SNMP Management

Gateway to the monitoring world

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Simple What? (.1.3.6.1)

O Industry standard tool for retrieving information from a device or software stack on a network.

SNMP Breakdown

- Agent (net-snmp, systemEDGE, others)
- O Client (net-snmp, rubysnmp, pysnmp,...)
- O Mibs
- O Oids
- Monitoring Software (Software that uses a client)

Mibs

- Database of all oids you can access
- You must download a Mib to resolve the oid to a meaningful name.
- Provided by Hardware or Software vendor
 - O Jboss, Oracle, HP, Dell, Cisco

Object Identifier (OID)

- Object that holds a single value
- O Tables
- String, Numbers, boolean

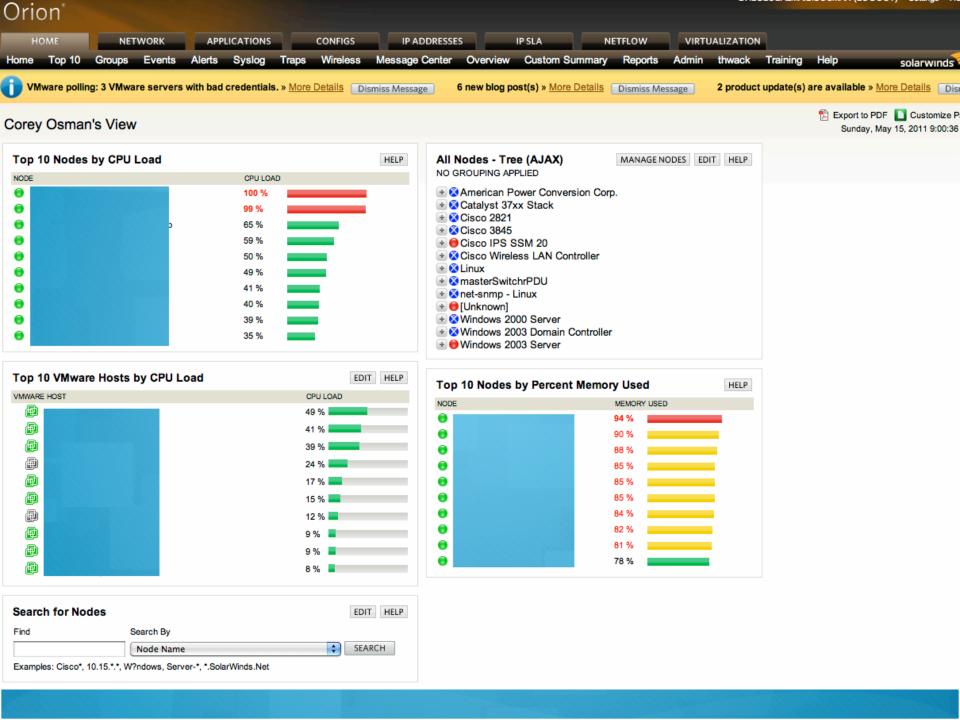
Monitoring Software

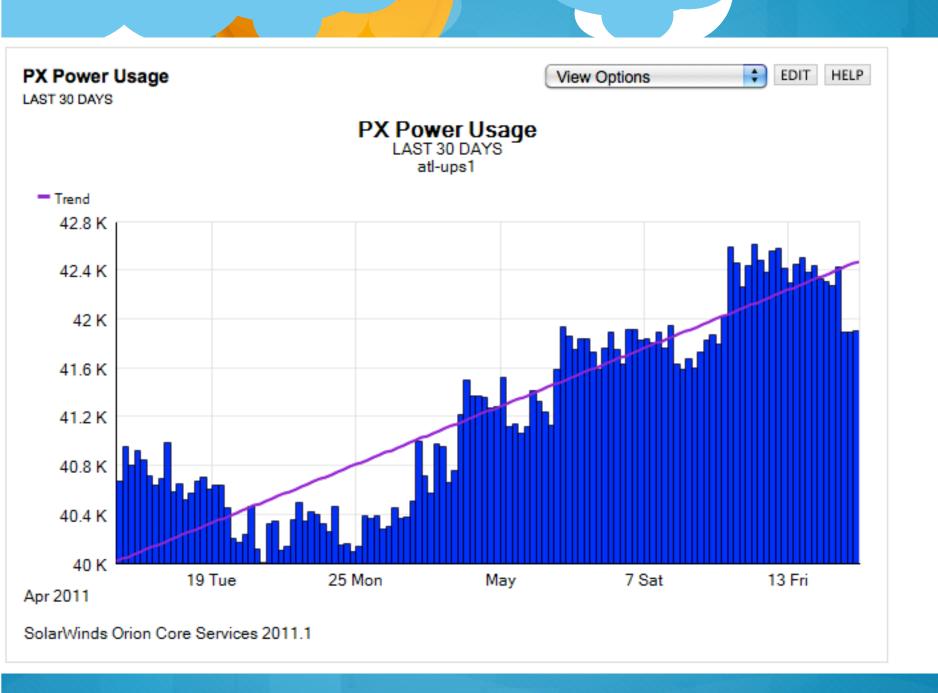
- Opennms -- open source
- Nimsoft -- Adobe Flash/Flex framework frontend
- Solarwinds -- Good for advanced beginners
- Whats up Gold Good for small shops
- O Nagios open source

SNMP Monitoring Basics

- O Monitor values of OIDS (Polling)
 - O Watch for specific values
- Draw graphs of OID values over time
- SNMP traps (easy way to receive data without polling)
 - O Listen for traps

Quick Demo of SNMP

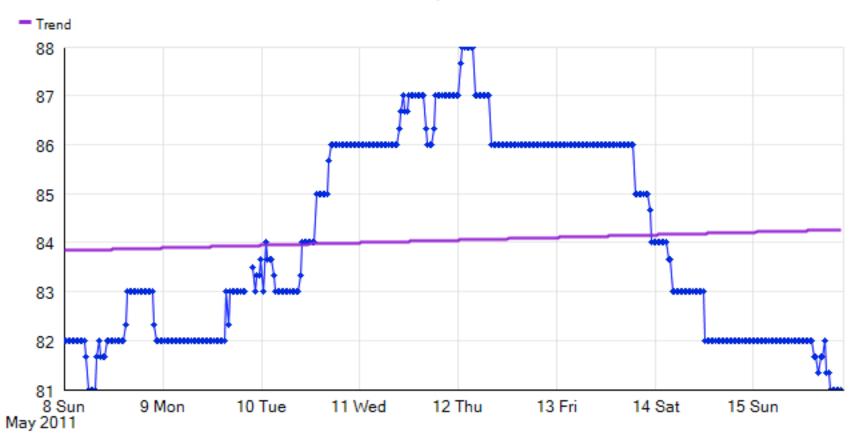




LAST 7 DAYS

Environment Tempature LAST 7 DAYS

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SolarWinds Orion Core Services 2011.1

My Basic Needs

- O Device Dependency
- Excellent Alerting Engine
- Excellent Reporting Engine
- RRD Like Graphs (multiple datapoints on a graph)
- Easy to setup and backup
- Support for 3rd party (API)

Helpful Tidbits

- O Users who demanded a nice GUI are only end users.
- O Don't Judge a book by the cover.
- Integration and well thought out API are key.
- Alerting, Reporting and Configuration should be well designed.
- Most used interface is SMTP

NetFlow

