

Communauté francophone de la supervision

<http://www.monitoring-fr.org>



J eudis du libre
B ruxelles
02 septembre 2010

Historique

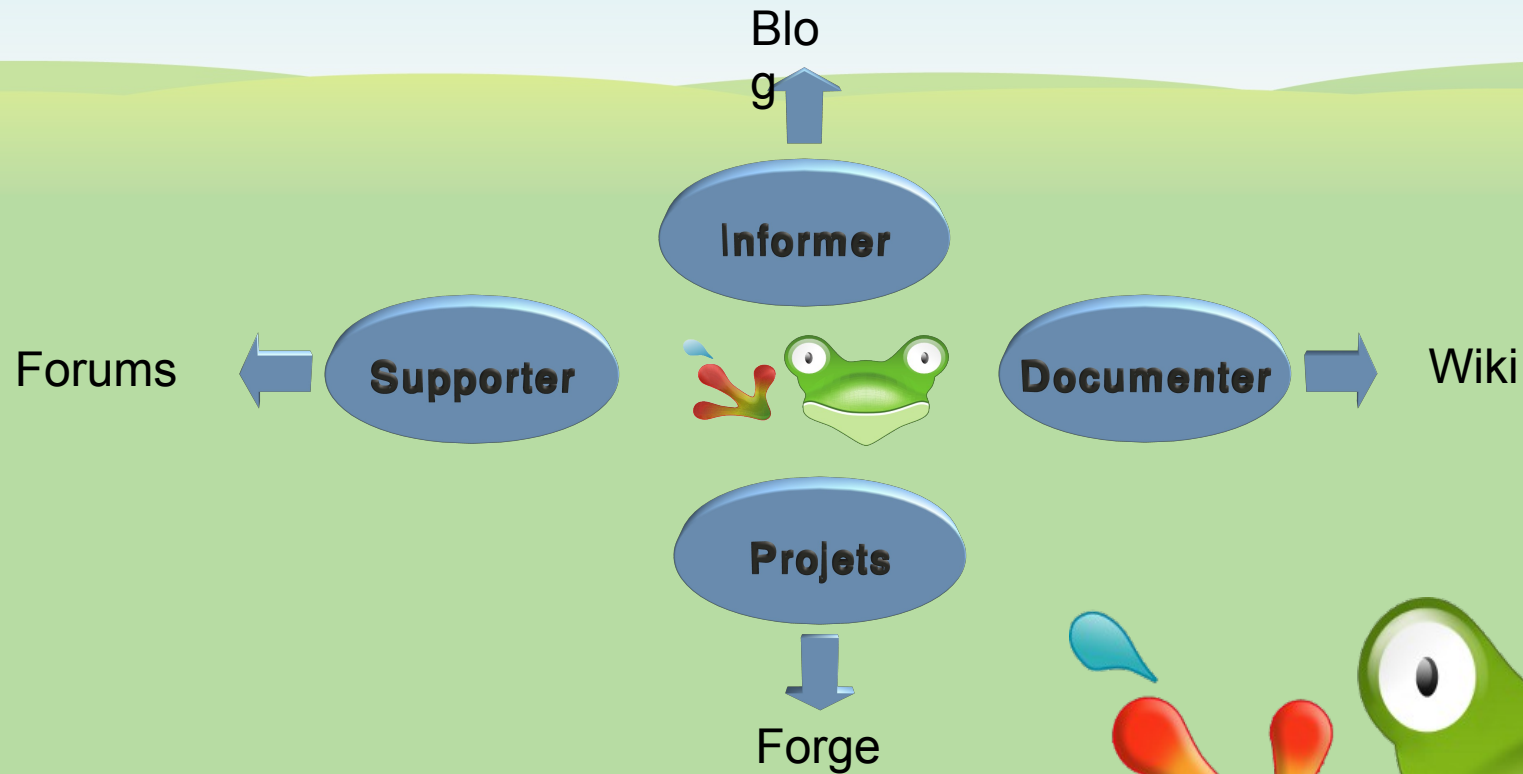
- 2007 : Olivier J A N publie ses notes de recherche autour de Nagios et la supervision opensource
- 2007 : premier contact avec Ethan Galstad et création du blog
- 2008 : deuxième contact avec Ethan et première idée de structuration d'une communauté.
- 2009 : R omuald F ronteau rejoint Olivier pour la mise en place des forums de support Nagios
- 2010 : Nagios-fr devient M onitoring-fr
- 2010 : J ean G A B E S rejoint l'équipe M onitoring-fr
- 2010 : Olivier L I K I A N G C H E O N G rejoint l'équipe M onitoring-fr
- 2010 : Création de l'association loi 1901 lors des R M L L de B ordeaux



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La communauté

Missions



Activités

- Faire connaître le monde de la supervision opensource (Salons, R M LL, J eudis du libre ...)
- Communiquer avec les leaders des projets
- Aider à la mise en place de solutions de supervision opensource



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La communauté

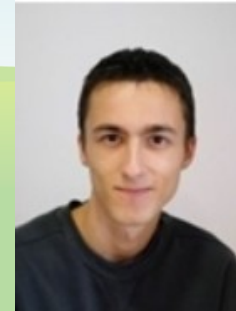
L'équipe



Olivier
JAN



David
GUENAU



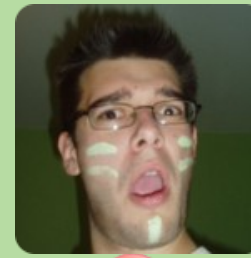
Jean
GABES



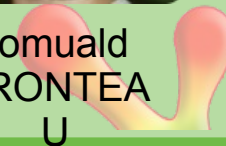
Olivier
LI KIANG CHEONG



Ludovic
VALENTIN



Romuald
FRONTEAU



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La supervision libre/opensource

Rappel : la supervision

- Une des fonctions de l'administration des SI
- Fonction clé de plusieurs normes et standards
 - OSI System Management Overview [ISO-10040]
 - ITIL



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La supervision libre/opensource

Rappel : pourquoi superviser ?

- Détecter les pannes avant l'utilisateur
- Réagir plus rapidement en cas d'incident
- Anticiper les problèmes
- Contrôler et rendre compte
- Pilotage de l'exploitation



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La supervision libre/opensource

Rappel : quoi superviser ?

- Environnement
- Matériel
- Réseau
- Système
- Bases de données
- Services (HTTP, SMTP, LDAP...)
- Applications
- Sécurité



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La supervision libre/opensource

Les outils de supervision

Nagios[®]

ZABBIX

openNMS[®]

Zenoss[™]
Open Source IT Monitoring

HYPERIC
All Systems Go.



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La supervision libre/opensource

Les outils de supervision



Zenoss CORE

Device/IP Search

admin Preferences Logout Help

Stop Refresh Add portlet... Configure layout...

