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# 1，Material

nagios-4.1.1.tar.gz

nagios-plugins-2.1.1.tar.gz

pnp4nagios-0.6.25.tar.gz

nrpe-2.12.tar.gz

gd-devel-2.0.35-11.el6.x86\_64.rp

one normal rhel6.4 yum configure and normal srouce

# 2，uncompress package & install package

yum install gd-devel-2.0.35-11.el6.x86\_64.rpm

yum install httpd php gcc glibc glibc-common gd gd-devel make net-snmp unzip openssl-devel –y

# add account and group

useradd nagios && groupadd nagcmd && usermod -G nagcmd nagios && usermod -G nagcmd apache

# Install nagios

# tar xvzf nagios-4.0.8.tar.gz

# cd nagios-4.0.8

# ./configure --with-nagios-group=nagcmd && make all && make install && make install-init && make install-commandmode && make install-config && make install-webconf

# create web password Anthentacation

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

# start apache

/etc/init.d/httpd start

# Install nagios-plugin

# tar xvzf nagios-plugins-2.0.3.tar.gz

# ./configure --with-nagios-user=nagios --with-nagios-group=nagios && make && make install

# Start nagios:

# /etc/init.d/nagios start

# Monitor web

<http://192.168.1.250/nagios/>

# pnp4nagios installation

yum install rrdtool perl-Time -y

yum install php-gd

yum install perl-Time-HiRes perl-Time-Piece perl-TimeDate -y

tar xvf pnp4nagios-0.6.25

cd pnp4nagios-0.6.2

./configure --prefix=/usr/local/pnp4nagios --with-nagios-user=nagios --with-nagios-group=nagios

make all && make install && make install-webconf && make install-config && make install-init && make fullinstall

cd /usr/local/pnp4nagios/etc

mv misccommands.cfg-sample misccommands.cfg

mv nagios.cfg-sample nagios.cfg

mv rra.cfg-sample rra.cfg

cd pages

mv web\_traffic.cfg-sample web\_traffic.cfg

cd ../check\_commands

mv check\_all\_local\_disks.cfg-sample check\_all\_local\_disks.cfg

mv check\_nrpe.cfg-sample check\_nrpe.cfg

# Modify nagios.cfg

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

enable\_environment\_macros=1

process\_performance\_data=1

host\_perfdata\_command=process-host-perfdata

service\_perfdata\_command=process-service-perfdata

# service performance data

service\_perfdata\_file=/usr/local/pnp4nagios/var/service-perfdata

service\_perfdata\_file\_template=DATATYPE::SERVICEPERFDATA\tTIMET::$TIMET$\tHOSTNAME::$HOSTNAME$\tSERVICEDESC::$SERVICEDESC$\tSERVICEPERFDATA::$SERVICEPERFDATA$\tSERVICECHECKCOMMAND::$SERVICECHECKCOMMAND$\tHOSTSTATE::$HOSTSTATE$\tHOSTSTATETYPE::$HOSTSTATETYPE$\tSERVICESTATE::$SERVICESTATE$\tSERVICESTATETYPE::$SERVICESTATETYPE$

service\_perfdata\_file\_mode=a

service\_perfdata\_file\_processing\_interval=15

service\_perfdata\_file\_processing\_command=process-service-perfdata-file

# host performance data starting with Nagios 3.0

host\_perfdata\_file=/usr/local/pnp4nagios/var/host-perfdata

host\_perfdata\_file\_template=DATATYPE::HOSTPERFDATA\tTIMET::$TIMET$\tHOSTNAME::$HOSTNAME$\tHOSTPERFDATA::$HOSTPERFDATA$\tHOSTCHECKCOMMAND::$HOSTCHECKCOMMAND$\tHOSTSTATE::$HOSTSTATE$\tHOSTSTATETYPE::$HOSTSTATETYPE$

host\_perfdata\_file\_mode=a

host\_perfdata\_file\_processing\_interval=15

host\_perfdata\_file\_processing\_command=process-host-perfdata-file

# modify commands.cfg

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

define command{

command\_name process-service-perfdata-file

command\_line /usr/local/pnp4nagios/libexec/process\_perfdata.pl --bulk=/usr/local/pnp4nagios/var/service-perfdata

}

define command{

command\_name process-host-perfdata-file

command\_line /usr/local/pnp4nagios/libexec/process\_perfdata.pl --bulk=/usr/local/pnp4nagios/var/host-perfdata

