

????



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- [Cacti \[\] \[\]](#)
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???OS dell Dset ????.

Dell cli Tool Dset Dell OS

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($\square\square\square$ OS $\square\square$ \square $\square\square\square$.. $\square\square\square\square$ $\square\square\square$.. $\square\square$)

1. DellDset \ (<http://linux.dell.com>)
2. Dset  

```
[root@localhost ~]# vi delldset_v2.1.0.112_A00.bin
...
...
# rm -rf $_TEMP_ARCHIVE $_TEMP_PACKAGE_GENERATOR $_TEMPDIR 2> /dev/null
# 178  rm -rf  0000 0000 0000 0 00
...
...
00
```

- ```
3. [root@localhost ~]# chmod +x delldset_v2.1.0.112_A00.bin
[root@localhost ~]# ./delldset_v2.1.0.112_A00.bin
Choose an option:
1) Read DSET Release Notes First
Show latest information concerning features and known issues

2) Create DSET Report Only
Creates a DSET report and saves it to user's home directory

3) Clear ESM Hardware Log Only
Only clears the ESM Hardware Log contents

4) Install/Upgrade DSET Application
Permanently installs or upgrades the DSET application for repeat use
```

```
Enter option (1-4) or 'q' to quit: q
```

```
1. 1. 1. quit 1. 1. /tmp 1. delldset 1. 1. 1.
1. 1. .
```

4. 1. 1. 1.

```
ls -l /tmp
total 8
drwx----- 2 root root 4096 Jul 20 13:28 delldset_v2.1.0.112_A00.bin-1288-4067
```

5. dset 1. 1.

```
[root@localhost ~]# cd /tmp/delldset_v2.1.0.112_A00.bin-1288-4067
[root@localhost ~]# yum localinstall delldset-2.1.0-112.i386.rpm
```

6. dellsysteminfo 1. 1.

```
[root@localhost ~]# which dellsysteminfo
/usr/bin/dellsysteminfo
```

```
[root@localhost ~]# vi /usr/bin/dellsysteminfo
1. 1. -
$RpmPath/dset/bin 1. $RpmPath /opt/dell/1. 1. 1.
```

7. dset 1.

```
[root@localhost ~]# dellsysteminfo --time --nologs
error: incorrect format: unknown tag
Dell System E-Support Tool
@Copyright Dell Inc. 2004-2010 Version 2.1 build 112
NOTE: Customer information has not been specified yet.
This information is optional but it can assist Dell Technical Support.
Enter your company name:
* Getting Linux system summary information ...
Gathering Network Information ...
Gathering OS Summary Information ...
```



# Cacti ?? ???

## ??

1. snmp 包 安装 包 包 rrdtool 包 安装 包 (license : GPLv2)
2. simple architecture (  
[https://docs.cacti.net/manual:088:2\\_basics.0\\_principles\\_of\\_operation#basics](https://docs.cacti.net/manual:088:2_basics.0_principles_of_operation#basics) )
3. Cacti 包 : 0.8.8h 包 包 (包 包 ), 2017 年 1 月 1.x 包 包 包  
包 ,  
1.x 包 包 包 UI 包 包 包 包 包 (ex.  
php max\_execution\_time = 60 包 max\_execution\_time = 3600)  
包 包 包 包 包 包 包 1.x 包 包 包 包

## ????

1. cacti spine 包 包 poller 包 包 包 包 , 包 包 包 包 包  
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2. Mysql : 包 包 包 包 , 包 DB 包 包 包 包  
包 包 包 包 包
3. Apache / Mysql : 包 包 包 包 包 包 ,  
包 包 包 包 包 包
4. Apache / php : 包 包 包 包 包 包 , 包 包  
包 包
5. OS 包 Centos 7 包 包 , Centos6 包 包 包 "Cen6 =" 包 包  
包 包
6. Cacti 包 包 包 包

## ????

1. Apache : /usr/bin

2. Apache Config : /etc/httpd/conf/
3. Cacti webapp : /svc/cacti/public\_html/

????

1. 