Main Views

- Dashboard
- Event Console
- Device List
- Network Map

Classes

- Events
- Devices
- Services
- Processes
- Products

Browse By

- Systems
- Groups
- Locations
- Networks
- Reports

Management

- Add Device
- Mibs
- Monitors
- Settings
- Event Manager

Production States

Device	Prod State
apc1	Production
AV3100 02-EF-22	Production
build	Production
catalyst500	Production
cent4-64t	Production
cent4b-64	Production
cent4b.zenoss.loc	Production

Device Issues

Device	Events
localhost	1
cent4b-64	1
cent4b-64	1
hp3055	2
hp3055	2
marc-irlande-computer.local	2

Object Watch List

Object	Events
X /Devices/Discovered	1
X /Devices/Network/Router	
X /Devices/KVM	

Root Organizers

Object	Events
/Devices/Server	1
/Devices/Discovered	1
/Devices/Network	
/Devices/Printer	
/Devices/Power	
/Devices/KVM	

Locations

Map data ©2007 Europe Technologies - Terms of Use

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La supervision libre/opensource

Les outils de supervision



openNMS®

Web Console
User: demo (Notices Off) - Log out
31 août 2010 06:35 EDT

Node List Search Outages Path Outages Dashboard Events Alarms Notifications Assets Reports Charts Surveillance Distributed Status Distributed Map Map Help

Home

Nodes with Outages
There are no current outages

Quick Search

Node ID: Search

Node label like: Search

TCP/IP Address like: Search

Providing service: Search

Availability Over the Past 24 Hours

Categories	Outages	Availability
Network Interfaces	0 of 74	99.995%
Web Servers	0 of 26	99.880%
Email Servers	0 of 12	99.524%
DNS and DHCP Servers	0 of 9	100.000%
Database Servers	0 of 3	100.000%
JMX Servers	0 of 0	100.000%
Other Servers	0 of 33	99.943%
Southeast U.S.	Outages	Availability
Mobile	0 of 0	100.000%
Raleigh	0 of 0	100.000%
Southwest U.S.	Outages	Availability
Dallas	0 of 2	100.000%
Northwest U.S.	Outages	Availability
Seattle	0 of 1	100.000%
Fink Servers	Outages	Availability
Fink Mirror Servers	0 of 0	100.000%
Total	Outages	Availability
Overall Service Availability	0 of 204	99.943%

Notification
You: No outstanding notices (Check)
All: No outstanding notices (Check)
On-Call Schedule

Resource Graphs
-- Choose A Node --

KSC Reports
-- Choose A Report to View --

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La supervision libre/opensource

Les outils de supervision

ZABBIX

ZABBIX

Monitoring | Inventory | Reports | Configuration | Administration

Dashboard | Overview | Web | Latest data | Triggers | Events | Graphs | Screens | Maps | Discovery | IT services

History: Status of Zabbix » Host groups » Nodes » Host groups » Host profiles

PERSONAL DASHBOARD

Favourite graphs | Favourite screens | Favourite maps

Maps »

Status of Zabbix

Parameter	Value	Details
Zabbix server is running	No	-
Number of hosts (monitored/not monitored/templates)	43	1 / 0 / 42
Number of items (monitored/disabled/not supported)	28	19 / 0 / 9
Number of triggers (enabled/disabled)[problem/unknown/ok]	10	10 / 0 / 0 / 10
Number of users (online)	2	2
Required server performance, new values per second	0.61	-

Updated: 10-02-16

System status

Host group	Disaster	High	Average	Warning	Information	Not classified
Discovered hosts	0	0	0	0	0	0

Updated: 10-02-16

Host status

Host group	Without problems	With problems	Total
Discovered hosts	1	0	1

Updated: 10-02-16

Last 20 issues

Host	Issue	Last change	Age	Ack	Actions
...					

Updated: 10-02-16

Web monitoring

Host group	Ok	Failed	In progress	Unknown
...				

Updated: 10-02-16

Discovery status

Discovery rule	Up	Down
Local network	1	0

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La supervision libre/opensource

Les outils de supervision



alex.ma Logout Recent Alerts : 08/30/2007 02:50:00 PM - MySQL 5.x Capacity Alert
08/30/2007 02:50:00 PM - low free mem

Dashboard Browse Resources Alert Center Report Center Administration Recent Resources Help

Dashboard

Availability Summary Hyperic Web app

Resource Type	Availability
PostgreSQL 8.1	2 1
Tomcat 5.5	2 3
Linux	1 17
Cisco IOS	1
IIS 6.x	2
MySQL Process 5.x	3
Network Device	1
Network Host	1
OpenBSD 4.0 pf	1
Oracle 10g	1
Postfix 2.x	1
SendMail	2
Solaris	1
Win32	4

Updated: 2:54 PM

Favorite Resources

Resource Name	Resource Type	Performance	Availability	Alerts
City of Chicago	J2EE Application	N/A	0	0
bronco.intranet.hyperic.net	Linux	N/A	6060	0
Achieve Healthcare	J2EE Application	N/A	0	0
Hyperic HQ	Generic Application	N/A	0	0
t2000	Solaris	N/A	0	0

Updated: 2:54 PM

Problem Resources

Resource Name	Availability	Alerts	OOB	Last
hq.hyperic.net	344	0	08/30/2007 02:51:13 PM	
49er.intranet.hyperic.net	288	0	08/30/2007 02:50:10 PM	
web2.hyperic.net MySQL 5.x forum_db	288	0	08/30/2007 02:50:13 PM	
web2.hyperic.net MySQL 5.x jive	288	0	08/30/2007 02:50:13 PM	
localhost.localdomain MySQL 5.x zimbra_logger	288	0	08/30/2007 02:51:12 PM	
web2.hyperic.net MySQL 5.x test	287	0	08/30/2007 02:50:13 PM	

Updated: 2:54 PM

Metric Viewer Linux - Load Average

Linux	Load Average 5 Minutes
hawk.intranet.hyperic.net	1.1
duke.intranet.hyperic.net	0.7
cityof.intranet.hyperic.net	0.4
cityof.intranet.hyperic.net	0.4
cityof.intranet.hyperic.net	0.3

Updated: 2:54 PM

Metric Viewer Linux Swap Usage

Linux	Swap Used
bear.intranet.hyperic.net	66.3 MB
hammer.intranet.hyperic.net	39.4 MB
bronco.intranet.hyperic.net	2.4 MB
vmlin-008.intranet.hyperic.net	156.0 KB

Saved Charts

- City of Chicago: Cpu Usage
- City of Chicago: Total Number of Requests per Minute
- apache servers: Requests Served per Minute

Summary Counts

Application Total	26
Platform Total	36
Win32	4
Linux	24

New Application
New Group
New Platform

Smart Trend does analysis on the metrics collected to determine the normal behavior of a resource. Resources that are not behaving as they normally do are flagged and show up as Problem Resources in the Dashboard.

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La supervision libre/opensource

Les outils de supervision

Nagios®

The screenshot shows the Nagios web interface. The sidebar on the left contains the following navigation links:

- General
 - Home
 - Documentation
- Monitoring
 - Tactical Overview
 - Service Detail
 - Host Detail
 - Hostgroup Overview
 - Hostgroup Summary
 - Hostgroup Grid
 - Servicegroup Overview
 - Servicegroup Summary
 - Servicegroup Grid
 - Status Map
 - 3-D Status Map
- Service Problems
- Host Problems
- Network Outages

The main content area displays a table titled "Hosts" with the following columns: Host, Service, Status, Last Check, Duration, Attempt, and Status Information. The table lists various hosts and their services, including IOC_Example, aiExample, aiExample1, aiExample2, aiExample3, cabExample, cabExample1, cabExample2, cabExample3, and compressExample. The status of each host and service is indicated by a color-coded cell (e.g., UNKNOWN, WARNING, OK, CRITICAL).

Host	Service	Status	Last Check	Duration	Attempt	Status Information
IOC_Example	absentExample	UNKNOWN	09-12-2007 09:35:53	1d 0h 57m 55s	3/3	STATE_UNKNOWN: dummy not found
	aiExample	WARNING	09-12-2007 09:36:22	0d 0h 4m 17s	3/3	STATE_WARNING: adiosHost:aiExample in MINOR severity status: te: 0 sec.
	aiExample1	WARNING	09-12-2007 09:36:52	0d 0h 3m 47s	3/3	STATE_WARNING: adiosHost:aiExample1 in MINOR severity status: te: 0 sec.
	aiExample2	WARNING	09-12-2007 09:37:21	0d 0h 39m 25s	3/3	STATE_WARNING: adiosHost:aiExample2 in MINOR severity status: te: 2 sec.
	aiExample3	OK	09-12-2007 09:34:50	0d 0h 8m 37s	1/3	STATE_OK: adiosHost:aiExample3 5 2007-09-12 09:34:48.285348 : te: 2 sec.
	cabExample	OK	09-12-2007 09:35:20	0d 0h 2m 19s	1/3	STATE_OK: adiosHost:cabExample 5 2007-09-12 09:35:19.823430 : te: 1 sec.
	cabExample1	WARNING	09-12-2007 09:35:49	0d 0h 9m 38s	3/3	STATE_WARNING: adiosHost:cabExample1 in MINOR severity status: te: 1 sec.
	cabExample2	OK	09-12-2007 09:36:18	0d 0h 1m 21s	1/3	STATE_OK: adiosHost:cabExample2 5 2007-09-12 09:36:17.410902 : te: 1 sec.
	cabExample3	CRITICAL	09-12-2007 09:37:08	0d 0h 1m 31s	2/3	STATUS CRITICAL: adiosHost:cabExample3 in MAJOR severity status: te: 5 sec.
	compressExample	OK	09-12-2007 09:36:37	0d 1h 18m 40s	1/3	STATE_OK: adiosHost:compressExample 10 2007-09-12 09:36:37.048426 3 : te: 0 sec.

