

Nagios Install Instructions

Original: <http://tinyurl.com/naginstall>

1. Install Prerequisites

- yum install httpd php gcc glibc glibc-common gd gd-devel

2. Create Nagios User and Group

- useradd -m nagios
- date +%s | sha256sum | base64 | head -c 32; echo *# purpose???*
- passwd nagios
- groupadd nagcmd

3. Setup Install Environment

- mkdir -p /usr/local/software/{src,pkg}/{nagios,nagios-plugins}

4. Download Software

- wget -O /usr/local/software/src/nagios/3.3.1.tar.gz
<http://www.robertvbolton.com/downloads/2012-UTOSC/software/nagios-3.3.1.tar.gz>
- wget -O /usr/local/software/src/nagios-plugins/1.4.15.tar.gz
<http://www.robertvbolton.com/downloads/2012-UTOSC/software/nagios-plugins-1.4.15.tar.gz>

5. Install Nagios Package

- cd /usr/local/software/src/nagios
- tar -zxf 3.3.1.tar.gz
- mv nagios 3.3.1
- cd 3.3.1
- ./configure --prefix=/usr/local/software/pkg/nagios/3.3.1 --with-command-group=nagcmd
- make all
- make install
- make install-init
- make install-commandmode
- make install-webconf
- make install-classicui
- **make install-exfoliation**
- cd /usr/local/software/pkg/nagios
- ln -s 3.3.1 current

6. Install Nagios Plugins Package

- cd /usr/local/software/src/nagios-plugins

- tar -zxf 1.4.15.tar.gz
- mv nagios-plugins-1.4.15 1.4.15
- cd 1.4.15
- ./configure --prefix=/usr/local/software/pkg/nagios-plugins/1.4.15
--with-nagios-user=nagios --with-nagios-group=nagios
- make
- make install
- cd /usr/local/software/pkg/nagios-plugins
- ln -s 1.4.15 current

7. Set Nagios to Start Automatically

- chkconfig --add nagios
- **chkconfig nagios on**

8. Turn Off SELinux Settings

- setenforce 0
- **# set persistent in /etc/selinux/config**

9. Add Rule to IPTables to Allow HTTP Access

- Edit /etc/sysconfig/iptables
- **# Add under line 9: -A INPUT -m state --state NEW -m tcp -p tcp --dport 80 -j ACCEPT**
- service iptables restart

Nagios Configuration

1. Edit /etc/init.d/nagios as root

- Change line 97 to: prefix=/usr/local/software/pkg/nagios/**current**
- Change line 100 to: NagiosCfgFile=\${prefix}/etc/**conf**/nagios.cfg

2. Download Configuration Files

- cd /usr/local/software/pkg/nagios/current/
- wget <http://www.robertvbolton.com/downloads/2012-UTOSC/config/Nagios-Config-Files.tgz>
- tar -zxf Nagios-Config-Files.tgz
- chown -R nagios:nagios etc
- chmod :apache var/rw/nagios.cmd

3. Add htpass.users file as nagios user

- cd /usr/local/software/pkg/nagios/current/etc
- su nagios
- htpasswd -c htpasswd.users nagiosadmin **# set password**
- exit

4. Test Nagios Conf

- cd /usr/local/software/pkg/nagios/current
- bin/nagios -v etc/conf/nagios.cfg
- service nagios checkconfig

5. Start Nagios

- chkconfig httpd on
- chkconfig nagios on
- service httpd restart
- service nagios restart
- # can also use service nagios reload
- # visit http://<host>/nagios

Cacti Installation

1. Install Prerequisites

- yum install php mysql mysql-server mysql-devel php-mysql httpd net-snmp net-snmp-devel net-snmp-utils gcc rrdtool rrdtool-devel rrdtool-perl rrdtool-php

2. Configure Apache

- chkconfig httpd on
- service httpd start

3. Configure PHP

- cp /usr/lib64/php/modules/* /etc/php.d/ # purpose???

4. Configure MySQL

- chkconfig mysqld on
- service mysqld start
- mysqladmin --user=root password <password>
- mysql -u root -p

4a. At MySQL Prompt:

- CREATE DATABASE cacti;
- GRANT ALL ON cacti.* TO cactiuser@localhost IDENTIFIED BY '<password>';
- FLUSH PRIVILEGES;
- EXIT;

5. Download and Install Cacti

- cd /root
- wget <http://www.robertvbolton.com/downloads/2012-UTOSC/software/cacti-0.8.8a.tar.gz>
- tar -zxf cacti-0.8.8a.tar.gz
- mv cacti-0.8.8a /var/www/html/

- cd /var/www/html/
- ln -s cacti-0.8.8a cacti

6. Create Cactiuser and Change Ownership of Cacti files

- useradd cactiuser
- chown -R cactiuser:cactiuser /var/www/html/cacti-0.8.8a

7. Populate Cacti Database

- Edit /var/www/html/cacti/cacti.sql and add use cacti; at the top of the file
- mysql -u root -p < /var/www/html/cacti/cacti.sql

8. Edit Crontab for cactiuser

- crontab -u cactiuser -e
- Add: */5 * * * * /usr/bin/php -q /var/www/html/cacti/poller.php > /var/log/poller.log 2>&1

9. Create Log File

- touch /var/log/poller.log
- chown cactiuser:cactiuser /var/log/poller.log

10. Change Database Password in Config File

- Edit /var/www/html/cacti/include/config.php
- Change database password on line 30

Spine Installation

1. Download and Compile

- cd /root
- wget <http://www.robertvbolton.com/downloads/2012-UTOSC/software/cacti-spine-0.8.8a.tar.gz>
- tar -zxf cacti-spine-0.8.8a.tar.gz
- cd cacti-spine-0.8.8a
- ./configure
- make
- cp spine /usr/local/bin/
- cp spine.conf.dist /etc/spine.conf

2. Set DB-Pass in /etc/spine.conf

- Edit /etc/spine.conf: Change line 38: DB-Pass

SNMP Configuration

1. Make a back of the original config file

- cp /etc/snmp/snmpd.conf{,.backup}

2. Edit /etc/snmp/snmpd.conf
 - echo "rocommunity testing" > /etc/snmp/snmpd.conf
3. Restart SNMP
 - chkconfig snmpd on
 - service snmpd restart
4. Add SNMP Rule to IPTABLES
 - edit /etc/sysconfig/iptables
 - add under line 11: -A INPUT -p udp --dport 161 -j ACCEPT

Cacti Realtime Plugin

1. Download Plugin
 - wget <http://www.robertvbolton.com/downloads/2012-UTOSC/software/realtime-v0.5-2.tgz>
2. Install Plugin in /var/www/html/cacti/plugins
 - tar -zxf realtime-v0.5.-2.tgz
 - mv realtime /var/www/html/cacti/plugins
3. Create Cache File Directory
 - mkdir /var/www/html/realtime_cache
 - chown apache.apache /var/www/html/realtime_cache
4. Set Cache Directory Path in Cacti - **settings misc**
plugin/management - enable
http://<host>/cacti
default admin:admin

Settings

path:

spine poller: /usr/local/bin/spine
[x] structure RRR path

poller:

poller type: spine