

在Linux中监控HP和Dell的服务器(SNMP,Cacti)

公司用cacti监控机房的服务器状态，一般的参数都由现成的cacti模板，但是对于dell,hp等服务器的cpu 温度，核心电压什么的就没有现成的了。经过看hp,dell的文档，将配置方法简单记录一下。

[HP服务器]

1.下载HP System Health Application and Command line Utilities 和HP SNMP Agents For Redha

```
wget ftp://ftp.hp.com/pub/softlib2/software1/pubsw-linux/p1454262787/v48075/hp-health-8.1.1-14.rhel4.i386.rpm
wget ftp://ftp.hp.com/pub/softlib2/software1/pubsw-linux/p1606712459/v48083/hp-snmp-agents-8.1.1-22.rhel4.i386.rpm
```

2.安装hp-health 和hp-snmp-agent

```
rpm -ivh hp-health-8.1.1-14.rhel4.i386.rpm
rpm -ivh hp-snmp-agents-8.1.1-22.rhel4.i386.rpm
```

3.配置hp-snmp-agent

在/etc/snmp/snmpd.conf中加入下列一行

```
dlmod cmaX /usr/lib/libcmaX.so
```

然后重新启动snmp服务

```
/etc/init.d/snmpd restart
```

4.启动hp-health和hp-snmp-agent

```
[root@r2_manage8 ~]# /etc/init.d/hp-health start
Using standard Linux IPMI device driver and hpasm-lite
Starting ipmi drivers: [ OK ]
Starting Proliant Standard
IPMI based System Health Monitor (hpasmlited):[ OK ]
```

```
[root@r2_manage8 ~]# /etc/init.d/hp-snmp-agents start
Starting Health agent (cmahealthd):[ OK ]
Starting Standard Equipment agent (cmastdeqd):[ OK ]
Starting Host agent (cmahostd):[ OK ]
Starting Threshold agent (cmathreshd):[ OK ]
Starting RIB agent (cmasm2d):[ OK ]
Starting Rack agent (cmarackd):[ OK ]
Starting SNMP Peer (cmapeerd):[ OK ]
Starting Storage Event Logger (cmaeventd):[ OK ]
Starting FCA agent (cmacfd):[ OK ]
Starting SAS agent (cmasasd):[ OK ]
Starting IDA agent (cmaidad):[ OK ]
Starting IDE agent (cmaided):[ OK ]
Starting SCSI agent (cmascsid):[ OK ]
Starting NIC Agent Daemon (cmanicd):[ OK ]
```

5.使用snmpwalk获取系统温度

```
[root@r2_manage8]# snmpwalk -v 2c -c public localhost.1.3.6.1.4.1.232.6.2.6.8.1.4
SNMPv2-SMI::enterprises.232.6.2.6.8.1.4.1.1 = INTEGER: 42
SNMPv2-SMI::enterprises.232.6.2.6.8.1.4.1.2 = INTEGER: 35
SNMPv2-SMI::enterprises.232.6.2.6.8.1.4.1.3 = INTEGER: 35
SNMPv2-SMI::enterprises.232.6.2.6.8.1.4.1.4 = INTEGER: 25
```

```
[root@r2_manage8]# hpasmcli -s "SHOW TEMP"
```

```
Sensor Location Temp Threshold
```

```
-----
```

```
#1 PROCESSOR_ZONE 42C/107F 65C/149F
#2 CPU#1 35C/95F 100C/212F
#3 CPU#1 35C/95F 100C/212F
#4 AMBIENT 25C/77F 37C/98F
```

由上边的命令输出我们可以看出来温度对应的OID，这样就可以采用相应的查询来获取我们需要的数据用来给cacti作图。

[Dell服务器]

1.下载dell omsa

```
# mkdir -p /usr/local/omsa
# cd /usr/local/omsa
# wget http://ftp.us.dell.com/sysman/OM\_5.5.0\_ManNode\_A00.tar.gz
```

2.安装OMSA

```
# tar xvf OM_5.5.0_ManNode_A00.tar.gz
# sh linux/supportscripts/srvadmin-install.sh --express
```

Installing the selected packages.

warning: instsvc-drivers-5.4.0-260.i386.rpm: V3 DSA signature: NOKEY, key ID 23b66a9d

```
Preparing... ##### [100%]
 1:srvadmin-omilcore ##### [ 6%]
    To start all installed services without a reboot,
    enter the following command: srvadmin-services.sh start
 2:srvadmin-syscheck ##### [ 11%]
 3:srvadmin-deng ##### [ 17%]
 4:srvadmin-omauth ##### [ 22%]
 5:srvadmin-omacore ##### [ 28%]
 6:srvadmin-jre ##### [ 33%]
 7:srvadmin-racadm4 ##### [ 39%]
 8:srvadmin-racsvc ##### [ 44%]
 9:srvadmin-ipmi ##### [ 50%]
10:srvadmin-hapi ##### [ 56%]
11:srvadmin-isvc ##### [ 61%]
12:srvadmin-rac4-component ##### [ 67%]
13:instsvc-drivers ##### [ 72%]
14:srvadmin-cm ##### [ 78%]
15:srvadmin-iws ##### [ 83%]
16:srvadmin-omhip ##### [ 89%]
17:srvadmin-racdrsc4 ##### [ 94%]
18:srvadmin-storage ##### [100%]
```

3. 启动OMSA服务

```
# sh linux/supportscripts/srvadmin-services.sh start
Starting mptctl:
Waiting for mptctl driver registration to complete:[ OK ]
Starting Remote Access Controller (RAC4) Service... [ OK ]
Starting Systems Management Device Drivers:
Starting dell_rbu:[ OK ]
Starting ipmi driver: [ OK ]
Starting Systems Management Data Engine:
Starting dsm_sa_datamgr32d: [ OK ]
Starting dsm_sa_eventmgr32d: [ OK ]
Starting dsm_sa_snmp32d: [ OK ]
Starting DSM SA Shared Services: [ OK ]
Starting DSM SA Connection Service: [ OK ]
```

4. 重新启动snmp服务

```
# grep 'smuxpeer' /etc/snmp/snmpd.conf
smuxpeer .1.3.6.1.4.1.674.10892.1
```

```
# service snmpd restart
Stopping snmpd: [ OK ]
Starting snmpd: [ OK ]
```

5. 使用snmpwalk查询

```
# snmpwalk -v 2c -c public 218.xx.xx.xxx .1.3.6.1.4.1.674.10892.1.700.20.1.6.1.1
SNMPv2-SMI::enterprises.674.10892.1.700.20.1.6.1.1 = INTEGER: 380
示例中的是Dell PE R200服务器的CPU温度OID
```