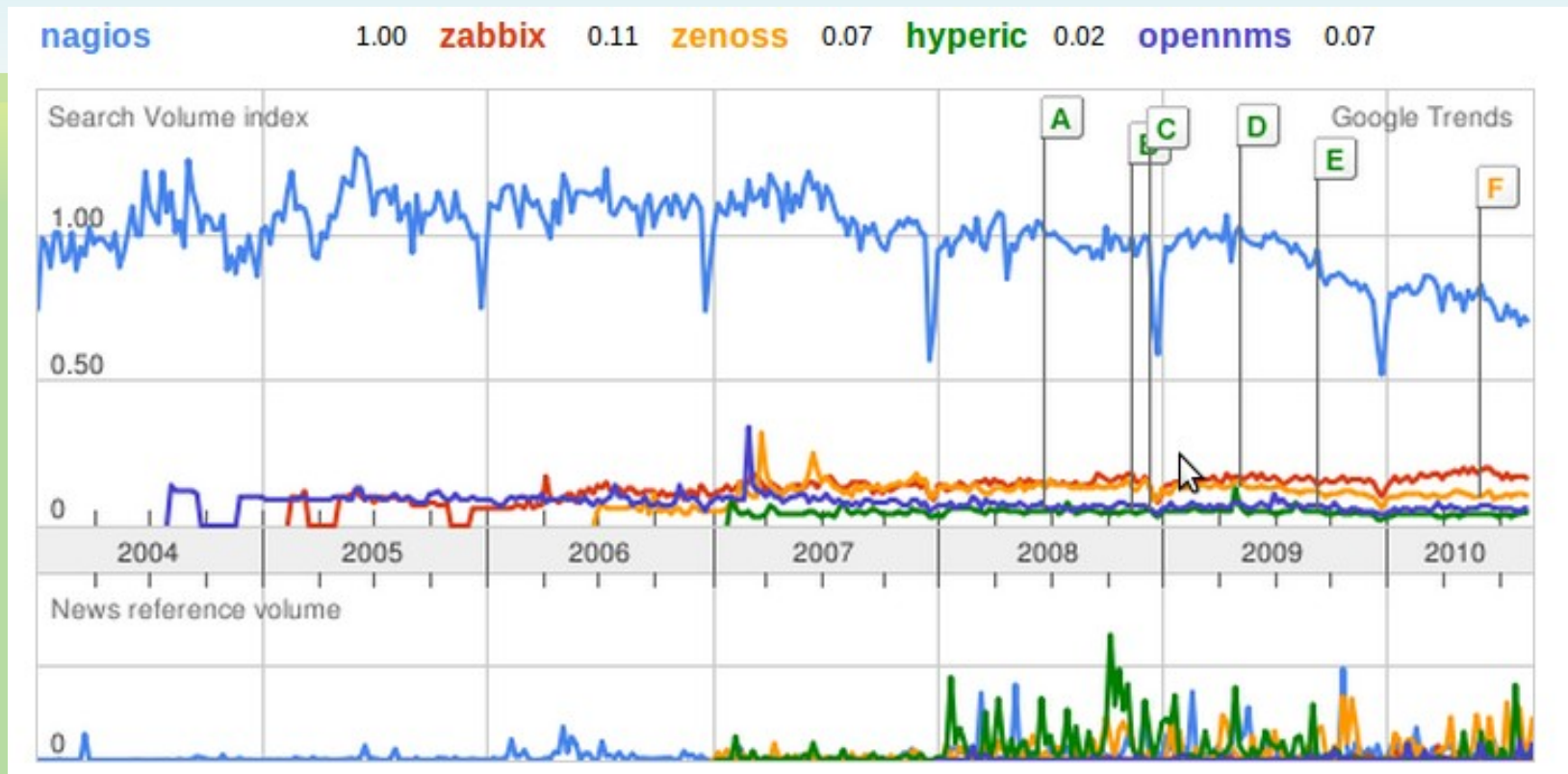
Below the Hosts table, there is a section for "LiveEPICS" with a sub-table showing system metrics:

Current Load	Current Users	PING	Root Partition	Total Processes
OK	OK	OK	OK	OK
09-12-2007 09:34:06	09-12-2007 09:34:36	09-12-2007 09:35:05	09-12-2007 09:35:34	09-12-2007 09:36:04
0d 0h 14m 21s	0d 0h 13m 51s	0d 0h 13m 22s	0d 0h 12m 53s	0d 0h 12m 23s
1/4	1/4	1/4	1/4	1/4
OK - load average: 0.19, 0.15, 0.10	USERS OK - 5 users currently logged in	PING OK - Packet loss = 0%, RTA = 0.11 ms	DISK OK - free space: / 4105 MB (44% inode=95%):	PROCS OK: 99 processes with STATE = RSZDT

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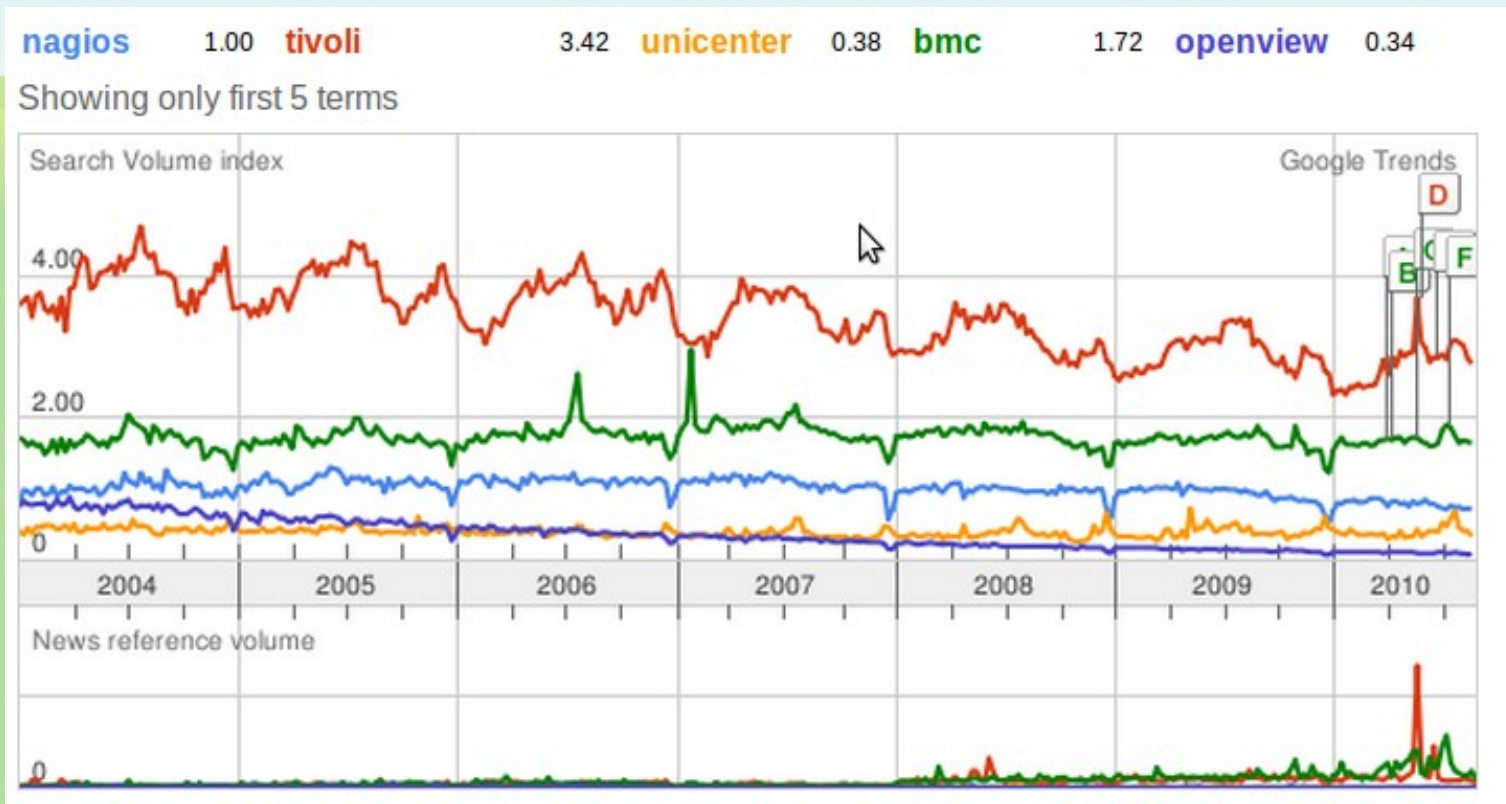
Répartition des solutions



