

# DOCUMENTATION CENTREON



# I. Installation NRPE sur Centos7

## 1. Add the EPEL repository

Lignes de commande :

```
> yum install epel-release
```

## 2. Install NRPE and the plugins that is required to add the services.

```
> yum install nrpe nagios-plugins-users nagios-plugins-load  
> nagios-plugins-swap nagios-plugins-disk nagios-plugins-procs
```

## 3. Configure the agent to utilize the plugins.

Create a new file called `/etc/nrpe.d/op5_commands.cfg` containing the following information:

```
#####  
#####  
#  
# op5-nrpe command configuration file  
#  
# COMMAND DEFINITIONS  
# Syntax:  
# command[<command_name>]=<command_line>  
#  
command[users]=/usr/lib64/nagios/plugins/check_users -w 5 -c 10  
command[load]=/usr/lib64/nagios/plugins/check_load -w 15,10,5 -c  
30,25,20  
command[check_load]=/usr/lib64/nagios/plugins/check_load -w 15,10,5 -c  
30,25,20  
command[swap]=/usr/lib64/nagios/plugins/check_swap -w 20% -c 10%  
command[root_disk]=/usr/lib64/nagios/plugins/check_disk -w 20% -c 10% -p  
/ -m  
command[usr_disk]=/usr/lib64/nagios/plugins/check_disk -w 20% -c 10% -p  
/usr -m  
command[var_disk]=/usr/lib64/nagios/plugins/check_disk -w 20% -c 10% -p  
/var -m  
command[zombie_procs]=/usr/lib64/nagios/plugins/check_procs -w 5 -c 10  
-s Z  
command[total_procs]=/usr/lib64/nagios/plugins/check_procs -w 190 -c 200  
command[proc_named]=/usr/lib64/nagios/plugins/check_procs -w 1: -c 1:2  
-C named  
command[proc_crond]=/usr/lib64/nagios/plugins/check_procs -w 1: -c 1:5  
-C crond  
command[proc_syslogd]=/usr/lib64/nagios/plugins/check_procs -w 1: -c 1:2  
-C syslog-ng  
command[proc_rsyslogd]=/usr/lib64/nagios/plugins/check_procs -w 1: -c  
1:2 -C rsyslogd
```

## 4. Now edit `/etc/nagios/nrpe.cfg` and change all text by :

```
#####  
#####  
# Sample NRPE Config File  
# Written by: Ethan Galstad (nagios@nagios.org)  
#  
# Last Modified: 2016-05-10  
#  
# NOTES:  
# This is a sample configuration file for the NRPE daemon. It needs to  
be  
# located on the remote host that is running the NRPE daemon, not the  
host  
# from which the check_nrpe client is being executed.  
#####  
#####  
# LOG FACILITY  
# The syslog facility that should be used for logging purposes.  
log_facility=daemon
```

```
# LOG FILE
# If a log file is specified in this option, nrpe will write to
# that file instead of using syslog.
#log_file=/var/run/nrpe.log
# DEBUGGING OPTION
# This option determines whether or not debugging messages are logged to
the
# syslog facility.
# Values: 0=debugging off, 1=debugging on
debug=0
# PID FILE
# The name of the file in which the NRPE daemon should write it's
process ID
# number. The file is only written if the NRPE daemon is started by the
root
# user and is running in standalone mode.
pid_file=/var/run/nrpe/nrpe.pid
# PORT NUMBER
# Port number we should wait for connections on.
# NOTE: This must be a non-privileged port (i.e. > 1024).
# NOTE: This option is ignored if NRPE is running under either inetd or
xinetd
server_port=5666
# SERVER ADDRESS
# Address that nrpe should bind to in case there are more than one
interface
# and you do not want nrpe to bind on all interfaces.
# NOTE: This option is ignored if NRPE is running under either inetd or
xinetd
#server_address=127.0.0.1
# LISTEN QUEUE SIZE
# Listen queue size (backlog) for serving incoming connections.
# You may want to increase this value under high load.
#listen_queue_size=5
# NRPE USER
# This determines the effective user that the NRPE daemon should run as.
# You can either supply a username or a UID.
#
# NOTE: This option is ignored if NRPE is running under either inetd or
xinetd
nrpe_user=nrpe
# NRPE GROUP
# This determines the effective group that the NRPE daemon should run
as.
# You can either supply a group name or a GID.
#
# NOTE: This option is ignored if NRPE is running under either inetd or
xinetd
nrpe_group=nrpe
# ALLOWED HOST ADDRESSES
# This is an optional comma-delimited list of IP address or hostnames
# that are allowed to talk to the NRPE daemon. Network addresses with a
bit mask
# (i.e. 192.168.1.0/24) are also supported. Hostname wildcards are not
currently
# supported.
#
# Note: The daemon only does rudimentary checking of the client's IP
# address. I would highly recommend adding entries in your
/etc/hosts.allow
# file to allow only the specified host to connect to the port
# you are running this daemon on.
#
# NOTE: This option is ignored if NRPE is running under either inetd or
xinetd
allowed_hosts=127.0.0.1
# COMMAND ARGUMENT PROCESSING
```

```
# This option determines whether or not the NRPE daemon will allow
clients
# to specify arguments to commands that are executed. This option only
works
# if the daemon was configured with the --enable-command-args configure
script
# option.
#
# *** ENABLING THIS OPTION IS A SECURITY RISK! ***
# Read the SECURITY file for information on some of the security
implications
# of enabling this variable.
#
# Values: 0=do not allow arguments, 1=allow command arguments
dont_blame_nrpe=0
# BASH COMMAND SUBSTITUTION
# This option determines whether or not the NRPE daemon will allow
clients
# to specify arguments that contain bash command substitutions of the
form
# $(...). This option only works if the daemon was configured with both
# the --enable-command-args and --enable-bash-command-substitution
configure
# script options.
#
# *** ENABLING THIS OPTION IS A HIGH SECURITY RISK! ***
# Read the SECURITY file for information on some of the security
implications
# of enabling this variable.
#
# Values: 0=do not allow bash command substitutions,
# 1=allow bash command substitutions
allow_bash_command_substitution=0
# COMMAND PREFIX
# This option allows you to prefix all commands with a user-defined
string.
# A space is automatically added between the specified prefix string and
the
# command line from the command definition.
#
# *** THIS EXAMPLE MAY POSE A POTENTIAL SECURITY RISK, SO USE WITH
CAUTION! ***
# Usage scenario:
# Execute restricted commands using sudo. For this to work, you need
to add
# the nagios user to your /etc/sudoers. An example entry for allowing
# execution of the plugins from might be:
#
# nagios ALL=(ALL) NOPASSWD: /usr/lib/nagios/plugins/
#
# This lets the nagios user run all commands in that directory (and only
them)
# without asking for a password. If you do this, make sure you don't
give
# random users write access to that directory or its contents!
# command_prefix=/usr/bin/sudo
# COMMAND TIMEOUT
# This specifies the maximum number of seconds that the NRPE daemon will
# allow plugins to finish executing before killing them off.
command_timeout=60
# CONNECTION TIMEOUT
# This specifies the maximum number of seconds that the NRPE daemon will
# wait for a connection to be established before exiting. This is
sometimes
# seen where a network problem stops the SSL being established even though
# all network sessions are connected. This causes the nrpe daemons to
# accumulate, eating system resources. Do not set this too low.
```

```
connection_timeout=300
# WEAK RANDOM SEED OPTION
# This directive allows you to use SSL even if your system does not have
# a /dev/random or /dev/urandom (on purpose or because the necessary
patches
# were not applied). The random number generator will be seeded from a
file
# which is either a file pointed to by the environment variable
$RANDFILE
# or $HOME/.rnd. If neither exists, the pseudo random number generator
will
# be initialized and a warning will be issued.
# Values: 0=only seed from /dev/[u]random, 1=also seed from weak
randomness
#allow_weak_random_seed=1
# SSL/TLS OPTIONS
# These directives allow you to specify how to use SSL/TLS.
# SSL VERSION
# This can be any of: SSLv2 (only use SSLv2), SSLv2+ (use any version),
# SSLv3 (only use SSLv3), SSLv3+ (use SSLv3 or above), TLSv1
(only use
# TLSv1), TLSv1+ (use TLSv1 or above), TLSv1.1 (only use
TLSv1.1),
# TLSv1.1+ (use TLSv1.1 or above), TLSv1.2 (only use TLSv1.2),
# TLSv1.2+ (use TLSv1.2 or above)
# If an "or above" version is used, the best will be negotiated. So if
both
# ends are able to do TLSv1.2 and use specify SSLv2, you will get
TLSv1.2.
# If you are using openssl 1.1.0 or above, the SSLv2 options are not
available.
#ssl_version=SSLv2+
# SSL USE ADH
# This is for backward compatibility and is DEPRECATED. Set to 1 to
enable
# ADH or 2 to require ADH. 1 is currently the default but will be
changed
# in a later version.
#ssl_use_adh=1
# SSL CIPHER LIST
# This lists which ciphers can be used. For backward compatibility, this
# defaults to 'ssl_cipher_list=ALL:!MD5:@STRENGTH' in this version but
# will be changed to something like the example below in a later version
of NRPE.
#ssl_cipher_list=ALL:!MD5:@STRENGTH
#ssl_cipher_list=ALL:!aNULL:!eNULL:!SSLv2:!LOW:!EXP:!RC4:!MD5:@STRENGTH
# SSL Certificate and Private Key Files
#ssl_cacert_file=/etc/ssl/servercerts/ca-cert.pem
#ssl_cert_file=/etc/ssl/servercerts/nagios-cert.pem
#ssl_privatekey_file=/etc/ssl/servercerts/nagios-key.pem
# SSL USE CLIENT CERTS
# This options determines client certificate usage.
# Values: 0 = Don't ask for or require client certificates (default)
# 1 = Ask for client certificates
# 2 = Require client certificates
#ssl_client_certs=0
# SSL LOGGING
# This option determines which SSL messages are send to syslog. OR
values
# together to specify multiple options.
# Values: 0x00 (0) = No additional logging (default)
# 0x01 (1) = Log startup SSL/TLS parameters
# 0x02 (2) = Log remote IP address
# 0x04 (4) = Log SSL/TLS version of connections
# 0x08 (8) = Log which cipher is being used for the connection
# 0x10 (16) = Log if client has a certificate
# 0x20 (32) = Log details of client's certificate if it has one
```

```

# -1 or 0xff or 0x2f = All of the above
#ssl_logging=0x00
# NASTY METACHARACTERS
# This option allows you to override the list of characters that cannot
# be passed to the NRPE daemon.
# nasty_metachars="|`&><'\[\]{};\r\n"
# INCLUDE CONFIG FILE
# This directive allows you to include definitions from an external
# config file.
#include=<somefile.cfg>
# INCLUDE CONFIG DIRECTORY
# This directive allows you to include definitions from config files
# (with a
# .cfg extension) in one or more directories (with recursion).
include_dir=/etc/nrpe.d/
# COMMAND DEFINITIONS
# Command definitions that this daemon will run. Definitions
# are in the following format:
#
# command[<command_name>]=<command_line>
#
# When the daemon receives a request to return the results of
# <command_name>
# it will execute the command specified by the <command_line> argument.
#
# Unlike Nagios, the command line cannot contain macros - it must be
# typed exactly as it should be executed.
#
# Note: Any plugins that are used in the command lines must reside
# on the machine that this daemon is running on! The examples below
# assume that you have plugins installed in a /usr/local/nagios/libexec
# directory. Also note that you will have to modify the definitions
# below
# to match the argument format the plugins expect. Remember, these are
# examples only!
# The following examples use hardcoded command arguments...
command[check_users]=/usr/lib64/nagios/plugins/check_users -w 5 -c 10
command[check_load]=/usr/lib64/nagios/plugins/check_load -r -w
.15,.10,.05 -c .30,.25,.20
command[check_hda1]=/usr/lib64/nagios/plugins/check_disk -w 20% -c 10%
-p /dev/hda1
command[check_zombie_procs]=/usr/lib64/nagios/plugins/check_procs -w 5
-c 10 -s Z
command[check_total_procs]=/usr/lib64/nagios/plugins/check_procs -w 150
-c 200
command[check_wildfly_procs]=/usr/lib64/nagios/plugins/check_procs -w 3:
-c 1: -u wildfly
command[check_java_procs]=/usr/lib64/nagios/plugins/check_procs -c 1: -C
java
command[check_mysql_procs]=/usr/lib64/nagios/plugins/check_procs -c 1:
-u mysql
command[check_apache_procs]=/usr/lib64/nagios/plugins/check_procs -w 5:
-c 1: -u apache
command[check_wildfly_http]=/usr/lib64/nagios/plugins/check_http -I
localhost -p 8080
command[check_sso_client_login_http]=/usr/lib64/nagios/plugins/check_htt
p -H 172.16.15.122 -p 9001 -u /client/login -T "application/json" -j
POST -P '{"clientId":"uaa-echosens-client",
"clientSecret":"EMPrhXTUxpcM"}' -v
# The following examples allow user-supplied arguments and can
# only be used if the NRPE daemon was compiled with support for
# command arguments *AND* the dont_blame_nrpe directive in this
# config file is set to '1'. This poses a potential security risk, so
# make sure you read the SECURITY file before doing this.
#command[check_users]=/usr/lib64/nagios/plugins/check_users -w $ARG1$ -c
$ARG2$
#command[check_load]=/usr/lib64/nagios/plugins/check_load -w $ARG1$ -c