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```
$> yum install rrdtool httpd net-snmp net-snmp-utils net-snmp-devel php-gd php php-
snmp gd-devel php-mysql php-pdo php-mysqli mariadb-server mariadb-libs -y
```

- Cen6 = mariadb   mysql                                                                                                                                            

1. DB (database / )

```
mysql_install_db --force --user=mysql
Installing MariaDB/MySQL system tables in '/var/lib/mysql' ...
```

```
systemctl start mariadb
```

```
* Cen6 = /etc/init.d/mysql start
```

```
mysql -u root
MariaDB [(none)]> create database cacti;
Query OK, 1 row affected (0.001 sec)
MariaDB [(none)]> grant all privileges on cacti.* to 'cacti'@'localhost' identified
by '{cacti}';
Query OK, 0 rows affected (0.000 sec)
MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.000 sec)
```

2. DB 

|  |  |
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|--|--|--|

```
mysql -u cacti -p
Enter password: {cacti[REDACTED] [REDACTED]}
```

```
MariaDB [(none)]> use cacti;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

```
Database changed
MariaDB [cacti]>
```

### 3. Cacti `listen` ( `listen` )

```
cat /etc/httpd/conf.d/cacti.conf
Listen 8800

<Virtualhost *:8800>
 Documentroot "/svc/cacti/public_html"
 Customlog "logs/cacti-access.log" combined
 errorlog "logs/cacti-error.log"
</Virtualhost>
```

### 4. Apache `Deny` `Deny`

```
vi /etc/httpd/conf/httpd.conf
...
<Directory ></Directory>
 AllowOverride none
 Require all denied <-- Deny from all
</Directory>
...
* Cen6 = Deny from all Deny from all
```

### 5. apache name `localhost` (Option)

```
vi /etc/httpd/conf/httpd.conf
...
ServerName localhost
...
```

### 6. php `date.timezone`

```
#vi /etc/php.ini
...
;date.timezone = --> timezone= Asia/Seoul date.timezone
```

### 7. Cacti webapp `tar` `tar`

```
mkdir /svc/cacti/
wget 'https://www.cacti.net/downloads/cacti-0.8.8h.tar.gz'
tar -zxvf cacti-0.8.8h.tar.gz
```

```
mv cacti-0.8.8h /svc/cacti/public_html
cd /svc/cacti/public_html
```

## 8. Cacti DB 安装

```
mysql -u cacti -p cacti < cacti.sql
Enter password: {cacti数据库 密码}}
* Cacti DB 安装 成功 2211 rows 数据 (2217 rows 数据 成功 安装)
```

rows int(12) NOT NULL default '600', --> 安装成功 rows int(12) NOT NULL default '600', 安装

成功

## 9. DB 配置 (数据库 配置 成功)

```
$> vi /svc/cacti/public_html/include/config.php
...
database_default=数据库名称
database_hostname=DB主机IP
database_username = 数据库 用户 名称
database_password = 数据库 密码
database_port = DB端口
database_ssl = DB SSL 配置
url_path = 数据库 路径 (http://127.0.0.1/cacti/数据库 名称 "/cacti/" 数据库 名称)
```

## 10. Apache 安装 配置 成功 安装 成功

```
#apachectl configtest
OK
systemctl start httpd;systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to
/usr/lib/systemd/system/httpd.service.
* Cent6 = /etc/init.d/httpd start;chkconfig httpd on 安装 成功
```

## 11. 安装 成功 安装 成功 安装 成功

```
$> ps -ef | grep http
root 32439 1 0 17:54 ? 00:00:00 /usr/sbin/httpd -DFOREGROUND
apache 32441 32439 0 17:54 ? 00:00:00 /usr/sbin/httpd -DFOREGROUND
apache 32442 32439 0 17:54 ? 00:00:00 /usr/sbin/httpd -DFOREGROUND
apache 32443 32439 0 17:54 ? 00:00:00 /usr/sbin/httpd -DFOREGROUND
apache 32444 32439 0 17:54 ? 00:00:00 /usr/sbin/httpd -DFOREGROUND
```



```

apache 32445 32439 0 17:54 ? 00:00:00 /usr/sbin/httpd -DFOREGROUND
root 32512 20163 0 17:55 pts/0 00:00:00 grep --color=auto http

$> netstat -antp | grep httpd
tcp6 0 0 :::8800 :::* LISTEN
 32677/httpd

```

12.  URL : http://{ IP}:8800

13. select type of install  new install   Next

14.       Finish

15.    user : admin / password : admin

16.

17. Poller

```

$> /bin/php /svc/cacti/public_html/poller.php
...
$> echo "* * * * * /bin/php /svc/cacti/public_html/poller.php > /dev/null" >>
/var/spool/cron/root

```

# Centos?? HP PSP??

1. hpe.com       
[image-1654668614770.png](#)

2. snmp   

```
$> yum install net-snmp -y
```

3.  

```
$> tar -zxvf hp-psp-8.60-8-CentOS.tar.gz
$> cd psp/CentOS/5/i386/current
```

4. HP PSP   

```
$> yum localinstall ./*.rpm
$> /sbin/hpsnmpconfig
```

This configuration script will configure SNMP to integrate with the HP SIM and the HP System Management Homepage by editing the snmpd.conf file. The HP-SNMP-Agents can also exist in a more secure SNMP environment (e.g. VACM) that you have previously configured. See the hp-snmp-agents(4) man page for specific details on how to configure the VACM entries in the 'snmpd.conf' file. You may press <ctrl+c> now to exit now if needed.

