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
 - See
 http://www.observium.org/wiki/Supported Devices





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





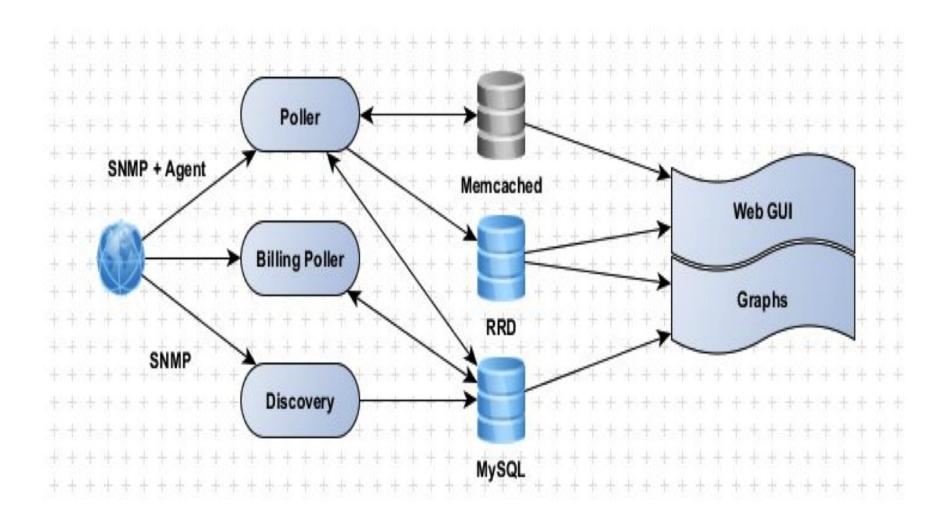
Features

- Concept of enabled vs. ignored
- 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/mast er/doc/General/Welcome-to-Observium-users.md



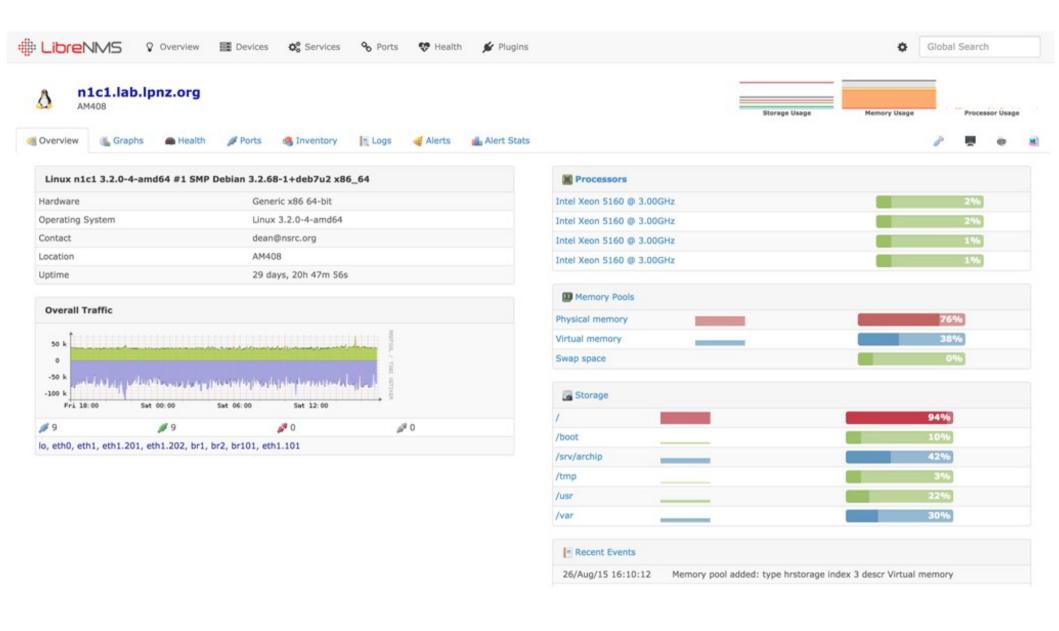


Screen shots

These are from LibreNMS. This is the version we will use in class and in our labs.