}

# Modify templates.cfg

vim /usr/local/nagios/etc/objects/templates.cfg

define host {

name host-pnp

action\_url /pnp4nagios/index.php/graph?host=$HOSTNAME$&srv=\_HOST\_

register 0

}

define service {

name service-pnp

action\_url /pnp4nagios/index.php/graph?host=$HOSTNAME$&srv=$SERVICEDESC$

register 0

}

# Use module

vim /usr/local/nagios/etc/objects/localhost.cfg

define host{

use linux-server,host-pnp

# delete install.pnp

cd /usr/local/pnp4nagios/share/

mv install.php bak.install.php

# restart nagios & httpd

/etc/init.d/httpd reload

/etc/ini.d/nagios reload

# 3,remote server nagios plugins installation

）如何在被监控服务器上安装NRPE。

首先，需要准备的包有两个：NRPE和nagios-plugin。首先安装插件：

/usr/sbin/useradd nagios

passwd nagios

tar xzf nagios-plugins-1.4.9.tar.gz

cd nagios-plugins-1.4.9

./configure --prefix=/usr/local/nagios

make && make install

chown nagios.nagios /usr/local/nagios/

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

然后安装NRPE：

tar xzf nrpe-2.8.1.tar.gz

cd nrpe-2.8.1

./configure

make all

make install-plugin

make install-daemon

make install-daemon-config

make install-xinetd

安装好了，可以到/usr/local/nagios/下面检查一下，应该生成了4个目录:bin、etc、libexec、share。之后我们要配置 一下，目的是让NRPE可以以守护进程的形式监听5666端口，为特定地址的nagios平台提供服务。

首先，需要修改/usr/local/nagios/etc/nrpe.cfg

找到“allowed\_hosts=127.0.0.1”将其改为：

allowed\_hosts=127.0.0.1,$Nagios监控平台的地址或域名

3)启动NRPE守护进程：（可以将此命令加入/etc/rc.local，以便开机自动启动）

/usr/local/nagios/bin/nrpe -c /usr/local/nagios/etc/nrpe.cfg -d

此命令生成的日志会在系统的日志（/var/log/message）中。如果没有出错，就基本搞定了。我们来验收一下，在本机上：

/usr/local/nagios/libexec/check\_nrpe -H 127.0.0.1

或者在nagios监控平台服务器上：

/usr/local/nagios/libexec/check\_nrpe -H $目标主机地址

正常的返回值为被监控服务器上安装的NRPE的版本信息：

NRPE v2.8.1

如果看到这些，恭喜你，你的NRPE安装成功了。

那么，通过NRPE，可以监控到哪些信息呢？ 只要在被监控服务器上有的插件（/usr/local/nagios/libexec中的所有插件），都可以使用。也就是说，你想监控什么，只要有对应的插件，就可以实现。

在被监控端的 nrpe.cfg 文件中，可以看到这样的配置：

command[check\_load]=/usr/local/nagios/libexec/check\_load -w 15,10,5 -c 30,25,20

这是用来检查 CPU 负载的。

这样，就可以在监控平台上定义如下服务来监控被监控端的 CPU 负载了：

define service{

host\_name remotehost

service\_description check\_load

...

check\_command check\_nrpe!check\_load }

～～～～～～～～～～～～～～～～～～～～～～～～～～～～～～～～～～～～～～～

vim /usr/local/nagios/etcnagios.cfg (监控端)

35 # Definitions for monitoring the local (Linux) host

  36 cfg\_file=/usr/local/nagios/etc/objects/localhost.cfg

  37 cfg\_file=/usr/local/nagios/etc/objects/253.cfg

然后去/usr/local/nagios/etc/objects编辑

上一步被定义的文件名

vim 253.cfg

define host{

use linux-server

host\_name www.up.com 被监控的主机名

alias ma

address 192.168.1.117

}

define hostgroup{

hostgroup\_name linux-ser

alias linux ser

members www.up.com

}

define service{

use local-service

host\_name www.up.com

service\_description dd

check\_command check\_nrpe!check\_vda2

}

define service{

use local-service

host\_name www.up.com

service\_description root

check\_command check\_nrpe!check\_vda2 被监控端的服务名

}

被监控端的/usr/local/nagios/etc/nrpe.cfg 里面有定义好的服务名 按要求来使用

command[check\_users]=/usr/local/nagios/libexec/check\_users -w 3 -c 4

command[check\_load]=/usr/local/nagios/libexec/check\_load -w 15,10,5 -c 30,25,20

command[check\_sda2]=/usr/local/nagios/libexec/check\_disk -w 20% -c 60% -p /dev/sda2

command[check\_zombie\_procs]=/usr/local/nagios/libexec/check\_procs -w 5 -c 10 -s Z

command[check\_total\_procs]=/usr/local/nagios/libexec/check\_procs -w 80 -c 100