

Zenoss

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Overview

- Zenoss - open source network management system
- “core” and “enterprise” versions
- Development started in 2002
- “1.0” release in Nov 2006
- About 100K lines of python code in 2.2 release

Other F/OSS systems

❧ Nagios

❧ Assorted frontends

❧ OpenNMS

❧ Hyperic HQ

❧ Cacti

❧ MRTG

❧ Argus

❧ Big Sister

❧ Zabbix

❧ Ganglia

Performance vs Availability

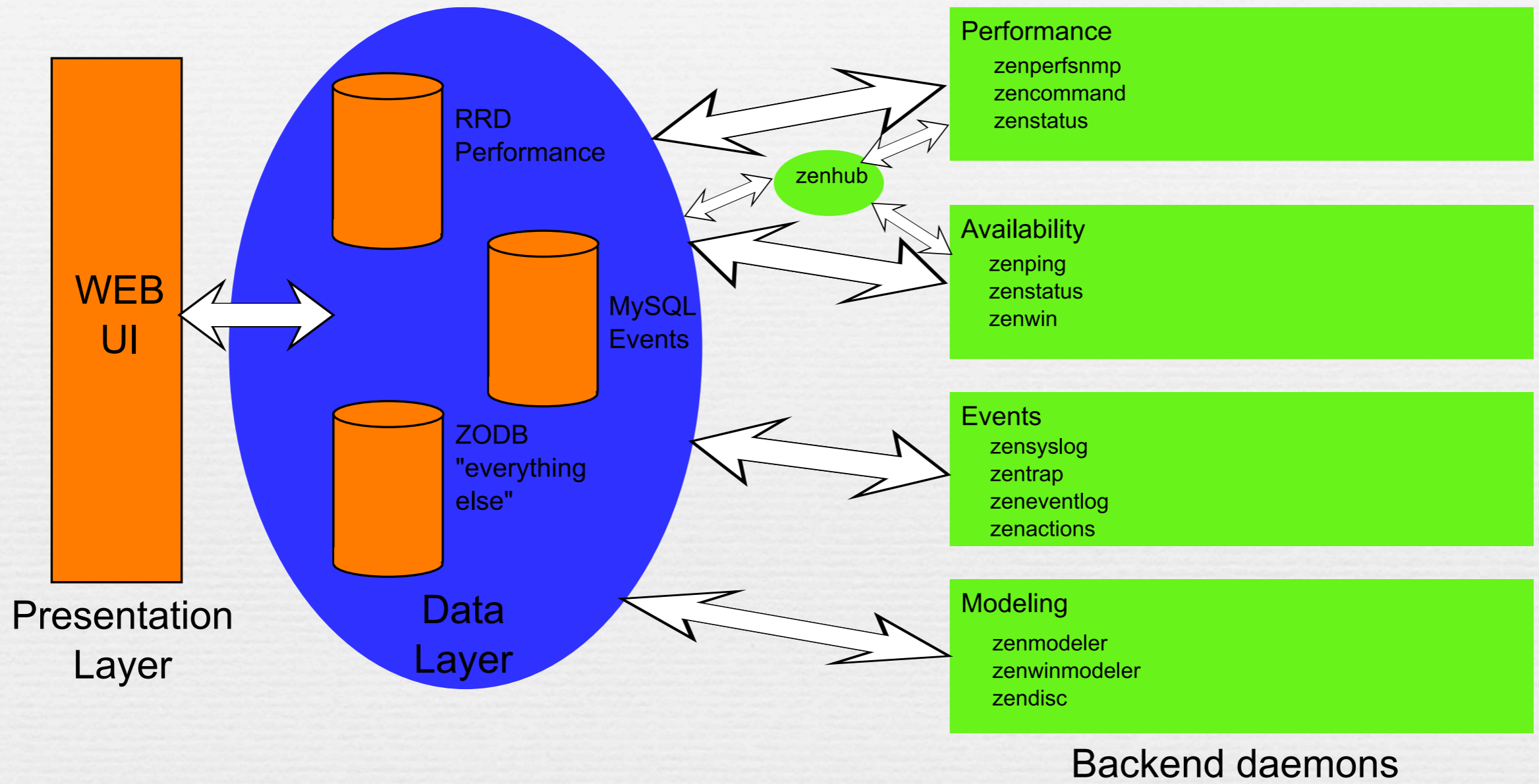
- ❧ Overall system performance variables
- ❧ Synthetic transaction response time
- ❧ Availability monitoring features
 - ❧ SLA data for reporting
 - ❧ Alerting and incident response

