

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: `*/* * * * * /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](#)