

## Application Server

- WebLogic Server, WebSphere, Oracle AS, JBoss, Microsoft .NET, Tomcat, Silverstream, Glassfish, vFabric tc Server

## ERP

- SAP, Oracle E-Business Suite

## Databases

- Oracle, Sybase, MS SQL, DB2, MySQL, PostgreSQL, Memcached

## Servers

- Windows, Linux, AIX, AS/400, iSeries, HP UX, Mac, Solaris, Novell

07/22/08

# Performance Management (contd.)

## Web Transactions

- HTTP(s) Synthetic Transactions, Real Browser Monitor

## J2EE Transactions

- URL to SQL Response Time Breakup

## SOA Web Services

- Monitor Performance & Availability of SOAP Web Services

## Custom Applications

- JMX, SNMP, WMI, Scripts, Java Runtimes

# Performance Management (contd.)

## Middleware/ Portal

- Microsoft MQ, MS Office SharePoint, RabbitMQ, IBM Websphere MQ

## Virtualization

- Hyper-V Server, VMware ESX/ESXi

## Cloud Apps

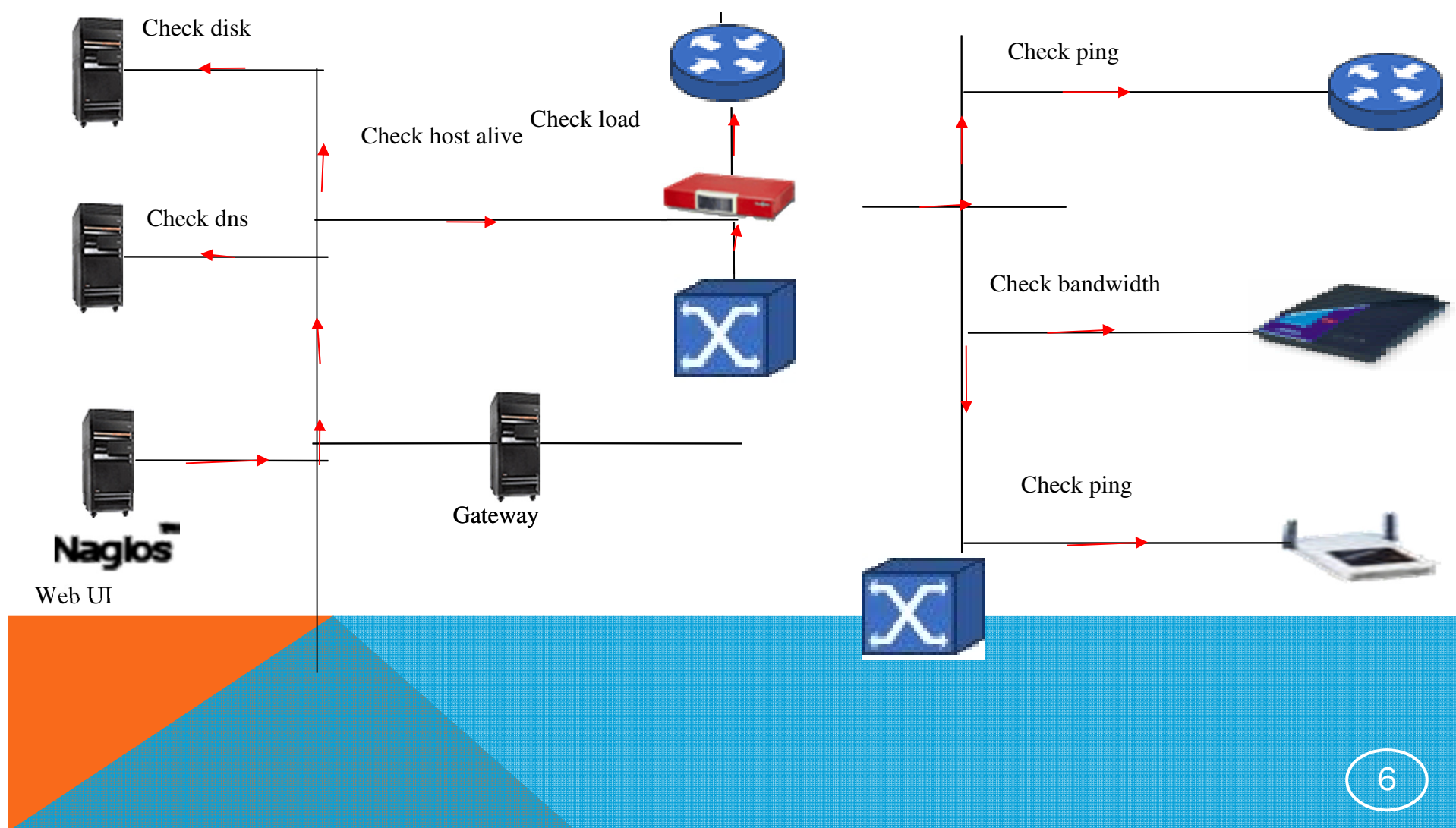
- Amazon, EC2 Instance, RDS Instance

## WHAT IT CAN CHECK ?

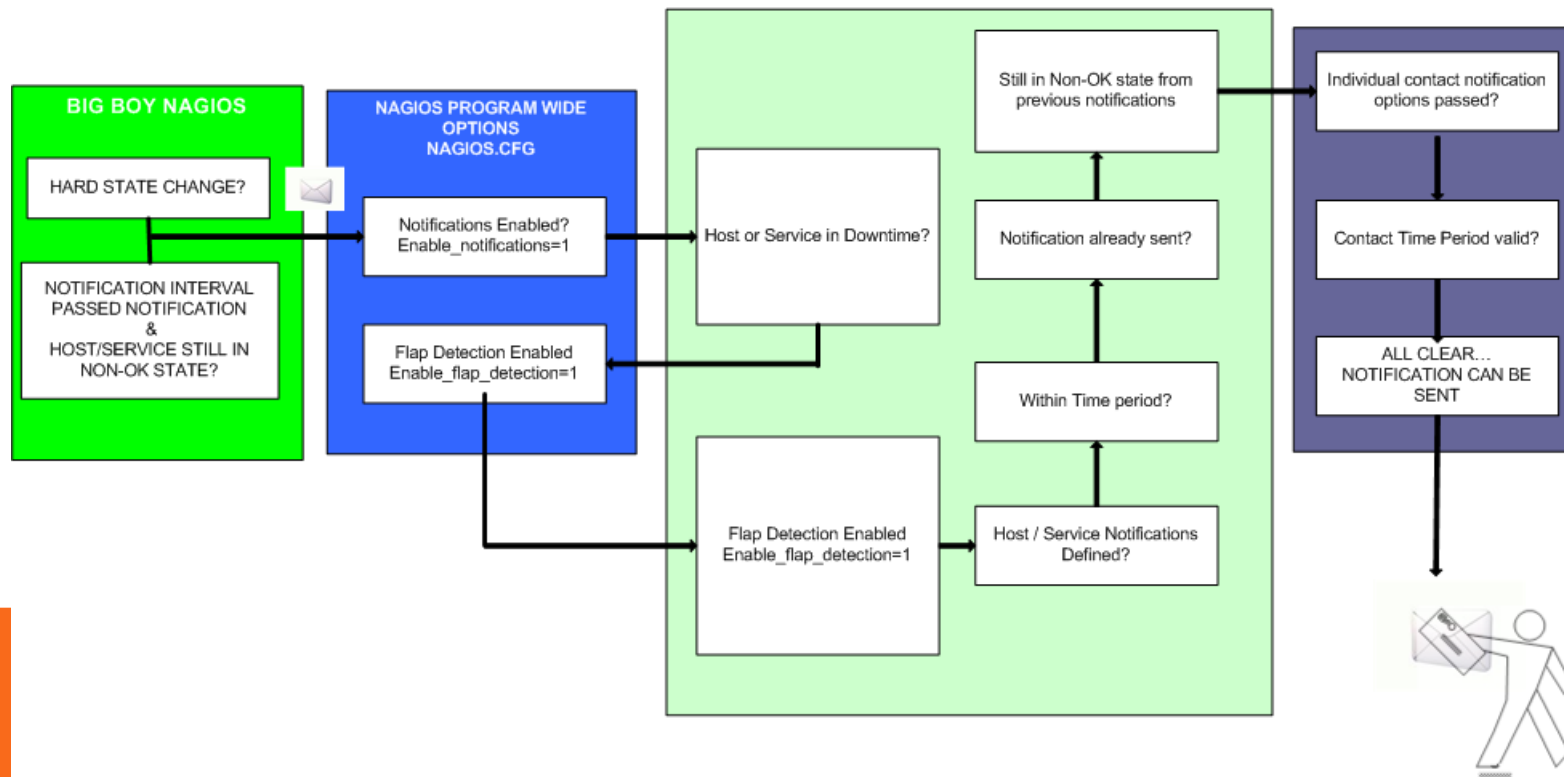
- Individual node status
  - ✓ Is it up?
  - ✓ What is its load?
  - ✓ What is the memory and swap usage?
  - ✓ NFS and network load?
  - ✓ Are the partitions full?
  - ✓ Are applications and services running properly?
  - ✓ How about ping latency?
- Aggregated node status
  - ✓ Same info, but across groups of nodes

