

Installation et configuration de nagios 3.5

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1-Installation par les paquets

```
root@ubuntu17:~# apt install nagios3
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances
Lecture des informations d'état... Fait
The following additional packages will be installed:
bsd-mailx libapache2-mod-php libapache2-mod-php7.0 libdbi1 libjs-jquery
liblockfile-bin liblockfile1 libmysqlclient20 libnet-snmp-perl libpq5
libtirpc1 monitoring-plugins monitoring-plugins-basic
monitoring-plugins-common monitoring-plugins-standard mysql-common
nagios-images nagios-plugins nagios-plugins-basic nagios3-cgi nagios3-common
nagios3-core php-common php7.0-cli php7.0-common php7.0-json php7.0-opcache
php7.0-readline postfix postfix-sqlite rpcbind snmp
Paquets suggérés :
php-pear libcrypt-des-perl icinga | icinga2 nagios-plugins-contrib fping
qstat nagios-nrpe-plugin procmail postfix-mysql postfix-pgsql postfix-ldap
postfix-pcre postfix-lmdb sasl2-bin dovecot-common postfix-cdb postfix-doc
Les NOUVEAUX paquets suivants seront installés :
bsd-mailx libapache2-mod-php libapache2-mod-php7.0 libdbi1 libjs-jquery
liblockfile-bin liblockfile1 libmysqlclient20 libnet-snmp-perl libpq5
libtirpc1 monitoring-plugins monitoring-plugins-basic
monitoring-plugins-common monitoring-plugins-standard mysql-common
nagios-images nagios-plugins nagios-plugins-basic nagios3 nagios3-cgi
nagios3-common nagios3-core php-common php7.0-cli php7.0-common php7.0-json
php7.0-opcache php7.0-readline postfix postfix-sqlite rpcbind snmp
0 mis à jour, 33 nouvellement installés, 0 à enlever et 115 non mis à jour.
Il est nécessaire de prendre 10,1 Mo dans les archives.
Après cette opération, 40,1 Mo d'espace disque supplémentaires seront utilisés.
Souhaitez-vous continuer ? [O/n] o
```

2-Modification des fichiers de configuration de /etc/nagios3/conf.d

Ce répertoire comporte 8 fichiers de configuration que l'on doit modifier pour obtenir une supervision d'équipements cohérente, adaptée à nos besoins.

-contacts.cfg

```
#####
# contacts.cfg
#####

#####
#####
#
# CONTACTS
#
#####
#####

# In this simple config file, a single contact will receive all alerts.

define contact{
    contact_name      root
    alias             Root
    service_notification_period 24x7
    host_notification_period 24x7
    service_notification_options w,u,c,r
    host_notification_options d,r
    service_notification_commands notify-service-by-email
```

```
host_notification_commands    notify-host-by-email
email                          root@localhost
}
```

-timeperiods.cfg

```
#####
# timeperiods.cfg
#####
```

```
# This defines a timeperiod where all times are valid for checks,
# notifications, etc. The classic "24x7" support nightmare. :-)
```

```
define timeperiod{
    timeperiod_name 24x7
    alias           24 Hours A Day, 7 Days A Week
    sunday          00:00-24:00
    monday          00:00-24:00
    tuesday         00:00-24:00
    wednesday       00:00-24:00
    thursday        00:00-24:00
    friday          00:00-24:00
    saturday        00:00-24:00
}
```

```
# Here is a slightly friendlier period during work hours
```

```
define timeperiod{
    timeperiod_name workhours
    alias           Standard Work Hours
    monday          09:00-17:00
    tuesday         09:00-17:00
    wednesday       09:00-17:00
    thursday        09:00-17:00
    friday          09:00-17:00
}
```

```
# The complement of workhours
```

```
define timeperiod{
    timeperiod_name nonworkhours
    alias           Non-Work Hours
    sunday          00:00-24:00
    monday          00:00-09:00,17:00-24:00
    tuesday         00:00-09:00,17:00-24:00
    wednesday       00:00-09:00,17:00-24:00
    thursday        00:00-09:00,17:00-24:00
    friday          00:00-09:00,17:00-24:00
    saturday        00:00-24:00
}
```

```
# This one is a favorite: never :)
```

```
define timeperiod{
    timeperiod_name never
    alias           Never
}
```

```
# end of file
```

-localhost_nagios2.cfg

Sur le plan pédagogique, ce fichier est à refaire car c'est un mélange de configuration des hôtes et des services. Il vaut mieux séparer en deux fichiers distincts.