```

```
$ARG2$  
#command[check_disk]=/usr/lib64/nagios/plugins/check_disk -w $ARG1$ -c  
$ARG2$ -p $ARG3$  
#command[check_procs]=/usr/lib64/nagios/plugins/check_procs -w $ARG1$ -c  
$ARG2$ -s $ARG3
```

5. Now edit line 106 and add your Monitor server(s) address(es) to the `allowed_hosts` parameter as a comma-separated list, example:

```
> allowed_hosts=127.0.0.1,10.0.0.10,10.0.0.11
```

6. Restart the `nrpe` agent on the host, and make sure that `nrpe` is started at boot:

```
> systemctl restart nrpe  
> systemctl enable nrpe0
```

7. Install nagios plugins

*a. install common prerequisites*

```
> yum install -y gcc glibc glibc-common make gettext automake autoconf wget openssl-devel net-  
snmp net-snmp-utils epel-release  
> yum install -y perl-Net-SNMP
```

*b. Downloading the source*

```
> cd /tmp  
> wget --no-check-certificate -O nagios-plugins.tar.gz  
> https://github.com/nagios-plugins/nagios-plugins/archive/release-2.2.1.tar.gz  
> tar xzf nagios-plugins.tar.gz
```

*c. Compile and install*

```
> cd /tmp/nagios-plugins-release-2.2.1/  
./tools/setup  
./configure  
> make  
> make install
```

*d. Copy all files from "/usr/local/nagios/libexec" to "/usr/lib64/nagios/plugins/" (replace existing files)*

*e. Change permissions for execute files*

```
> cd /usr/lib64/nagios/plugins  
> chmod 755 *
```

## II. Installation de Centreon

Edit the file "/etc/selinux/config" and replace "enforcing" by "disabled"

```
> SELINUX= disabled
```

Reboot the server

```
> reboot
```

Make a update

```
> yum update
```

Install "wget"

```
> yum install wget
```

Do Centreon install commands

```
> wget http://yum.centreon.com/standard/3.4/el7/stable/noarch/RPMS/centreon-release-3.44.el7.centos.noarch.rpm
```

```
> yum install --nogpgcheck
```

```
> centreon-release-3.4-4.el7.centos.noarch.rpm
```

```
> yum install centreon-base-config-centreon-engine centreon
```

Install Maria BD

```
> yum install MariaDB-server
```

Restart mySql service

```
> service mysqld restart
```

Create a file "php-timezone.ini" in "/etc/php.d" and add this line

```
> date.timezone = Europe/Paris
```

