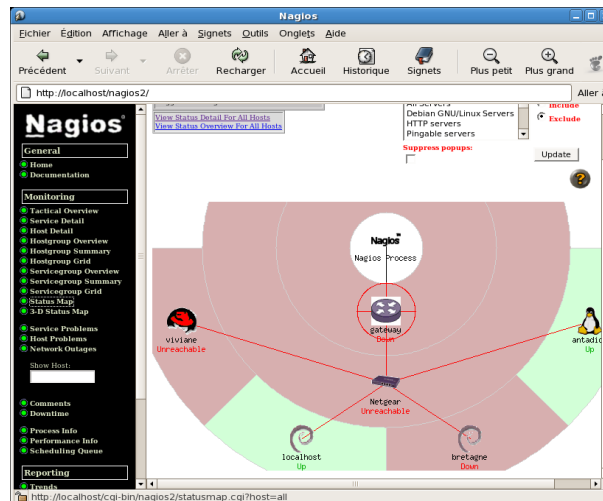


Configuration de NAGIOS 3 sous ubuntu 9.10

Henri TSOUNGUI



Configuration de NAGIOS 3 / ubuntu 9.10

© H. TSOUNGUI, ISTV, Valenciennes, jan 2010

1) Installation des paquets

The screenshot shows the Synaptic Package Manager window. The main list displays various packages related to Nagios 3. The 'nagios3' package is highlighted in green, indicating it is selected for installation. Other packages like 'nagios3-common', 'nagios3-doc', 'nagios-images', 'nagios-plugins', 'nagios-plugins-basic', and 'nagios-plugins-standard' are also highlighted in green. The 'nagios3' package description is visible in the bottom right pane.

S	Paquet	Version installée	Dernière version	Description
<input type="checkbox"/>	libnagios-object-perl		0.21.4-1	Perl module to parse and represent Nagios configuratio
<input type="checkbox"/>	libnagios-plugin-perl		0.33-1	family of perl modules to streamline writing Nagios
<input type="checkbox"/>	mailping		0.0.4ubuntu5+reall	monitor email service availability and functioning
<input type="checkbox"/>	munin		1.2.6-13ubuntu3	network-wide graphing framework (grapher/gatherer)
<input type="checkbox"/>	nagcon		0.0.30-0ubuntu1	console application interfacing to Nagios
<input checked="" type="checkbox"/>	nagios3		3.0.6-5ubuntu3	A host/service/network monitoring and management s
<input checked="" type="checkbox"/>	nagios3-common		3.0.6-5ubuntu3	support files for nagios3
<input type="checkbox"/>	nagios3-dbg		3.0.6-5ubuntu3	debugging symbols and debug stuff for nagios3
<input checked="" type="checkbox"/>	nagios3-doc		3.0.6-5ubuntu3	documentation for nagios3
<input type="checkbox"/>	nagiosgrapher		1.7.1-1	Charting add-on for Nagios
<input checked="" type="checkbox"/>	nagios-images		0.4	Collection of images and icons for the nagios system
<input type="checkbox"/>	nagios-nrpe-plugin		2.12-3ubuntu1	Nagios Remote Plugin Executor Plugin
<input type="checkbox"/>	nagios-nrpe-server		2.12-3ubuntu1	Nagios Remote Plugin Executor Server
<input checked="" type="checkbox"/>	nagios-plugins		1.4.13+git2009061	Plugins for the nagios network monitoring and manage
<input checked="" type="checkbox"/>	nagios-plugins-basic		1.4.13+git2009061	Plugins for the nagios network monitoring and manage
<input type="checkbox"/>	nagios-plugins-extra		1.4.13+git2009061	Plugins for the nagios network monitoring and manage
<input checked="" type="checkbox"/>	nagios-plugins-standard		1.4.13+git2009061	Plugins for the nagios network monitoring and manage
<input type="checkbox"/>	nagios-snmp-plugins		1.1.1-6	SNMP Plugins for nagios
<input type="checkbox"/>	nagios-statd-client		3.12-1	Nagios client for monitoring remote system informatio
<input type="checkbox"/>	nagios-statd-server		3.12-1	Nagios server for monitoring remote system informatio

A host/service/network monitoring and management system

Télécharger une capture d'écran

Nagios is a monitoring and management system for hosts, services and networks.

