

NAGIOS

Controller Machine

Nagios Setup

apt-get update

apt-get install nagios3

make everything default by clicking tab and enter

and need to provide password and need to remember it

which nagios3

it provides the path of nagios3

cd /etc/nagios3/conf.d

here in this path we have configuration files of nagios3

ls

```
root@ip-172-31-37-104:/etc/nagios3/conf.d# ls
contacts_nagios2.cfg  generic-host_nagios2.cfg  hostgroups_nagios2.cfg  services_nagios2.cfg
extinfo_nagios2.cfg  generic-service_nagios2.cfg  localhost_nagios2.cfg  timeperiods_nagios2.cfg
```

here we can configure everything in nagios like what to monitor, here localhost_nagios2.cfg is the main configuration file

vi contacts.cfg

here we can give the email to get notification of nagios monitoring and we can add the members by giving commas

adduser nagiosadmin

need to add user and give the password of nagios and for details press enter to take everything default

apt-get update

apt-get install members

members nagios

it will show members in the group

usermod -aG nagios nagiosadmin

it will add nagiosadmin to the nagios group

Host Machine

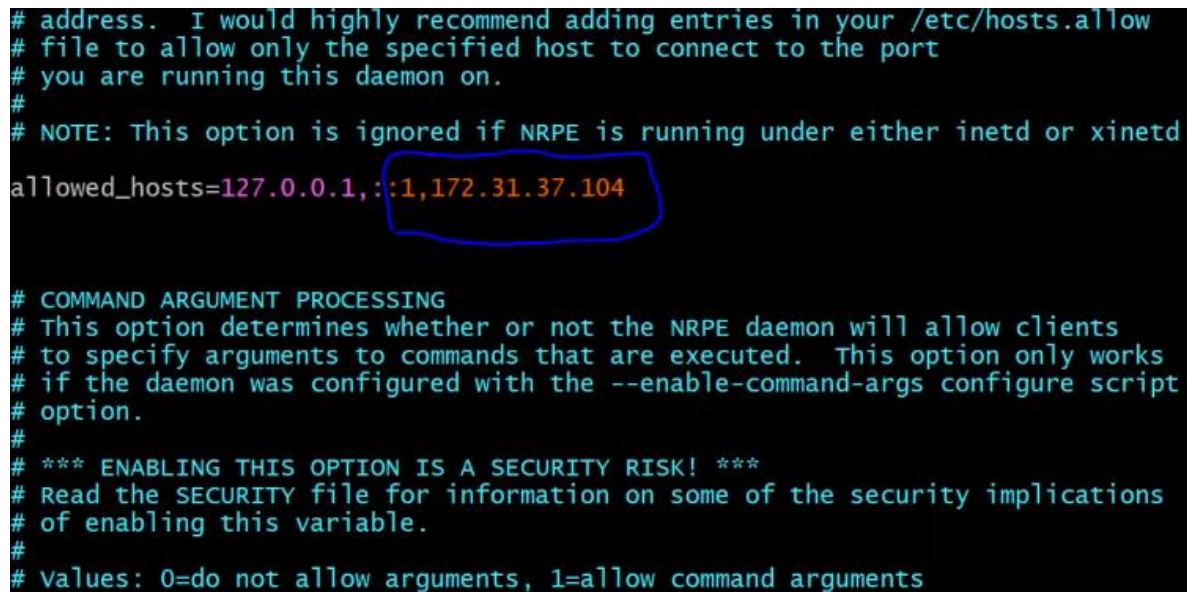
here in the host system we need to configure NRPE plugin, using this plugin we can monitor it

apt-get update

apt-get install nagios-nrpe-server nagios-plugins -y

it will install the NRPE plugin

vi /etc/nagios/nrpe.cfg



```
# address. I would highly recommend adding entries in your /etc/hosts.allow
# file to allow only the specified host to connect to the port
# you are running this daemon on.
#
# NOTE: This option is ignored if NRPE is running under either inetd or xinetd
allowed_hosts=127.0.0.1,:::1,172.31.37.104

# COMMAND ARGUMENT PROCESSING
# This option determines whether or not the NRPE daemon will allow clients
# to specify arguments to commands that are executed. This option only works
# if the daemon was configured with the --enable-command-args configure script
# option.
#
# *** ENABLING THIS OPTION IS A SECURITY RISK! ***
# Read the SECURITY file for information on some of the security implications
# of enabling this variable.
#
# values: 0=do not allow arguments, 1=allow command arguments
```

here we should add Controller Machine Private IP address

service nagios-nrpe-server restart

this will restart NRPE plugin

Inbound rules should be allowed to (5666) all traffic

Controller Machine

apt-get update

apt-get install nagios-nrpe-plugin

cd /usr/lib/nagios/plugins

chmod 777 check_nrpe

./check_nrpe -H <Host private IP Address>

it will show the version of nrpe version of host i.e., will check whether Host is connected to it or not.

