Before install Cacti on Centos we need setting up the OS, so let'go..

Disable SELinux (Security-Enhanced Linux)

```
vi /etc/sysconfig/selinux
        SELINUX=disabled
reboot
```

Installing dependencies

```
rpm -ivh http://ftp.jaist.ac.jp/pub/Linux/Fedora/epel/6/i386/epel-release-6-8.noarch.rpm

yum install –y httpd httpd-devel mysql mysql-server php-mysql php-pear php-common php-gd php-devel php php-mbstring php-cli php-mysql php-snmp net-snmp-utils p net-snmp-libs php-pear-Net-SMTP  rrdtool  unzip phpMyAdmin system-config-firewall-tui cronie gcc system-config-firewall-tui autoconf automake libtool dos2unix wget curl tree nano ntp
```

NTP

```
nano /etc/ntp.conf
        tinker panic 0
chkconfig ntpd on
hwclock --systohc
service ntpd start
```

Initialazing services

```
chkconfig httpd on
chkconfig mysqld on
chkconfig crond on
service httpd start
service mysqld start
service snmpd start
/sbin/chkconfig --levels 345 httpd on
/sbin/chkconfig --levels 345 mysqld on
/sbin/chkconfig --levels 345 snmpd on
chkconfig --levels 235 mysqld on
service mysqld start
```

Secure MySQL

```
mysql_secure_installation
```

IpTables, ensure that the following ports are enabled: 80,443,22

Setup APACHE

```
openssl genrsa -out ca.key 2048
openssl req -new -key ca.key -out ca.csr
openssl x509 -req -days 365 -in ca.csr -signkey ca.key -out ca.crt
cp ca.crt /etc/pki/tls/certs
cp ca.key /etc/pki/tls/private/ca.key
cp ca.csr /etc/pki/tls/private/ca.csr
cp /etc/httpd/conf/httpd.conf /etc/httpd/conf/httpd.conf.backup

nano /etc/httpd/conf/httpd.conf
        ServerSignature Off
        ServerTokens Prod
        ServerName localhost:80

        #Redirect everything to HTTPS
        <IfModule !mod_rewrite.c>
        LoadModule rewrite_module modules/mod_rewrite.so</IfModule>
        <IfModule mod_rewrite.c>
        RewriteEngine on
        ReWriteCond %{SERVER_PORT} !^443$
        RewriteRule ^/(.*) https://%{HTTP_HOST}/$1 [NC,R,L]
        </IfModule>
Service httpd restart
```

#Setup PhPMyAdmin

```
nano /etc/httpd/conf.d/phpMyAdmin.conf

        # Allows only localhost by default
        #
        # But allowing phpMyAdmin to anyone other than localhost should be considered
        # dangerous unless properly secured by SSL
        Alias /phpMyAdmin /usr/share/phpMyAdmin
        Alias /phpmyadmin /usr/share/phpMyAdmin
        <Directory /usr/share/phpMyAdmin/>
        <IfModule mod_authz_core.c>
        # Apache 2.4
        <RequireAny>
        Require ip 127.0.0.1
        Allow from 10.0.0.0/24
        Require ip ::1
        </RequireAny>
        </IfModule>
        <IfModule !mod_authz_core.c>
        # Apache 2.2
        Order Deny,Allow
        Deny from All
        Allow from x.x.x.x/x
        Allow from 127.0.0.1
        Allow from ::1
        </IfModule>
        </Directory>
```

Now it's time to install **cacti.**

Install cacti from RPM

```
wget http://download.fedoraproject.org/pub/epel/6/x86_64/epel-release-6-8.noarch.rpm
rpm -ivh epel-release-6-8.noarch.rpm
 yum install cacti
```

CACTI SQL Settings

Enter to https://server-ip/phpmyadmin
create datebase name: cacti
create user:cacti passwd:1q2w3e4r/2014 and grant all privilege on the database "cacti"

