Dell & HP Server Manager (/w RAID) Monitoring

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8:53 AM

Theory

System and  storage monitoring solution of via **Dell OpenManage** and **HP Insight Manager** using SNMP. This solution uses SNMP self-polling. The monitoring includes: memory, temperature, power supply, storage (RAID), and several more.

Requirements

* 1. System must have Window's SNMP service installed and set with a community string (i.e. public).
     1. The will included 'SNMP Service Setup' script will make the best attempt to install and configure the SNMP service.
  2. Dell servers required Dell OpenManage installed with the SNMP feature.
  3. HP  servers required HP Insight and/or HP Array applications installed.

Installation

* 1. Copy the contents of the 'Install Server Manager Monitoring Solution.sql' file.
  2. Paste the copied contents in to SQLyou.
  3. Select all lines then execute.

Itemize Inventory

LabTech Items

* 1. LT Scripts:
     1. SNMP Service Setup
        1. Location: Scripts > Device Monitoring > Function > SNMP Service Setup
        2. This script will make a best attempt to enable and configure the Windows SNMP service.
  2. LT Searches
     1. Server Management
        1. Searches > Server Management
     2. Dell OpenManage
        1. Searches > Server Management> Dell OpenManage
     3. HP Insight
        1. Searches > Server Management> HP Insight
  3. LT Groups
     1. Server Managers
        1. Groups > Server Managers
     2. Dell OpenManage
        1. Groups > Server Managers > Dell OpenManage
     3. HP Insight Manager
        1. Groups > Server Managers > HP Insight Manager

Remote Group Monitors

Dell OpenManage Group

* 1. SNMP - Dell OM - Storage System Global Status
     1. OID: 1.3.6.1.4.1.674.10892.1.200.10.1.12.1
  2. SNMP - Dell OM - System Chassis Intrusion Status
     1. OID: 1.3.6.1.4.1.674.10892.1.200.10.1.30.1
  3. SNMP - Dell OM - System Chassis Status
     1. OID: 1.3.6.1.4.1.674.10892.1.200.10.1.4.1
  4. SNMP - Dell OM - System Cooling Device Status
     1. OID: 1.3.6.1.4.1.674.10892.1.200.10.1.21.1
  5. SNMP - Dell OM - System EventLogs Status
     1. OID: 1.3.6.1.4.1.674.10892.1.200.10.1.41.1
  6. SNMP - Dell OM - System Global Status
     1. OID: 1.3.6.1.4.1.674.10892.1.200.10.1.2.1
  7. SNMP - Dell OM - System Memory Status
     1. OID: 1.3.6.1.4.1.674.10892.1.200.10.1.27.1
  8. SNMP - Dell OM - System Temperature Status
     1. OID: 1.3.6.1.4.1.674.10892.1.200.10.1.24.1
  9. SNMP - Dell OM - System Voltage Status
     1. OID: 1.3.6.1.4.1.674.10892.1.200.10.1.12.1

HP Insight Manager Group

* 1. SNMP - HP IM - Drive Array Accelerator Status
     1. OID: 1.3.6.1.4.1.232.3.2.2.2.1.2
  2. SNMP - HP IM - Drive Array Control Board Status
     1. OID: 1.3.6.1.4.1.232.3.2.2.1.1.10.2
  3. SNMP - HP IM - Drive Array Logical Drive Status
     1. OID: 1.3.6.1.4.1.232.3.2.5.1.1.6
  4. SNMP - HP IM - Drive Array Smart Status
     1. OID: 1.3.6.1.4.1.232.3.2.5.1.1.57
  5. SNMP - HP IM - Drive Array Spare Status
     1. OID: 1.3.6.1.4.1.232.3.2.4.1.1.3
  6. SNMP - HP IM - Drive Array System Status
     1. OID: 1.3.6.1.4.1.232.3.1.3.0
  7. SNMP - HP IM - System Correctable Memory Errors
     1. OID: 1.3.6.1.4.1.232.6.2.14.11.1.5
  8. SNMP - HP IM - System CPU Fan Status
     1. OID: 1.3.6.1.4.1.232.6.2.6.5.0
  9. SNMP - HP IM - System Fan Status
     1. OID: 1.3.6.1.4.1.232.3.1.4.0
  10. SNMP - HP IM - System Power Supply Status
      1. OID: 1.3.6.1.4.1.232.6.2.9.3.1.5
  11. SNMP - HP IM - System Temperature Status
      1. OID: 1.3.6.1.4.1.232.6.2.6.3.0

Change Log

* 1. 2014-01-01 - Solution Finalized.
  2. 2014-11-11 - Converted to a Dell OM and HP IM monitoring solution.
     1. Added several more OIDs to check.
        1. No longer RAID monitoring.
     2. Added alert message to the monitors.
     3. Fixed some incorrect OIDs.
     4. Change the name of the 'Get Community String' script to 'SNMP Service Setup'.

Authors

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