Chaque hôte déclaré doit avoir au moins un service qui lui est associé.

```

# A simple configuration file for monitoring the local host
# This can serve as an example for configuring other servers;
# Custom services specific to this host are added here, but services
# defined in nagios2-common_services.cfg may also apply.
#

define host{
    use          generic-host      ; Name of host template to use
    host_name    localhost
    alias        localhost
    address      127.0.0.1
}

define host{
    use          generic-host      ; Name of host template to use
    host_name    win-xp
    alias        win-xp
    address      192.168.20.2
}

define host{
    use          generic-host      ; Name of host template to use
    host_name    ubuntu17
    alias        ubuntu17
    address      192.168.20.17
}
define host{
    use          generic-host      ; Name of host template to use
    host_name    ubuntu17srv
    alias        ubuntu17srv
    address      192.168.20.18
}

# Define a service to check the disk space of the root partition
# on the local machine. Warning if < 20% free, critical if
# < 10% free space on partition.

define service{
    use          generic-service    ; Name of service template to use
    host_name    localhost
    service_description    Disk Space
    check_command    check_all_disks!20%!10%
}

define service{
    use          generic-service    ; Name of service template to use
    host_name    win-xp
    service_description    HTTP
    check_command    check_http
}

define service{
    use          generic-service    ; Name of service template to use
    host_name    ubuntu17
    service_description    HTTP
    check_command    check_http
}
define service{
    use          generic-service    ; Name of service template to use
    host_name    ubuntu17
    service_description    POP3
    check_command    check_pop
}

```

```

define service{
    use                generic-service    ; Name of service template to use
    host_name          ubuntu17srv
    service_description HTTP
    check_command      check_http
}

```

Define a service to check the number of currently logged in users on the local machine. Warning if > 20 users, critical if > 50 users.

```

define service{
    use                generic-service    ; Name of service template to use
    host_name          localhost
    service_description Current Users
    check_command      check_users!20!50
}

```

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
}

```

3-Vérification de la syntaxe des fichiers modifiés