Monitor Interfaces

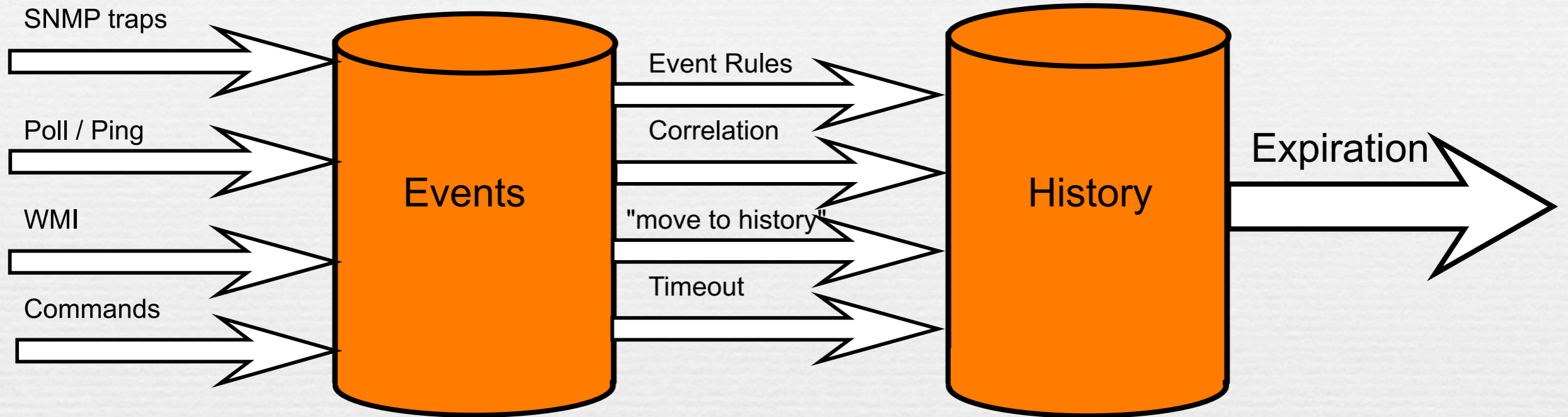
- SNMP
- WMI
- ssh
- Nagios plugins
- zenplugins

Components

- Python
- Twisted
- Zope and Zope object database
- MySQL
- RRDB



New Events



Discovery Process

- zendisc to scan subnets or single devices
- SNMP modeling
- Device templates

Alerting

- Email
- SNPP
- Arbitrary commands
- Maintenance states
- Maintenance windows

Installation Options

- VMWare appliance
- “Stack” installer
- Source

References

- ❖ Zenoss - <http://www.zenoss.com>
- ❖ Nagios - <http://www.nagios.org>
- ❖ OpenNMS - <http://www.opennms.org>
- ❖ Hyperic HQ - <http://www.hyperic.com>
- ❖ Cacti - <http://www.cacti.net>

References

- ❧ MRTG - <http://oss.oetiker.ch/mrtg>
- ❧ Argus - <http://argus.tcp4me.com>
- ❧ Big Sister - <http://www.bigsister.ch>
- ❧ Zabbix - <http://www.zabbix.com>
- ❧ Ganglia - <http://www.ganglia.info>