# 准备系统环境

## 1.系统光盘使用RedHat 5 安装为全部默认选项

## 2.系统环境搭建

1. 关闭防火墙(防止安装过程中出现不必要的麻烦，增加安装过程中的顺利程度)

chkconfig iptables off

/etc/init.d/iptables stop

2.关闭selinux(防止安装过程中出现不必要的麻烦，增加安装过程中的顺利程度)

sed -i 's/enforcing/disabled/' /etc/selinux/config

3.给系统添加YUM环境(确保光盘已经装载到主机上)

mount /dev/cdrom /mnt

4.修改yum配置文件

cat > /etc/yum.repos.d/rhel-debuginfo.repo <<EOF

[redhat-5]

name=RedHat - Media

baseurl=file:///mnt/Server

gpgcheck=0

enabled=1

EOF

5.加载yum配置

yum makecache

6.安装系统环境

yum -y install gcc gcc-c++ perl\* libtool-libs autoconf freetype-devel libart\* freetype\* xinet\* gd gd-devel libjpeg libjpeg-devel libpnglibpng-devel xml2 libxml2-devel ncurses-devel zlib zlib-devel zip unzip curl-devel wget crontabs file bison cmake patch mlocate flex diffutils automake make kernel-devel cpp readline-devel openssl openssl-devel vim-minimal sendmail glibc-devel glib2-devel bzip2-devel e2fsprogs-devel libidn-devel gettext-devel expat-devel libcap-devel libtool-ltdl-devel pam-devel pcre pcre-devel libmcrypt-devel libX11-devel libXpm-devel libXext-devel sendmail httpd php php-gd php-mysql php-snmp php-devel mysql mysql-server perl-DBD-MySQL php-pdo net-snmp net-snmp-libs net-snmp-utils net-snmp-devel

chkconfig --level 35 httpd on

chkconfig --list httpd

chkconfig --level 35 mysqld on

chkconfig --list mysqld

# nagios安装

## 1.建立用户及目录

useradd -s /sbin/nologin nagios

mkdir /usr/local/nagios

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

## 2.编译安装

./configure --prefix=/usr/local/nagios --enable-embedded-perl --with-perlcache

make all

make install

make install-init

make install-commandmode

make install-config

make install-webconf

chkconfig --add nagios

chkconfig --level 35 nagios on

chkconfig --list nagios

## 3.安装插件 nagios-plugins

./configure --prefix=/usr/local/nagios --with-nagios-user=nagios --with-nagios-group=nagios --enable-extra-opts --enable-perl-modules=/usr/bin/perl

make all

make install

## 4.生成用户

service nagios start

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

sed -i 's/enable\_flap\_detection=1/enable\_flap\_detection=0/' /usr/local/nagios/etc/nagios.cfg

(关闭抖动检测)

## 安装nrpe

./configure --prefix=/usr/local/nagios  
make all  
make install   
make install-plugin    (监控机需要安装check\_nrpe这个插件,被监控机并不需要)

make install-daemon

make install-daemon-config

make install-xinetd

chmod -R 755 /usr/local/nagios

chown -R nagios:nagios /usr/local/nagios

## 配置nrpe

文件 /etc/services 增加nrpe服务

echo "nrpe 5666/tcp # nrpe">>/etc/services

#启动nrpe

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

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

#查看

netstat -at|grep nrpe

netstat -an|grep 5666

#测试

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

## nagios配置

vi /usr/local/nagios/etc/nrpe.cfg（添加nagios服务器的ip地址）

allowed\_hosts=127.0.0.1,8.8.8.8,1.1.1.1 (服务器多个IP以逗号分隔)

## 检查错误

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

## rrdtool

mkdir /usr/local/rrdtool

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

make

make install

## pnp4

./configure --with-nagios-user=nagios --with-nagios-group=nagios --with-rrdtool=/usr/local/rrdtool/bin/rrdtool --with-perfdata-dir=/usr/local/nagios/share/perfdata --with-perl\_lib\_path=/usr/local/rrdtool/lib/perl/5.8.8/x86\_64-linux-thread-multi/

make all

make install

make install-webconf

make install-config

make install-init

#安装后的服务名为/etc/init.d/npcd

echo /etc/init.d/npcd start >> /etc/rc.local

拷贝contrib目录下status-header.ssi到/usr/local/nagios/share/ssi/目录下面来（这一步很重要，要不然移动到太阳标记上出不来图）

sed -i 's/LOG\_LEVEL = 0/LOG\_LEVEL = 2/' /usr/local/pnp4nagios/etc/process\_perfdata.cfg

(将日志级别设为2，即debug模式)

cd /usr/local/pnp4nagios/etc/

cp misccommands.cfg-sample misccommands.cfg

cp nagios.cfg-sample nagios.cfg

cp npcd.cfg-sample npcd.cfg

cp process\_perfdata.cfg-sample process\_perfdata.cfg

cp rra.cfg-sample rra.cfg

chmod -R 755 /usr/local/pnp4nagios

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

cd pages

cp web\_traffic.cfg-sample web\_traffic.cfg

cd ../check\_commands

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

cp check\_nrpe.cfg-sample check\_nrpe.cfg

cp check\_nwstat.cfg-sample check\_nwstat.cfg

sed -i 's/process\_performance\_data=0/process\_performance\_data=1/' /usr/local/nagios/etc/nagios.cfg

