

NAGIOS

Nagios permet de surveiller aussi bien vos services que votre réseau et vous informe en temps réel.

- Surveillance réseau
- Surveillance service
- Remonter d'informations
- Interface web
- Configuration
- Plugin

Surveillance réseau

- Surveille tout type de protocole:
 - SMTP
 - POP3
 - IMAPS
 - NFS
 - XMCP
 - ...

Surveillance réseau

- Verifie si un hôte est joignable:

Current Network Status
 Last Updated: Sun Jul 15 14:06:34 CDT 2001
 Updated every 75 seconds
 Nagios™ - www.nagios.org
 Logged in as guest
 - Monitoring process is running
 - **Notifications cannot be sent out!**
 - Service checks are being executed

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

Host Status Totals

Up	Down	Unreachable	Pending
28	3	4	0

All Problems	All Types
7	35

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
103	2	0	14	18

All Problems	All Types
16	137



Service Overview For All Host Groups

Win9x Workstations (9x-workstations)

Host	Status	Services	Actions
apps98	UP	1 OK	

Bogus Servers (bogus-servers)

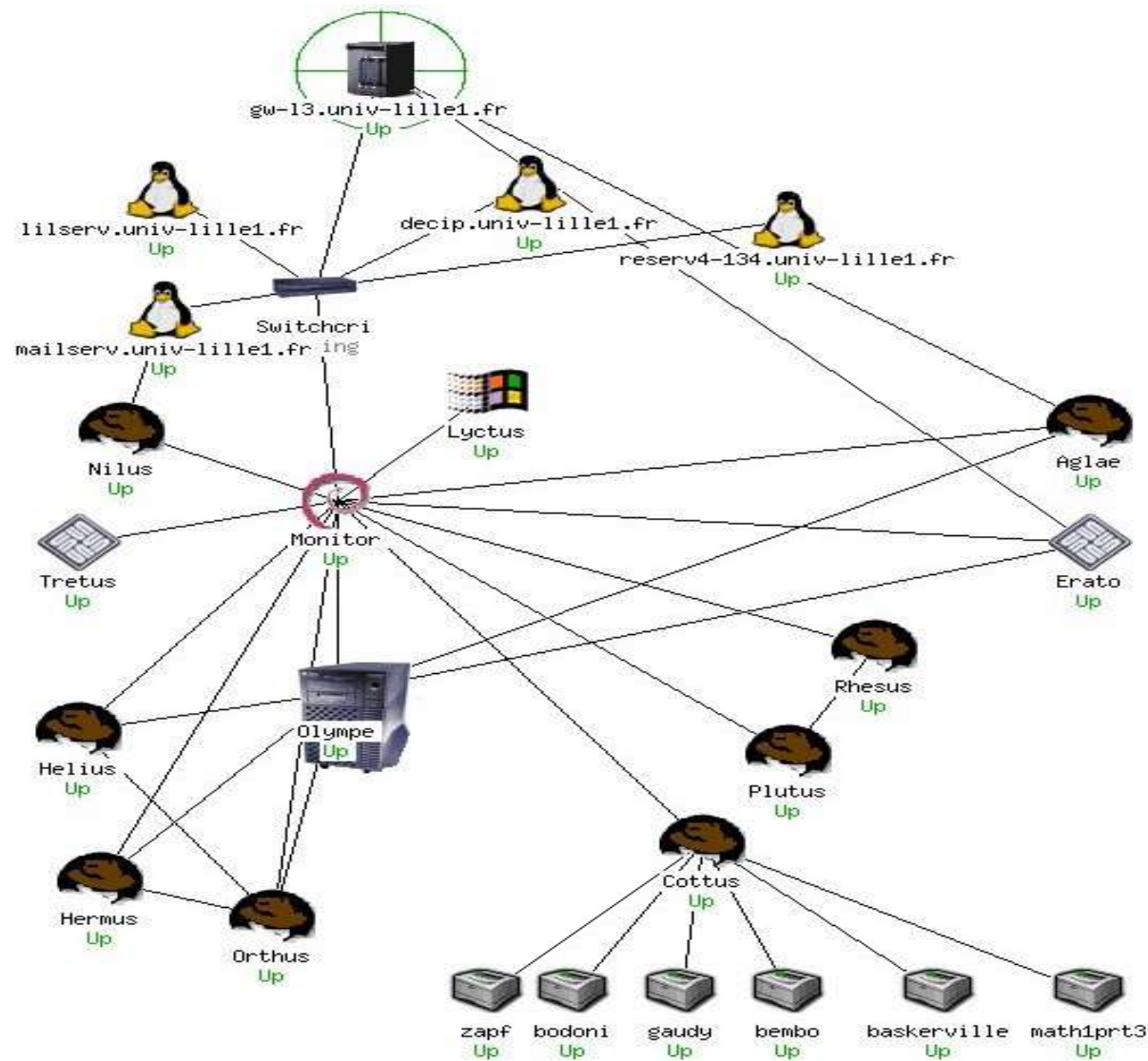
Host	Status	Services	Actions
bogus1	UNREACHABLE	2 CRITICAL	
bogus2	UNREACHABLE	2 CRITICAL	
bogus3	UNREACHABLE	2 CRITICAL	
bogus4	DOWN	2 CRITICAL	
bogus5	UNREACHABLE	2 CRITICAL	