A lot, including:

- Service monitoring
- Alerts from SNMP traps
- Monitoring redundancy
- Detection of primary failure to avoid multiple like alerts.
- Notifications via email, pager, etc.
- Notifications to individuals or defined groups
- Log information
- Use databases to store history
- Very extensible via plug-ins, add-ons and local scripts.
- Can scale to large installations
- Allows for redundant monitoring
- Aggregation of like-data across multiple nodes.
- Licensed under GPL v2

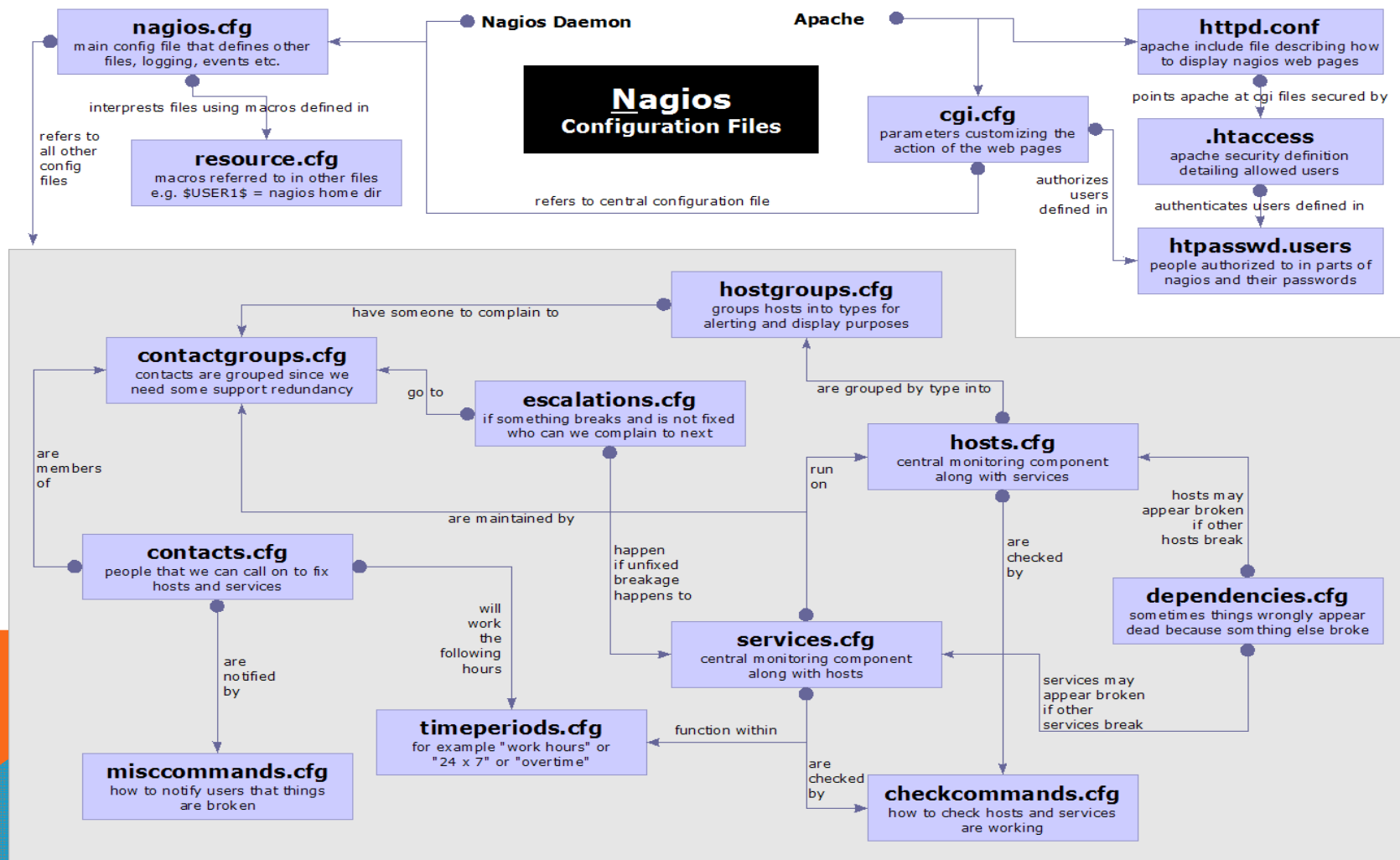


## NAGIOS - NOTIFICATION FLOW DIAGRAM



**NOTE:** The flow will only continue when each of the listed filters are satisfied.

CONTACT GETS THE NOTIFICATION MESSAGE





# Nagios configuration files

- Located in /etc/nagios2/
- Important files:
  - cgi.cfg controls the Web Interface options security
  - commands.cfg commands that Nagios uses to notify
  - nagios.cfg main Nagios configuration file
  - conf.d/\* the core of the config files

# Nagios configuration files

- Under conf.d/\*, files "xxxx\_nagios2.cfg":
- contacts                      users and groups
