

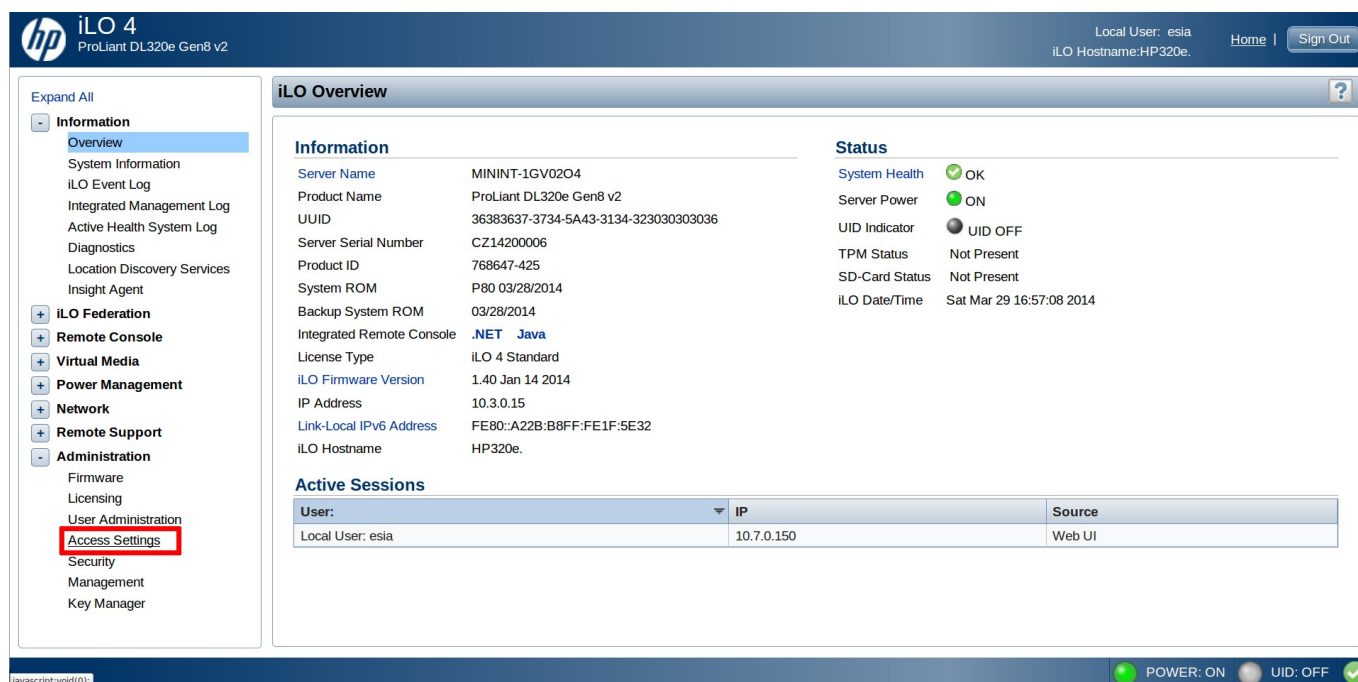
Enabling SNMP on HP iLO4

Version 4 of the HP iLO4 (HP Integrated Lights-Out) system fully implements the SNMP protocol. This makes it possible to directly query and retrieve information from the Proliant server. By simply activating SNMP, you can retrieve :

- The status of the RAID array
- Controller card status
- Disk status
- SMART data for each disk
- Various temperatures (system, ambient, CPU, etc)
- Power supply and fan status
- Model and serial numbers

Enable SNMP

Go to the administration interface of your Proliant G8 and above (here: an HP320e). Click on "Administration" and then on "Access Setting" in the drop-down menu.



Check that "SNMP Access" is set to "Enabled" and that the "SNMP Port" is set to 161, then click "Apply".

hp iLO 4 ProLiant DL320e Gen8 v2 Local User: esia iLO Hostname:HP320e Home | Sign Out

Expand All

- Information
 - Overview
 - System Information
 - iLO Event Log
 - Integrated Management Log
 - Active Health System Log
 - Diagnostics
 - Location Discovery Services
 - Insight Agent
- iLO Federation
- Remote Console
- Virtual Media
- Power Management
- Network
- Remote Support
- Administration
 - Firmware
 - Licensing
 - User Administration
 - Access Settings
 - Security
 - Management
 - Key Manager

Access Settings Language

Service

Secure Shell (SSH) Access	Enabled
Secure Shell (SSH) Port	22
Remote Console Port	17990
Web Server Non-SSL Port	80
Web Server SSL Port	443
Virtual Media Port	17988
SNMP Access	Enabled
SNMP Port	161
SNMP Trap Port	162

Apply

IPMI/DCMI

Enable IPMI/DCMI over LAN on Port 623

POWER: ON UID: OFF

Then click on 'Management' in the 'Administration' section.

hp iLO 4 ProLiant DL320e Gen8 v2 Local User: esia iLO Hostname:HP320e Home | Sign Out

