

Fan



**Fan**  
*Fully Automated Nagios*

Cédric TEMPLE

- Superviser les services standards
  - HTTP, DNS, FTP, DHCP, SMTP, POP, IMAP, ...
- Superviser le matériel
  - État des disques physiques, CPU, DIM, cartes RAID, ventilateurs, sondes de températures, ...
- Superviser les applicatifs
  - Services web, processus, fichiers de log, serveurs d'application Java, ...
- Superviser les équipements réseaux
  - Routeurs, switchs, Firewall, Wifi, ...

- Interface web de supervision "basique"
- Interface web de configuration
- Graphiques de tendance
- Cartographie
- Reporting
- Procédures de récupération
- Stockage des données dans une base SQL

- "C'est la crise!!!! haaaaaaaaa!!!"
- Traduction
  - Peu de budget
  - Prouver rapidement
  - Peu de budget
  - Ré-intégrer au maximum en interne
  - Peu de budget
  - Argent à dépenser utilement
  - Peu de budget

- Nagios
- Les plugins Nagios
- Centreon
- NagVis
- NaReTo
- Dokuwiki
- NDOUtils+MySQL

- Installer...
  - Tout
  - Sans se tromper
  - Avec une belle documentation
- 
- Un stagiaire?
  - Une société de service?
  - Non... moi! Je peux le faire! Yes I can!



- Distribution Linux orientée supervision
- Un CD contient
  - Le système d'exploitation
  - Les applications de supervision
- FAN est basé sur CentOS
- FAN ajoute les paquets de supervision
- FAN pré-configuré les outils
- FAN est un projet Libre et gratuit
- <http://fannagioscd.sourceforge.net>

- Installation par... quelqu'un!!!
  
- Documentation:
  - "Mettre le CDRROM dans le lecteur"
  - "Démarrer le serveur"
  - "Taper la touche <entrée>"
  - "Sourire"
  - "C'est prêt"

- Nagios 3 et les plugins Nagios 1.4.13
- Centreon 2.0.1
- NaReTo 1.1.6
- NagVis 1.3.2
- NDOUtils 1.4b7
- Dokuwiki (dernière version)
- NRPE et NSCA dans leurs dernières versions
- Plugins SNMP externes
  - MySQL, Postgres, SNMP, Cisco, HP, ....

- Interface web plus agréable

**Tactical Monitoring Overview**  
 Last Updated: Mon Dec 6 15:45:06 CET 2004  
 Updated every 30 seconds  
 Nagios® - www.nagios.org  
 Logged in as nagiosadmin

**Monitoring Performance**  
 Check Execution Time: 0 / 0 / 0,000 sec  
 Check Latency: 0 / 0 / 0,000 sec  
 # Active Checks: 3  
 # Passive Checks: 0

**Network Outages**  
 0 Outages

**Network Health**  
 Host Health: ██████████  
 Service Health: ██████████

**Hosts**

0 Down	0 Unreachable	2 Up	1 Pending
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**Services**

1 Critical	0 Warning	0 Unknown	2 Ok	0 Pending
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**Monitoring Features**

Flap Detection	Notifications	Event Handlers	Active Checks	Passive Checks
Disabled	Enabled	Enabled	Enabled	Enabled
N/A	All Services Enabled All Hosts Enabled	All Services Enabled All Hosts Enabled	All Services Enabled All Hosts Enabled	All Services Enabled All Hosts Enabled

**Home**

**Monitoring**

- Tactical Overview
- Service Detail
- Host Detail
- Hostname
- Host Group
- Service Group
- Status Map
- Problems
- Comments
- Downtime
- Perfparse

**Reporting**

- Trends
- Availability
- Alerts
- Notifications
- Event Log

**Configuration**

**Tactical Monitoring Overview**  
 Last Updated: Wed Nov 15 18:09:11 CET 2006  
 Updated every 60 seconds  
 Nagios® - www.nagios.org  
 Logged in as nagiosadmin

