

Express-Guide

~to~

Basic Setup of

CACTI

an IT Infrastructure Monitoring Solution



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::Task Detail::

- ◆ Setting up Cacti for IT Infrastructure Service Graphing solution.
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::Background::

Links: <http://www.cacti.net/>

Cacti is a complete network graphing solution designed to harness the power of RRDTool's data storage and graphing functionality. Here RRDTool was supposed to poll data on secured SNMPv3 channels from host and these data will be analyzed on Graphs using Cacti.

::Execution Method::

◆ **Pre-Requisite:**

Installing/Updating all these, at shell (say for Fedora/CentOS)

- `#yum -y install php php-get php-mysql php-pear`
- `#yum -y install php-common php-devel php-mbstring`
- `#yum -y install php-cli php-snmp php-pear-net-smtp`
- `#yum -y install rrdtool httpd mysql mysql-server mysql-devel`
- `#yum -y install net-snmp net-snmp-utils net-snmp-devel net-snmp-libs`

◆ **Steps**

- Configure all the pre-requisites for the settings you wanna be implemented for Cacti (esp. the SNMP Community String)
- Adding required users and groups, at shell
 - `#groupadd cacti`
 - `#useradd -g cacti cactiuser`

- Configuring MySQL server
 - #mysqladmin -u root password **newPassword**
 - #mysql -u root -p\$Whatever_Password_You_Want
 - mysql>CREATE DATABASE cactidb;
 - mysql>GRANT ALL ON cactidb.* TO root;
 - mysql>GRANT ALL ON cactidb.* TO [root@localhost](#);
 - mysql>GRANT ALL ON cactidb.* TO cacti;
 - mysql>GRANT ALL ON cactidb.* TO [cacti@localhost](#);
 - mysql>SET PASSWORD FOR [cactiuser@localhost](#)=PASSWORD('cactiUserPassword');
 - mysql>exit
- Install Cacti
 - #yum -y install cacti
- Prepare database find path for cacti.sql from following command
 - #rpm -ql cacti | grep -i cacti.sql
 Note: suppose it gives "/usr/share/.../cacti.sql" path, then
 #mysql -u cactiuser -p cactidb< /usr/share/.../cacti.sql
- Configure Cacti
 - Open '/etc/cacti/db-php' in any editor, and set values as given
 \$database_type="mysql"
 \$database_default="cactidb"
 \$database_hostname="localhost"
 \$database_username="cactiuser"
 \$database_password="cactiUserPassword"
 \$database_port=3300
- Configure httpd for Cacti
 - Open '/etc/httpd/conf.d/cacti.conf' in any editor, add lines
 #####start of text to add#####
 Alias /cacti /usr/share/cacti
 <Directory /usr/share/cacti>
 Order,Deny,Allow
 Deny from all
 Allow from 192.168.0.0/16
 </Directory>
 #####end of text to add#####
- Setup Cacti cronjob
 - Open '/etc/cron.d/cacti' in any editor, and un-comment the line
 '*/*/*/*/* cacti /usr/bin/php /usr/share/cacti/poller.php > /dev/null 2
 > &1'

- Restart the 'httpd' service, then open 'http://CactiServerIP/cacti' in any browser and follow easy installation method, rectifying any error found.
 - Default username and password to login is admin:admin
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::Tools/Technology Used::

- ◆ Cacti : <http://www.cacti.net/>
 - ◆ Net-SNMP : <http://www.net-snmp.org>
 - ◆ MySQL : <http://dev.mysql.com/downloads/>
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::Inference::

- ◆ Cacti is a brilliant network graphing system, but certain of its dependencies only supported their old version.
 - ◆ They also have a Cacti ready linux-distro CactiEZ which is loaded with many useful plug-ins but when installed, ask nothing for Partition and use the entire HDD with best way easy installation.
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::Troubleshooting/Updates::

- ◆ **Problem:** if during Web Installation part any error comes regarding RRDTool or PHP
Solution: In that portal itself mention the checked paths for them, which should be
RRDTool=/usr/local/rrdtool/bin/rrdtool
PHP=/www/php/bin/php
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