Do you wish to use an existing snmpd.conf (y/n) (Blank is n): ☐

You will now be asked a series of SNMP configuration questions. How you answer these question will affect the way SNMP behaves. Configuring SNMP could have security implications on your system. If you are not sure how to answer a question, you can abort by pressing and no changes will be made to your SNMP configuration.

Enter the localhost SNMP Read/Write community string  
(one word, required, no default): public  
Re-enter the same input to confirm: public  
ACCEPTED: inputs match!

```

Enter localhost SNMP Read Only community string
(one word, Blank to skip):
Enter Read/Write Authorized Management Station IP or DNS name
(Blank to skip):
Enter Read Only Authorized Management Station IP or DNS name
(Blank to skip):
Enter default SNMP trap community string
(One word; Blank to skip):
Enter SNMP trap destination IP or DNS name
(One word; Blank to skip):
The system contact is set to
syscontact Root <root@localhost> (configure /etc/snmp/snmp.local.conf)
Do you wish to change it (y/n) (Blank is n):
The system location is set to
syslocation Unknown (edit /etc/snmp/snmpd.conf)
Do you wish to change it (y/n) (Blank is n):

=====
NOTE: New snmpd.conf entries were added to the top of /etc/snmp/snmpd.conf
=====

snmpd is started

```

## 5. HP PSP `snmp` `snmpd`

```

$> /etc/init.d/snmpd start
$> /etc/init.d/hp-snmp-agents start
$> /etc/init.d/hpsmhd restart
$> /etc/init.d/hp-health start
$> /etc/init.d/hp-asrd start

```

## 6. PSP `snmp` `snmpd` `snmpd`

```

$> netstat -antp | grep hp
...
tcp 0 0 0.0.0.0:2381 0.0.0.0:* LISTEN 9035/hpsmhd
tcp 0 0 0.0.0.0:2301 0.0.0.0:* LISTEN 9035/hpsmhd
...

```

7. PSP [ ] [ ] - [http://\[ \] IP:2381/ \(\[ \] \[ \] \[ \] \[ \] root\[ \] \[ \] \)](http://[ ] IP:2381/ ([ ] [ ] [ ] [ ] root[ ] [ ] ))  
[image-1654668602392.png](http://image-1654668602392.png)

8. psp[ ] [ ] [ ] [ ]

\$> yum erase hp\*

9. HP [ ] [ ] [ ] [ ]

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| [ ]<br>[ ]                     | [ ]<br>[ ]                                                     |
| hp-<br>heal<br>t               | hhp<br>[ ]<br>[ ]<br>[ ]<br>[ ]<br>[ ]<br>[ ]<br>[ ]<br>[ ]    |
| hpo<br>ncfg                    | iLO<br>[ ]<br>[ ]<br>[ ]<br>[ ]<br>[ ]                         |
| hp-<br>snm<br>p-<br>age<br>nts | [ ]<br>[ ]<br>man<br>age<br>men<br>t<br>snm<br>p<br>[ ]<br>[ ] |
| hps<br>mh                      | [ ]<br>[ ]<br>[ ]<br>[ ]<br>[ ]                                |

|                  |                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| hp-smh-templates | <div><div></div><div></div><div></div><div></div></div>                                                                                                                  |
| cpqacuxe         | <div><div><div></div><div></div></div><div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div>               |
| hp-ams           | <div><div>iLO</div><div><div></div><div></div></div><div><div></div><div></div></div><div></div><div><div></div><div></div></div><div><div></div><div></div></div></div> |

# Centos?? zabbix????

OS : Centos6

1. 패키지 설치 : apache, php, mysql

```
$> yum install httpd mysql-server -y
```

2. 패키지 설치

```
$> yum install -y net-snmp net-snmp-devel net-snmp-utils curl-devel libxml2-devel
```

3. 그룹 & 사용자

```
$> groupadd zabbix
$> useradd -g zabbix zabbix

$> tar -zxvf zabbix-2.4.5.tar.gz
$> cd zabbix-2.4.5
$> ./configure \
--prefix=/usr/local/zabbix \
--with-mysql=/usr/local/mysql/bin/mysql_config \
--with-net-snmp \
--with-libcurl \
--with-libxml2 \
--enable-server \
--enable-agent
$> make;make install
```