**Monitoring Performance**  
 Service Check Execution Time: 0.15 / 4.24 / 0.678 sec  
 Service Check Latency: 0.02 / 0.99 / 0.531 sec  
 Host Check Execution Time: 0.03 / 0.03 / 0.028 sec  
 Host Check Latency: 0.14 / 0.84 / 0.424 sec  
 # Active Host / Service Checks: 8 / 100  
 # Passive Host / Service Checks: 0 / 0

**Network Outages**  
 0 Outages

**Network Health**  
 Host Health: ██████████  
 Service Health: ██████████

**Hosts**

0 Down	0 Unreachable	8 Up	0 Pending
--------	---------------	------	-----------

**Services**

1 Critical	3 Warning	0 Unknown	96 Ok	0 Pending
------------	-----------	-----------	-------	-----------

**Monitoring Features**

Flap Detection	Notifications	Event Handlers	Active Checks	Passive Checks
Disabled	Enabled	Disabled	Enabled	Enabled
N/A	2 Services Disabled All Hosts Enabled	N/A	All Services Enabled All Hosts Enabled	All Services Enabled All Hosts Enabled

- Outil polyvalent basé sur Nagios
- Interface web de configuration
- Interface web de Supervision
- Interface de Reporting
- Graphiques RRDTool
  - Taux d'occupation CPU/RAM/Partitions/...
- Forte communauté française
- Nombreux tutoriels

**centreon**

Hosts States Up Down Unreachable Pending: 8 3 0 0  
 Service States Ok Warning Critical Pending Unknown: 52 2 13 0 6

Documentation Logout

Home | Monitoring | Views | Reporting | Configuration | Administration

Dashboard

Reporting > Dashboard > Hosts 2008/06/30 15:01

Host: RMS-PRD-SD1 From 30.06/2008 (8:00:00) to 30.06/2008 (15:01:12) - Duration : 15h 1m 12s

**RMS-PRD-SD1**

Down Up

Period Selection

Today

Begin date:

End date:

Status	Time	Total Time	Known Time	Alert
Up	26m 8s	2.9%	2.9%	2
Down	14h 35m 4s	97.1%	97.1%	2
Unreachable		0%	0%	0
Undetermined		0%		
<b>All</b>	<b>15h 1m 12s</b>	<b>100%</b>	<b>100%</b>	<b>4</b>

Service	OK		Warning		Critical		Unknown		Undetermined	
	%	Alert	%	Alert	%	Alert	%	Alert	%	Alert
Swap	100.0% (100.0%)	2	0.0% (0.0%)	0	0.0% (0.0%)	0	0.0% (0.0%)	0	0%	0%
memory	0.0% (0.0%)	0	100.0% (100.0%)	4	0.0% (0.0%)	0	0.0% (0.0%)	0	0%	0%
cpu	100.0% (100.0%)	4	0.0% (0.0%)	0	0.0% (0.0%)	0	0.0% (0.0%)	0	0%	0%
C	100.0% (100.0%)	2	0.0% (0.0%)	0	0.0% (0.0%)	0	0.0% (0.0%)	0	0%	0%
ping	100.0% (100.0%)	2	0.0% (0.0%)	0	0.0% (0.0%)	0	0.0% (0.0%)	0	0%	0%
VMS-CPU	100.0% (100.0%)	2	0.0% (0.0%)	0	0.0% (0.0%)	0	0.0% (0.0%)	0	0%	0%
VMS-DISK	100.0% (100.0%)	2	0.0% (0.0%)	0	0.0% (0.0%)	0	0.0% (0.0%)	0	0%	0%
VMS-MEMORY	0.0% (0.0%)	0	100.0% (100.0%)	2	0.0% (0.0%)	0	0.0% (0.0%)	0	0%	0%
E	0.0% (0.0%)	0	0.0% (0.0%)	0	0.0% (0.0%)	0	0.0% (0.0%)	0	0%	0%
<b>Average</b>	<b>68.667% (68.667%)</b>	<b>1.8</b>	<b>22.222% (22.222%)</b>	<b>0.7</b>	<b>0.0% (0.0%)</b>	<b>0</b>	<b>0% (0%)</b>	<b>0</b>	<b>0%</b>	<b>0%</b>