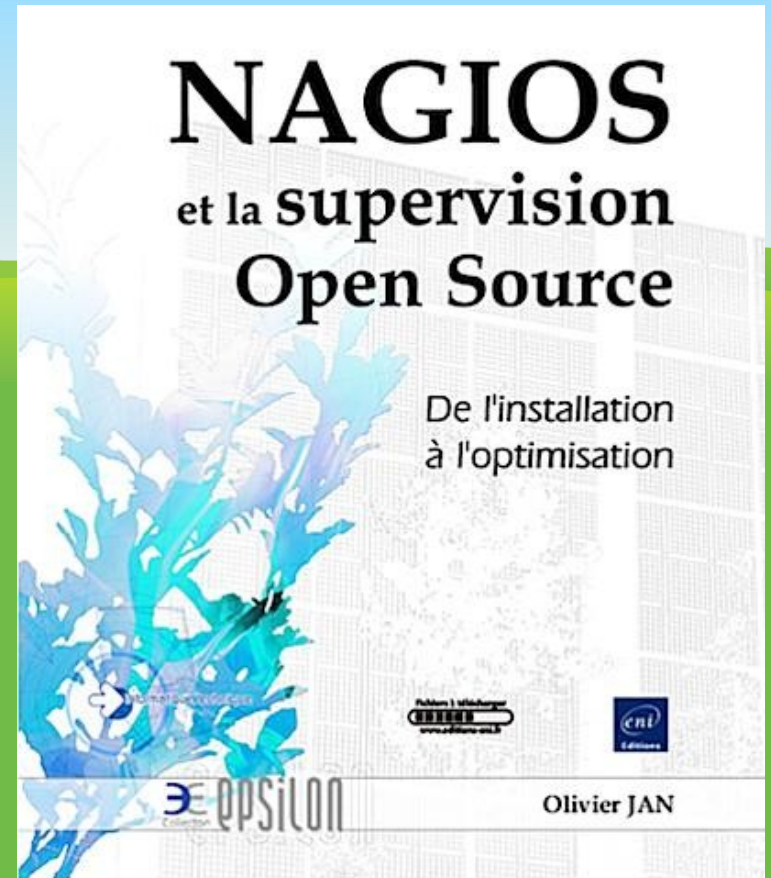
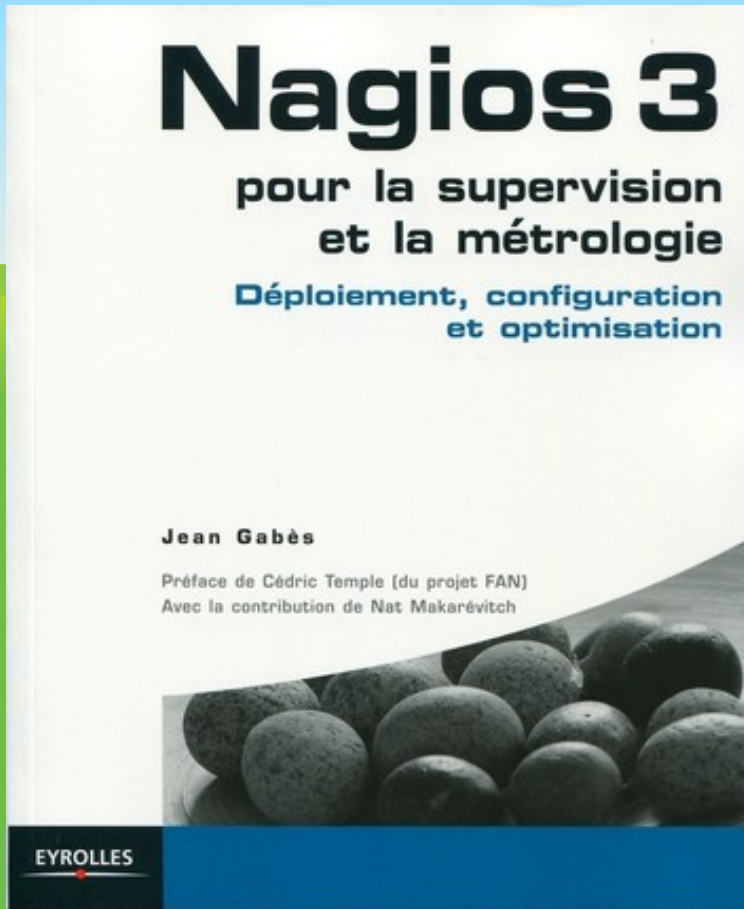
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Répartition des solutions



PUB



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Les dérivés



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Innovations et perspectives



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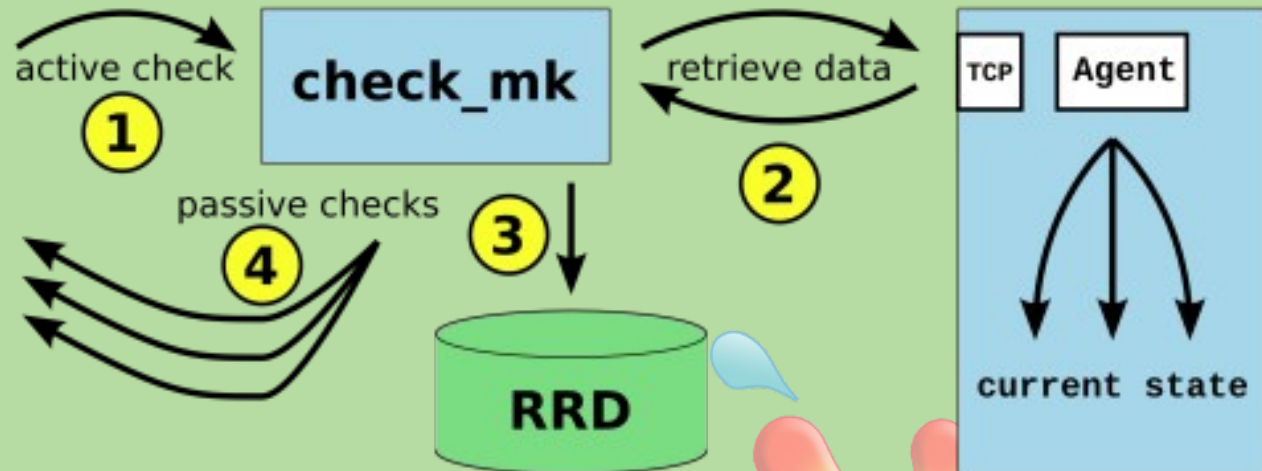
http://mathias-kettner.de/check_mk.html



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Check M K



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La supervision libre/opensource

Check M K



- Système de check hybride actif/passif
- Inventaire automatique des services
- Agent pour Windows et Linux
- Extensible



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La supervision libre/opensource

Livestatus



- Module de courtage orienté performance
- Élimine les problématiques du mode distribué
- Remplace avantageusement Nagios.cmd
- Interrogation des serveurs Nagios en mode local ou distant
- Langage d'interrogation (LQL) proche de la philosophie de SQL.



