LibreNMS



All in one network graphing and monitoring

Network Monitoring and Management

Network Startup Resource Center



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LibreNMS

- SNMP-based auto-discover network monitoring
- Derived from Observium
- Written in PHP as a web application
- •Includes support for a wide range of hardware:
 - Cisco, Linux, FreeBSD, Juniper, Brocade,
 Foundry, HP and many more





Available metrics

- CPU, memory and storage statistics
- Interface traffic, packet and detailed error statistics
- Temperature, fan speed, voltage, amperage, power humidity and frequency sensors
- Users, processes, load average and uptime statistics





Available metrics cont.

- Linux distribution detection
- Real-time interface traffic graphing
- •Device inventory collection (useful!)
- Detailed IPv4, IPv6, TCP and UDP stack statistics
- BGP And OSPF information
- Mac and IP address information





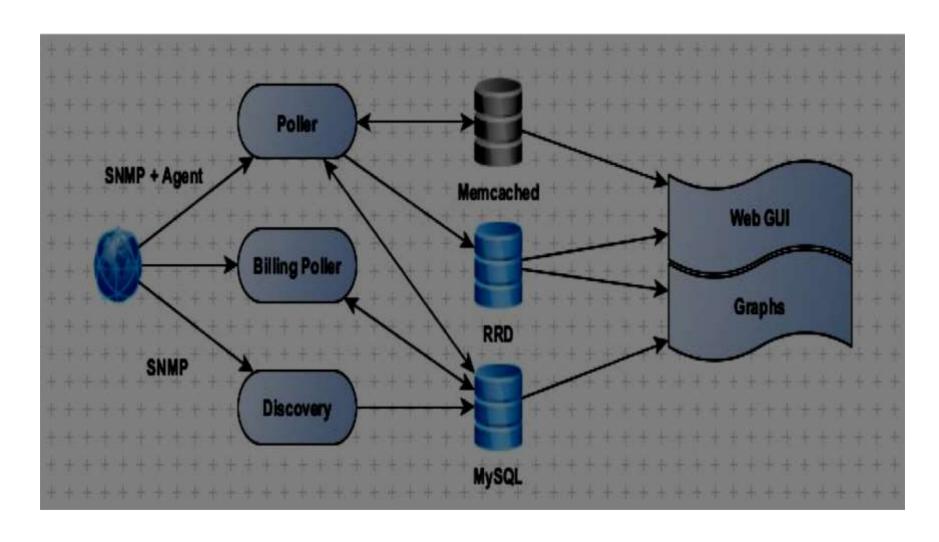
Features

- Many already supported devices
- Host monitoring well supported using check_mk and support scripts
- Application monitoring using SNMP
- Billing module
- Integration with other tools:
 - Smokeping, collectd, syslog (receive logs from devices)





Architecture







Availability

Librenms

- •Fork of Observium. Open Source, Free and GPL
- •https://github.com/librenms/librenms
- https://github.com/librenms/librenms/blob/master/d oc/Observium Welcome.md