0.01%  
0.18%  
99.82%

Generated in 2.887 seconds  
 Copyright © 1999-2008 Nagios - Ethan Galstad | Copyright © 2004-2008 Centreon

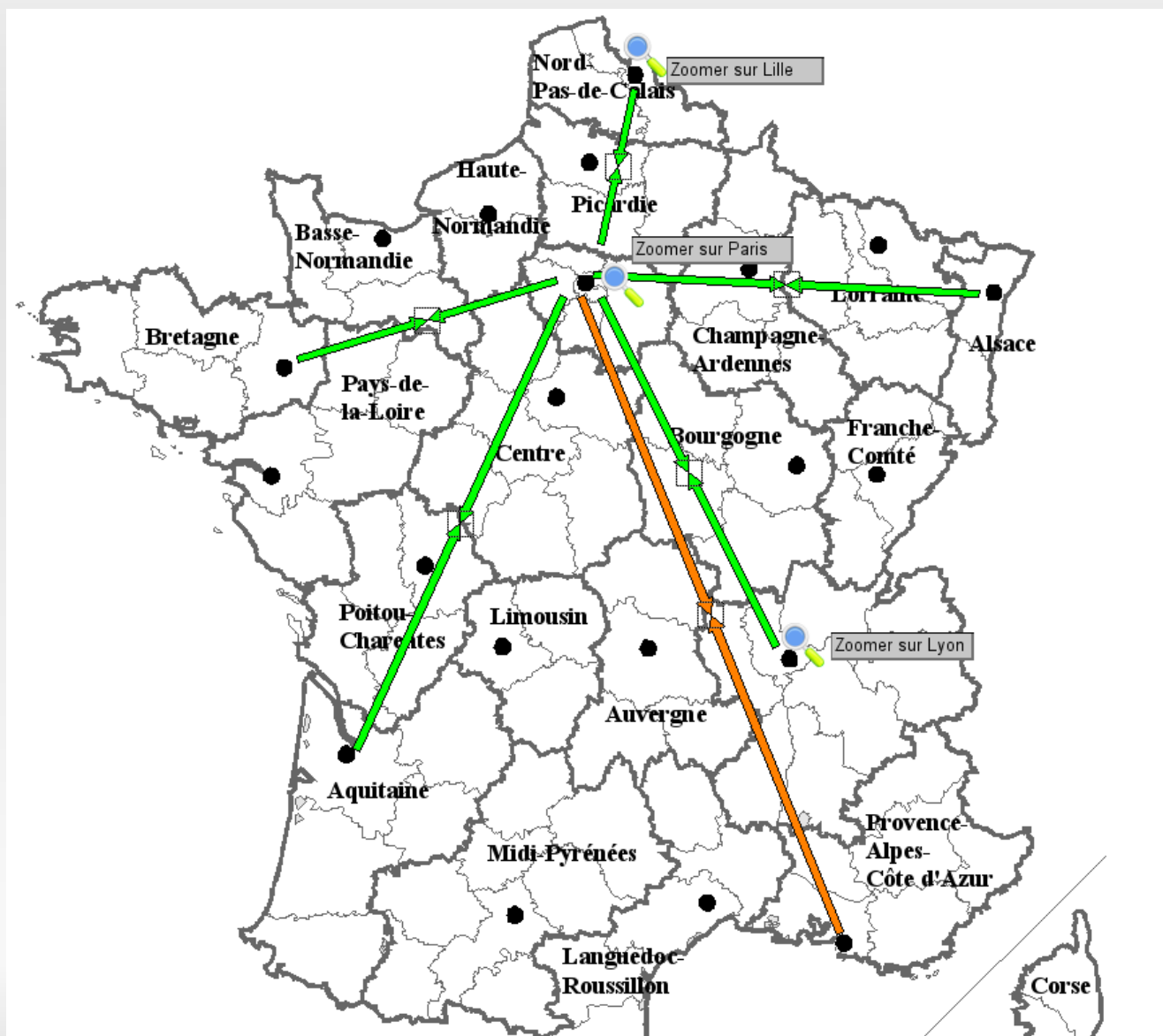
The screenshot displays the Centreon monitoring dashboard. At the top, the Centreon logo is on the left, and a summary table shows the status of hosts and services. Below this is a navigation menu with options like Home, Monitoring, Views, Reporting, Configuration, and Administration. A search bar and checkboxes for 'host' and 'service' are also present.

