

. P. SHAH INSTITUTE OF TECHNOLOGY

Department of Information Technology

(NBA Accredited)

Academic Year: 2022-23 Semester: V

Class / Branch: TE IT

Subject: Advanced Devops Lab (ADL)

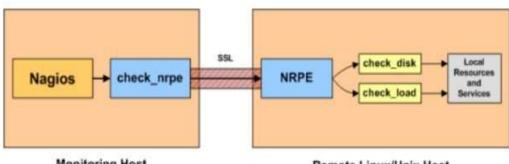
Subject Lab Incharge: Prof. Manasi Choche

EXPERIMENT NO. 10

Aim: To perform Port, Service monitoring, Linux server monitoring using Nagios.

Theory:

Monitoring remote Linux/Unix hosts is to use the NRPE addon. NRPE allows you to execute plugins on remote Linux/Unix hosts. This is useful if you need to monitor local resources/attributes like disk usage, CPU load, memory usage, etc. on a remote host.



Monitoring Host Remote Linux/Unix Host

Note: To perform this experiment Experiment 9 is pre-requisite where we have configured Nagios on Linux System. Here In this Experiment we will Add a Linux Host to Nagios for Monitoring purpose.

Step 1 – Configure NRPE on Linux Host

Follow the below steps to install and configure NRPE on client machine and check connectivity with Nagios server.

Step 1.1 – Install NRPE

vishal@apsit:~\$ sudo apt-get install nagios-nrpe-server nagios-plugins

Step 1.2 – Configure NRPE

After successfully installing NRPE service, Edit nrpe configuration file /etc/nagios/nrpe.cfg in your favorite editor and add your nagios service ip in allowed hosts.



A. P. SHAH INSTITUTE OF TECHNOLOGY

Department of Information Technology

(NBA Accredited)

vishal@apsit:~\$ sudo nano /etc/nagios/nrpe.cfg

```
allowed hosts=127.0.0.1, 192.168.64.3, 192.168.1.100
```

Where 192.168.1.100 is your Nagios server ip address.

After making above changes in nrpe configuration file, Lets restart NRPE service as per your system

vishal@apsit:~\$ sudo /etc/init.d/nagios-nrpe-server restart

Step 1.3 – Verify Connectivity from Nagios

Now run the below command from Nagios server to make sure your nagios is able to connect nrpe client on remote Linux system. Here **192.168.64.3** is your remote Linux system ip.

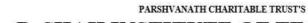
vishal@apsit:~\$ /usr/local/nagios/libexec/check_nrpe -H 192.168.64.3
NRPE v2.15

Step 2 – Add Linux Host in Nagios

First create a configuration file using below values. for example you Linux hosts ip is . We also need to define a service with host. So add a ping check service, which will continuously check that host is up or not.

vishal@apsit:~\$ sudo nano /usr/local/nagios/etc/servers/MyLinuxHost001.cfg

```
define host {
                                      linux-server
        host name
                                      Linux Host 001
                                      Linux Host 001
        alias
                                      192.168.64.3
        address
        register
define service{
                                       Linux Host 001
     host name
      service description
                                       PING
      check command
                                       check ping!100.0,20%!500.0,60%
      max check attempts
                                       2
                                       2
      check interval
```



A. P. SHAH INSTITUTE OF TECHNOLOGY

Department of Information Technology

(NBA Accredited)

retry interval	2
check period	24x7
check freshness	1
contact groups	admins
notification interval	2
notification period	24x7
notifications enabled	1
register	1

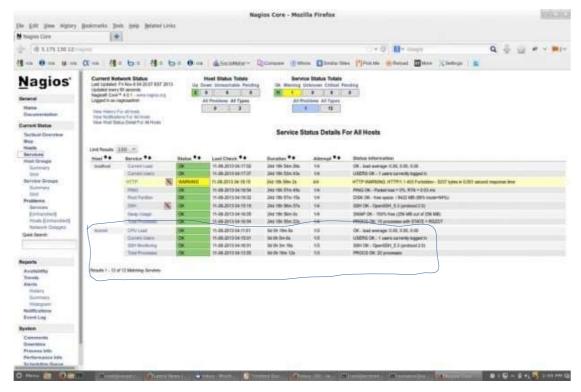
Now verify configuration files using following command. If there are no errors found in configuration, restart nagios service.

vishal@apsit:~\$ sudo nagios -v /usr/local/nagios/etc/nagios.cfg
vishal@apsit:~\$ sudo service nagios restart

Step 3 – Check Host in Nagios Web Interface

}

Open your Nagios web interface and check for new Linux hosts added in Nagios core service.



Conclusion: Write your own findings.