Create a folder "mariadb.service.d" in "/etc/systemd/system". And in this folder create a file named "limits.conf" and edit with "[Service]\nLimitNOFILE=32000\n"

```
> mkdir -p /etc/systemd/system/mariadb.service.d
```

```
> echo -ne "[Service]\nLimitNOFILE=32000\n" | tee /etc/systemd/system/mariadb.service.d/limits.conf
```

Reload services

```
> systemctl daemon-reload
```

```
> service mysqld restart
```

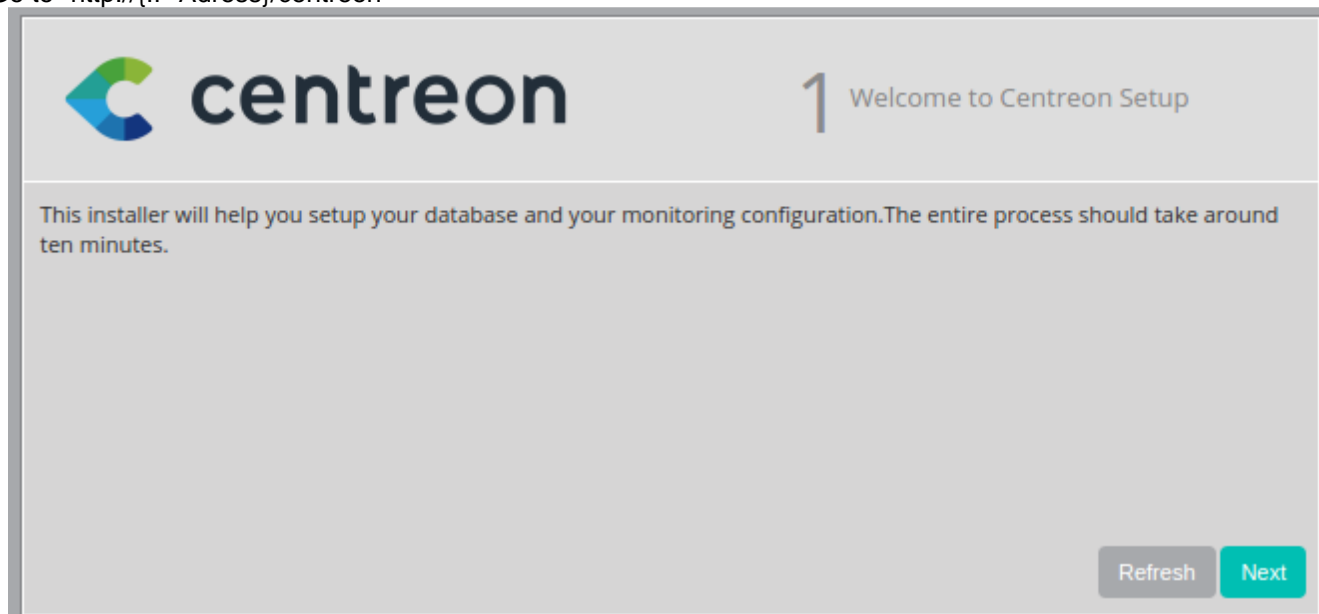
```
> service httpd restart
```

Stop & disable firewalld

```
> service firewalld stop
```

```
> service firewalld disable
```

Go to "http://{IP Adress}/centreon"





Click on "Next"


 **centreon**

2 Dependency check up

Module name	File	Status
MySQL	mysql.so	Loaded
GD	gd.so	Loaded
LDAP	ldap.so	Loaded
XML Writer	xmlwriter.so	Loaded
MB String	mbstring.so	Loaded
SQLite	pdo_sqlite.so	Loaded
INTL	intl.so	Loaded

[Back](#) [Refresh](#) [Next](#)

Click on "Next"

 **centreon**

3 Monitoring engine information

**Monitoring engine information**

Centreon Engine directory *	<input type="text" value="/usr/share/centreon-engine"/>
Centreon Engine Stats binary *	<input type="text" value="/usr/sbin/centenginestats"/>
Centreon Engine var lib directory *	<input type="text" value="/var/lib/centreon-engine"/>
Centreon Engine Connector path	<input type="text" value="/usr/lib64/centreon-connector"/>
Centreon Engine Library (*.so) directory *	<input type="text" value="/usr/lib64/centreon-engine"/>
Centreon Plugins Path *	<input type="text" value="/usr/lib/centreon/plugins/"/>

[Back](#) [Refresh](#) [Next](#)

Click on "Next"

**Broker Module information**

Centreon Broker etc directory *	<input type="text" value="/etc/centreon-broker"/>
Centreon Broker module (cbmod.so) *	<input type="text" value="/usr/lib64/nagios/cbmod.so"/>
Centreon Broker log directory *	<input type="text" value="/var/log/centreon-broker"/>
Retention file directory *	<input type="text" value="/var/lib/centreon-broker"/>
Centreon Broker lib (*.so) directory *	<input type="text" value="/usr/share/centreon/lib/centreon-broker"/>

Back

Refresh

Next

Define Admin's informations

**Admin information**

Login	<input type="text" value="admin"/>
Password *	<input type="password" value="....."/>
Confirm password *	<input type="password" value="....."/>
First name *	<input type="text" value="Administrator"/>
Last name *	<input type="text" value="Centreon"/>
Email *	<input type="text" value="admin@mydomain.com"/>

Back

Refresh

Next

Define a database user password

**Database information**

Database Host Address (default: localhost)

Database Port (default: 3306)

Root password

Configuration database name \*

Storage database name \*

Database user name \*

Database user password \*

Confirm user password \*

[Back](#)[Refresh](#)[Next](#)

Click on "Next"

Currently installing database... please do not interrupt this process.

Step	Status
Configuration database	OK
Storage database	OK
Creating database user	OK
Setting up basic configuration	OK
Setting up configuration file	OK
Partitioning database tables	OK

[Next](#)

Click on "Finish"



Now, you can log in

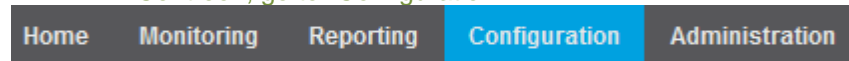


Install Centreon NRPE plugin

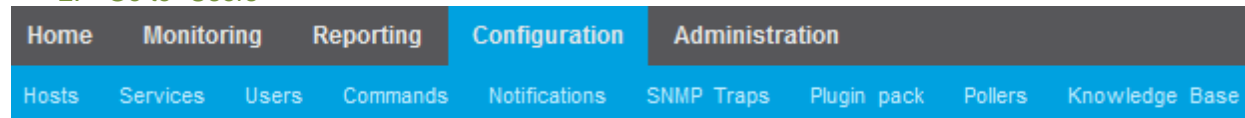
```
> yum install centreon-nrpe-plugin
```

Update User

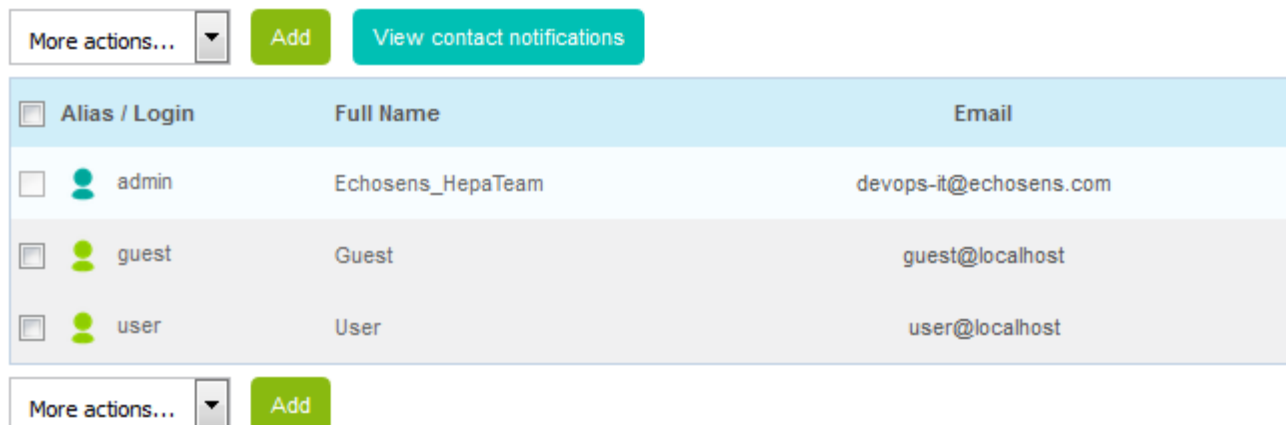
1. In Centreon, go to "Configuration"



2. Go to "Users"



3. Click on your admin user



4. Choose "host-notify-by-email" in "Host Notification Commands"

? Host Notification Period 24x7 ✕

? Host Notification Commands host-notify-by-email ✕

5. Choose "service-notify-by-email" in "Service Notification Commands"

? Service Notification Period 24x7 ✕

? Service Notification Commands service-notify-by-email ✕

6. Go to "Centreon Authentication"

General Information Centreon Authentication Additional Information

7. Confirm your password

? Confirm Password .....