Linux Servers (linux-boxes)

Host	Status	Services	Actions
linux1	UP	1 OK 3 PENDING	
linux2	UP	1 OK 3 PENDING	
linux3	UP	1 OK 3 PENDING	
linux4	UP	1 OK 3 PENDING	
linux5	UP	1 OK 3 PENDING	
linux6	UP	1 OK 3 PENDING	


Surveillance réseau

- Plan du réseau:



Surveillance service

- Surveillance de différents services:

Cottus	 Check SSH	OK	03-22-2004 22:37:54	18d 7h 0m 18s	1/3	SSH OK - OpenSSH_3.5p1 (protocol 1.99)
	Disk	OK	03-22-2004 22:39:28	3d 12h 14m 28s	1/3	Disk utilization: All disks below thresholds.
	Load	OK	03-22-2004 22:40:30	3d 12h 13m 18s	1/3	Load average: 0.03
	Load Alert	OK	03-22-2004 22:41:48	3d 12h 16m 58s	1/3	Load average: 0.03
	PING	OK	03-22-2004 22:42:33	0d 0h 10m 18s	1/3	PING OK - Packet loss = 0%, RTA = 3.90 ms
	Process	OK	03-22-2004 22:39:29	3d 12h 14m 28s	1/3	Number of processes: 113
	Procs cupsd	OK	03-22-2004 22:40:31	3d 12h 13m 8s	1/3	Number of processes: 1
	Users	OK	03-22-2004 22:41:48	3d 12h 16m 58s	1/3	Users connected: 1

Surveillance service

- Surveille tout type de service:
 - Apache
 - Postfix
 - Cupsd
 - NFS-server
 - ...

Surveillance service

- Surveille les services de machines distantes:
 - Utilisation de sondes
 - Utilisation de snmp

Remonter d'informations

Nagios permet de prévenir en temps réel l'administrateur de tous problèmes aussi bien sur le réseau que sur les serveurs.

Les différents types d'alertes:

- Mails
- WAP
- Interface web
- Console
- Utilisation de plugin

Remonter d'informations

- Mails:

***** Nagios *****

Notification Type: PROBLEM

Service: LOAD

Host: Akela

Address: 192.168.1.21

State: CRITICAL

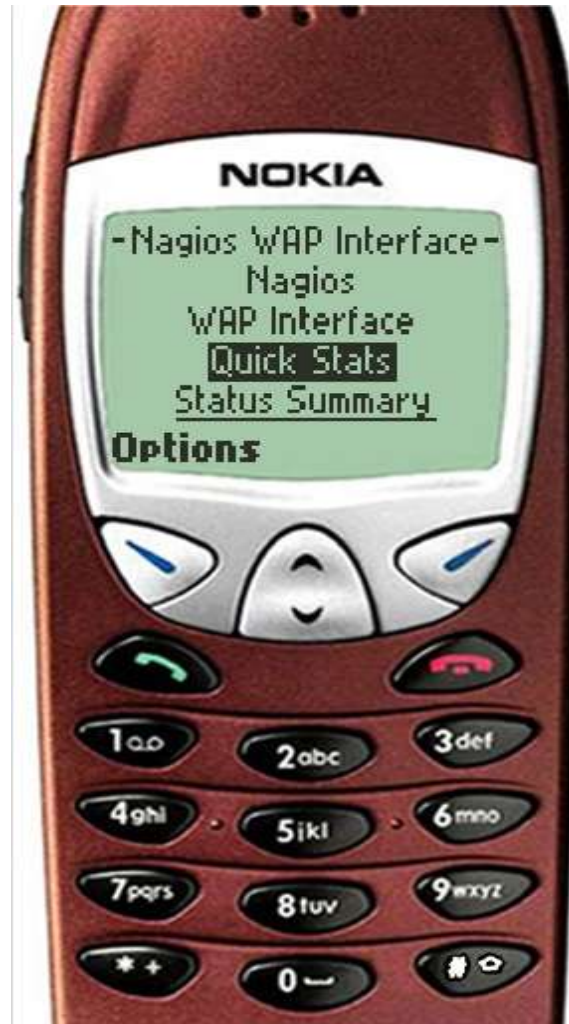
Date/Time: Mon Mar 20 23:20:28 CET 2004

Additional Info:

No Answer from Client

Remonter d'informations



- WAP:






Remonter d'informations

- Interface web:



July 15, 2001 14:00

-  [07-15-2001 14:10:17] SERVICE ALERT: switch-bb1;PING;OK;SOFT;2;PING ok - Packet loss = 0%, RTA = 13.30 ms
-  [07-15-2001 14:09:18] SERVICE ALERT: switch-bb1;PING;WARNING;SOFT;1;PING WARNING - Packet loss = 0%, RTA = 54.40 ms




July 15, 2001 12:00

-  [07-15-2001 12:39:07] SERVICE ALERT: netware2;PING;OK;SOFT;3;PING ok - Packet loss = 0%, RTA = 0.20 ms
-  [07-15-2001 12:38:09] SERVICE ALERT: netware2;PING;CRITICAL;SOFT;2;PING CRITICAL - Packet loss = 0%, RTA = 341.60 ms
-  [07-15-2001 12:37:08] SERVICE ALERT: netware2;PING;WARNING;SOFT;1;PING WARNING - Packet loss = 0%, RTA = 208.40 ms



July 15, 2001 10:00

-  [07-15-2001 10:14:58] SERVICE ALERT: netware2;SYS Volume;OK;SOFT;2;1822 MB (72%) free on volume SYS
-  [07-15-2001 10:13:58] SERVICE ALERT: netware2;SYS Volume;WARNING;SOFT;1;recv() failed

July 15, 2001 09:00

-  [07-15-2001 09:22:07] SERVICE ALERT: netware2;PING;OK;SOFT;3;PING ok - Packet loss = 0%, RTA = 41.30 ms
-  [07-15-2001 09:21:08] SERVICE ALERT: netware2;PING;WARNING;SOFT;2;PING WARNING - Packet loss = 0%, RTA = 223.10 ms
-  [07-15-2001 09:20:08] SERVICE ALERT: netware2;PING;WARNING;SOFT;1;PING WARNING - Packet loss = 0%, RTA = 293.70 ms

July 15, 2001 07:00

-  [07-15-2001 07:04:58] SERVICE ALERT: netware2;PING;OK;SOFT;2;PING ok - Packet loss = 0%, RTA = 0.20 ms
-  [07-15-2001 07:04:08] SERVICE ALERT: netware2;PING;WARNING;SOFT;1;PING WARNING - Packet loss = 0%, RTA = 232.30 ms

Remonter d'informations

Current Network Status

Last Updated: Sun Jul 15 14:03:12 CDT 2001

Updated every 75 seconds

Nagios™ - www.nagios.org

Logged in as guest

- Monitoring process is running
- **Notifications cannot be sent out!**
- Service checks are being executed

[View History For all hosts](#)

[View Notifications For All Hosts](#)

Host Status Totals

Up	Down	Unreachable	Pending
28	3	4	0

All Problems	All Types
7	35

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
103	2	0	14	18

All Problems	All Types
16	137



Display Filters:

Host Status Types: All
 Host Properties: Any
 Service Status Types: All Problems
 Service Properties: Any