- generic-host                "template" host (default)
- generic-service        "template" service
- hostgroups                host group definitions
- services                    which services to check
- timeperiods                when to check and notify

# Nagios plugin configuration

- /etc/nagios-plugins/config/

apt.cfg	ntp.cfg	dhcp.cfg	ping.cfg
disk.cfg	procs.cfg	dummy.cfg	real.cfg
ftp.cfg	ssh.cfg	http.cfg	tcp_udp.cfg
load.cfg	telnet.cfg	mail.cfg	users.cfg
news.cfg			

# CURRENT OPEN SOURCE OPTIONS

## cAdvisor

- Docker metrics only

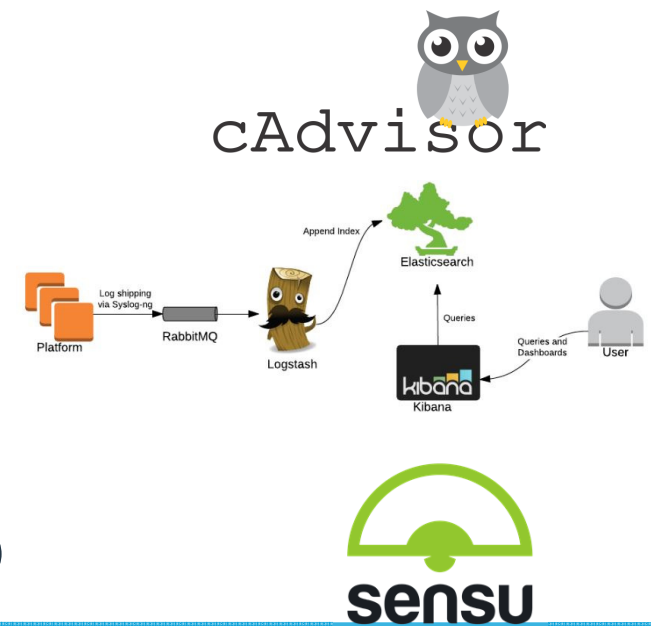
## ELK stack

- Lots of moving parts
- Only handles log data (Docker, app logs, etc)
- Agent per host

## Sensu

- Need RabbitMQ, Redis, Sensu
- Handles metric data only (Docker, host, other plugins)
- Agent per host

Up and coming : Prometheus, Spigo



NO TRANSACTION TRACING!  
NO END USER VISIBILITY!

# CURRENT COMMERCIAL OPTIONS

Stack of APM, infrastructure, log analytics

- Splunk
- +New Relic, Dynatrace, Ruxit
- +SevOne, ScienceLogic, Zenoss

AppDynamics (1 install/UI for APM, infrastructure, log)

- SaaS or on premises
- Same product