8. Click on "Save"

Configuration > Users > Contacts / Users

General Information Centreon Authentication Additional Information

| Modify a User

Centreon

? Reach Centreon Front-end ☒ Yes ☐ No

? Password ..... Generate

? Confirm Password .....

? Default Language ☒ en\_US

? Timezone / Location Timezone / Location ✕

? Autologin Key ..... Generate

? Authentication Source Centreon

? Admin ☒ Yes ☐ No

? Reach API ☐ Yes ☒ No

Access lists

? Access list groups Access list groups ✕

Save Reset

Change the language to French

1. Install the language package

```
> yum -y install centreon-lang-fr_FR
```

2. On Centreon, go to "Administration"

Home Monitoring Reporting Configuration Administration

3. Go to "Parameters"

Home Monitoring Reporting Configuration Administration

Parameters Extensions ACL Logs Sessions Server Status About

4. In the left menu go to "My Account"

Main Menu

- Centreon UI
- Monitoring
- CentCore
- My Account
- LDAP
- RRDTool
- Debug
- CSS
- Knowledge Base
- Backup

5. In the field "Language", change "en\_US" by "fr\_FR.UTF-8"

Language

en\_US

6. Click on "Save"

Administration > Parameters > My Account

General InformationUI Notifications

| Change my settings

General Information

Name \*

Administrator\_Centreon

Alias / Login \*

admin

Email \*

antoine.faller@echosens.com

Pager

Language

fr\_FR.UTF-8

Timezone / Location

Timezone / Location

Password Management

Password

Generate

Confirm Password

Preferences

Default page

Home

Animation effects

Authentication

Autologin Key

Generate

SaveReset

III. Liaison de NRPE et Centreon

Go to "Configuration"

AccueilSupervisionRapportsConfigurationAdministration

Go to "Commandes"

AccueilSupervisionRapportsConfigurationAdministration

HôtesServicesUtilisateursCommandesNotificationsTraps SNMPCollecteursBase de connaissance

Click on "Ajouter"

Configuration > Commandes > Contrôles

Commande

Rechercher

Filtres

Plus d'actions...Ajouter

12345>

10

<input type="checkbox"/> Nom	Ligne de commande	Type	Hôtes utilisés	Services utilisés	Statut	Options
<input type="checkbox"/> check_centreon_cpu	\$USER1\$check_centreon_snmp_cpu -H \$HOSTADDRESS\$ -...	Vérification	0 (0)	0 (1)	ACTIVÉ	<input type="checkbox"/> 1
<input type="checkbox"/> check_centreon_dummy	\$USER1\$check_centreon_dummy -s \$ARG1\$ -o \$ARG2\$...	Vérification	0 (0)	0 (0)	ACTIVÉ	<input type="checkbox"/> 1
<input type="checkbox"/> check_centreon_load_average	\$USER1\$check_centreon_snmp_loadaverage -H \$HOSTAD...	Vérification	0 (0)	0 (1)	ACTIVÉ	<input type="checkbox"/> 1
<input type="checkbox"/> check_centreon_memory	\$USER1\$check_centreon_snmp_memory -H \$HOSTADDRESS...	Vérification	0 (0)	0 (1)	ACTIVÉ	<input type="checkbox"/> 1
<input type="checkbox"/> check_centreon_nb_connections	\$USER1\$check_centreon_snmp_TcpConn -H \$HOSTADDRES...	Vérification	0 (0)	0 (0)	ACTIVÉ	<input type="checkbox"/> 1
<input type="checkbox"/> check_centreon_nt	\$USER1\$check_nt -H \$HOSTADDRESS\$ -p 12489 -v \$ARG...	Vérification	0 (0)	0 (0)	ACTIVÉ	<input type="checkbox"/> 1
<input type="checkbox"/> check_centreon_ping	\$USER1\$check_icmp -H \$HOSTADDRESS\$ -n \$ARG1\$ -w \$...	Vérification	0 (0)	0 (2)	ACTIVÉ	<input type="checkbox"/> 1
<input type="checkbox"/> check_centreon_process	\$USER1\$check_centreon_snmp_process -H \$HOSTADDRES...	Vérification	0 (0)	0 (0)	ACTIVÉ	<input type="checkbox"/> 1
<input type="checkbox"/> check_centreon_remote_storage	\$USER1\$check_centreon_snmp_remote_storage -H \$HOS...	Vérification	0 (0)	0 (11)	ACTIVÉ	<input type="checkbox"/> 1
<input type="checkbox"/> check_centreon_snmp_proc_detailed	\$USER1\$check_centreon_snmp_process_detailed -H \$H...	Vérification	0 (0)	0 (0)	ACTIVÉ	<input type="checkbox"/> 1

Plus d'actions...Ajouter

12345>

10

Fill the field "Nom de la commande" with "check\_nrpe"

?

Nom de commande \*

check\_nrpe

Fill the field "Ligne de commande" with :

```
> $USER1$/check_centreon_nrpe -H $HOSTADDRESS$ -p $_SERVICEPORT$ -c  
> $_SERVICECOMMAND$
```

?

Ligne de commande \*

\$USER1\$/check\_centreon\_nrpe -H \$HOSTADDRESS\$ -p \$\_SERVICEPORT\$ -c  
\$\_SERVICECOMMAND\$

Fill the field "Description des macros" :

MACRO (SERVICE) PORT :  
MACRO (SERVICE) COMMAND :

?

Description des macros

MACRO (SERVICE) PORT :  
MACRO (SERVICE) COMMAND :

Click on "Sauvegarder"

Configuration > Commandes > Contrôles

Sauvegarder

Réinitialiser

Modifier une commande

Vérification

1

Nom de commande \*

check\_nrpe

2

Type de commande

Notification

Verification

Divers

Découverte

\$USER1\$/check\_centreon\_nrpe -H \$HOSTADDRESS\$ -p \$\_SERVICEPORT\$ -c  
\$\_SERVICECOMMAND\$

3

Ligne de commande \*

<<

\$CENTREONPLUGINS\$ (Centreon Plugin Path)

<<

/Centreon/SNMP

<<

\$ADMINEMAILS

4

Activer le shell

☐

5

Exemple d'arguments

\$HOSTADDRESS\$

6

Description des arguments

Décrire les arguments

Effacer les arguments

7

Description des macros

Décrire les macros

MACRO (SERVICE) PORT :  
MACRO (SERVICE) COMMAND :  
MACRO (SERVICE) ARGUMENT : :

Informations supplémentaires

8

Connecteurs

Sélectionner un connecteur...