Service Details For All Hosts

Host ↑↓	Service ↑↓	Status ↑↓	Last Check ↑↓	Duration ↑↓	Attempt ↑↓	Service Information
bogus-router	PING	CRITICAL	07-15-2001 13:59:39	4d 3h 43m 17s	1/3	CRITICAL - Plugin timed out after 10 seconds
bogus1	Something...	CRITICAL	07-15-2001 14:00:38	4d 3h 58m 49s	1/3	(Service Check Timed Out)
	PING	CRITICAL	07-15-2001 14:02:36	4d 3h 58m 49s	1/3	CRITICAL - Plugin timed out after 10 seconds
bogus2	PING	CRITICAL	07-15-2001 13:59:09	4d 3h 44m 27s	1/3	CRITICAL - Plugin timed out after 10 seconds
	Something...	CRITICAL	07-15-2001 13:59:39	4d 3h 42m 26s	1/3	(Service Check Timed Out)
bogus3	PING	CRITICAL	07-15-2001 14:00:38	4d 3h 42m 7s	1/3	CRITICAL - Plugin timed out after 10 seconds
	Something...	CRITICAL	07-15-2001 13:57:36	4d 3h 30m 35s	1/3	(Service Check Timed Out)

Interface web

L'interface web permet en quelques clics de savoir l'état de son réseau et des serveurs.

Elle permet d'avoir une vision global des serveurs.

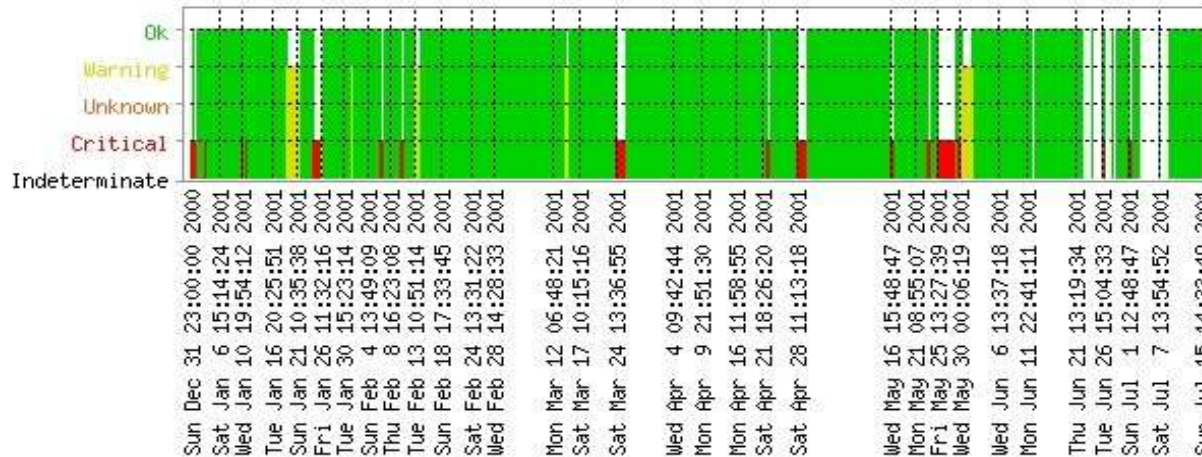
L'interface web permet également de prévoir des “downtime”, de faire des graphiques des durées de pannes ou encore de montrer des informations externes.

Interface web

- Graphique:

Trends

State History For Service 'Printer Status' On Host 'printer1'
Sun Dec 31 23:00:00 2000 to Sun Jul 15 14:33:49 2001



State Breakdowns:

Ok : (80.3%) 157d 1h 28m 8s
Warning : (4.0%) 7d 18h 19m 25s
Unknown : (0.0%) 0d 0h 0m 0s
Critical : (8.3%) 16d 6h 3m 54s
Indeterminate: (7.4%) 14d 12h 42m 22s



Configuration

La configuration de Nagios se fait de la manière suivante:

- Définition des hôtes (ip, nom de machine, ...)
- Définition des services (templates)
- Définition des contacts (groupes de contact, mail, ...)
- Définition des groupes (groupes de serveurs)

Possibilité de visualiser la configuration via l'interface web.

De nombreux plugins existent pour configurer nagios de façon graphique.

Plugin

Nagios peut utiliser des plugins ou différentes sondes, il est ainsi très facile de monitorer un seul processus que de savoir si un port d'un switch est “linké”.