28 paquets listés, 1301 installés, 0 cassés. 22 à installer/mettre à jour, 0 à désinstaller ; 27,6 MB seront utilisés




Prévoir d'effectuer d'autres changements ?

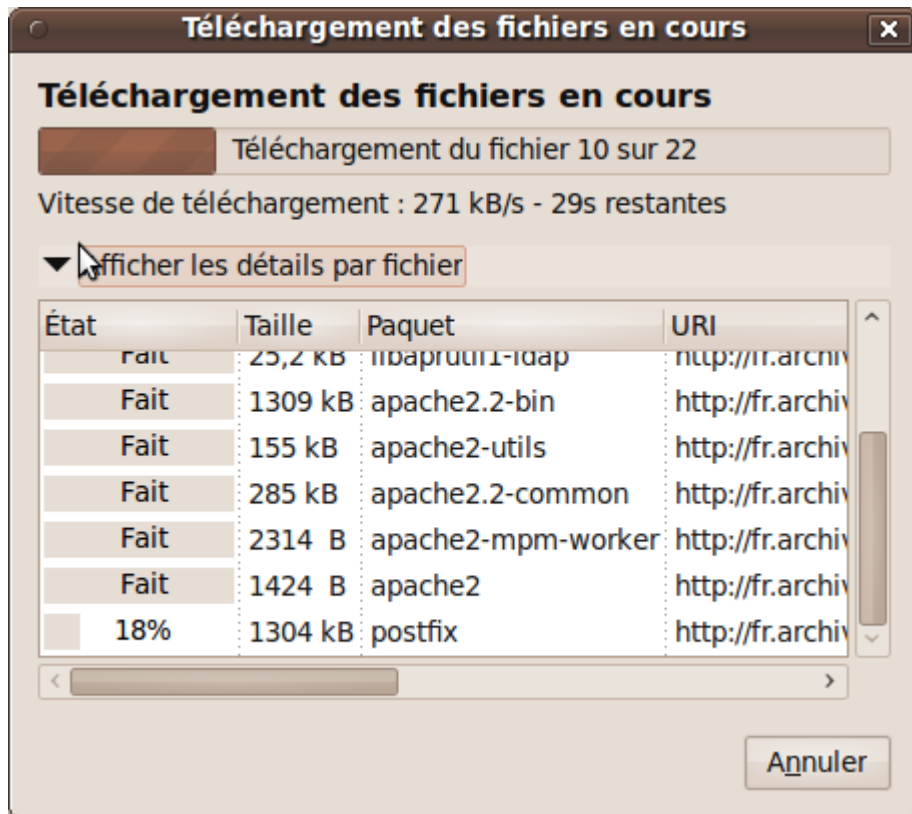
Les actions sélectionnées auront un effet sur d'autres paquets. Les modifications suivantes doivent s'exécuter dans un ordre précis pour aboutir.

- ▼ À installer
 - apache2
 - apache2-mpm-worker
 - apache2-utils
 - apache2.2-bin
 - apache2.2-common
 - bsd-mailx
 - libapr1
 - libaprutil1
 - libaprutil1-dbd-sqlite3
 - libaprutil1-ldap
 - libnet-snmp-perl
 - libradius1
 - nagios-images
 - nagios-plugins
 - nagios-plugins-basic
 - nagios-plugins-standard
 - nagios3-common
 - nagios3-doc
 - postfix
 - radiusclient1
 - snmp