9

Modèle de graphique

10

Statut

Activé

Désactivé

11

Commentaire

Sauvegarder

Réinitialiser

# IV. Création du modèle NRPE de supervision dans Centreon

Go to "Configuration"

Accueil

Supervision

Rapports

Configuration

Administration

Go to "Services"

Accueil

Supervision

Rapports

Configuration

Administration

Hôtes

Services

Utilisateurs

Commandes

Notifications

Traps SNMP

Collecteurs

Base de connaissance

Go to "Modèles"

Services

Services par hôte

Services par groupe d'hôtes

Groupes de services

Modèles

Catégories

Méta-Services

Méta-Services

Utilisateurs connectés

admin

Click on "Ajouter"

Configuration > Services > Modèles

Modèle de service

Rechercher

Filtres

Plus d'actions...Ajouter

< 1 2 3 >

10

Nom	Alias	Planification	Modèles	Statut	Options
Ping-LAN	Ping	5 min / 1 min	-> generic-service	ACTIVÉ	1
Ping-WAN	Ping	5 min / 1 min	-> generic-service	ACTIVÉ	1
SNMP-DISK-/	Disk-/	5 min / 1 min	-> generic-service	ACTIVÉ	1
SNMP-DISK-#home	Disk-#home	5 min / 1 min	-> generic-service	ACTIVÉ	1
SNMP-DISK-#opt	Disk-#opt	5 min / 1 min	-> generic-service	ACTIVÉ	1
SNMP-DISK-#usr	Disk-#usr	5 min / 1 min	-> generic-service	ACTIVÉ	1
SNMP-DISK-#var	Disk-#var	5 min / 1 min	-> generic-service	ACTIVÉ	1
SNMP-DISK-C:	Disk-C:	5 min / 1 min	-> generic-service	ACTIVÉ	1
SNMP-DISK-E:	Disk-E:	5 min / 1 min	-> generic-service	ACTIVÉ	1
SNMP-Linux-Load-Average	Load	5 min / 1 min	-> generic-service	ACTIVÉ	1

Plus d'actions...Ajouter

< 1 2 3 >

10

Till the field "Alias" with "NRPE"

Alias \*

NRPE

Till the field "Nom" with "Modele\_NRPE"

Nom \*

Modele\_NRPE

Till the field "Nom" with "PORT" and "Valeur" with "5666" in "Macros personnalisées"

Macros personnalisées

+ Ajouter une nouvelle entrée

Hérité depuis un modèle

Hérité depuis la commande

NomPORTValeur5666Mot de passe

Till the field "Nom" with "COMMAND" and "Valeur" with nothing in "Macros personnalisées"

NomCOMMANDValeurMot de passe

Choose "24x7" for "Période de contrôle"

Période de contrôle

24x7

Till the field "Nombre de contrôles avant validation de l'état" with "3"

Nombre de contrôles avant validation de l'état

3

Till the field "Intervalle normal de contrôle" with "3"

Intervalle normal de contrôle

5

\* 60 secondes

Till the field "Intervalle non-régulier de contrôle" with "1"



?

 Intervalle non-régulier de contrôle

1

\* 60 secondes

Go to Notifications

Informations générales

Notifications

Relations

Traitement des données

Informations complémentaires

Choose "Non" for "Notification activée"

?

 Notification activée

☐ Oui ☒ Non ☐ Défaut

Click on "Sauvegarder"

Configuration > Services > Modèles

Informations générales

Modifier un modèle de service

Informations générales

?

 Alias \*

NRPE

?

 Nom \*

Modele\_NRPE

?

 Modèle

Modèle

Options de contrôle des services

?

 Commande de vérification

Commande de vérification

?

 Macros personnalisées

Hérité depuis un modèle

Hérité depuis la commande

Nom

PORT

Valeur

5666

Mot de passe

Nom

COMMAND

Valeur

Mot de passe

?

 Arguments

Argument

Aucun argument trouvé dans cette commande

Valeur

Options d'ordonnancement des services

?

 Période de contrôle

24x7

?

 Nombre de contrôles avant validation de l'état

3

?

 Intervalle normal de contrôle

5

\* 60 secondes

?

 Intervalle non-régulier de contrôle

1

\* 60 secondes

?

 Contrôle actif activé

☐ Oui ☐ Non ☒ Défaut

?

 Contrôle passif activé

☐ Oui ☐ Non ☒ Défaut

?

 Est volatile

☐ Oui ☐ Non ☒ Défaut

Sauvegarder

Réinitialiser

## V. Création d'un hôte dans Centreon

Go to "Configuration"

Accueil

Supervision

Rapports

Configuration

Administration

Go to "Hôtes"

Accueil

Supervision

Rapports

Configuration

Administration

Hôtes

Services

Utilisateurs

Commandes

Notifications

Traps SNMP

Collecteurs

Base de connaissance

Click on "Ajouter"

Configuration > Hôtes

Accueil

Supervision

Rapports

Configuration

Administration

Hôtes

Services

Utilisateurs

Commandes

Notifications

Traps SNMP

Collecteurs

Base de connaissance

Hôtes

Groupes d'hôtes

Modèles

Catégories

Utilisateurs connectés

admin

Nom

Groupe d'hôtes

Collecteur

Modèle

Statut

Rechercher

Filtres

Plus d'actions...

Ajouter

30

Nom	Alias	Adresse IP / DNS	Collecteur	Modèles	Statut	Options
Centreon-Server	Monitoring Server	127.0.0.1	Central	generic-host	ACTIVE	<div><div></div><div>1</div></div>
Cloud_Echosens	Cloud_Echosens	172.16.15.128	Central		ACTIVE	<div><div></div><div>1</div></div>
Cloud_Echosens_2	Cloud_Echosens_2	172.16.15.122	Central		ACTIVE	<div><div></div><div>1</div></div>

Plus d'actions...

Ajouter

30

Fill fields "Nom", "Alias" & "Adresse IP/DNS"

Configuration > Hôtes

Configuration de l'hôte | Notification | Relations | Traitement des données | Informations détaillées de l'hôte

[Ajouter un hôte](#)

Information de base sur l'hôte

Nom \*

Alias \*

Adresse IP / DNS \*

Résoudre

Communauté SNMP & Version

Surveillance depuis le collecteur

Fuseau horaire / Localisation

Modèles

Un hôte peut avoir plusieurs modèles, leurs ordre à une importance significative  
ici, une image d'explication.

