

# 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.

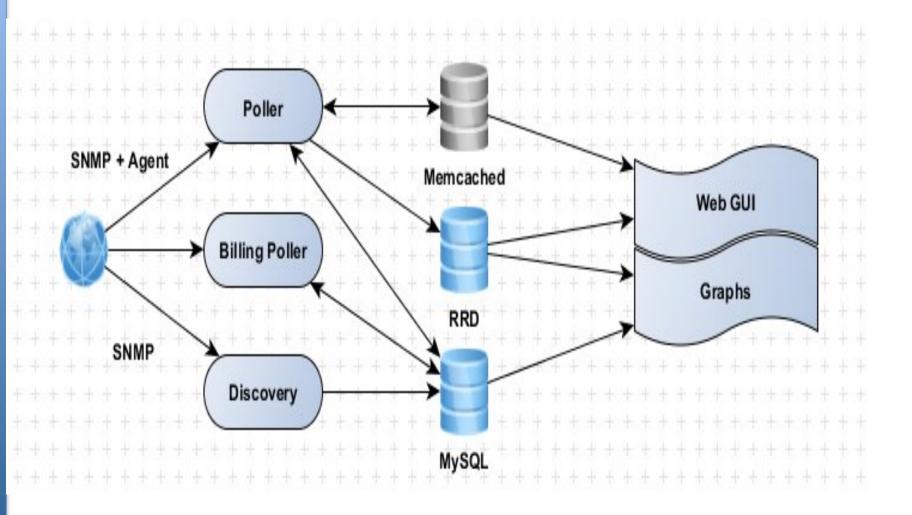
### Available metrics

- 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

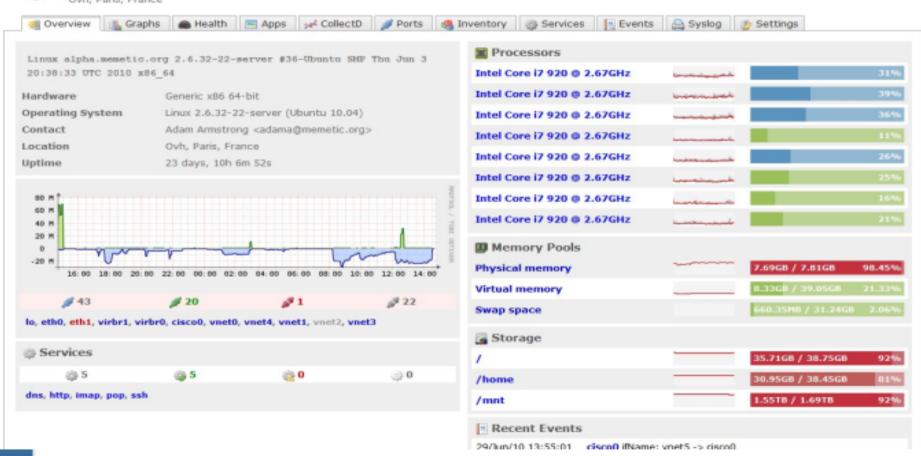


Ports: 140 ( 89 up 3 down 2 ignored 2 disabled )