Setup Cacti Tables in MySQL

```
find / -name cacti.sql
```

Sample Output

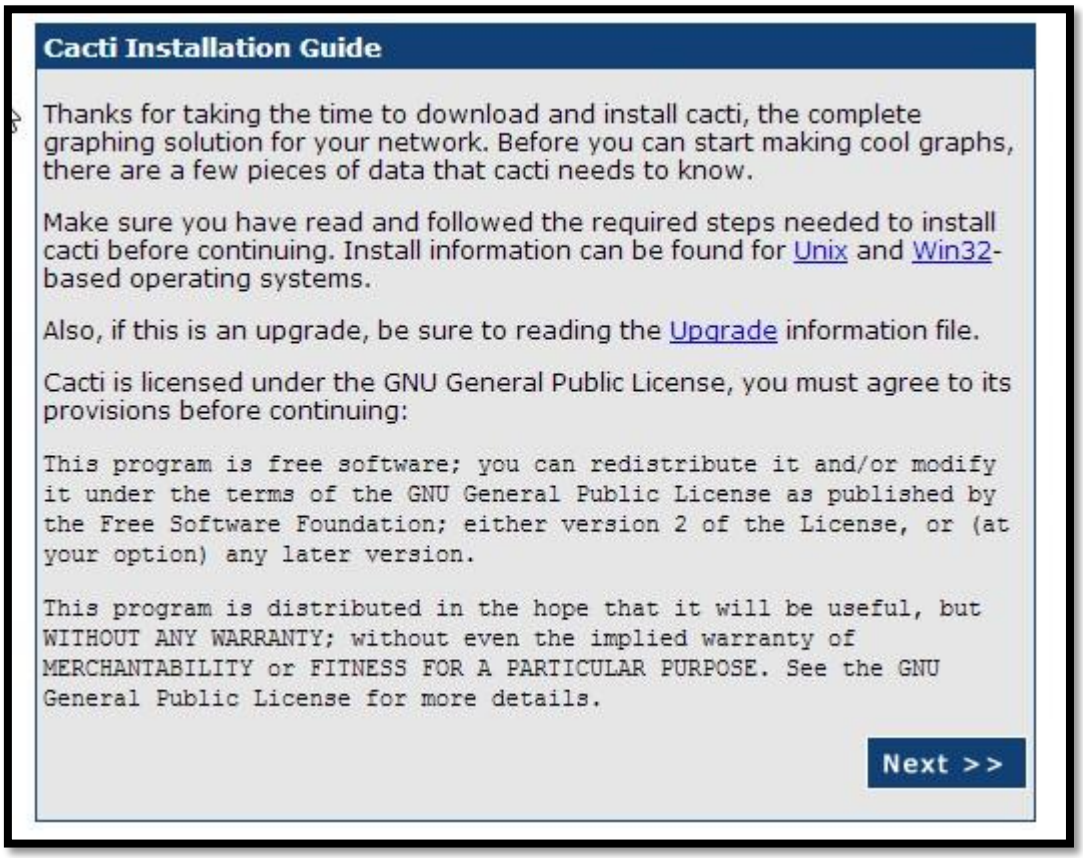
```
/usr/share/doc/cacti-0.8.8b/cacti.sql
#Then
mysql -u cacti -p cacti < /usr/share/doc/cacti-0.8.8b/cacti.sql
nano /etc/cacti/db.php
/* make sure these values reflect your actual database/host/user/password */
$database_type = "mysql";
$database_default = "cacti";
$database_hostname = "localhost";
$database_username = "cacti";
$database_password = "your-password-here";
$database_port = "3306";
$database_ssl = false;
```

