudo a2enmod rewrite

sudo a2enmod cgi

sudo usermod -a -G nagios www-data

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

Warning: If you create a user with a name other than nagiosadmin, you will need to edit /usr/local/nagios/etc/cgi.cfg and change all the nagiosadmin references to the user you created.

Restart Apache to load the new Apache configuration:

sudo systemctl restart apache2

Installing the Nagios Plugins

curl -L -O https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz

tar zxf nagios-plugins-2.2.1.tar.gz

cd nagios-plugins-2.2.1

./configure

make

sudo make install

nstalling the check\_nrpe Plugin

cd ~

curl -L -O https://github.com/NagiosEnterprises/nrpe/releases/download/nrpe-3.2.1/nrpe-3.2.1.tar.gz

tar zxf nrpe-3.2.1.tar.gz

cd nrpe-3.2.1

./configure

make check\_nrpe

sudo make install-plugin

Configuring Nagios

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

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

...

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

...

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

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

sudo mkdir /usr/local/nagios/etc/servers

sudo nano /usr/local/nagios/etc/objects/contacts.cfg

/usr/local/nagios/etc/objects/contacts.cfg

...

define contact{

contact\_name nagiosadmin ; Short name of user

use generic-contact ; Inherit default values from generic-contact template (defined above)

alias Nagios Admin ; Full name of user

email your\_email@your\_domain.com ; <<\*\*\*\*\* CHANGE THIS TO YOUR EMAIL ADDRESS \*\*\*\*\*\*

...

/usr/local/nagios/etc/objects/commands.cfg in your editor:

sudo nano /usr/local/nagios/etc/objects/commands.cfg

Add the following to the end of the file to define a new command called check\_nrpe:

/usr/local/nagios/etc/objects/commands.cfg

...

define command{

command\_name check\_nrpe

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

}

sudo systemctl start nagios

Accessing the Nagios Web Interface

http://10.10.10.152/nagios.

Installing Nagios Plugins and NRPE Daemon on a Host

sudo useradd nagios

sudo apt update

sudo apt install autoconf gcc libmcrypt-dev make libssl-dev wget dc build-essential gettext

cd ~

curl -L -O https://nagios-plugins.org/download/nagios-plugins-2.2.1.tar.gz

./configure

make

sudo make install

cd ~

curl -L -O https://github.com/NagiosEnterprises/nrpe/releases/download/nrpe-3.2.1/nrpe-3.2.1.tar.gz

tar zxf nrpe-3.2.1.tar.gz

cd nrpe-3.2.1

./configure

make nrpe

sudo make install-daemon

sudo make install-config

sudo make install-init

df -h /

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

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

...

server\_address=second\_ubuntu\_server\_private\_ip

...

allowed\_hosts=127.0.0.1,::1,your\_nagios\_server\_private\_ip

...

command[check\_vda1]=/usr/local/nagios/libexec/check\_disk -w 20% -c 10% -p /dev/vda1

...

sudo systemctl start nrpe.service

sudo systemctl status nrpe.service

sudo ufw allow 5666/tcp

/usr/local/nagios/libexec/check\_nrpe -H second\_ubuntu\_server\_ip

Monitoring Hosts with Nagios

sudo nano /usr/local/nagios/etc/servers/ctel.cfg

/usr/local/nagios/etc/servers/ctel.cfg

define host {

use linux-server

host\_name ctel

alias My client server

address 10.10.10.152

max\_check\_attempts 5

check\_period 24x7

notification\_interval 30

notification\_period 24x7

}

/usr/local/nagios/etc/servers/ctel.cfg

define host {

use linux-server

host\_name ctel

alias My client server

address 10.10.10.152

max\_check\_attempts 5

check\_period 24x7

notification\_interval 30

notification\_period 24x7

}

/usr/local/nagios/etc/servers/ctel.cfg

define service {

use generic-service

host\_name ctel

service\_description /dev/vda1 free space

check\_command check\_nrpe!check\_vda1

}

sudo systemctl restart nagios