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La supervision libre/opensource

Multisite



multisite check MK v1.1.6rc3

Quicksearch
avms35

Tactical Overview
Hosts: 99 Problems: 0 Unhandled: 0
Services: 2463 Problems: 45 Unhandled: 45

Master control
Rechenzentrum Franken
Notifications: disabled
Service checks: enabled
Host checks: enabled
Event handlers: enabled
Performance data: enabled
Linuxcluster Bayern
Notifications: enabled
Service checks: enabled
Host checks: enabled
Event handlers: enabled
Performance data: enabled

Site status
Rechenzentrum Franken: online
Linuxcluster Bayern: online

Views
Hosts
• All hosts
• All hosts (Mini)
• All hosts (tiled)
• Host search
Hostgroups
• Hostgroups
• Hostgroups (Grid)
• Hostgroups (Summary)
Services
• All services
• Recently changed services
• Serv. by host groups
• Service search
Servicegroups
• Servicegroups (Grid)
• Servicegroups (Summary)
• Services by group
Problems
Add snapiin © Mathias Kettner

Recently changed services

nagiosadmin (admin) 20:25 MK

Filter	Commands	1	2	3	4	5	6	8	30 s	60 s	90 s	Edit		
Host	State	Service	Status detail									Icons	Age	Checked
nagios2	OK	PING	OK - 127.0.0.1: rta 0.050ms, lost 0%										25 min	29 sec
localhost	OK	Check_MK	OK - Agent Version 1.1.4a3, processed 16 host infos										10 min	54 sec
localhost	WARN	Hmcheck_2	Dies ist die Ausgabe 2									★	10 min	54 sec
localhost	OK	CPU load	OK - 15min Load 0.53 at 2 CPUs									★	10 min	54 sec
localhost	OK	CPU utilization	OK - too short interval									★	10 min	54 sec
localhost	OK	Disk IO read	OK - 0.1MB/s (in last 43 secs)									★	10 min	9 min
localhost	OK	Disk IO write	OK - 0.3MB/s (in last 43 secs)									★	10 min	9 min
localhost	OK	Hmcheck_1	Dies ist die Ausgabe									★	10 min	54 sec
localhost	CRIT	Last	CRITICAL - load average: 0.40, 0.41, 0.27									★	10 min	54 sec
localhost	OK	Memory used	OK - 0.11 GB RAM+SWAP used (this is 11.6% of RAM size)									★	10 min	54 sec
localhost	OK	Number of threads	OK - 74 threads									★	10 min	54 sec
localhost	OK	Platte_ /	DISK OK - free space: / 4093 MB (56% inode=89%):									★	10 min	54 sec
localhost	OK	fs_ /	OK - 46.6% used (3.5 of 7.5 GB), (levels at 80.0/90.0%)									★	10 min	54 sec
localhost	OK	Kernel ctx	OK - 197/s in last 43 secs									★	9 min	9 min
localhost	OK	Kernel pgmajfault	OK - 7/s in last 43 secs									★	9 min	9 min
localhost	OK	Kernel processes	OK - 8/s in last 43 secs									★	9 min	9 min
localhost	OK	NIC eth0 counters	OK - Receive: 0.00 MB/sec - Send: 0.00 MB/sec									★	9 min	9 min
localhost	OK	NIC eth1 counters	OK - Receive: 0.01 MB/sec - Send: 0.01 MB/sec									★	9 min	9 min

refresh: 30 secs

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La supervision libre/opensource

Multisite



- Nouvelle console de supervision
- Basée sur livestatus
- Complètement paramétrable
- Filtres complexes
- Actions de masse sur les résultats filtrés



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La supervision libre/opensource

Ils font confiance à livestatus

Thruk

Thruk

General

- Home
- Documentation

Current Status

- Tactical Overview
- Map
- Hosts
- Services
- Host Groups
 - Summary
 - Grid
- Service Groups
 - Summary
 - Grid
- Problems
 - Services (Unhandled)
 - Hosts (Unhandled)
 - Network Outages

Quick Search:

Reports

- Availability
- Trends
- Alerts
 - History
 - Summary
- Notifications
- Event Log

System

- Comments
- Downtime
- Process Info
- Performance Info
- Scheduling Queue
- Configuration

Current Network Status

Last Updated: Wed Sep 1 11:16:52 CEST 2010
Updated every 30 seconds
Thruk 0.68 - www.thruk.org
Logged in as admin
Service checks are disabled

[View History For all hosts](#)
[View Notifications For All Hosts](#)
[View Host Status Detail For All Hosts](#)

Host Status Totals

Up	Down	Unreachable	Pending
251	82	105	60

All Problems: 187, All Types: 1104

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
15541	1121	1020	1327	995

All Problems: 3468, All Types: 20004

Service Status Details For All Host

select host / services with leftclick to send multiple commands. Select multiple with shift + mouse.
select all - unselect all - all problems - all with downtime