Availability

Observium

Open Source (free) vs. "Professional" (paid) versions

- http://www.observium.org/
- •http://www.observium.org/wiki/Edition_Split



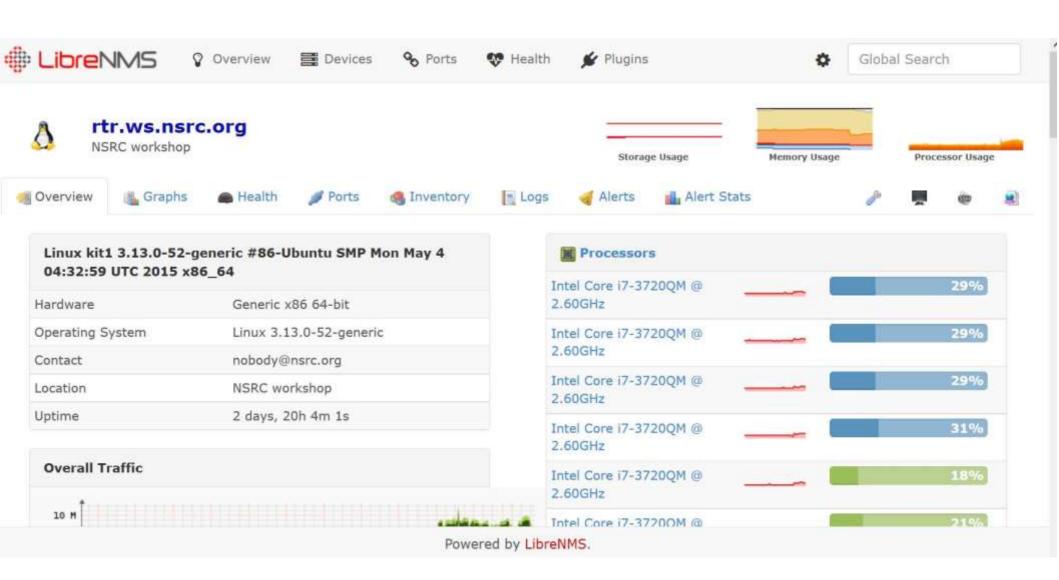


Screen shots

These are from the LibreNMS installed in our class noc and will be similar to the install you will do.