\* 디렉토리 /usr/local/zabbix, mysql 디렉토리 /usr/local/mysql

4. DB

```
$> mysql -u root
mysql> create database zabbix;
mysql> grant all privileges on zabbix.* to zabbix@localhost identified by 'zabbix1';
mysql> flush privileges;
```

```
mysql> quit
```

```
$> cd database/mysql/
$> mysql -u zabbix -p zabbix < schema.sql
$> mysql -u zabbix -p zabbix < images.sql
$> mysql -u zabbix -p zabbix < data.sql
```

\* MySQL import `mysql -u zabbix -p zabbix < schema.sql`

## 5. Frontend

```
$> vi /usr/local/zabbix/etc/zabbix_server.conf
...
DBName=zabbix
DBUser=zabbix
DBPassword=zabbix1
```

\* `zabbix_server.conf` DBName, DBUser, DBPassword `zabbix` `zabbix` `zabbix` `zabbix`

## 6. Frontend

```
$> cp -ar {zabbix}/frontends/php /usr/local/apache2/htdocs/zabbix
```

## 7. `zabbix` `zabbix` (ID `Admin`, `zabbix`)

```
http://{zabbixIP}/zabbix
```

# dell ?? Open Manage Server Administrator??

[[[ ]]

```
$> wget -q -O - http://linux.dell.com/repo/hardware/OMSA_6.3/bootstrap.cgi | bash
$> yum -y install srvadmin-all
$> /opt/dell/srvadmin/sbin/srvadmin-services.sh start
```

[[[ ]] https://[[ ] IP:1311

[[[ ]] [[ ]] root[[ ]]

[[[ ]] : Dell 2950, Centos 5.8 x86

centos 6[[[ ]] 32[[[ ]] [[ ]] [[ ]] , 64[[[ ]] [[ ]]] [[ ]] ..[[ ]] \_[[ ]]

URL : [http://linux.dell.com/wiki/index.php/Repository/OMSA#Yum\\_setup](http://linux.dell.com/wiki/index.php/Repository/OMSA#Yum_setup)



# PCP??? ??? ?????

## 1. 简介

1. PCP;Performance Co-Pilot 是一个开源的 / 跨平台 / 跨架构 的 性能监控系统。

2. 它可以在 Linux, Windows, Solaris, FreeBSD, OpenSolaris 等操作系统上运行。

3. 它支持多种数据源，如系统调用、内核统计、网络接口等。

4. 它提供了丰富的 API 和工具，方便用户进行性能分析和故障排查。

## 2. 安装和配置

1. 1. pmcd - 性能监控守护进程

2. pmdda - 性能监控数据代理，

3. pmfinfo / pmfstat - 性能监控信息 / 统计 / 报告

2. 配置 性能监控 系统 参数 文件 配置文件 系统 参数

1. 配置 性能监控 系统 参数

[image-1659416994705.png](#)

1. 配置 性能监控 系统 参数

[image-1659416948819.png](#)

2. 配置 性能监控 系统 参数

[image-1659416975056.png](#)

[image-1659416966575.png](#)

## 3. 使用

1. pmcd - 性能监控守护进程

2. pmie - 性能监控信息

3. pmlogger - 性能监控日志

4. pmproxy - ☐ ☐ ☐ ☐ (REST API ☐ )

4. Redhat ☐ ☐ ☐ ☐ ☐ 1.

|                           |                                         |                                                               |                                                                                     |
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| p m c d                   | n $\square$                             | n $\square$                                                   | n $\square$                                                                         |
| p m l o g g e r           | $\square \square \square (\square)$     | n $\square / 1 \mathbf{0} \sim \square$                       | n $\square / 1 \mathbf{0} \sim \square$                                             |
| p m p r o x y             | $\square \square \square (\square)$     | n $\square$                                                   | n $\square / 1 \mathbf{0} \sim \square$                                             |



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|                                                                                                            |                            |                            |                            |
|------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|
| p<br>m<br>l<br>o<br>g<br>g<br>e<br>r<br>□<br>□<br>□                                                        | 1<br>0<br>4<br>M<br>B      | 5<br>2<br>4<br>M<br>B      | 1<br>0<br>4<br>9<br>M<br>B |
| p<br>m<br>l<br>o<br>g<br>g<br>e<br>r<br>□<br>□<br>□<br>□<br>□<br>□<br>□<br>□<br>(<br>1<br>□<br>□<br>□<br>) | 0<br>.<br>3<br>8<br>M<br>B | 1<br>.<br>7<br>5<br>M<br>B | 3<br>.<br>4<br>8<br>M<br>B |
| p<br>m<br>p<br>r<br>o<br>x<br>y<br>□<br>□<br>□                                                             | 2<br>.<br>6<br>7<br>G<br>B | 5<br>.<br>5<br>G<br>B      | 9<br>G<br>B                |

|   |   |   |   |
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| s | G | G | B |
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