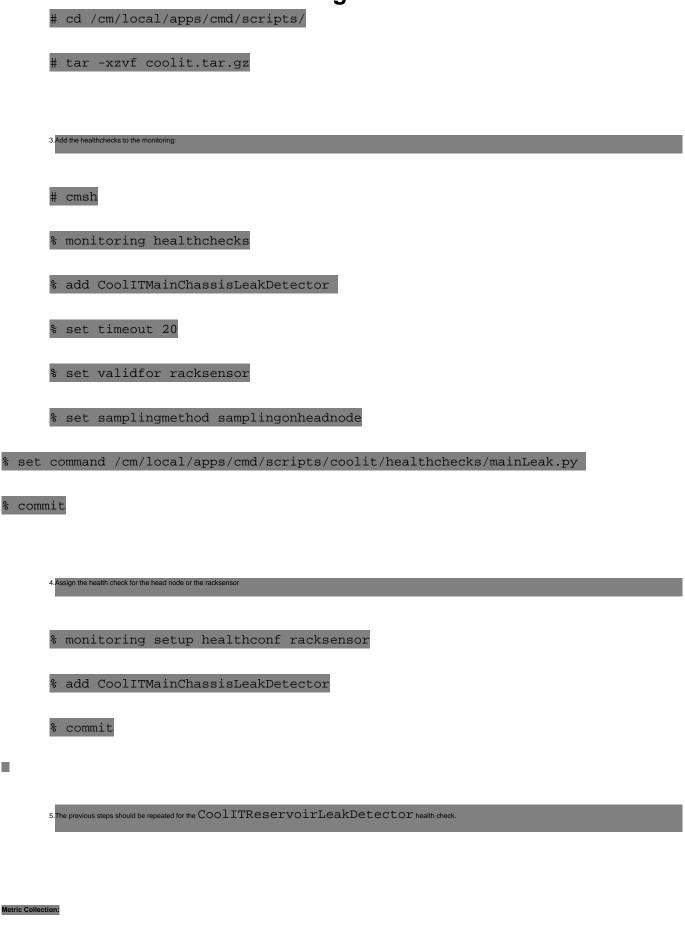
How can I monitor a CoolIT rack with Bright? Assumptions: he CoollT rack sensors directly. If the head node doesn't have direct access to the CoollT rack sensors, then a static route should be set up through an intermediate host which has a direct Monitoring Host: Monitoring protocol: "SNMPv2-SMI::enterprises.30518.16.2.1.2": used to retrieve sensor names "SNMPv2-SMI::enterprises.30518.16.2.1.3": used to retrieve sensor units "SNMPv2-SMI::enterprises.30518.16.2.1.4": used to retrieve the multipliers of the sensor values' "SNMPv2-SMI::enterprises.30518.16.2.1.5": used to retrieve sensor real values "SNMPv2-SMI::enterprises.30518.16.2.1.7": used to retrieve sensor minimum values

"SNMPv2-SMI::enterprises.30518.16.2.1.7": used to retrieve sensor maximum values
Notes
* The max/min values are set to very high/very low. Simply remove the alarm from operation.
*Values for pressure, temperature and flow retrieved from the SNMP need to be divided by the multipliers (1000 for all cases).
Health checks:
The health checks have been implemented as generic scripts in python in the sense that they run on the head node given the IP address of their host, which is the IP address of the rack sensor (CMD_IP), and run the health check against this IP address.
Available health checks:
1. CoollTMainChassisLeakDetector: responsible for detecting any leakage in the main chassis of the rack. Assuming "0" is a "no leak" value, then the script will PASS the check if the value of the OID is zero, and otherwise the check will FAIL and an "Attention Needed" message is shown.
2. CoollTReservoirLeakDetector: responsible for detecting any leakage in the reservoir. Assuming "0" is a "no leak" value, the script will PASS the check if the value of the OID is zero and otherwise the
check will FAIL and an "Attention Needed" message is shown.
Setup Health Checks:
Download the health checks from the following link:
<pre># cd /cm/local/apps/cmd/scripts/</pre>
# wget -c <a href="http://support.brightcomputing.com/coolit/coolit.tar.gz">http://support.brightcomputing.com/coolit/coolit.tar.gz</a>
2.Unpack the tar.gz file under /cm/local/apps/cmd/scripts/



#### Available metrics under metric collections script

### CoolITMetricCollection

- 1. CoolIT\_24\_V\_Power
- 2. CoolIT\_Ambient\_Temperature
- 3. CoolIT\_Dew\_Point\_Temp
- 4. CoolIT\_Flow
- CoolIT\_Humidity
- 6. CoolIT\_Pressure\_Delta
- 7. CoolIT\_Primary\_Return\_Temp
- 8. CoolIT\_Primary\_Supply\_Temp
- 9. CoolIT\_Proportional\_Control
- 10. CoolIT\_Pump1
- 11. CoolIT\_Pump2
- 12. CoolIT\_Reservoir\_Pressure
- 13. CoolIT\_Secondary\_Pressure
- 14. CoolIT\_Secondary\_Return\_Temp
- 15. CoolIT\_Secondary\_Supply\_Temp

#### Setup Metric Collection:

- # wget -c http://support.brightcomputing.com/coolit/coolit.tar.gz

  2.Unpack the tar.gz file under /cm/local/apps/cmd/scripts

  # cd /cm/local/apps/cmd/scripts

  # wget -c http://support.brightcomputing.com/coolit/coolit.tar.gz
- % monitoring metrics

# cmsh

% add CoolITMetricCollection
% set timeout 20
% set validfor racksensor
% set samplingmethod samplingonheadnode
<pre>% set command /cm/local/apps/cmd/scripts/coolit/metrics/coolIT-metrics.py</pre>
% commit
4. Assign the health check for the head node or the racksensor
% monitoring setup metricconf racksensor
% add CoolITMetricCollection
% commit
Adding racksensors through cmsh:
# cmsh
<pre>% device add racksensor coolit001</pre>
% set ip 10.243.63.4
<pre>\$ set network internalnet</pre>
% commit
cmgui
A CMGUI client revision earlier than r6758 should not be used.
Unique solution ID: #1285

Unique solution ID: #1285 Author: Frank Furter

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