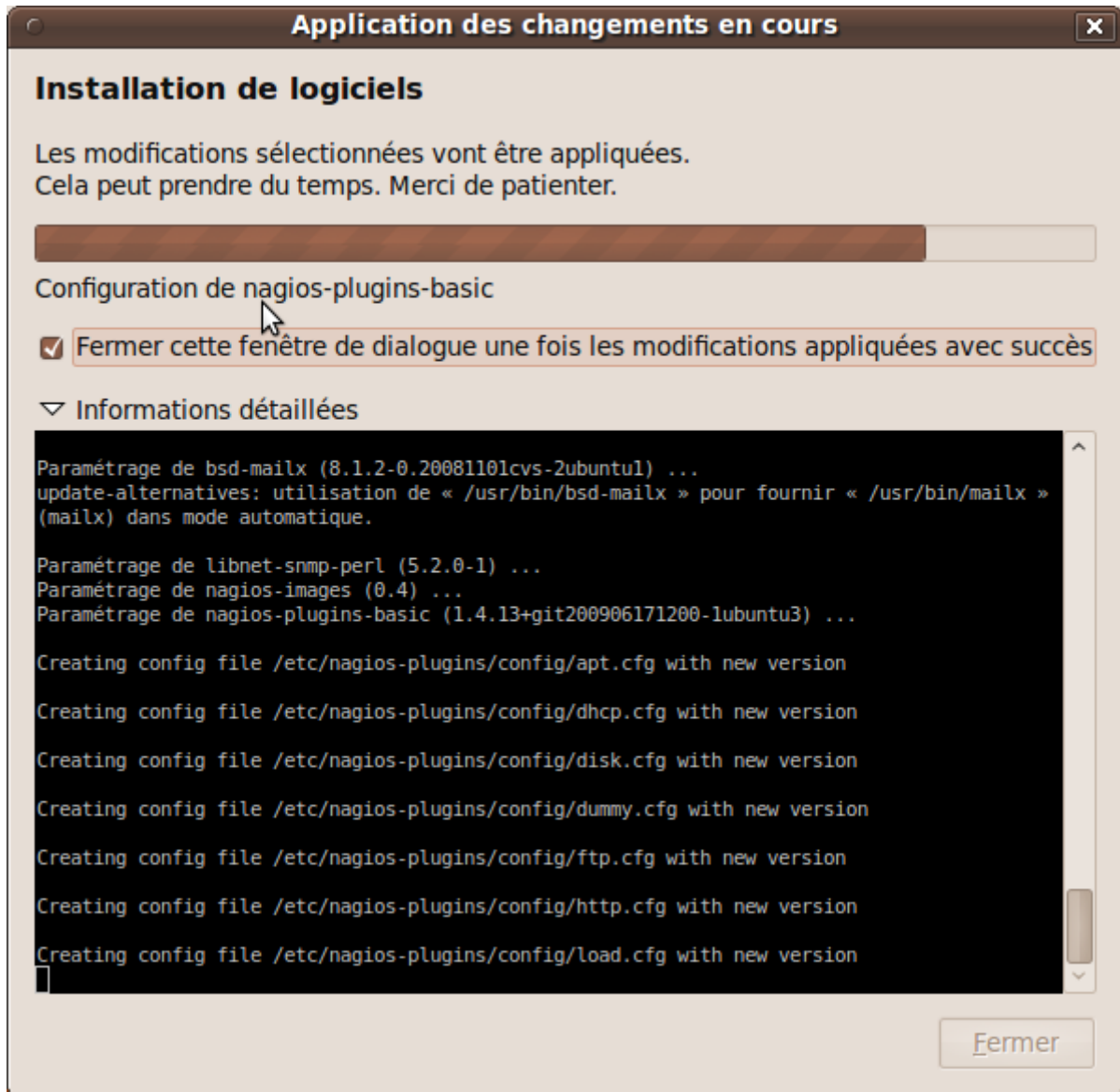
Annuler

 Ajouter à la sélection