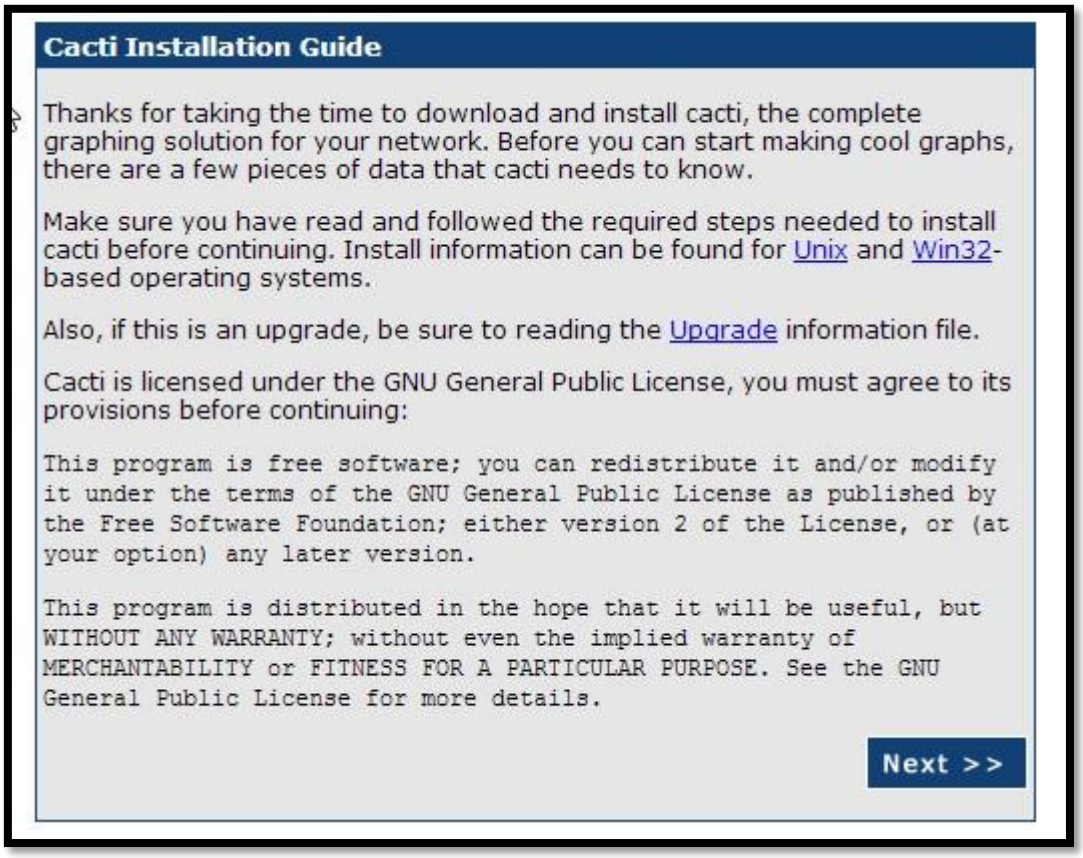
Setting up Apache for CACTI

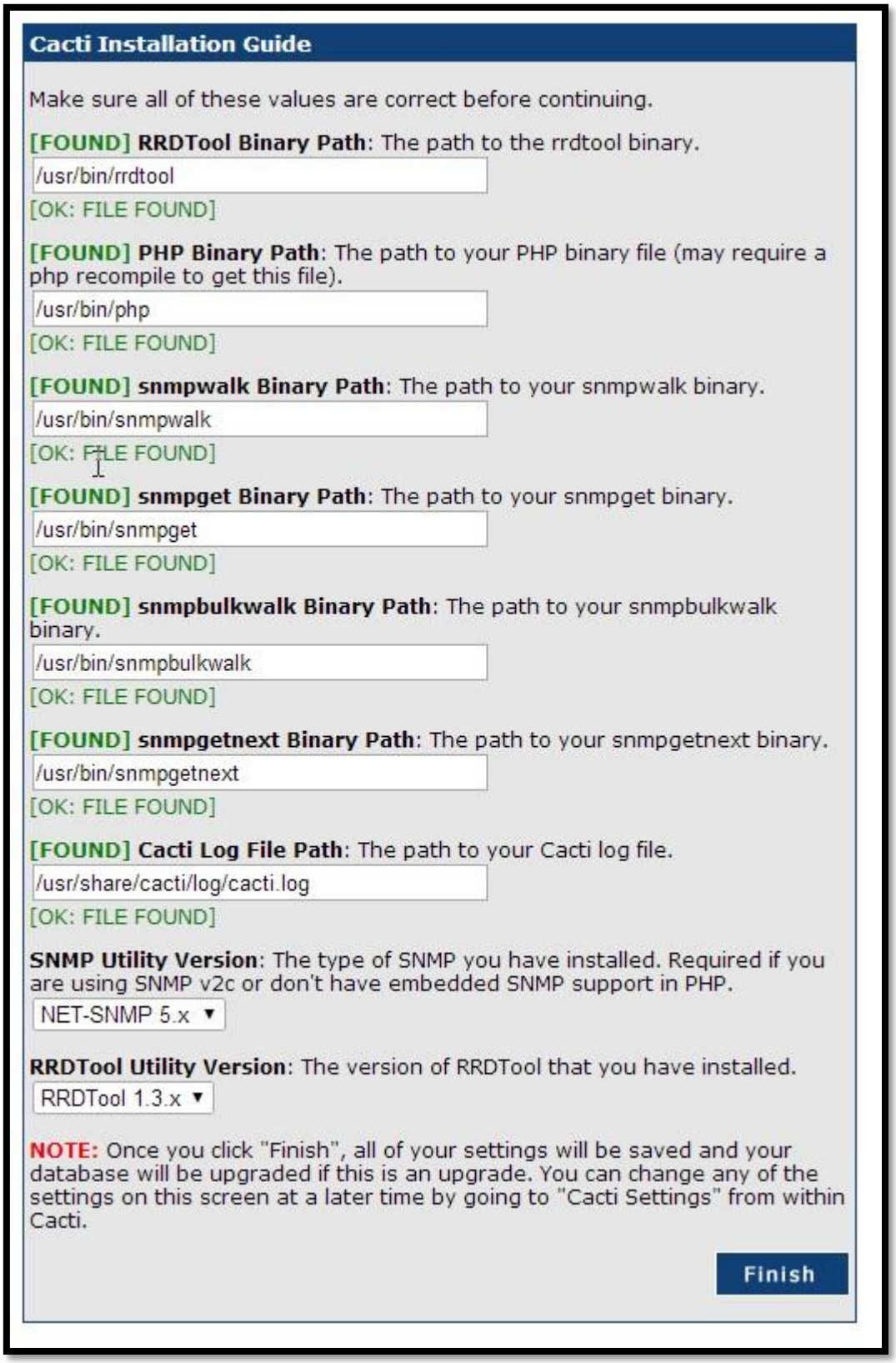
```
Alias /cacti    /usr/share/cacti

<Directory /usr/share/cacti/>
    <IfModule mod_authz_core.c>
        # httpd 2.4
        Require host localhost
    </IfModule>
    <IfModule !mod_authz_core.c>
        # httpd 2.2
        Order allow,deny
        # Deny from all
        Allow from all
        Allow from localhost
    </IfModule>
```

#Go to http://server/ip/cacti




Cacti Installation Guide
Thanks for taking the time to download and install cacti, the complete graphing solution for your network. Before you can start making cool graphs, there are a few pieces of data that cacti needs to know.
Make sure you have read and followed the required steps needed to install cacti before continuing. Install information can be found for Unix and Win32-based operating systems.
Also, if this is an upgrade, be sure to reading the Upgrade information file.
Cacti is licensed under the GNU General Public License, you must agree to its provisions before continuing:
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
Next >>


Cacti Installation Guide
Make sure all of these values are correct before continuing.