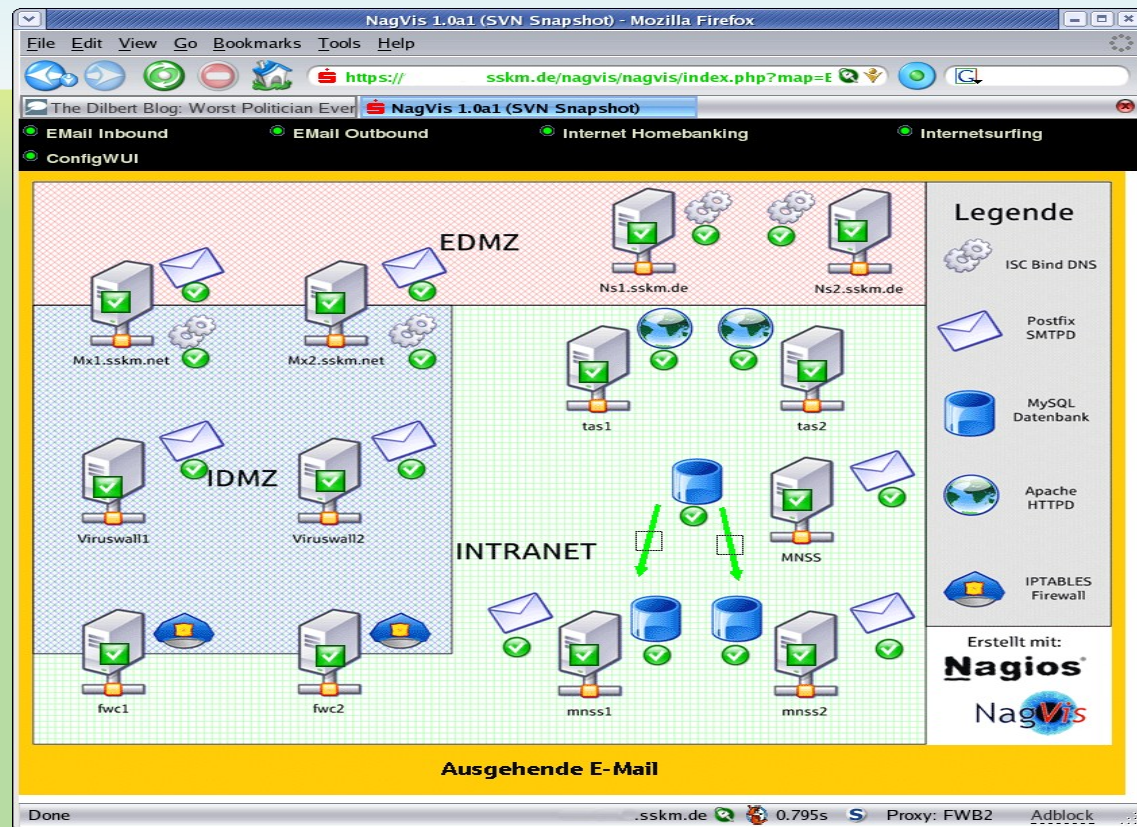
Host	Service	Status	Last Check	Duration	Attempt	Status Information
0_test_host_000	0_test_flap_18	CRITICAL	2010-08-10 10:27:41	22d 0h 49m 11s	1/3	0_test_host_000 (checked by barney) FLAP: down 0_test_flap_18 down
	0_test_ok_00	OK	2010-08-10 10:27:41	235d 19h 28m 7s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_00
	0_test_ok_01	OK	2010-08-10 10:27:41	235d 19h 26m 26s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_01
	0_test_ok_02	OK	2010-08-10 10:27:41	33d 1h 39m 25s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_02
	0_test_ok_04	OK	2010-08-10 10:27:41	33d 1h 39m 25s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_04
	0_test_ok_05	OK	2010-08-10 10:27:41	33d 1h 39m 25s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_05
	0_test_ok_06	OK	2010-08-10 10:27:41	33d 1h 39m 24s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_06
	0_test_ok_07	OK	2010-08-10 10:27:42	33d 1h 39m 24s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_07
	0_test_ok_11	OK	2010-08-10 10:27:42	235d 19h 16m 24s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_11
	0_test_ok_14	OK	2010-08-10 10:27:42	235d 19h 14m 43s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_14
	0_test_ok_16	OK	2010-08-10 10:27:42	235d 19h 13m 3s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_16
	0_test_ok_17	OK	2010-08-10 10:27:42	235d 19h 11m 22s	1/3	0_test_host_000 (checked by barney) OK: ok 0_test_ok_17
	0_test_pending_09	OK	2010-08-10 10:27:42	202d 12h 44m 48s	1/3	0_test_host_000 (checked by barney) OK: random 0_test_pending_09 ok
	0_test_pending_19	OK	2010-08-10 10:27:42	202d 12h 44m 48s	1/3	0_test_host_000 (checked by barney) OK: random 0_test_pending_19 ok
	0_test_random_03	OK	2010-08-10 10:27:42	235d 19h 9m 42s	1/3	0_test_host_000 (checked by barney) OK: random 0_test_random_03 ok
	0_test_random_10	OK	2010-08-10 10:27:42	235d 19h 8m 2s	1/3	0_test_host_000 (checked by barney) OK: random 0_test_random_10 ok
	0_test_random_13	OK	2010-08-10 10:27:42	235d 19h 6m 21s	1/3	0_test_host_000 (checked by barney) OK: random 0_test_random_13 ok
	0_test_random_15	OK	2010-08-10 10:27:42	235d 19h 4m 41s	1/3	0_test_host_000 (checked by barney) OK: random 0_test_random_15 ok
	0_test_unknown_08	UNKNOWN	2010-08-10 10:27:42	22d 0h 49m 10s	1/3	0_test_host_000 (checked by barney) UNKNOWN: unknown 0_test_unknown_08
	0_test_unknown_12	UNKNOWN	2010-08-10 10:27:42	22d 0h 49m 10s	1/3	0_test_host_000 (checked by barney) UNKNOWN: unknown 0_test_unknown_12
0_test_host_001	0_test_critical_12	CRITICAL	2010-08-10 10:31:26	235d 19h 29m 47s	3/3	0_test_host_001 (checked by barney) CRITICAL: critical 0_test_critical_12
	0_test_flap_14	OK	2010-07-30 09:37:26	33d 1h 39m 26s	1/3	0_test_host_001 (checked by barney) FLAP: up 0_test_flap_14 up
	0_test_ok_01	OK	2010-01-08 15:20:29	235d 19h 26m 26s	1/3	0_test_host_001 (checked by barney) OK: ok 0_test_ok_01
	0_test_ok_10	OK	2010-01-08 15:22:10	235d 19h 24m 45s	1/3	0_test_host_001 (checked by barney) OK: ok 0_test_ok_10
	0_test_ok_11	OK	2010-01-08 15:23:49	235d 19h 23m 5s	1/3	0_test_host_001 (checked by barney) OK: ok 0_test_ok_11
	0_test_ok_16	OK	2010-01-08 15:25:29	235d 19h 21m 24s	1/3	0_test_host_001 (checked by barney) OK: ok 0_test_ok_16
	0_test_ok_17	OK	2010-01-08 15:27:08	235d 19h 19m 44s	1/3	0_test_host_001 (checked by barney) OK: ok 0_test_ok_17
	0_test_ok_18	OK	2010-01-08 14:58:48	235d 19h 18m 4s	1/3	0_test_host_001 (checked by barney) OK: ok 0_test_ok_18

<http://www.thruk.org/>

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Ils font confiance à livestatus



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Nagios Business Process AddOns

Short Summary: All Business Prozesses		
Priority 1		
Alerting round the clock (24 x 7)		
Business Process	Status	Status Information
WebShop	 OK	 currently 48 user sessions, 17 anonymous sessions
WebSite	 OK	 Please note: This afternoon maintenance on WebServer1, Production only on WebServer2
Priority 2		
Alerting Monday to Sunday 7:00 to 22:00		
Business Process	Status	Status Information
eMail	 OK	 Please note: This Saturday from 19:00 till 23:00 maintenance on the MailGateway1
Priority 3		
Alerting Monday to Thursday 7:00 to 17:00, Friday 7:00 to 15:00		
Business Process	Status	Status Information
Intranet Portal	 OK	 currently 61 user sessions
ERP System	 OK	 system resource usage 34%
Priority 4		
Testsystems -- no Alerting		
Business Process	Status	Status Information
Testsystem 1	 OK	Dummyhosts with Dummyservices
Testsystem 2	 OK	The System is relocation in the new RZ
Testsystem 3	 OK	The System is relocation in the new RZ

[All Priorities] [\[Priority 1\]](#) [\[Priority 2\]](#) [\[Priority 3\]](#) [\[Priority 4\]](#) [\[Show Trafficlight\]](#)

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Shinken



<http://www.shinken-monitoring.org/>



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La supervision libre/opensource

Origine de Shinken



- A l'origine un simple poc afin de démontrer les axes d'amélioration de Nagios.
- Face aux gardiens du temple, Shinken devient un projet à part entière.
- Développé par Jean GA B ES auteur de Nagios 3 pour la supervision et la métrologie



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P ourquoi shinken ?



- R épondre aux problématiques de performance
- A pporter une réponse simple à
 - la supervision distribuée
 - la haute disponibilité
 - déploiement de configuration
- F ournir une solution de supervision indépendante de l'OS



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La supervision libre/opensource

Shinken et Nagios



- Compatible avec la configuration Nagios
- Implémentation des principaux modules de courrage en natif (NDO, Livestatus, Merlin ...)
- Compatible avec les interfaces Ninja, Thruk, Centreon, Nagvis
- Compatible avec les plugins Nagios



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Architecture



Un fonction = 1 démon !