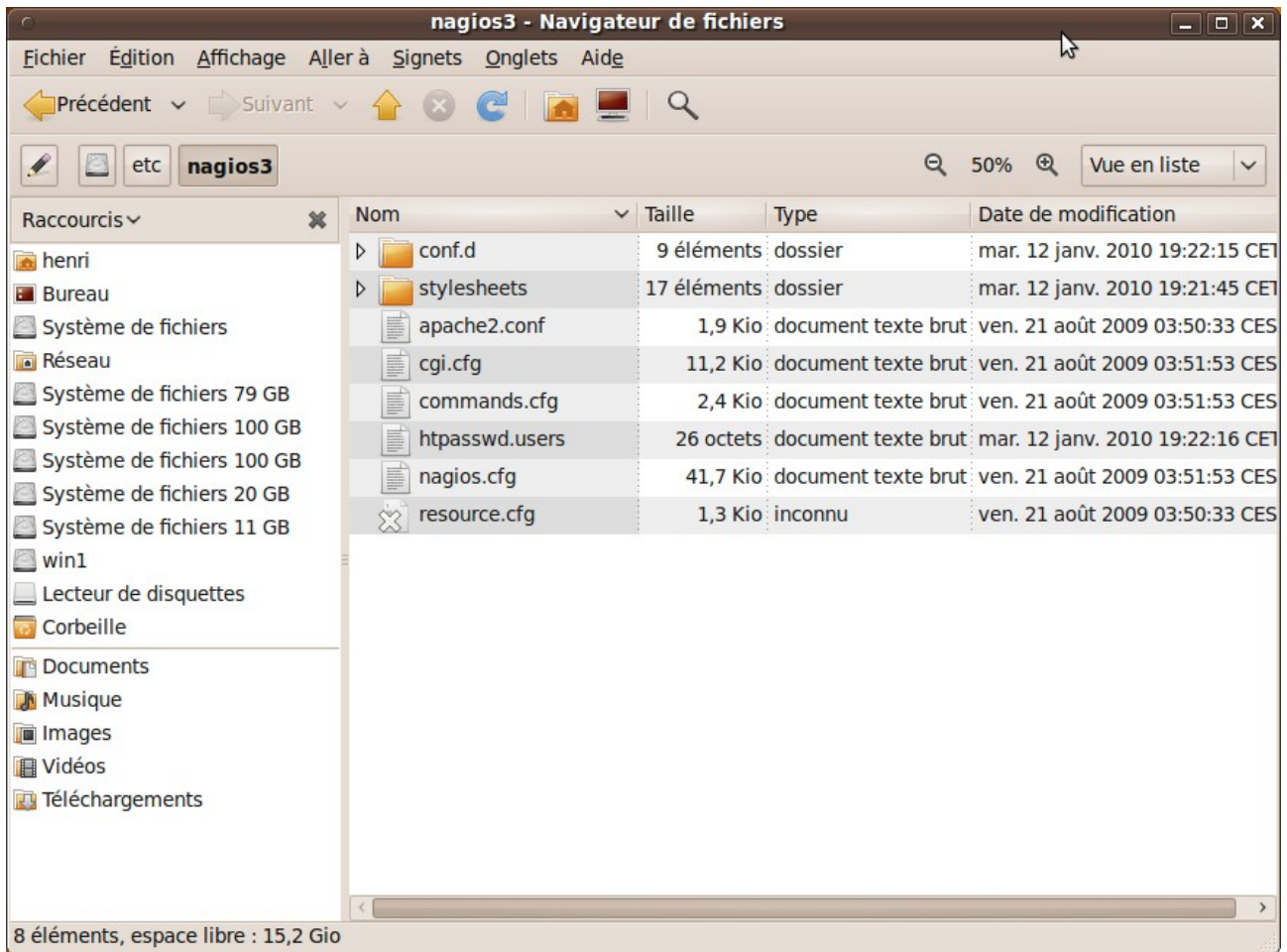
2) Téléchargement et installation des paquets