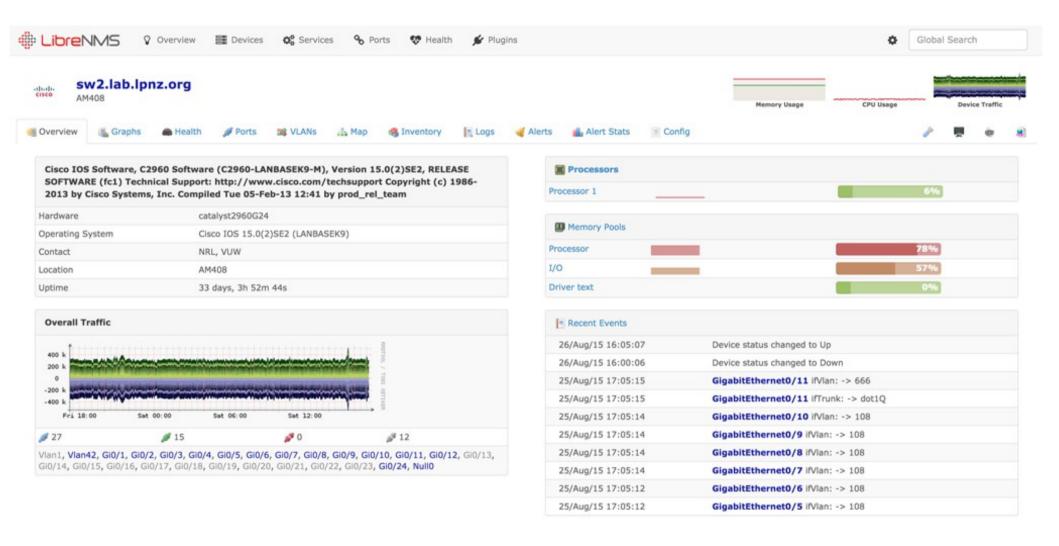


















Thu 12:00

Fri 00:00

Fri 12:00

Wed 12:00

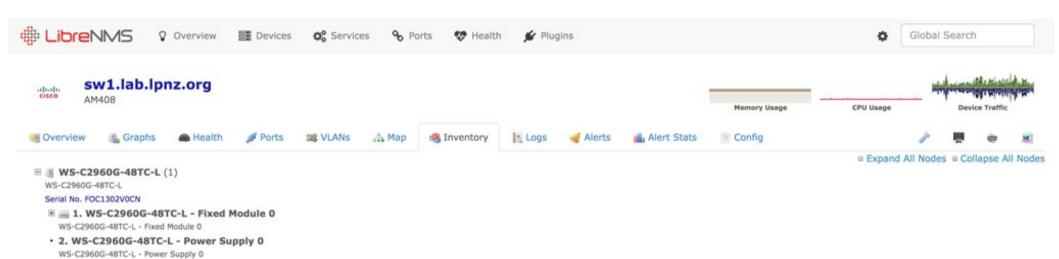


Sun 12:00

-60 M

Sun 00:00



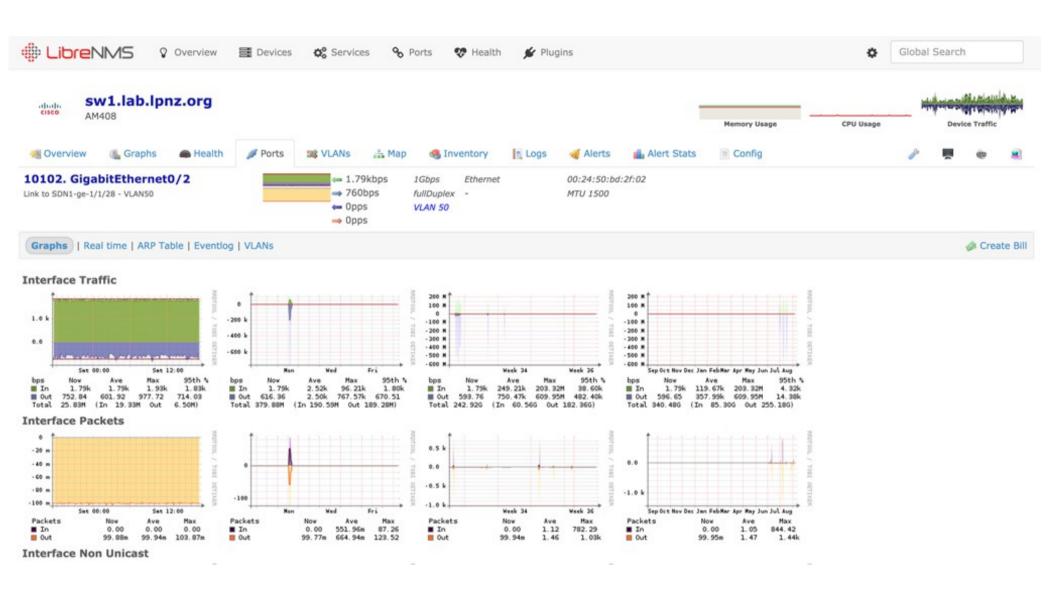




Serial No. AZS125207BS

 3. WS-C2960G-48TC-L - Fan 0 WS-C2960G-48TC-L - Fan 0









Online LibreNMS demo

Is available at:

https://demo.librenms.org/

Workshop installation is at:

http://librenms.ws.nsrc.org/





Questions

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