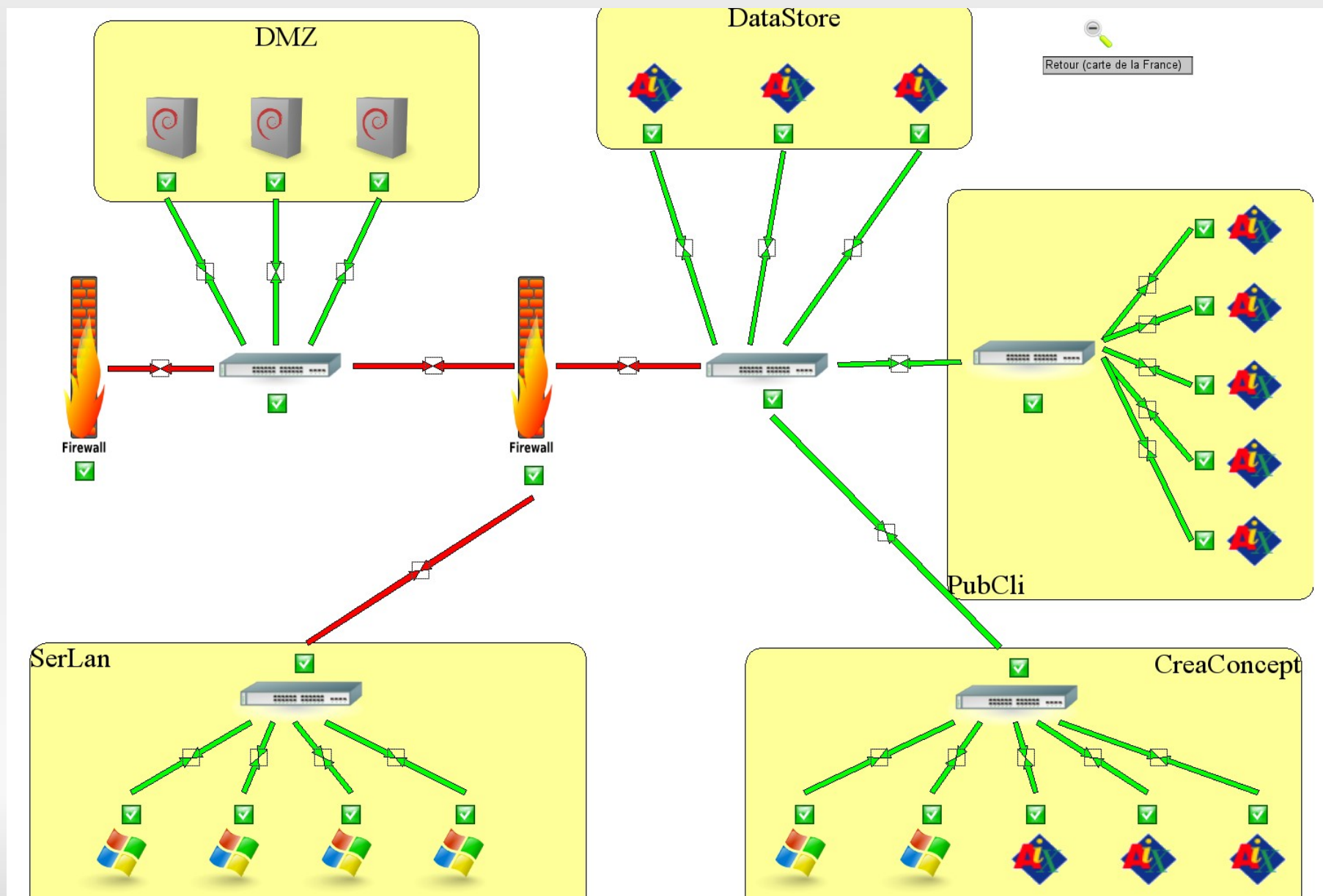
The main content area shows a list of services under the heading 'Monitoring > Services > Services Problems'. The table below lists various services and their current status.