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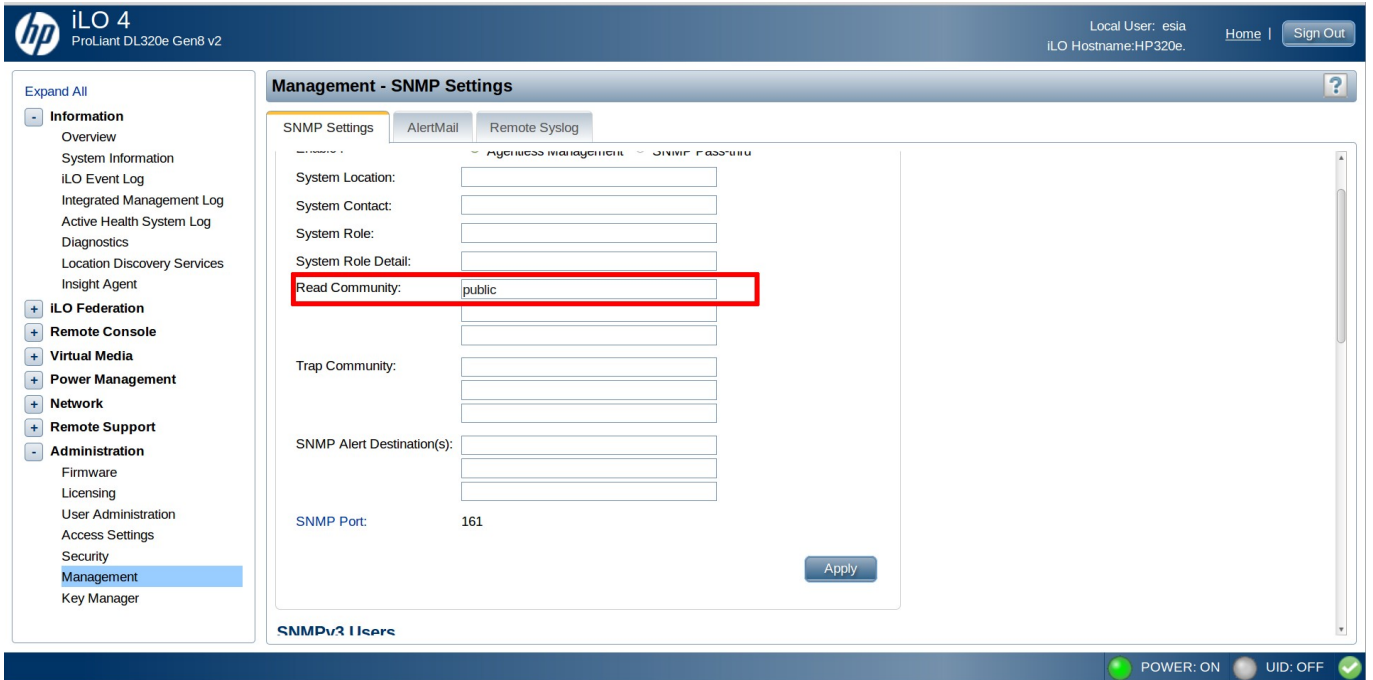
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Enter the SNMP community, in the example it will be “public”, and click on “Apply”.



iLO is now accessible via SNMP on the Esia platform. The associated plugins are :

- GESA_ILO4_SNMP_TEMP: temperature sensor
- GESA_ILO4_SNMP_DISKHEALTH: SMART status, controller, disk and RAID array status
- GESA_ILO4_SNMP_SYSTEMHEALTH: fan, CPU and power supply status

You can add these services via your usual management interface.

Proprietary OIDs used

CPQHLTH-MIB

cpqHeFltToIFanEntry

Fan monitoring input (FAN)

Name	Identifier
cpqHeFltToIFanIndex	1.3.6.1.4.1.232.6.2.6.7.1.2
cpqHeFltToIFanLocale	1.3.6.1.4.1.232.6.2.6.7.1.3
cpqHeFltToIFanSpeed	1.3.6.1.4.1.232.6.2.6.7.1.6
cpqHeFltToIFanCondition	1.3.6.1.4.1.232.6.2.6.7.1.9

cpqHeFltToIFanLocale (1.3.6.1.4.1.232.6.2.6.7.1.3)

Gives the location of the fan defined by the index.

Possible values:

- 1 = other
- 2 = unknown
- 3 = system
- 4 = systemBoard
- 5 = ioBoard
- 6 = cpu
- 7 = memory
- 8 = storage
- 9 = removableMedia
- 10 = powerSupply
- 11 = ambient
- 12 = chassis
- 13 = bridgeCard

cpqHeFitToIFanSpeed (1.3.6.1.4.1.232.6.2.6.7.1.6)

Gives the speed of a fan (FAN) on an HP server.

Possible value :

- 1 = other
- 2 = normal
- 3 = high

cpqHeTemperatureEntry

Input for monitoring temperature sensors on HP servers

Name	Identifier
cpqHeTemperatureIndex	1.3.6.1.4.1.232.6.2.6.8.1.2
cpqHeTemperatureLocale	1.3.6.1.4.1.232.6.2.6.8.1.3
cpqHeTemperatureCelsius	1.3.6.1.4.1.232.6.2.6.8.1.4
cpqHeTemperatureThreshold	1.3.6.1.4.1.232.6.2.6.8.1.5

cpqHeTemperatureLocale (1.3.6.1.4.1.232.6.2.6.8.1.3)

Location of the temperature sensor on an HP server.

Possible value :

- 1 = other
- 2 = unknown
- 3 = system
- 4 = systemBoard
- 5 = ioBoard
- 6 = cpu
- 7 = memory

```
8 = storage
9 = removableMedia
10 = powerSupply
11 = ambient
12 = chassis
13 = bridgeCard
```

<HTML>

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<h2>Sources</h2>
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</HTML> OIDVIEW : <http://www.oidview.com/mibs/232/CPQHLTH-MIB.html>

mibsearch : <http://www.mibsearch.com/vendors/Compaq/mibview/CPQHLTH-MIB>

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