```
root@ubuntu17:~# nagios3 -v /etc/nagios3/nagios.cfg
```

Nagios Core 3.5.1

Copyright (c) 2009-2011 Nagios Core Development Team and Community Contributors

Copyright (c) 1999-2009 Ethan Galstad

Last Modified: 08-30-2013

License: GPL

Website: <http://www.nagios.org>

Reading configuration data...

Read main config file okay...

Processing object config file '/etc/nagios3/commands.cfg'...

Processing object config directory '/etc/nagios-plugins/config'...

Processing object config file '/etc/nagios-plugins/config/ntp.cfg'...

Processing object config file '/etc/nagios-plugins/config/real.cfg'...

Processing object config file '/etc/nagios-plugins/config/ifstatus.cfg'...

Processing object config file '/etc/nagios-plugins/config/fping.cfg'...

Processing object config file '/etc/nagios-plugins/config/telnet.cfg'...

Processing object config file '/etc/nagios-plugins/config/disk-smb.cfg'...

Processing object config file '/etc/nagios-plugins/config/tcp_udp.cfg'...

Processing object config file '/etc/nagios-plugins/config/breeze.cfg'...
Processing object config file '/etc/nagios-plugins/config/disk.cfg'...
Processing object config file '/etc/nagios-plugins/config/load.cfg'...
Processing object config file '/etc/nagios-plugins/config/apt.cfg'...
Processing object config file '/etc/nagios-plugins/config/mailq.cfg'...
Processing object config file '/etc/nagios-plugins/config/procs.cfg'...
Processing object config file '/etc/nagios-plugins/config/nt.cfg'...
Processing object config file '/etc/nagios-plugins/config/news.cfg'...
Processing object config file '/etc/nagios-plugins/config/snmp.cfg'...
Processing object config file '/etc/nagios-plugins/config/mail.cfg'...
Processing object config file '/etc/nagios-plugins/config/ftp.cfg'...
Processing object config file '/etc/nagios-plugins/config/mysql.cfg'...
Processing object config file '/etc/nagios-plugins/config/ssh.cfg'...
Processing object config file '/etc/nagios-plugins/config/ldap.cfg'...
Processing object config file '/etc/nagios-plugins/config/mrtg.cfg'...
Processing object config file '/etc/nagios-plugins/config/http.cfg'...
Processing object config file '/etc/nagios-plugins/config/flexlm.cfg'...
Processing object config file '/etc/nagios-plugins/config/hppjd.cfg'...
Processing object config file '/etc/nagios-plugins/config/ping.cfg'...
Processing object config file '/etc/nagios-plugins/config/dns.cfg'...
Processing object config file '/etc/nagios-plugins/config/dhcp.cfg'...
Processing object config file '/etc/nagios-plugins/config/pgsql.cfg'...
Processing object config file '/etc/nagios-plugins/config/games.cfg'...
Processing object config file '/etc/nagios-plugins/config/users.cfg'...
Processing object config file '/etc/nagios-plugins/config/dummy.cfg'...
Processing object config file '/etc/nagios-plugins/config/netware.cfg'...
Processing object config file '/etc/nagios-plugins/config/rpc-nfs.cfg'...
Processing object config directory '/etc/nagios3/conf.d'...
Processing object config file '/etc/nagios3/conf.d/generic-service_nagios2.cfg'...
Processing object config file '/etc/nagios3/conf.d/extinfo_nagios2.cfg'...
Processing object config file '/etc/nagios3/conf.d/contacts_nagios2.cfg'...
Processing object config file '/etc/nagios3/conf.d/services_nagios2.cfg'...
Processing object config file '/etc/nagios3/conf.d/localhost_nagios2.cfg'...
Processing object config file '/etc/nagios3/conf.d/generic-host_nagios2.cfg'...
Processing object config file '/etc/nagios3/conf.d/timeperiods_nagios2.cfg'...
Processing object config file '/etc/nagios3/conf.d/hostgroups_nagios2.cfg'...
Read object config files okay...

Running pre-flight check on configuration data...

Checking services...

Checked 10 services.

Checking hosts...

Checked 4 hosts.

Checking host groups...

Checked 4 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 152 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

Il n'y a pas d'erreurs ni d'avertissements, vous pouvez redémarrer les deux programmes apache2 et nagios3.

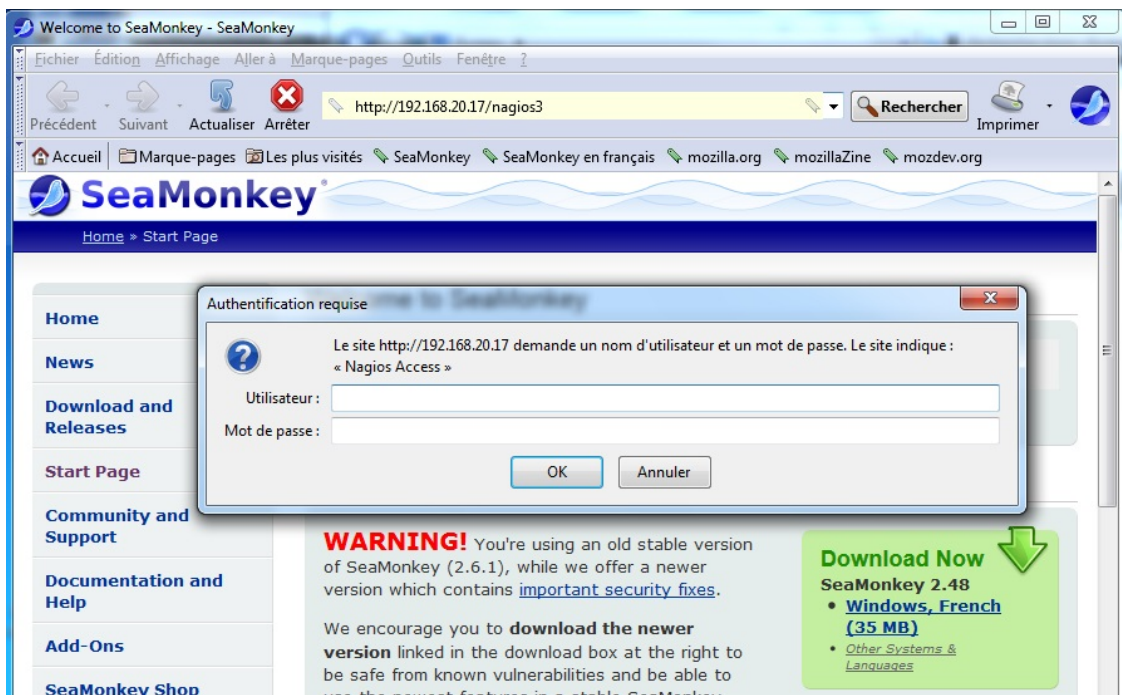
Things look okay - No serious problems were detected during the pre-flight check