3)Fichiers de nagios dans /etc/nagios3



-/etc/nagios.cfg

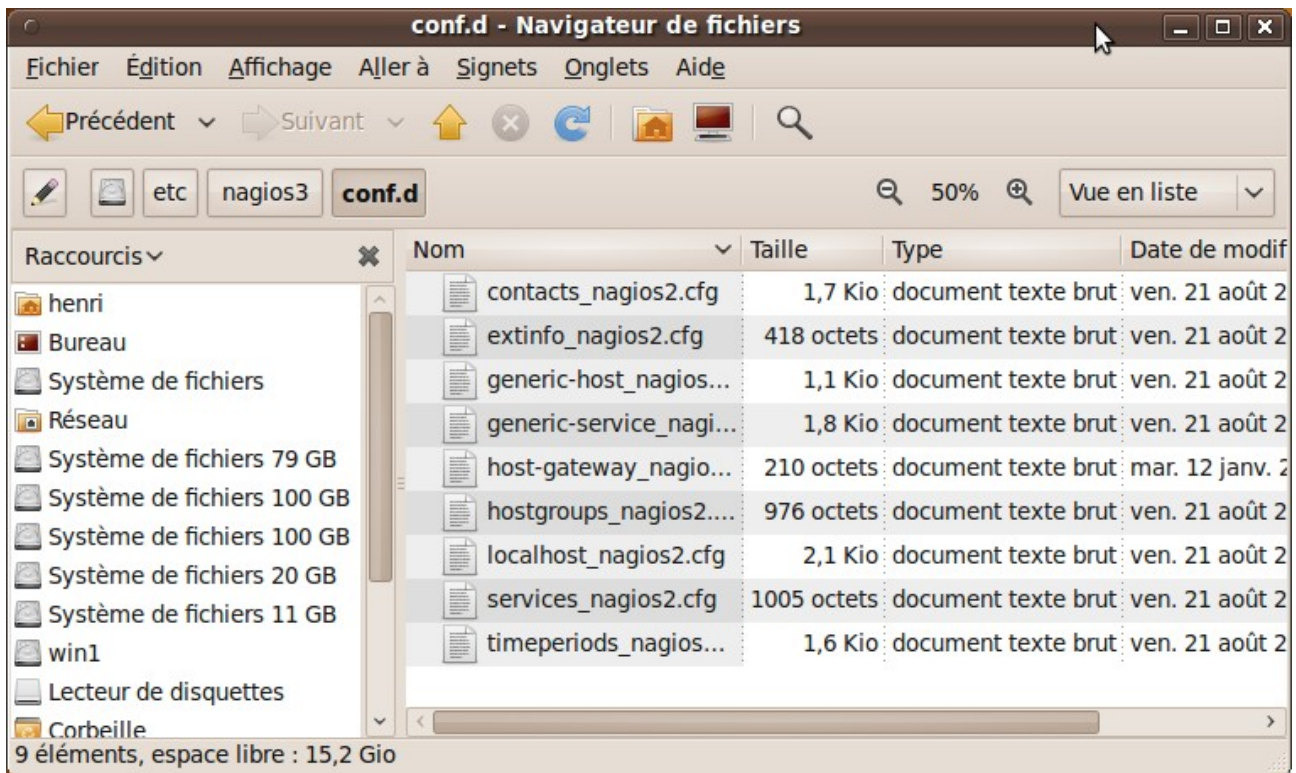
Le fichier pour htaccs est déjà prêt, il contient

nagiosadmin:JafIU8XLDjbyw

C'est-à-dire les login et mot de passe de l'administrateur nagios.

-Les fichiers à configurer sont dans le répertoire **/etc/nagios3/conf.d**

4) Configuration des hôtes et services



Accédons au répertoire `/etc/nagios3/conf.d` qui contient 9 fichiers de configuration et examinons-les.

-**localhost_nagios2** : c'est l'un des fichiers les plus importants. Il contient le paramétrage des hôtes et services à monitorer. Il constitue une fusion des deux fichiers des hôtes «**hosts.cfg**» et «**services.cfg**» dans une configuration mieux structurée.

Déclaration de la machine localhost, seule à surveiller pour l'instant.

```
define host{
    use          generic-host      ; utilisation d'un modèle d'hôte
    host_name    localhost         ; nom de la machine
    alias        localhost
    address      127.0.0.1
}
```

On peut ajouter un nouveau serveur de la manière suivante :

```
define host{
    use          generic-host      ; utilisation d'un modèle d'hôte
    host_name    merlin           ; nom de la machine
    alias        enchanteur
    address      192.168.1.23     ; adresse IP
}
```

Un nouveau service concernant merlin sera déclaré ainsi :

```
# Se contente de ping l'hôte merlin
define service {
    host_name    merlin
    service_description PING
    check_command check_ping!100.0,20%!500.0,60%
```



```

        use                generic-service
        notification_interval 0 ; s et > 0 if you want to be renotified
    }

```

Definition d'un service qui va surveiller le nombre n d'utilisateurs connectés
sur la station localhost. **Warning si n > 20 users**, état **critique si n > 50 users**.

```

define service{
    use                generic-service ; utilisation d'un modèle de service
    host_name          localhost
    service_description Current Users : nom du service
    check_command      check_users!20!50 # commande check=users
}

```

Define a service to check the number of currently running procs
on the local machine. **Warning if > 250** processes, critical if
> 400 processes.

```

define service{
    use                generic-service ; Name of service template to use
    host_name          localhost
    service_description Total Processes
    check_command      check_procs!250!400
}

```

Define a service to check the load on the local machine.

```

define service{
    use                generic-service ; Name of service template to use
    host_name          localhost
    service_description Current Load
    check_command      check_load!5.0!4.0!3.0!10.0!6.0!4.0
}

```

Attention : on ne peut déclarer un hôte sans lui associer au moins un service !