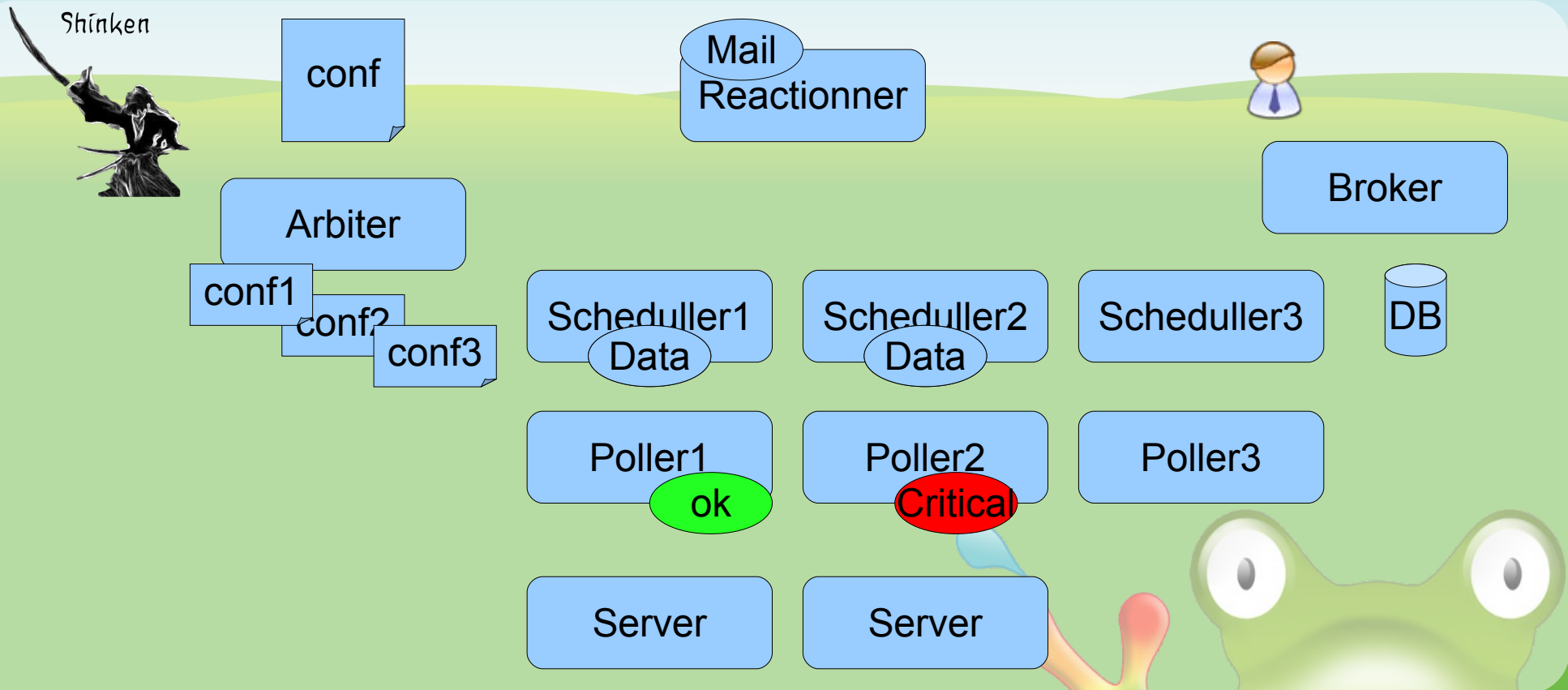
- Arbiter : Lit, découpe et déploie la configuration
- Schedulers : planifie les vérifications ... et c'est tout !
- Pollers : Exécute les vérifications
- Reactionner : Gère les notifications et les événements
- Broker : Récupèrent les données et les exportent.



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Fonctionnement



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Haute disponibilité



- Tous les démons peuvent être redondés
- Il suffit de définir des « spares » pour chaque type de démon pour que ceux ci soient alors automatiquement redondés.
- En cas de perte d'un démon le rôle est automatiquement repris par le « spare ».