Créer aussi les services liés aux modèles

Options de contrôle de l'hôte

Commande de vérification

Arguments

Macros personnalisées

Hérité depuis un modèle  
Hérité depuis la commande

Options d'ordonnement

Période de contrôle

Nombre de contrôles avant validation de l'état

Intervalle normal de contrôle

Intervalle non-régulier de contrôle

Contrôle actif activé

Contrôle passif activé

Sauvegarder Réinitialiser

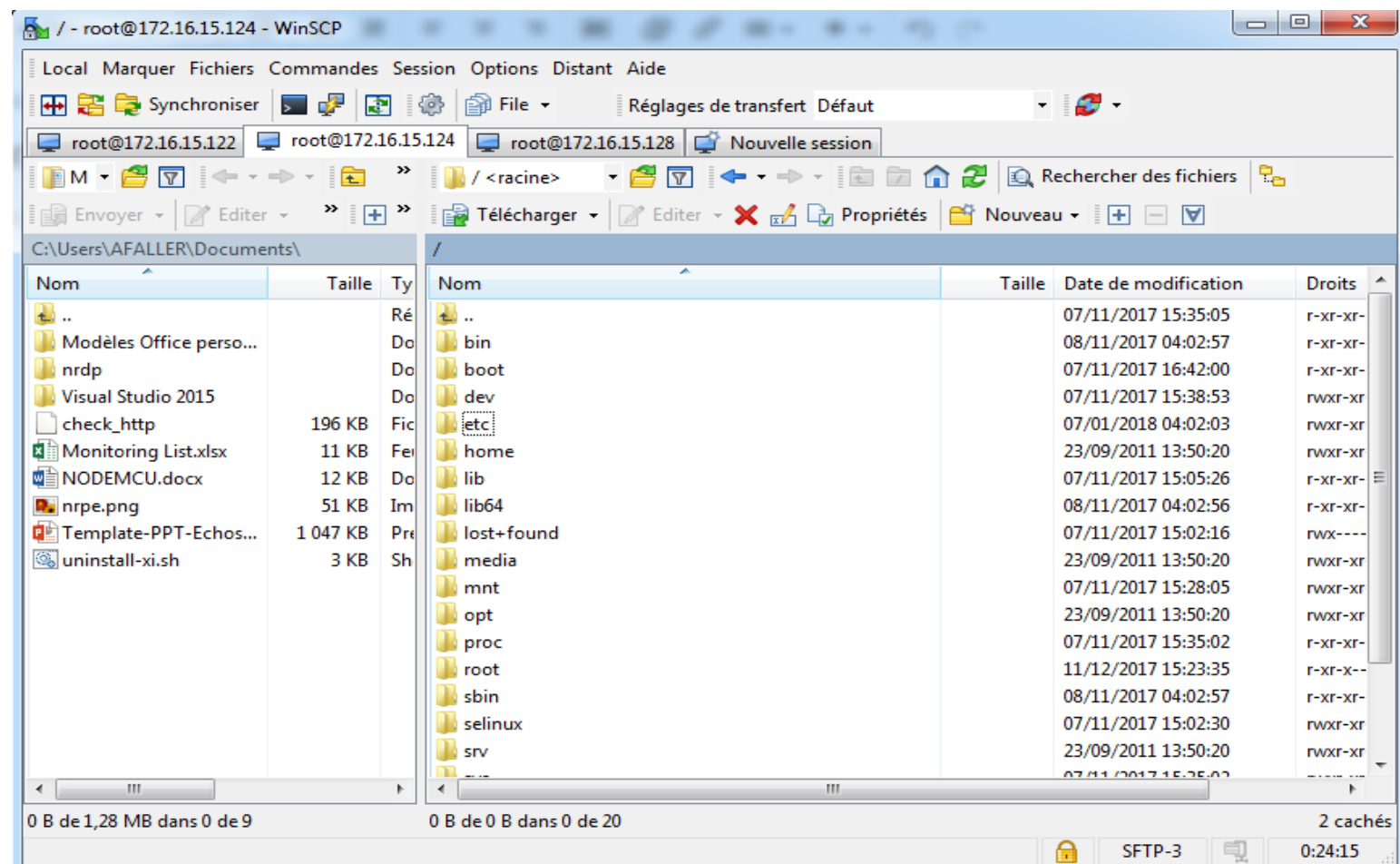
Click on "Sauvegarder"

Your new host is create !

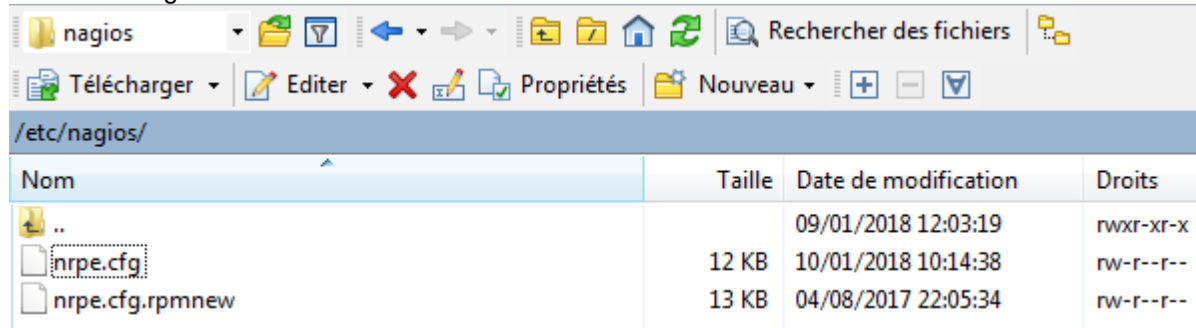
## VI. Configurer les commandes de supervision

Go to etc/nagios/nrpe.cfg

Access the server via WinSCP

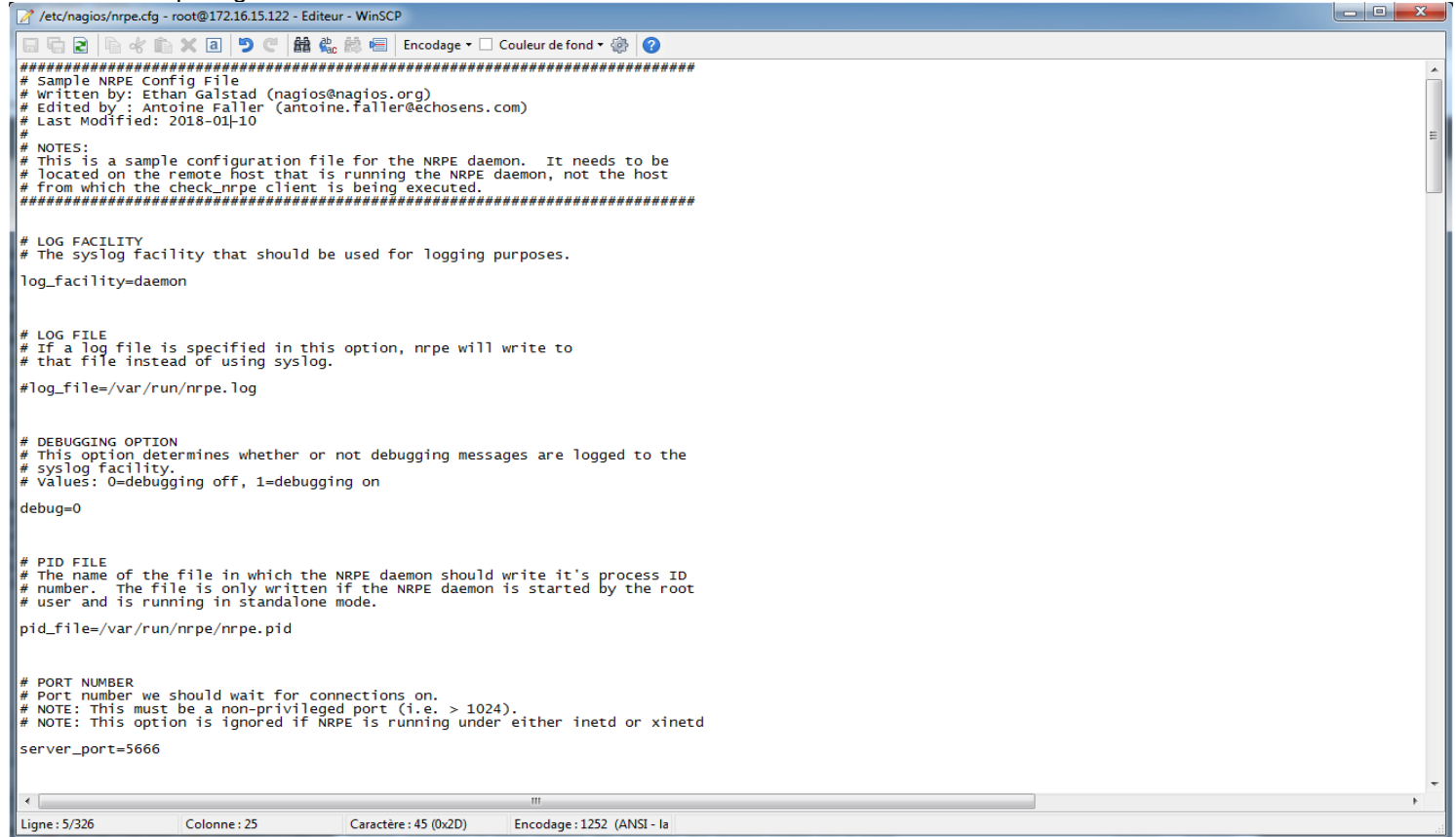


Go to "etc/nagios"



Nom	Taille	Date de modification	Droits
..		09/01/2018 12:03:19	rwxr-xr-x
nrpe.cfg	12 KB	10/01/2018 10:14:38	rw-r--r--
nrpe.cfg.rpmnew	13 KB	04/08/2017 22:05:34	rw-r--r--

