Health Checks

Health checks allow you to query different aspects of your system to be alerted of potential issues. A good example is checking the SMART attributes of a hard drive.

Permissions

Some of these checks require elevated permissions, more commonly in Linux to the `sudoers` file.

Nagios Plugins / NRPE / Linux

The following KB articles explain how to add `sudoers` entries and to configure NRPE to execute checks using `sudo`.

Warning: This Plugin Must Be Either Run As Root Or Setuid

NRPE: Unable To Read Output (The Plugin Requires "sudo" Privileges)

Disk Health

Disk health checks can be queried by checking the SMART status.

Nagios Plugins

The `check_ide_smart` plugin is part of Nagios Plugins.

Command:

```
/usr/local/nagios/libexec/check_ide_smart -d /dev/sda
```

Output:

```
OK - Operational (15/15 tests passed)
```

NCPA

NCPA does not includes a SMART disk module.

NSClient++ via check_nt

NSClient++ does not includes a SMART disk module.

NSClient++ via check_nrpe

NSClient++ does not includes a SMART disk module.

WMI

Check WMI Plus includes a checksmart module.

Command:

```
./check_wmi_plus.pl -H 10.25.11.2 -u wmiagent -p Str0ngP@ssw0rd -m checksmart
```

Output:

```
Overall Status - OK - Found 1 Disks(s), 1 OK and 0 failing |'WD-WXXXXXXXXXXX_Reallocated_Sector_Count'=0; 'WD-WXXXXXXXXXXX_Power_On_Time'=441; 'WD-WXXXXXXXXXXX_Temperature'=36; 'WD-WXXXXXXXXXXX_Current_Pending_Sector'=0; 'WD-WXXXXXXXXXXX_Offline_Uncorrectable'=0; OK - Dev#0, WDC WD50000000-0000001, PredictFailure=False, Temperature=36
```

SNMP

Using SNMP to check disk health is possible but requires some additional work that is not possible to cover in this KB article.
Sensors
Sensor data is usually attributed to temperature and fan data.

Nagios Plugins
The check_sensors plugin is part of Nagios Plugins. It uses the program sensors/lm_sensors to interrogate the system hardware like CPU and Motherboard, this can report temperature and fan alerts.

Command:
./check_sensors

Output:
SENSOR CRITICAL - Sensor alarm detected!

NCPA
NCPA does not include any sensor capabilities.

NSClient++ via check_nt
NSClient++ does not include any sensor capabilities.

NSClient++ via check_nrpe
NSClient++ does not include any sensor capabilities.

WMI
Check WMI Plus does not include any sensor capabilities.

SNMP
The check_snmp plugin allows you to target any type of sensor using SNMP. Here is an example of checking the internal temperature sensor on an APC UPS:

Command:
./check_snmp -H 10.25.19.2 -C box293 -P 2c -o PowerNet-MIB::upsHighPrecBatteryTemperature.0 -o 450

Output:
SNMP OK - 391 | PowerNet-MIB::upsHighPrecBatteryTemperature.0=391;450;

The value the UPS returns is in tenths of degrees Celsius. If you wanted to make this easier to read you would need to create a wrapper script to manipulate the results.

Final Thoughts
For any support related questions please visit the Nagios Support Forums at:
http://support.nagios.com/forum/

Posted by: tlea - Wed, Nov 29, 2017 at 12:40 AM. This article has been viewed 1317 times.

Online URL: https://support.nagios.com/kb/article/health-checks-790.html