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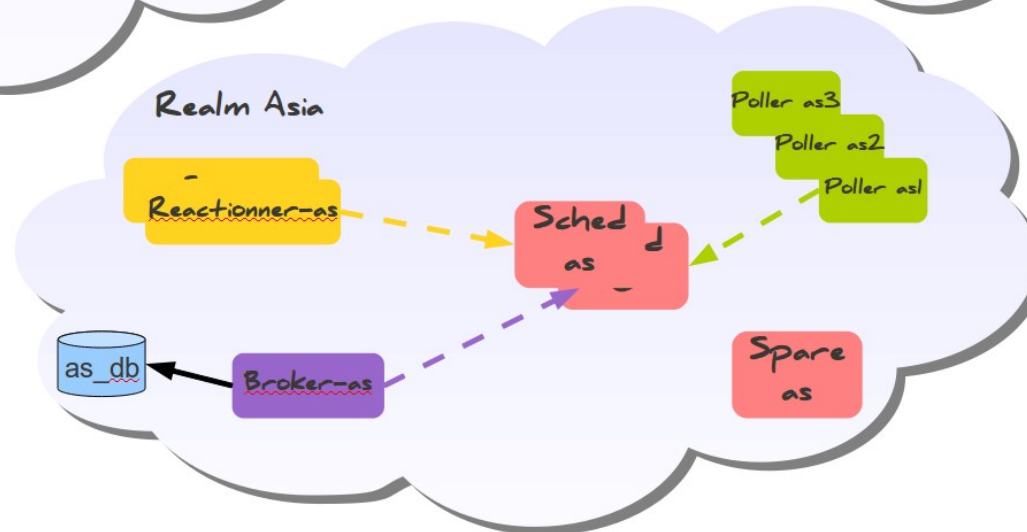
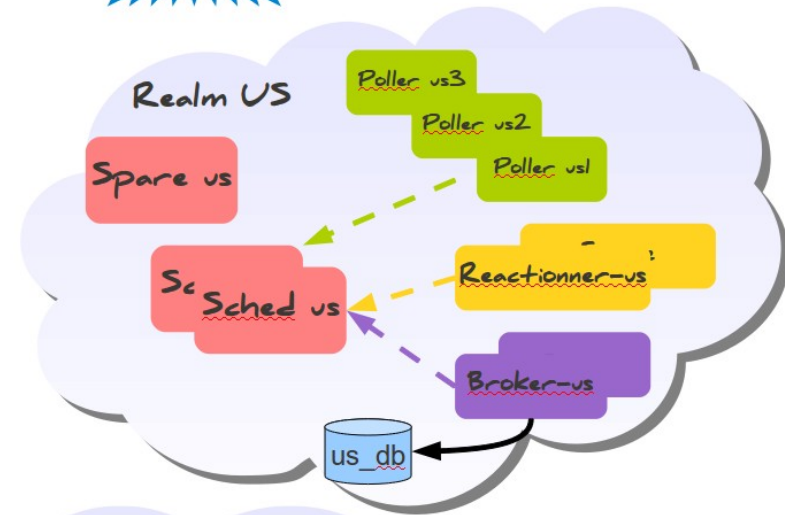
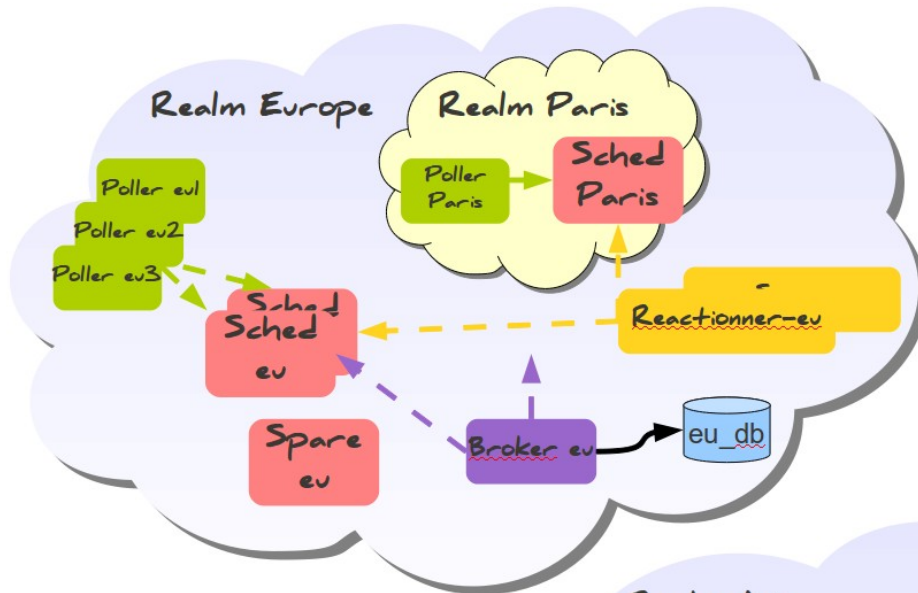
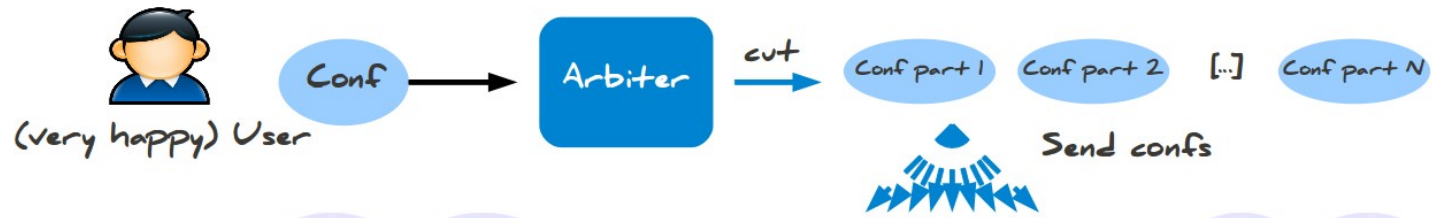
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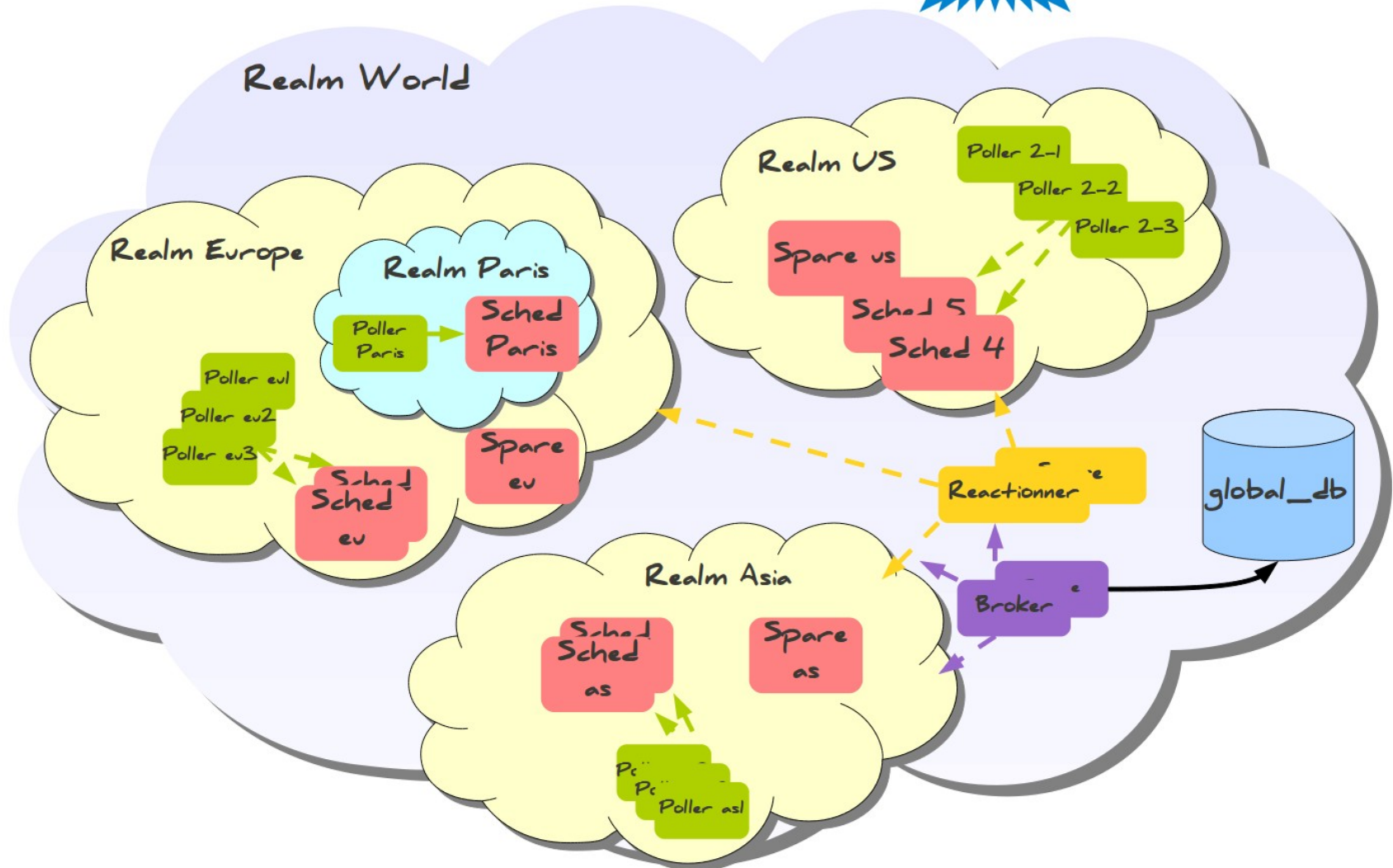
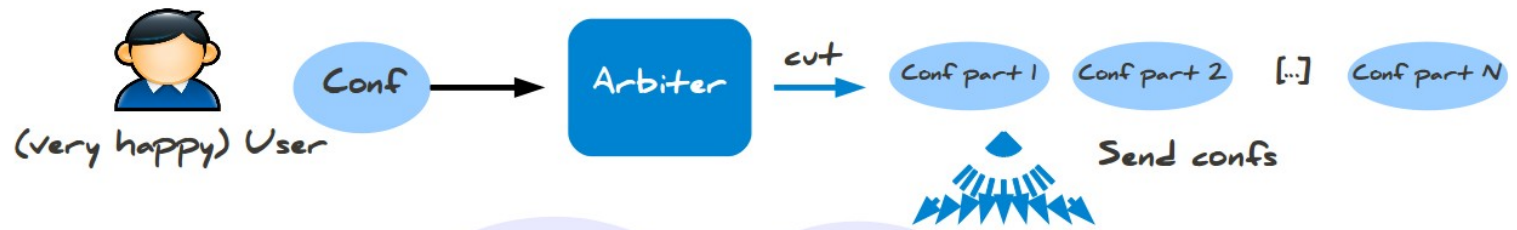
Equilibrage de charge (distribué)



- L'équilibrage de charge entre les schedulers est automatique (déterminé au découpage de la configuration)
- On peut éventuellement spécifier un « poids » pour les schedulers afin de moduler la taille de la configuration prise en charge par ceux ci







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La supervision libre/opensource

Il manque quoi ?

- Une vision moins technique de la supervision
 - Supervision métier
 - Découpler la supervision des services par rapport aux hôtes
- Supervision applicative
 - Citrix
 - Client lourd
- Reporting souple et avec une base de rapports conséquente
- Une console plus réactive, configurable et prenant en compte les différents types de réseau et de terminaux
- Une ouverture aux CMDB



Merci !