5) Test de la configuration

commande :

```
#nagios3 -v /etc/nagios3/nagios.cfg
```

(voir le résultat page suivante).

Vous devriez être heureux si la vérification ne fournit pas d'avertissement (warning) ni de message d'erreur (error). Elle doit se terminer de la manière suivante :

```

Checking time periods...
    Checked 4 time periods.
Checking for circular paths between hosts...
Checking for circular host and service dependencies...
Checking global event handlers...
Checking obsessive compulsive processor commands...
Checking misc settings...

```

```

Total Warnings: 0
Total Errors: 0

```

Things look okay - No serious problems were detected during the pre-flight check

```
root@ubuntu-ltsp: ~
Fichier Édition Affichage Terminal Aide
root@ubuntu-ltsp:~# nagios3 -v /etc/nagios3/nagios.cfg

Nagios 3.0.6
Copyright (c) 1999-2008 Ethan Galstad (http://www.nagios.org)
Last Modified: 12-01-2008
License: GPL

Reading configuration data...

Running pre-flight check on configuration data...

Checking services...
    Checked 7 services.
Checking hosts...
    Checked 2 hosts.
Checking host groups...
    Checked 5 host groups.
Checking service groups...
    Checked 0 service groups.
Checking contacts...
    Checked 1 contacts.
Checking contact groups...
    Checked 1 contact groups.
Checking service escalations...
    Checked 0 service escalations.
Checking service dependencies...
    Checked 0 service dependencies.
Checking host escalations...
    Checked 0 host escalations.
Checking host dependencies...
    Checked 0 host dependencies.
Checking commands...
    Checked 151 commands.
Checking time periods...
    Checked 4 time periods.
Checking for circular paths between hosts...
Checking for circular host and service dependencies...
Checking global event handlers...
Checking obsessive compulsive processor commands...
Checking misc settings...

Total Warnings: 0
Total Errors: 0

Things look okay - No serious problems were detected during the pre-flight check
root@ubuntu-ltsp:~# █
```

** Si vous avez dû faire des modifications, relancez la commande **nagios -v**, redémarrez le service nagios avec **/etc/init.d/nagios reload** et le service Apache **/etc/init.d/apache2 reload**. Plus tard, on s'efforcera d'avoir des **fichiers homogènes**, sans mélanger par ex les hôtes et les services.

6) Connexion au moniteur

Lancez alors un navigateur sur le serveur nagios par <http://localhost/nagios3>
Vous devriez passer par l'authentification htaccess.



The screenshot shows a dialog box titled "Authentication requise". It contains a key icon and the text: "Le site http://localhost demande un nom d'utilisateur et un mot de passe. Le site indique : « Nagios Access »". Below this, there are two input fields: "Utilisateur :" with the value "nagiosadmin" and "Mot de passe :" with a masked password of 12 dots. At the bottom right, there are two buttons: "Annuler" (with a red X icon) and "OK" (with a green checkmark icon).

Au final, vous obtenez le premier écran suivant :



The screenshot shows the Nagios web interface in Mozilla Firefox. The browser's address bar shows "http://localhost/nagios3/". The page title is "Nagios - Mozilla Firefox". The main content area features the Nagios logo, the version "Version 3.0.6" dated "December 01, 2008", and a link to "Read what's new in Nagios 3". Below this, there is a section titled "Need help with Nagios?" with a globe icon and a list of support options: Installation, Configuration, Performance Tuning, Integration, and Customization. The footer includes the Nagios Enterprises logo, a "MONITORED BY Nagios NETWORK MONITOR" badge, and the SOURCEFORGE.NET logo. A sidebar on the left contains a navigation menu with categories like General, Monitoring, and Reporting. The word "Terminé" is visible at the bottom left of the page.

Cliquez ensuite sur *Service Detail*.

The screenshot shows the Nagios web interface in Mozilla Firefox. The main content area displays 'Service Status Details For All Hosts' with a table listing services for 'gateway' and 'localhost'.