[FOUND] RRDTool Binary Path: The path to the rrdtool binary.
/usr/bin/rrdtool
[OK: FILE FOUND]
[FOUND] PHP Binary Path: The path to your PHP binary file (may require a php recompile to get this file).
/usr/bin/php
[OK: FILE FOUND]
[FOUND] snmpwalk Binary Path: The path to your snmpwalk binary.
/usr/bin/snmpwalk
[OK: FILE FOUND]
[FOUND] snmpget Binary Path: The path to your snmpget binary.
/usr/bin/snmpget
[OK: FILE FOUND]
[FOUND] snmpbulkwalk Binary Path: The path to your snmpbulkwalk binary.
/usr/bin/snmpbulkwalk
[OK: FILE FOUND]
[FOUND] snmpgetnext Binary Path: The path to your snmpgetnext binary.
/usr/bin/snmpgetnext
[OK: FILE FOUND]
[FOUND] Cacti Log File Path: The path to your Cacti log file.
/usr/share/cacti/log/cacti.log
[OK: FILE FOUND]
SNMP Utility Version: The type of SNMP you have installed. Required if you are using SNMP v2c or don't have embedded SNMP support in PHP.
NET-SNMP 5.x
RRDTool Utility Version: The version of RRDTool that you have installed.
RRDTool 1.3.x
NOTE: Once you click "Finish", all of your settings will be saved and your database will be upgraded if this is an upgrade. You can change any of the settings on this screen at a later time by going to "Cacti Settings" from within Cacti.
Finish