Hosts	Services	Status	Duration	Last Check	Tries	Status information
Take	ping	CRITICAL	2w 5d 4h 8m 52s	30/06/2008 15:55:21	1	GPING CRITICAL - --- 10.1.8.2 ping statistics ---
	VMM-CPU	CRITICAL	2w 5d 4h 10m 52s	30/06/2008 15:57:17	3	CHECK_NRPE: Socket timeout after 10 seconds.
	VMM-DISK	CRITICAL	2w 5d 4h 9m 52s	30/06/2008 15:58:18	3	CHECK_NRPE: Socket timeout after 10 seconds.
	VMM-MEMORY	CRITICAL	2w 5d 4h 9m 52s	30/06/2008 15:56:20	3	CHECK_NRPE: Socket timeout after 10 seconds.
EAME2	ping	CRITICAL	2w 4d 22h 35m 8s	30/06/2008 15:54:26	3	GPING CRITICAL - --- 10.1.8.3 ping statistics ---
	VMM-CPU	CRITICAL	2w 4d 22h 36m 59s	30/06/2008 15:56:22	3	CHECK_NRPE: Socket timeout after 10 seconds.
	VMM-DISK	CRITICAL	2w 4d 22h 36m 8s	30/06/2008 15:57:23	3	CHECK_NRPE: Socket timeout after 10 seconds.
	VMM-MEMORY	CRITICAL	2w 4d 22h 36m 8s	30/06/2008 15:58:24	3	CHECK_NRPE: Socket timeout after 10 seconds.
RMS-GRF-MOM01	E	UNKNOWN	2d 5h 9m 41s	30/06/2008 15:56:28	3	ERROR: hrStorageDescr Table : No response from remote host '172.27.0.25'.
	snmptrap_windows	CRITICAL	6d 23h 45m 9s	30/06/2008 15:57:09	5	CRITICAL: Nothing received since 60 seconds.
RMS-GRF-MOM03	E	UNKNOWN	2d 5h 9m 42s	30/06/2008 15:56:55	3	ERROR: hrStorageDescr Table : No response from remote host '172.27.0.27'.
	snmptrap_windows	CRITICAL	4d 23h 57m 9s	30/06/2008 15:57:09	5	CRITICAL: Nothing received since 60 seconds.
RMS-PRD-FW5	snmptrap_windows	CRITICAL	6d 23h 45m 9s	30/06/2008 15:57:09	5	CRITICAL: Nothing received since 60 seconds.
RMS-PRD-SD1	E	CRITICAL	2w 4d 5h 13m 22s	30/06/2008 15:53:49	3	Disk CRITICAL - no output (-p number expected... it doesn't exist, try another disk - number
	memory	WARNING	8h 14m 41s	30/06/2008 15:54:56	3	Disk WARNING - Physical Memory TOTAL: 0.249 Go USED: 88% : 0.222 Go
	VMM-MEMORY	WARNING	8h 14m 41s	30/06/2008 15:57:56	3	Warning - RAM Percentage Space Used = 88: OK -



- Outil de cartographie
- Récupère les données Nagios et les présente dans une interface web
- Fond de l'écran personnalisable:
  - Europe ==> France ==> Nord/PdC ==> Hordain
  - Photo de la salle machine
  - Plan réseau
  - Architecture n Tiers
  - ...