sed -i 's/#host\_perfdata\_command=process-host-perfdata/host\_perfdata\_command=process-host-perfdata/' /usr/local/nagios/etc/nagios.cfg

sed -i 's/#service\_perfdata\_command=process-service-perfdata/service\_perfdata\_command=process-service-perfdata/' /usr/local/nagios/etc/nagios.cfg

vi /usr/local/nagios/etc/objects/commands.cfg （添加下文）

# 'process-host-perfdata' command definition

define command{

command\_name process-host-perfdata

command\_line /usr/local/pnp4nagios/libexec/process\_perfdata.pl

}

# 'process-service-perfdata' command definition

define command{

command\_name process-service-perfdata

command\_line /usr/local/pnp4nagios/libexec/process\_perfdata.pl

}

vi /usr/local/nagios/etc/objects/templates.cfg （添加下文）

在generic-host模板下添加

action\_url /pnp4nagios/share/index.php

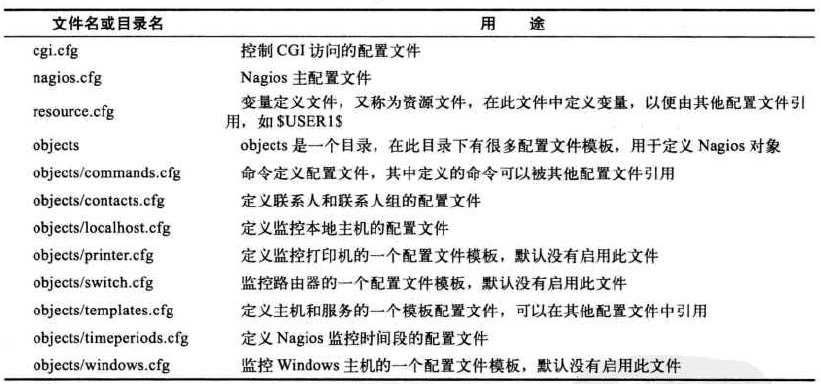
在generic-service模板下添加

action\_url /pnp4nagios/share/index.php

## 创建hosts.cfg文件

## 创建services.cfg文件

# nagios配置文件结构介绍



# Linux被监控端安装

查看nagios用户和nagios 组是否存在

cat /etc/group | grep nagios

cat /etc/passwd | grep nagios

如果 都不存在，则添加nagios用户和组

添加nagios组

groupadd nagios

添加nagios用户，并且添加nagios用户到nagios组

useradd -g nagios nagios

## 安装nagios-plugins

解压nagios-plugins-1.4.14.tar.gz

#tar xzvf nagios-plugins-1.4.14.tar.gz

#cd nagios-plugins-1.4.14

安装nagios\_plugins

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

#make && make install

修改权限

chmod -R 755 /usr/local/nagios

chown -R nagios:nagios /usr/local/nagios

## 安装nrpe

解压nrpe-2.12.tar.gz

#tar xzvf nrpe-2.12.tar.gz

#cd nrpe-2.12

编译安装

从源代码安装需要openssl，openssl-devel支持, 从安装包安装不需要openssl，openssl-devel支持

#./configure

#make all

#make install

#make install-daemon-config

修改权限，用户，组

#chmod -R 755 /usr/local/nagios

#chown -R nagios:nagios /usr/local/nagios

配置

修改nrpe.cfg文件

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

（添加nagios服务器的ip地址）

allowed\_hosts=127.0.0.1,10.1.37.238,10.1.37.92,10.1.37.93

启动nrpe

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

如果已经启动nrpe，请先kill，再启动

# kill -9 nrpe进程号

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

将开机启动nrpe添加到boot文件中

检测是否安装配置成功，在nagios服务器上执行如下命令

# /usr/local/nagios/libexec/check\_nrpe -H 安装nrpe主机的ip

## 安装check\_logfiles

解压check\_logfiles-3.1.2.tar.gz

#tar xzvf check\_logfiles-3.1.2.tar.gz

#cd check\_logfiles-3.1.2

安装

#./configure --prefix=/usr/local/nagios --with-nagios-user=nagios --with-nagios-group=nagios --with-perl=/usr/bin/perl --with-gzip=/usr/bin/gzip --with-trusted-path=/sbin:/usr/sbin:/usr/local/sbin:/bin:/usr/bin:/usr/local/nagios/libexec --with-seekfiles-dir=/tmp --with-protocols-dir=/tmp

# make 会生成check\_logfiles文件

# make install 将安装到/usr/local/nagios/libexec

修改权限，用户，组

#chmod -R 755 /usr/local/nagios

#chown -R nagios:nagios /usr/local/nagios

## 安装snmp

yum install snmp -y

修改snmp配置

（1）用10.1.37.238,10.1.37.92监控的

#vi /etc/snmp/snmpd.conf

添加如下内容:

rocommunity cebpublic 127.0.0.1

rocommunity cebpublic 10.1.37.238

rocommunity cebpublic 10.1.37.92

rocommunity cebpublic 10.1.37.93

（2）用10.1.7.83监控的

#vi /etc/snmp/snmpd.conf

添加如下内容:

rocommunity cebpublic 127.0.0.1

rocommunity cebpublic 同一个网段网卡的ip地址

例如要监控一台192.168.3.15的主机

rocommunity cebpublic 192.168.3.15

添加snmp到开机自启动

# chkconfig snmpd on

重启snmp服务

#service snmpd restart

# 测试目标