```
root@ubuntu17:~# service nagios3 restart
```

```
root@ubuntu17:~# service apache2 restart
```

4-Connexion au serveur par l'interface web

Test dans un navigateur <http://ubuntu17/nagios3>



Tapez le login '**nagiosadmin**' ainsi que le mot de passe '**nagiosadmin**'. Sans les côtes bien sûr.

Nagios Core - SeaMonkey

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Nagios® Core™ Version 3.5.1

August 30, 2013
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Quick Search:

Current Network Status

Last Updated: Mon Oct 23 01:15:33 CEST 2017
Updated every 90 seconds
Nagios® Core™ 3.5.1 - www.nagios.org
Logged in as *nagiosadmin*

View Service Status Detail For All Host Groups
View Status Overview 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
1	2	0	0

All Problems All Types

2	3

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
4	0	0	10	0

All Problems All Types

10	14

Host Status Details For All Host Groups

Limit Results: 100

Host	Status	Last Check	Duration	Status Information
ubuntu17	UP	2017-10-23 01:10:45	0d 0h 15m 28s	PING OK - Paquets perdus = 0%, RTA = 0.14 ms
ubuntu17srv	DOWN	2017-10-23 01:10:15	0d 0h 5m 8s	CRITICAL - Host Unreachable (192.168.20.18)
win-xp	DOWN	2017-10-23 01:14:15	0d 0h 53m 5s	CRITICAL - Host Unreachable (192.168.20.2)

Results 1 - 3 of 3 Matching Hosts

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Quick Search:

Current Network Status
 Last Updated: Mon Oct 23 01:16:49 CEST 2017
 Updated every 90 seconds
 Nagios® Core™ 3.5.1 - www.nagios.org
 Logged in as nagiosadmin

Host Status Totals

Up	Down	Unreachable	Pending
1	2	0	0

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
4	0	0	10	0

View History For all hosts
 View Notifications For All Hosts
 View Host Status Detail For All Hosts

Service Status Details For All Hosts

Limit Results: 100

Host	Service	Status	Last Check	Duration	Attempt	Status Information
ubuntu17	Current Load	OK	2017-10-23 01:15:13	0d 0h 26m 36s	1/4	OK - Charge moyenne: 0.00, 0.01, 0.16
	Current Users	OK	2017-10-23 01:16:43	0d 0h 25m 6s	1/4	UTILISATEUR OK - 2 utilisateurs actuellement connectés sur

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Quick Search:

Current Network Status
 Updated every 90 seconds
 Nagios® Core™ 3.5.1 - www.nagios.org
 Logged in as nagiosadmin

Host Status Totals

Up	Down	Unreachable	Pending
1	2	0	0

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
4	0	0	10	0

View History For all hosts
 View Notifications For All Hosts
 View Host Status Detail For All Hosts

Service Status Details For All Hosts

Limit Results: 100

Host	Service	Status	Last Check	Duration	Attempt	Status Information
ubuntu17	Current Load	OK	2017-10-23 01:15:13	0d 0h 28m 4s	1/4	OK - Charge moyenne: 0.00, 0.01, 0.16
	Current Users	OK	2017-10-23 01:16:43	0d 0h 26m 34s	1/4	UTILISATEURS OK - 2 utilisateurs actuellement connectés sur
	Disk Space	CRITICAL	2017-10-23 01:16:13	0d 0h 25m 4s	4/4	DISK CRITIQUE - /run/user/1000/gvfs is not accessible: Permission non accordée
	HTTP	OK	2017-10-23 01:15:58	0d 0h 27m 19s	1/4	TCP OK - 0.000 second response time on 192.168.20.17 port 80
	MySQL	CRITICAL	2017-10-23 01:16:29	0d 0h 18m 48s	4/4	connect to address 192.168.20.17 and port 3306: Connexion refusée
	POP3	CRITICAL	2017-10-23 01:15:58	0d 0h 15m 19s	4/4	connect to address 192.168.20.17 and port 110: Connexion refusée
	SSH	CRITICAL	2017-10-23 01:17:43	0d 0h 23m 34s	4/4	connect to address 192.168.20.17 and port 22: Connexion refusée
Total Processes	OK	2017-10-23 01:15:43	0d 0h 27m 34s	1/4	PROCS OK: 217 processus	
ubuntu17srv	DHCP	CRITICAL	2017-10-23 01:15:33	0d 0h 17m 44s	2/4	connect to address 192.168.20.18 and port 67: Aucun chemin d'accès pour atteindre l'hôte cible
	HTTP	CRITICAL	2017-10-23 01:15:58	0d 0h 27m 19s	4/4	connect to address 192.168.20.18 and port 80: Aucun chemin d'accès pour atteindre l'hôte cible
	MYSQL	CRITICAL	2017-10-23 01:15:37	0d 0h 17m 40s	1/4	connect to address 192.168.20.18 and port 3306: Aucun chemin d'accès pour atteindre l'hôte cible
	SMTP	CRITICAL	2017-10-23 01:16:42	0d 0h 16m 35s	1/4	connect to address 192.168.20.18 and port 25: Aucun chemin d'accès pour atteindre l'hôte cible
win-xp	SSH	CRITICAL	2017-10-23 01:17:13	0d 0h 16m 4s	1/4	connect to address 192.168.20.18 and port 22: Aucun chemin d'accès pour atteindre l'hôte cible
	HTTP	CRITICAL	2017-10-23 01:17:28	0d 1h 5m 49s	4/4	connect to address 192.168.20.2 and port 80: Aucun chemin d'accès pour atteindre l'hôte cible

Results 1 - 14 of 14 Matching Services