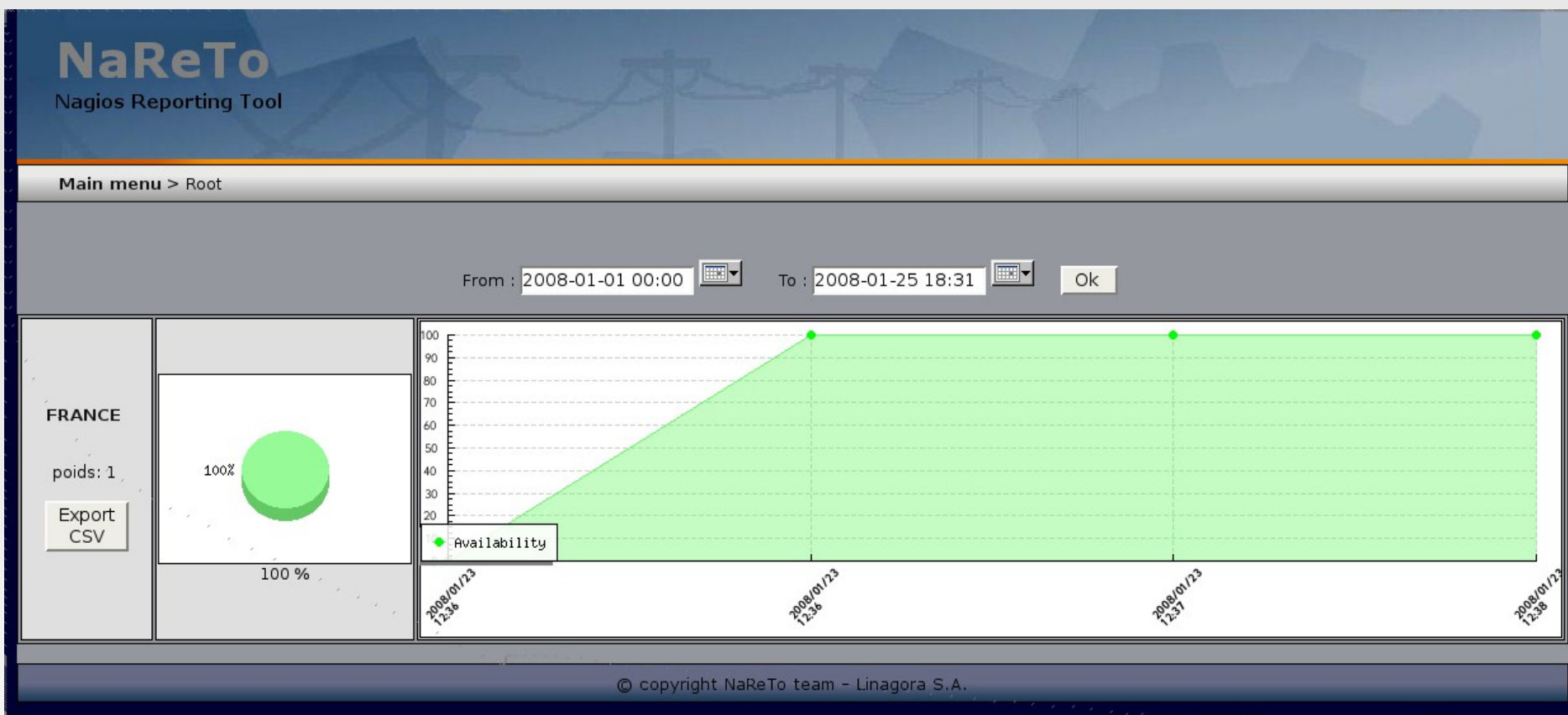


- Outil de reporting
- Navigation arborescente complètement configurable
- Différents modules
  - Visualisation temps réel
  - Reporting
  - Suivi des alarmes
  - Historique des alarmes

The screenshot displays the NaReTo Nagios Reporting Tool interface. At the top left, the logo 'NaReTo' is shown above the text 'Nagios Reporting Tool'. A breadcrumb trail reads 'Main menu > Root > FRANCE > LILLE > localhost'. A sidebar on the left contains a red button labeled 'localhost'. The main content area features a table of system metrics:

Current Users		
PING		
Root Partition		
Total Processes		
Current Load		

At the bottom, a legend defines the status icons: Critical (red circle), Warning (yellow circle), Unknown (orange circle), Pending (grey circle), Ok (green circle), and Problem acked (warning triangle). The footer contains the copyright notice: '© copyright NaReTo team - Linagora S.A.'