#### alpha.memetic.org

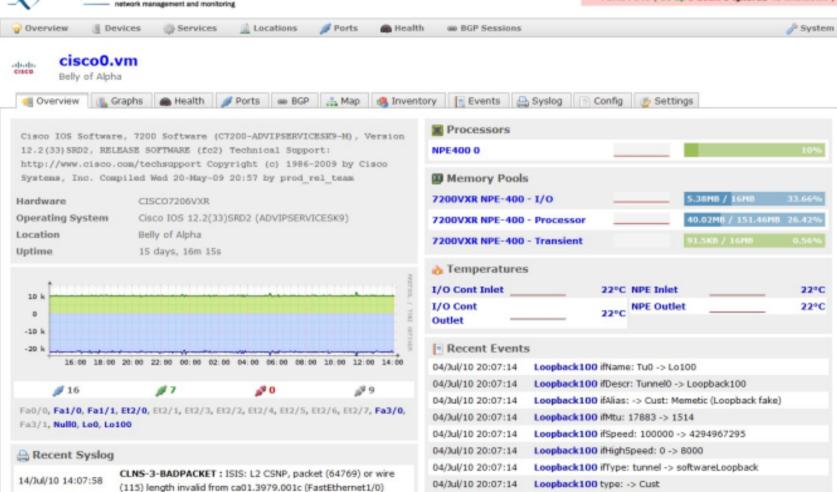
Ovh, Paris, France





14/Jul/10 14:07:36

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



CLNS-5-ADJCHANGE: ISIS: Adjacency to 0110.0000.0001

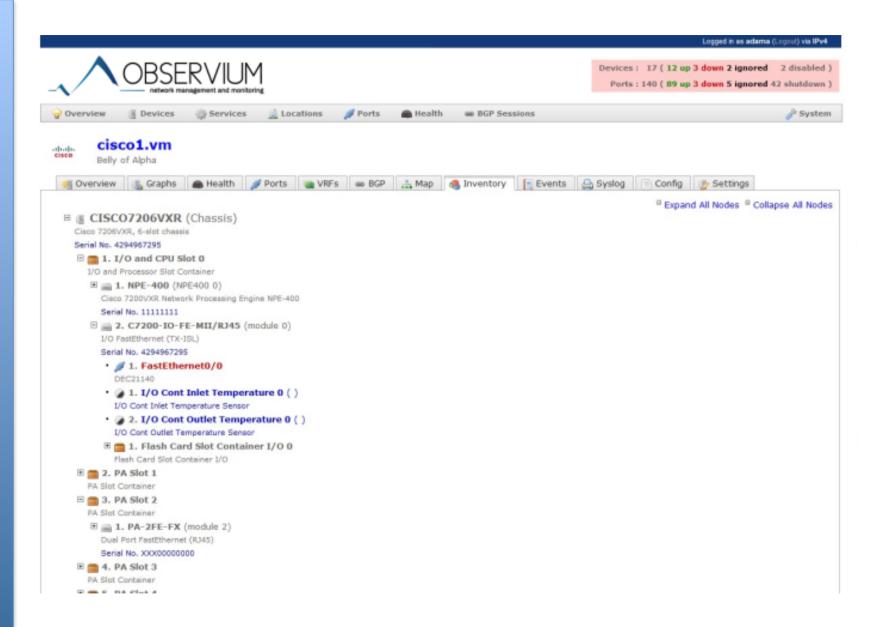
(FastEthernet1/0) Down, hold time expired

04/Jul/10 20:07:14

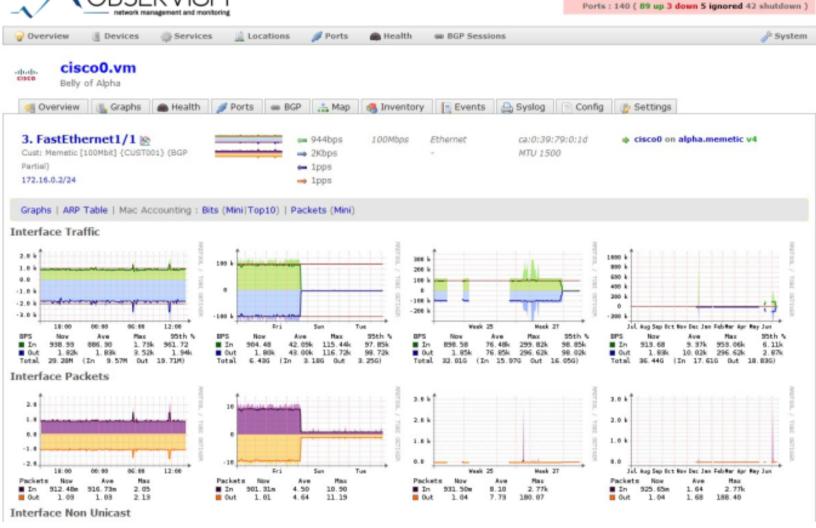
04/Jul/10 20:07:14

Loopback100 descr: -> Memetic

Loopback100 notes: -> Loopback fake







# Questions?