

Network Management & Monitoring

Observium: all in one network graphing and monitoring



Observium

- Autodiscovering SNMP based network monitoring tool
- Written in PHP (web application)
- Includes support for a wide range of network hardware and operating systems including:
 - 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.

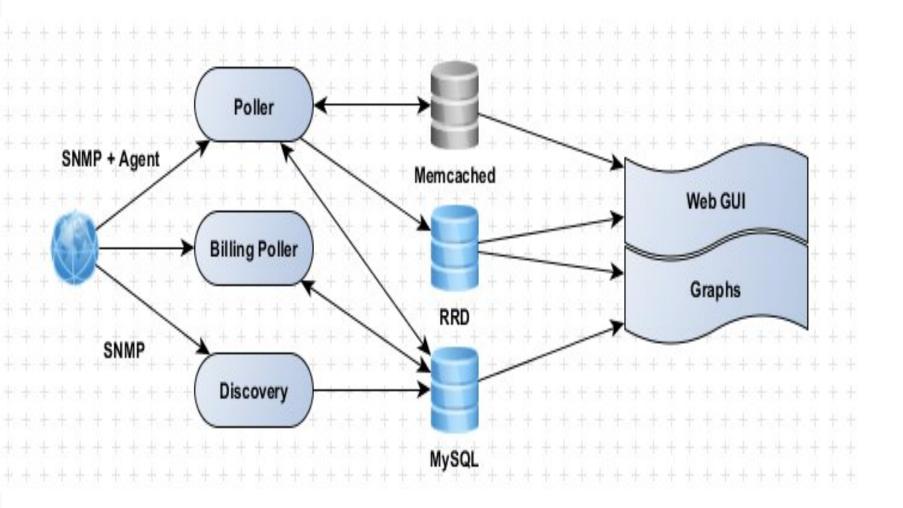
Available metrics

- Linux distribution detection.
- Real-time interface traffic graphing.
- Device inventory collection (very useful!)
- Detailed IPv4, IPv6, TCP and UDP stack statistics.
- BGP and OSPF statistics.
- MAC / IP

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 integration, collectd as well
- Syslog integration (receive logs from devices)

Architecture



Availability

- Open source
- •http://www.observium.org/wiki/Main_Page



Ports: 140 (89 up 3 down 5 ignored 42 shutdown)

Overview

B Devices

Services

Locations

Ports

Health

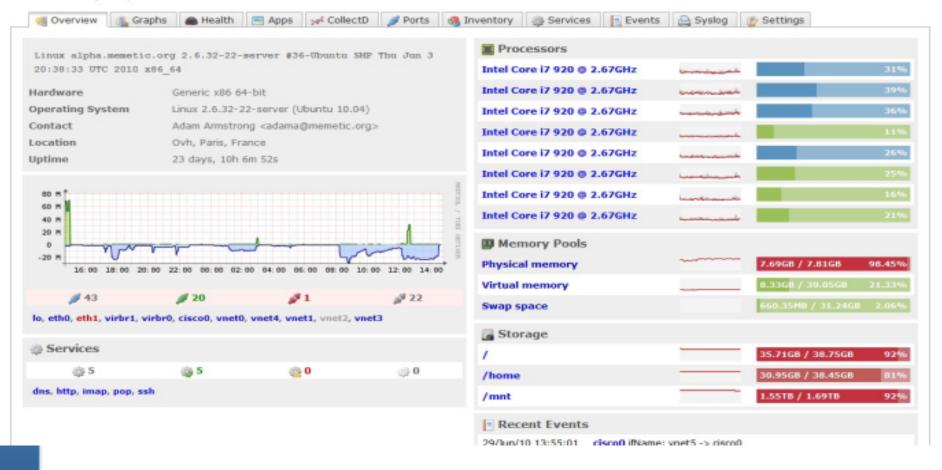
600 BGP Sessions

& System



alpha.memetic.org

Ovh, Paris, France





Devices: 17 (12 up 3 down 2 ignored 2 disabled) Ports: 140 (89 up 3 down 5 ignored 42 shutdown)

Devices

Services

Locations

Ports

Health

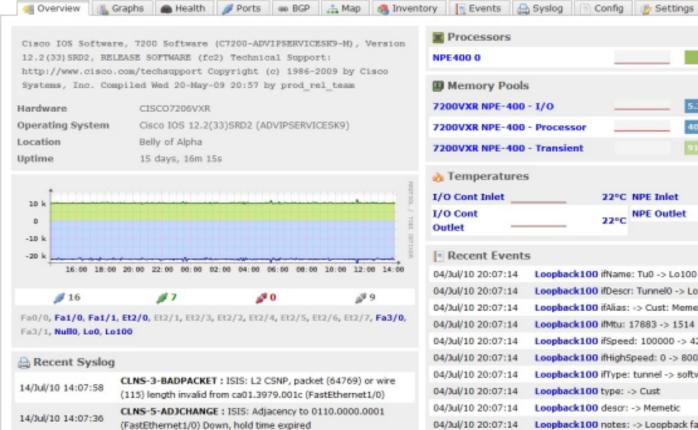
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J System