## NaReTo Nagios Reporting Tool

Main menu > Root

From 2008-01-19 To 2008-01-26 Ok

Domaine

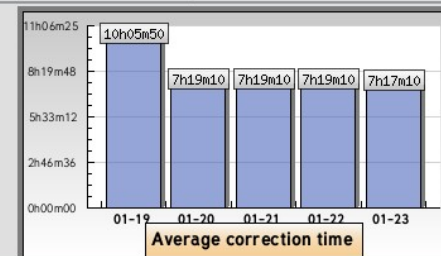
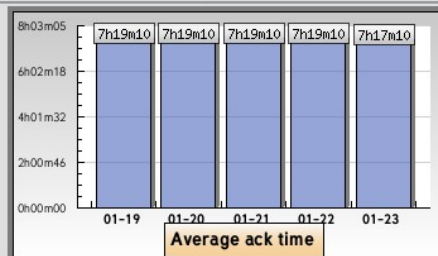
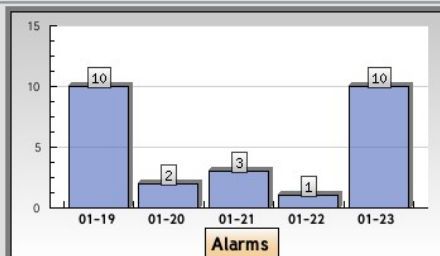
Alarms

Average ack time

Average correction time

FRANCE

Export  
CSV



- Plugins officiels
- Plugins SNMP de Manubulon (Patrick Proy) :
  - Supervision SNMP Windows, Linux, Cisco, ...
- Plugins externes  
(<http://www.nagiosexchange.org>)
  - Supervision matérielle HP/Compaq/IBM/Dell
  - Supervision Oracle
  - NRPE/NSCA
  - ...

- <http://fannagioscd.sourceforge.net>
- <http://sourceforge.net/projects/fannagioscd>
- <http://cedrictemple.net/dotclear/>
- Version en cours: 1.1
- Version 2.0 très très proche de la sortie
- Disponible depuis la version 0.2

- Responsable du projet:
  - Cédric Temple
- Développeurs:
  - Olivier LI-KIANG-CHEONG
  - Thibault COHEN
  - David HANNEQUIN
  - Arthur CLEMENT

- Packaging
  - Michel Loiseleur ; Clément Oudot ; David Dumortier
- Documentation
  - Manuel Ozan et Sandie Mesnil
- Divers
  - Anthony Mercatante
  - Alexandre Fageon
  - Sophie Gautier
  - Mélanie Monnet

- Architecture distribuée
- Catégorisation de serveurs
  - Serveur central de consultation
  - Serveur de base de données
  - Serveur(s) collecteur(s)
- Installation automatisée de chaque catégorie
  - "central" au boot installe un serveur central
  - "database" au boot installe un serveur de base de données
  - "collector" installe un serveur collecteur

- Tous les développeurs
  - Nagios, Centreon, NaReTo, NagVis, NDOUtils, des plugins, CentOS, VirtualBox
- apsimar, Coren`, Kpitain, Tonyo, Alexandre:
  - Leur aide ponctuelle, leur idée, leur apport
- Les utilisateurs de FAN pour leurs retours
  - "Je préfère être insulté que de n'avoir aucun retour"
- À P'tit Poussin
  - Pour ses encouragements, son aide inopinée, ...

- À Sophie Gautier
  - Ses précieux conseils, sa simplicité
- À Solution Linux et à l'équipe d'organisation
- Et à vous (pour m'avoir écouté)