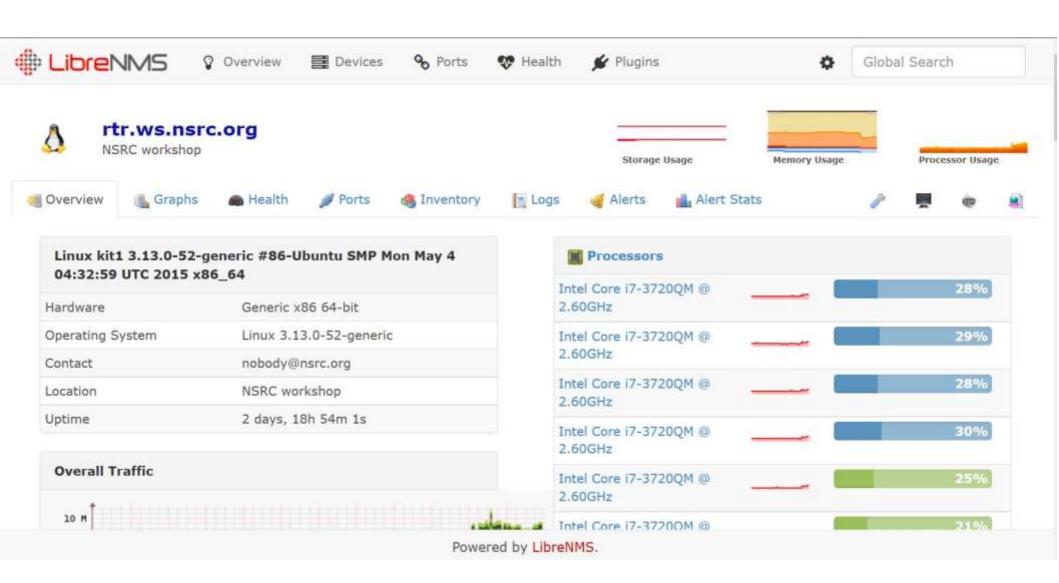






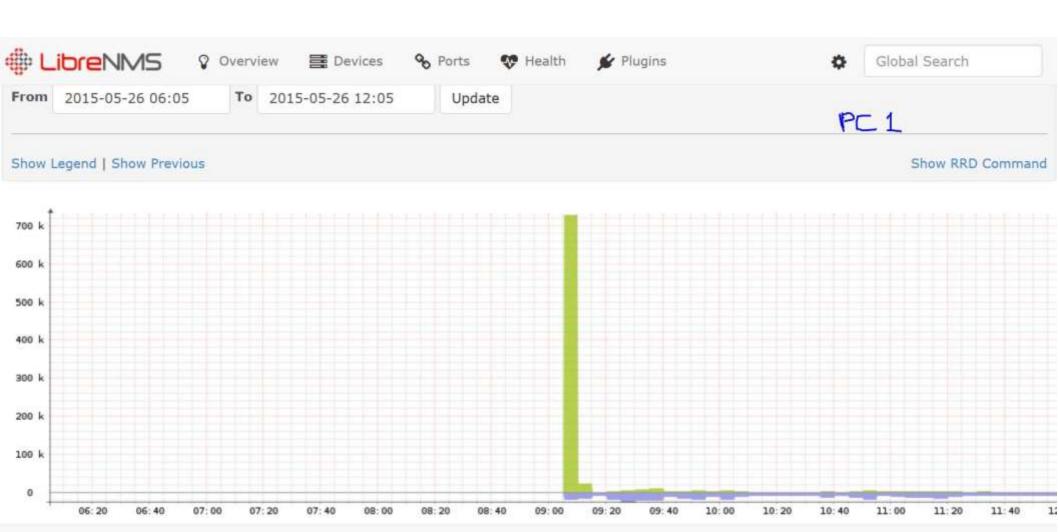








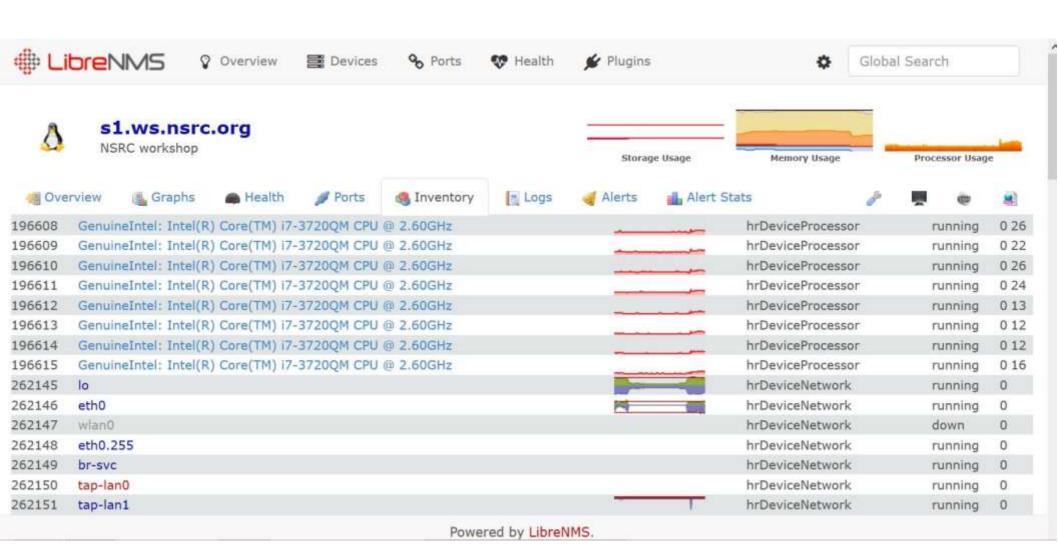




Powered by LibreNMS.

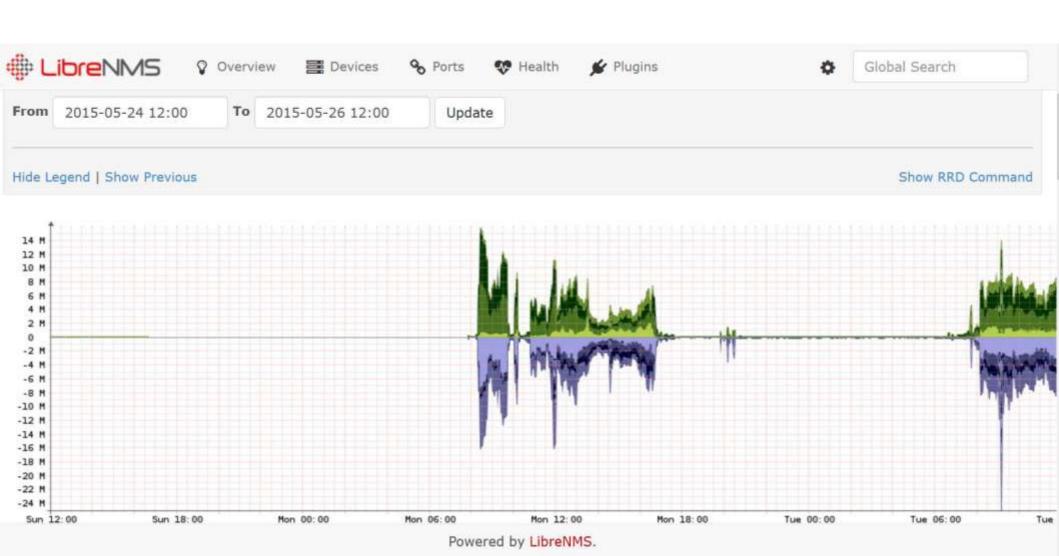
















Online Librenms demo

Is available at:

https://demo.librenms.org/

Workshop installation is at:

http://librenms.ws.nsrc.org





Questions

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