Installing Plungins

```
cd /usr/share/cacti/plugins
wget http://docs.cacti.net/_media/plugin:monitor-v1.3-1.tgz
wget http://docs.cacti.net/_media/plugin:errorimage-v0.2-1.tgz
wget http://docs.cacti.net/_media/plugin:settings-v0.71-1.tgz
wget http://docs.cacti.net/_media/plugin:discovery-v1.5-1.tgz
wget http://www.network-weathermap.com/files/php-weathermap-0.97a.zip
wget http://docs.cacti.net/_media/plugin:realtime-v0.5-2.tgz
wget http://docs.cacti.net/_media/plugin:nectar-v0.35a.tgz
wget http://docs.cacti.net/_media/plugin:thold-v0.4.9-3.tgz
wget http://docs.cacti.net/_media/plugin:hmib-v1.4-2.tgz
wget http://docs.cacti.net/_media/plugin:syslog-v1.22-2.tgz

mv  plugin:discovery-v1.5-1.tgz discovery-v1.5-1.tgz
mv plugin:errorimage-v0.2-1.tgz errorimage-v0.2-1.tgz
mv  plugin:hmib-v1.4-2.tgz hmib-v1.4-2.tgz
mv plugin:monitor-v1.3-1.tgz monitor-v1.3-1.tgz
mv plugin:nectar-v0.35a.tgz nectar-v0.35a.tgz
mv plugin:realtime-v0.5-2.tgz realtime-v0.5-2.tgz
plugin:settings-v0.71-1.tgz settings-v0.71-1.tgz
mv plugin:syslog-v1.22-2.tgz syslog-v1.22-2.tgz
mv plugin:thold-v0.4.9-3.tgz thold-v0.4.9-3.tgz


tar xzvf discovery-v1.5-1.tgz
tar xzvf monitor-v1.3-1.tgz
tar xzvf errorimage-v0.2-1.tgz
tar xzvf hmib-v1.4-2.tgz
tar xzvf nectar-v0.35a.tgz
tar xzvf realtime-v0.5-2.tgz
tar xzvf realtime-v0.5-2.tgz
tar xzvf settings-v0.71-1.tgz
tar xzvf syslog-v1.22-2.tgz
tar xzvf thold-v0.4.9-3.tgz

rm -rf *.tgz

cd /usr/share/cacti/plugins/realtime
mkdir temp
chmod 777 temp
```

cd /usr/share/cacti/plugins/weathermap
chmod 777 configs
chmod 777 output
nano editor.php
// so that you can't have the editor active, and not know about it.

$ENABLED=true;

find / -name php.ini
/etc/php.ini
nano /etc/php.ini
memory_limit = 768M

Activate Plugins
1. View the cacti website (YOUR-SERVER-IP/Cacti)
2. Click “Plugin Management” on the left
3. Install and activate all plugins excluding Syslog (we will activate syslog in a moment)
4. Click “Settings” on the left
5. Click the “Misc” tab across the top
6. In the “Realtime Graphs” section input “/usr/share/cacti/plugins/realtime/temp” in the “Cache Directory”
7. Click “Save”
8. Check that the “Cache Directory” now shows “[OK: DIR FOUND]”
9. Click the “Visual” tab
10. In the “Watermark” section select “No Grid Fit”
11. Press “Save”
12. Click “Plugin Management” on the left
13. Click “Install” on Syslog
14. Change the “Retention Policy” to 3 Months
15. Click “Install”
16. Click “Activate” on the Syslog plugin

Cache directory

nano /etc/crond.d/cacti

```
*/5 * * * *    cacti   /usr/bin/php /usr/share/cacti/poller.php > /dev/null 2>&1
```

chown -R cacti:cacti /ush/share/cacti/

chmod 777 /var/lib/cacti/rra