Edit the file "nrpe.cfg"



```
#####
# Sample NRPE Config File
# Written by: Ethan Galstad (nagios@nagios.org)
# Edited by: Antoine Fallier (antoine.fallier@echosens.com)
# Last Modified: 2018-01-10
#
# NOTES:
# This is a sample configuration file for the NRPE daemon. It needs to be
# located on the remote host that is running the NRPE daemon, not the host
# from which the check_nrpe client is being executed.
#####

# LOG FACILITY
# The syslog facility that should be used for logging purposes.
log_facility=daemon

# LOG FILE
# If a log file is specified in this option, nrpe will write to
# that file instead of using syslog.
#log_file=/var/run/nrpe.log

# DEBUGGING OPTION
# This option determines whether or not debugging messages are logged to the
# syslog facility.
# Values: 0=debugging off, 1=debugging on
debug=0

# PID FILE
# The name of the file in which the NRPE daemon should write it's process ID
# number. The file is only written if the NRPE daemon is started by the root
# user and is running in standalone mode.
pid_file=/var/run/nrpe/nrpe.pid

# PORT NUMBER
# Port number we should wait for connections on.
# NOTE: This must be a non-privileged port (i.e. > 1024).
# NOTE: This option is ignored if NRPE is running under either inetd or xinetd
server_port=5666

Ligne: 5/326 Colonne: 25 Caractère: 45 (0x2D) Encodage: 1252 (ANSI - la)
```

Go to the line "COMMAND DEFINITIONS" ( ligne 280)

```
# COMMAND DEFINITIONS
# Command definitions that this daemon will run. Definitions
# are in the following format:
#
# command[<command_name>]=<command_line>
#
# When the daemon receives a request to return the results of <command_name>
# it will execute the command specified by the <command_line> argument.
#
# Unlike Nagios, the command line cannot contain macros - it must be
# typed exactly as it should be executed.
#
# Note: Any plugins that are used in the command lines must reside
# on the machine that this daemon is running on! The examples below
# assume that you have plugins installed in a /usr/local/nagios/libexec
# directory. Also note that you will have to modify the definitions below
# to match the argument format the plugins expect. Remember, these are
# examples only!

# The following examples use hardcoded command arguments...

command[check_users]=usr/lib64/nagios/plugins/check_users -w 5 -c 10
command[check_load]=usr/lib64/nagios/plugins/check_load -r -w .15,.10,.05 -c .30,.25,.20
command[check_hda1]=usr/lib64/nagios/plugins/check_disk -w 20% -c 10% -p /dev/hda1
command[check_zombie_procs]=usr/lib64/nagios/plugins/check_procs -w 5 -c 10 -s Z
command[check_total_procs]=usr/lib64/nagios/plugins/check_procs -w 150 -c 200
command[check_wildfly_procs]=usr/lib64/nagios/plugins/check_procs -w 3: -c 1: -u wildfly
command[check_java_procs]=usr/lib64/nagios/plugins/check_procs -c 1: -c java
command[check_mysql_procs]=usr/lib64/nagios/plugins/check_procs -c 1: -u mysql
command[check_apache_procs]=usr/lib64/nagios/plugins/check_procs -w 5: -c 1: -u apache
command[check_wildfly_http]=usr/lib64/nagios/plugins/check_http -I localhost -p 8080
command[check_sso_client_login_http]=usr/lib64/nagios/plugins/check_http -H 172.16.15.122 -p 9001 -u /client/login -T "application/json" -j POST -P '{"clientId
command[check_sso_client_login_http_url]=usr/lib64/nagios/plugins/check_http -I 172.16.15.125 -p 443 -u https://discovery.dev-echosens.fr/login -S -j GET

# The following examples allow user-supplied arguments and can
# only be used if the NRPE daemon was compiled with support for
# command arguments *AND* the dont_blame_nrpe directive in this
# config file is set to '1'. This poses a potential security risk, so
# make sure you read the SECURITY file before doing this.

#command[check_users]=usr/lib64/nagios/plugins/check_users -w $ARG1$ -c $ARG2$
#command[check_load]=usr/lib64/nagios/plugins/check_load -w $ARG1$ -c $ARG2$
#command[check_disk]=usr/lib64/nagios/plugins/check_disk -w $ARG1$ -c $ARG2$ -p $ARG3$
#command[check_procs]=usr/lib64/nagios/plugins/check_procs -w $ARG1$ -c $ARG2$ -s $ARG3$
```

Type below the new commands that you would like to add

You can learn more on : <https://www.monitoring-plugins.org/doc/man/>

Once the modifications are finished , save the file  
Open a terminal and execute the below command :  
> service nrpe restart

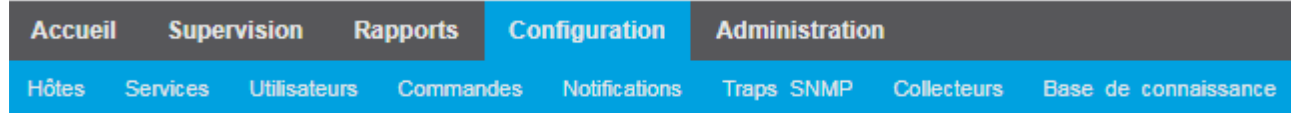
The newly added commands are now available via your Centreon server

## VII. Création d'un service dans Centreon

Go to "Configuration"



Go to "Services"



Click on "Ajouter"

Configuration > Services > Services par hôte

Hôtes

Services

Modèles

Statut

☐ Disabled hosts

Rechercher

Filtres

Plus d'actions...Ajouter

1 2 3 >

10 ▼

Hôte	Service	Planification	Modèle	Statut	Options
<div><input type="checkbox"/></div> <div>Centreon-Server</div>	<div></div> <div>Disk-/</div>	5 min / 1 min -> SNMP-DISK-/ -> generic-service		<div>ACTIVÉ</div>	<div><div><div></div></div>1</div>
<div><input type="checkbox"/></div>	<div></div> <div>Disk-/home</div>	5 min / 1 min -> SNMP-DISK-/home -> generic-service		<div>DÉSACTIVÉ</div>	<div><div><div></div></div>1</div>
<div><input type="checkbox"/></div>	<div></div> <div>Disk-/opt</div>	5 min / 1 min -> SNMP-DISK-/opt -> generic-service		<div>DÉSACTIVÉ</div>	<div><div><div></div></div>1</div>
<div><input type="checkbox"/></div>	<div></div> <div>Disk-/usr</div>	5 min / 1 min -> SNMP-DISK-/usr -> generic-service		<div>DÉSACTIVÉ</div>	<div><div><div></div></div>1</div>
<div><input type="checkbox"/></div>	<div></div> <div>Disk-/var</div>	5 min / 1 min -> SNMP-DISK-/var -> generic-service		<div>DÉSACTIVÉ</div>	<div><div><div></div></div>1</div>
<div><input type="checkbox"/></div>	<div></div> <div>Load</div>	5 min / 1 min -> SNMP-Linux-Load-Average -> generic-service		<div>ACTIVÉ</div>	<div><div><div></div></div>1</div>
<div><input type="checkbox"/></div>	<div></div> <div>Memory</div>	5 min / 1 min -> SNMP-Linux-Memory -> generic-service		<div>ACTIVÉ</div>	<div><div><div></div></div>1</div>
<div><input type="checkbox"/></div>	<div></div> <div>Ping</div>	5 min / 1 min -> Ping-LAN -> generic-service		<div>ACTIVÉ</div>	<div><div><div></div></div>1</div>
<div><div><input type="checkbox"/></div><div>Cloud_Echosens</div></div>	<div></div> <div>check_disk</div>	5 min / 1 min -> Modele_nrpe_root_disk -> Modele_NRPE -> generic-service		<div>ACTIVÉ</div>	<div><div><div></div></div>1</div>
<div><input type="checkbox"/></div>	<div></div> <div>check_java_procs</div>	5 min / 1 min -> Modele_NRPE -> generic-service		<div>ACTIVÉ</div>	<div><div><div></div></div>1</div>

Plus d'actions...Ajouter

1 2 3 >

10 ▼

Till the field "Description"