cd /etc/nagios3/conf.d

cp localhost_nagios2.cfg host_nagios2.cfg

it will create a copy with renaming it,

vi host_nagios2.cfg

Before

```
root@ip-172-31-37-104: /etc/nagios3/conf.d
# A simple configuration file for monitoring the local host
# This can serve as an example for configuring other servers;
# Custom services specific to this host are added here, but services
# defined in nagios2-common_services.cfg may also apply.
#

define host{
    use                generic-host          ; Name of host template to use
    host_name          localhost
    alias              localhost
    address            127.0.0.1
}

# Define a service to check the disk space of the root partition
# on the local machine.  warning if < 20% free, critical if
# < 10% free space on partition.

define service{
    use                generic-service        ; Name of service template to use
    host_name          localhost
    service_description Disk Space
    check_command       check_all_disks!20%!10%
}
```

After

```
root@ip-172-31-37-104: /etc/nagios3/conf.d
# A simple configuration file for monitoring the local host
# This can serve as an example for configuring other servers;
# Custom services specific to this host are added here, but services
# defined in nagios2-common_services.cfg may also apply.
#

define host{
    use                generic-host          ; Name of host template to use
    host_name          ip-172-31-13-30.ap-south-1.compute.internal
    alias              ip-172-31-13-30.ap-south-1.compute.internal
    address            172.31.13.30
}

# Define a service to check the disk space of the root partition
# on the local machine.  warning if < 20% free, critical if
# < 10% free space on partition.

define service{
    use                generic-service        ; Name of service template to use
    host_name          ip-172-31-13-30.ap-south-1.compute.internal
    service_description Disk Space
    check_command       check_all_disks!20%!10%
}

# Define a service to check the number of currently logged in
# users on the local machine.  warning if > 20 users, critical
# if > 50 users.

define service{
-- INSERT --
}
```

here we will replace the text from local host to of private ipv4 DNS of host machine and Private Ip address of the host machine in all places in this file

lets go to host machine

vi /etc/nagios/nrpe.cfg

```
command[check_users]=/usr/lib/nagios/plugins/check_users -w 5 -c 10
command[check_load]=/usr/lib/nagios/plugins/check_load -r -w .15,.10,.05 -c .30,.25,.20
command[check_hda1]=/usr/lib/nagios/plugins/check_disk -w 20% -c 10% -p /dev/hda1
command[check_zombie_procs]=/usr/lib/nagios/plugins/check_procs -w 5 -c 10 -s Z
command[check_total_procs]=/usr/lib/nagios/plugins/check_procs -w 150 -c 200
```

here in bottom we can see this

now again come to controller machine

vi /etc/nagios3/conf.d/ host_nagios2.cfg

```
root@ip-172-31-37-104:/etc/nagios3/conf.d
# if > 50 users.

define service{
    use                generic-service      ; Name of service template to use
    host_name          ip-172-31-13-30.ap-south-1.compute.internal
    service_description Current Users
    check_command       check_nrpe!check_users ✓
}

# Define a service to check the number of currently running procs
# on the local machine. warning if > 250 processes, critical if
# > 400 processes.

define service{
    use                generic-service      ; Name of service template to use
    host_name          ip-172-31-13-30.ap-south-1.compute.internal
    service_description Total Processes
    check_command       check_procs!250!400 ✗ check_nrpe!check_total_procs ✓
}

# Define a service to check the load on the local machine.

define service{
    use                generic-service      ; Name of service template to use
    host_name          ip-172-31-13-30.ap-south-1.compute.internal
    service_description Current Load
    check_command       check_load!5.0!4.0!3.0!10.0!6.0!4.0 ✗ check_nrpe!check_load ✓
}
```

here we need to replace every checkcommand with check_nrpe!<specific command>which we have taken a pic from host machine in the box

service nagios3 restart

then go to website and enter <ipaddress>/nagios3

give username as nagiosadmin and specific password