Host	Service	Status	Last Check	Duration	Attempt	Status Information
gateway	PING	CRITICAL	2010-01-12 20:32:43	0d 0h 0m 41s	4/4	PING CRITICAL - Paquets perdus = 80%, RTA = 1.75 ms
localhost	Current Load	OK	2010-01-12 20:30:09	0d 1h 8m 15s	1/4	OK - Charge moyenne: 0.24, 0.14, 0.10
	Current Users	OK	2010-01-12 20:31:35	0d 1h 6m 49s	1/4	UTILISATEURS OK - 1 utilisateurs actuellement connectés sur
	Disk Space	CRITICAL	2010-01-12 20:31:00	0d 1h 5m 24s	4/4	DISK CRITIQUE - /home/henri/.gvfs is not accessible: Permission non accordée
	HTTP	OK	2010-01-12 20:29:26	0d 1h 8m 58s	1/4	HTTP OK: HTTP/1.1 200 OK - 453 bytes in 0,002 second response time
	SSH	OK	2010-01-12 20:30:52	0d 1h 7m 32s	1/4	SSH OK - OpenSSH 5.1p1 Debian-6ubuntu2 (protocole 2.0)
	Total Processes	OK	2010-01-12 20:32:18	0d 1h 6m 6s	1/4	PROCS OK: 150 processus

Voilà, tout semble fonctionner correctement.

Affiner la configuration.

- Ajout d'autres hôtes et services
- Gestion des contacts
- Gestion des alertes et de la messagerie, ajout d'icônes d'hôtes et services, etc.
- Visualisation des graphes

The screenshot shows the Nagios web interface displaying 'Service Overview For All Host Groups'. It features three summary tables for different host groups: 'All Servers (all)', 'Debian GNU/Linux Servers (debian-servers)', and 'HTTP servers (http-servers)'.

Host	Status	Services	Actions
gateway	UP	1 WARNING	[Icons]
localhost	UP	3 OK 1 CRITICAL	[Icons]

Host	Status	Services	Actions
localhost	UP	3 OK 1 CRITICAL	[Icons]

Host	Status	Services	Actions
localhost	UP	1 OK 1 CRITICAL	[Icons]

Carte des hôtes monitorés

Network Map For All Hosts
 Last Updated: Tue Jan 12 20:40:21 CET 2010
 Updated every 90 seconds
 Nagios® 3.0.6 - www.nagios.org
 Logged in as nagiosadmin

Layout Method: Circular (Marked Up) | Scaling factor: 0.0
 Drawing Layers: All Servers, Debian GNU/Linux Servers, HTTP servers, Pingable servers
 Layer mode: Include, Exclude
 Suppress popups: | Update

localhost Up | Nagios Process Up | gateway Down

http://localhost/cgi-bin/nagios3/statusmap.cgi?host=all

Rapports

Alert Summary Report
 Last Updated: Tue Jan 12 20:42:53 CET 2010
 Nagios® 3.0.6 - www.nagios.org
 Logged in as nagiosadmin

Most Recent Alerts
 2010-01-05 20:42:53 to 2010-01-12 20:42:53
 Duration: 7d 0h 0m 0s

Report Options Summary:
 Alert Types: Host & Service Alerts
 State Types: Soft & Hard States
 Host States: Up, Down, Unreachable
 Service States: Ok, Warning, Unknown, Critical
 Generate New Report

Displaying most recent 25 of 43 total matching alerts

Time	Alert Type	Host	Service	State	State Type	Information
2010-01-12 20:40:48	Host Alert	gateway	N/A	UP	SOFT	PING OK - Paquets perdus = 83%, RTA = 8.11 ms
2010-01-12 20:39:38	Host Alert	gateway	N/A	DOWN	SOFT	PING CRITICAL - Paquets perdus = 100%
2010-01-12 20:37:58	Service Alert	gateway	PING	WARNING	HARD	PING WARNING - Paquets perdus = 50%, RTA = 0.81 ms
2010-01-12 20:34:28	Host Alert	gateway	N/A	UP	SOFT	PING OK - Paquets perdus = 83%, RTA = 0.65 ms
2010-01-12 20:33:18	Host Alert	gateway	N/A	DOWN	SOFT	PING CRITICAL - Paquets perdus = 100%
2010-01-12 20:32:58	Service Alert	gateway	PING	CRITICAL	HARD	PING CRITICAL - Paquets perdus = 80%, RTA = 1.75 ms
2010-01-12 20:27:58	Service Alert	gateway	PING	WARNING	HARD	PING WARNING - Paquets perdus = 50%, RTA = 0.92 ms
2010-01-12	Service					PING WARNING - Paquets perdus =

Terminé

Enjoy as I did.