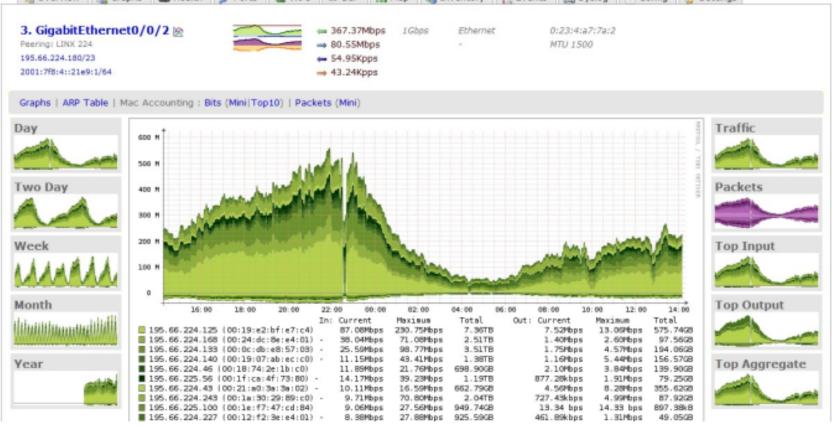
Overview

cisco0.vm

Belly of Alpha

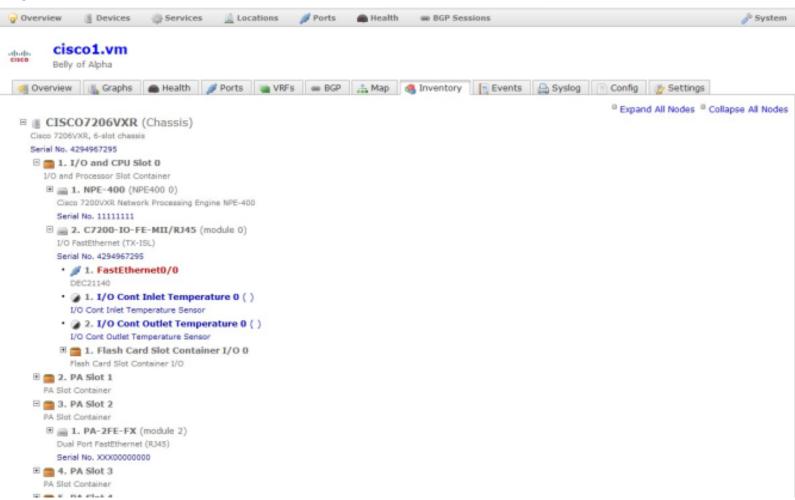


| Processors | | | | | |
|---------------------|-------------|----------|---------------|---------------------|-----------|
| NPE400 0 | | | | | 10% |
| Memory Pools | | | | | |
| 7200VXR NPE-400 | 1/0 | _ | | 5.38HB / 16HB | 33.66% |
| 7200VXR NPE-400 | Processor | | | 40.02MB / 151.46 | 48 26,42% |
| 7200VXR NPE-400 | Transient | | | 91.5KB / 16MB | |
| | | | | | |
| I/O Cont Inlet | | 22°C | NPE Inlet | | 22°C |
| I/O Cont Outlet | | 22°C | NPE Outle | t | 22°C |
| Recent Events | ; | | | | |
| 04/Jul/10 20:07:14 | Loopback100 | ifName | : Tu0 -> Lo1 | 100 | |
| 04/Jul/10 20:07:14 | Loopback100 | ifDesc | r: Tunnel0 -> | Loopback100 | |
| 04/Jul/10 20:07:14 | Loopback100 | ifAlias: | -> Cust: Me | metic (Loopback fal | ce) |
| 04/Jul/10 20:07:14 | Loopback100 | ifMtu: | 17883 -> 15 | 14 | |
| 04/Jul/10 20:07:14 | Loopback100 | ifSpee | d: 100000 -: | 4294967295 | |
| a dead to to in it. | | Minho | inpod: 0 -> 1 | 8000 | |
| 04/Jul/10 20:07:14 | Loopback100 | imigri | peeu. o -> | | |
| | | | | oftwareLoopback | |
| 04/Jul/10 20:07:14 | | ifType | tunnel -> s | | |



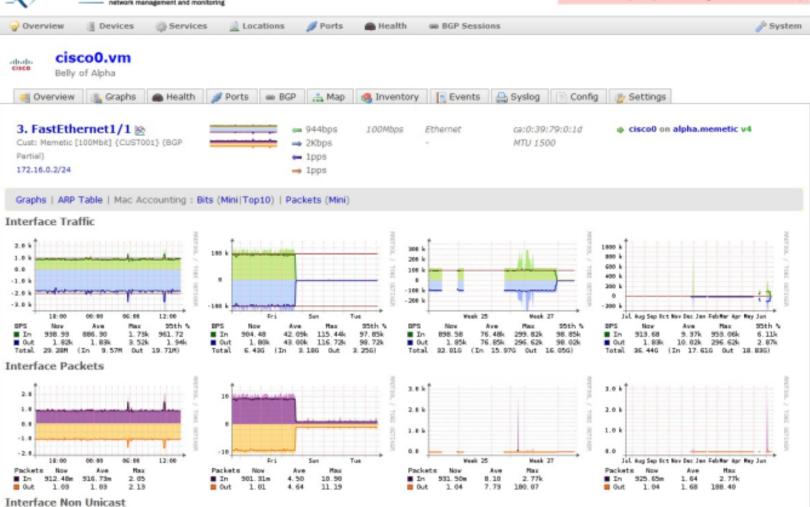


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Ports: 140 (89 up 3 down 5 ignored 42 shutdown)





Ports: 140 (89 up 3 down 2 ignored 2 disabled)



Questions?