? Description \*

check\_disk

Choose your host to supervise in the filed "Lié aux hôtes"

? Lié aux hôtes \*

☒ Cloud\_Echosens

Choose "Modele\_NRPE" in the field "Modèle"

? Modèle

Modele\_NRPE

Choose "check\_nrpe" in the field "Commande de vérification"

? Commande de vérification \*

check\_nrpe

In the field "Macros personnalisées" you can see two line "PORT" and "COMMAND"

? Macros personnalisées

☒ Hérité depuis un modèle  
☒ Hérité depuis la commande

+ Ajouter une nouvelle entrée

Nom PORT

Nom COMMAND

The field "PORT" are automatically filled by "5666"

Nom PORT Valeur 5666 Mot de passe ☐ ☒ ☒ ☒

Till the field "COMMAND" with the same name that you configure in "etc/nagios/nrpe.cfg"

Nom COMMAND Valeur root\_disk Mot de passe ☐ ☒ ☒ ☒

Click on "Sauvegarder"

[Modifier un service](#)

Service Basic Information

Description

Lié aux hôtes

Modèle

Options de contrôle des services

Commande de vérification

Macros personnalisées

Hérité depuis un modèle

Hérité depuis la commande

Arguments

Argument Valeur Exemple

Aucun argument trouvé dans cette commande

Options d'ordonnement des services

Période de contrôle

Nombre de contrôles avant validation de l'état

Intervalle normal de contrôle  \* 60 secondes

Intervalle non-régulier de contrôle  \* 60 secondes

Contrôle actif activé ☐ Oui ☐ Non ☒ Défaut

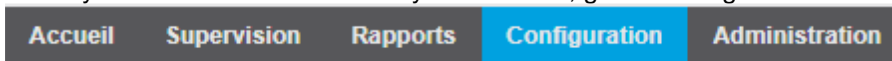
Contrôle passif activé ☐ Oui ☐ Non ☒ Défaut

Est volatile ☐ Oui ☐ Non ☒ Défaut

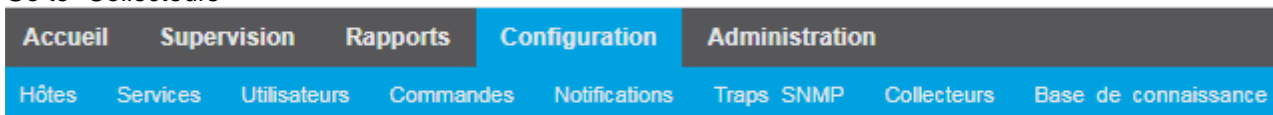
Sauvegarder Réinitialiser

## VIII. Affichage de la supervision

When you have finish to create all your services, go to "Configuration"



Go to "Collecteurs"



Click on "Export Configuration"

Configuration > Collecteurs

Collecteur

Rechercher

Plus d'actions... Ajouter Export configuration

Nom	Adresse IP	Hôte local	En cours d'exécution ?	Changement de configuration *	PID	Heure de démarrage du programme	Dernière mise à jour	Version	Défaut	Statut	Actions	Options
Central		Oui	OUI	NON	23780	10/01/2018 - 10:18:37	10/01/2018 - 11:43:43	Centreon Engine 1.8.0	Non	ACTIVÉ		1

Plus d'actions... Ajouter

Choose Central in the field "Collecteurs"

Collecteurs

Check the two first checkbox : "Générer les fichiers de configuration" & "Lancer le débogage du moteur de supervision (-v)"

☒ Générer les fichiers de configuration

☒ Lancer le débogage du moteur de supervision (-v)

☐ Déplacer les fichiers générés

☐ Redémarrer l'ordonnanceur

☐ Commande exécutée post-génération

Méthode

Click on "Export"

Configuration > Collecteurs > Export configuration

Export des fichiers de configuration du moteur de supervision

Polling instances

Collecteurs

Actions

☒ Générer les fichiers de configuration

☒ Lancer le débogage du moteur de supervision (-v)

☐ Déplacer les fichiers générés

☐ Redémarrer l'ordonnanceur

☐ Commande exécutée post-génération

Méthode

Exporter

Uncheck the two first checkbox and check the two next : "Déplacer les fichiers générés" & "Redémarrer l'ordonnanceur"

?

☐

Générer les fichiers de configuration

?

☐

Lancer le débogage du moteur de supervision (-v)

?

☒

Déplacer les fichiers générés

?

☒

Redémarrer l'ordonnanceur

?

☐

Commande exécutée post-génération

Méthode

Recharger

Change "Recharger" in "Méthode" by "Redémarrer"

?

☒

Redémarrer l'ordonnanceur

Méthode

Redémarrer

Click on "Export"

Configuration > Collecteurs > Export configuration

| Export des fichiers de configuration du moteur de supervision

Polling instances

?

Collecteurs \*

x

Central

Actions

?

☐

Générer les fichiers de configuration

?

☐

Lancer le débogage du moteur de supervision (-v)

?

☒

Déplacer les fichiers générés

?

☒

Redémarrer l'ordonnanceur

?

☐

Commande exécutée post-génération

Méthode

Redémarrer

Exporter

Go to "Supervision"

Accueil

Supervision

Rapports

Configuration

Administration

Go to "Détails des statuts"

Accueil

Supervision

Rapports

Configuration

Administration

Détails des statuts

Informations de performance

Temps d'arrêt

Journaux d'évènements

Choose "Tous" in "Statut du service"

Supervision > Détails des statuts > Services

Statut du service

Tous

Statut

Collecteur

Hôte

Service

Groupe d'hôtes

Groupes de services

Statut détaillé

Filtres

Plus d'actions...

1 2 > >>

10

	Hôtes	Services		Statut	Durée	Dernier contrôle	Tentatives	Statut détaillé
<input type="checkbox"/>	Centreon-Server	Disk-/	<div><div></div><div></div><div></div></div>	OK	2M 2d	2m 59s	1/3 (H)	Disk OK - / TOTAL: 6 480GB USED: 2.395GB (36%) FREE: 4.085GB (64%)
<input type="checkbox"/>		Load	<div><div></div><div></div><div></div></div>	OK	2M 2d	3m 49s	1/3 (H)	Load average: 0.01, 0.10, 0.07.
<input type="checkbox"/>		Memory	<div><div></div><div></div><div></div></div>	OK	2M 2d	4m 39s	1/3 (H)	Total memory used : 11% ram used : 41%, swap used 0%
<input type="checkbox"/>		Ping	<div><div></div><div></div><div></div></div>	OK	2M 2d	29s	1/3 (H)	OK - 127.0.0.1: rta 0,014ms, lost 0%
<input type="checkbox"/>	Cloud_Echosens	check_disk	<div><div></div><div></div><div></div></div>	OK	2d 21m	1m 19s	1/3 (H)	DISK OK - free space: / 24488 MB (67.45% inode=100%);
<input type="checkbox"/>		check_java_procs	<div><div></div><div></div><div></div></div>	CRITIQUE	2d 11m	2m 9s	3/3 (H)	PROCS CRITICAL: 0 processes with command name 'java'
<input type="checkbox"/>		nrpe_load	<div><div></div><div></div><div></div></div>	OK	1d 12h	3m 16s	1/3 (H)	OK - load average per CPU: 0.00, 0.00, 0.01
<input type="checkbox"/>	Cloud_Echosens_2	nrpe_apache_procs	<div><div></div><div></div><div></div></div>	CRITIQUE	23h 39m	46s	3/3 (H)	PROCS CRITICAL: 0 processes with UID = 46 (apache)
<input type="checkbox"/>		nrpe_disk	<div><div></div><div></div><div></div></div>	OK	1w 20h	1m 36s	1/3 (H)	DISK OK - free space: / 30836 MB (84.94% inode=100%);
<input type="checkbox"/>		nrpe_java_procs	<div><div></div><div></div><div></div></div>	OK	1w 20h	2m 26s	1/3 (H)	PROCS OK: 1 process with command name 'java'

Plus d'actions...

1 2 > >>

10

Congratulations ! Your supervision is ready !