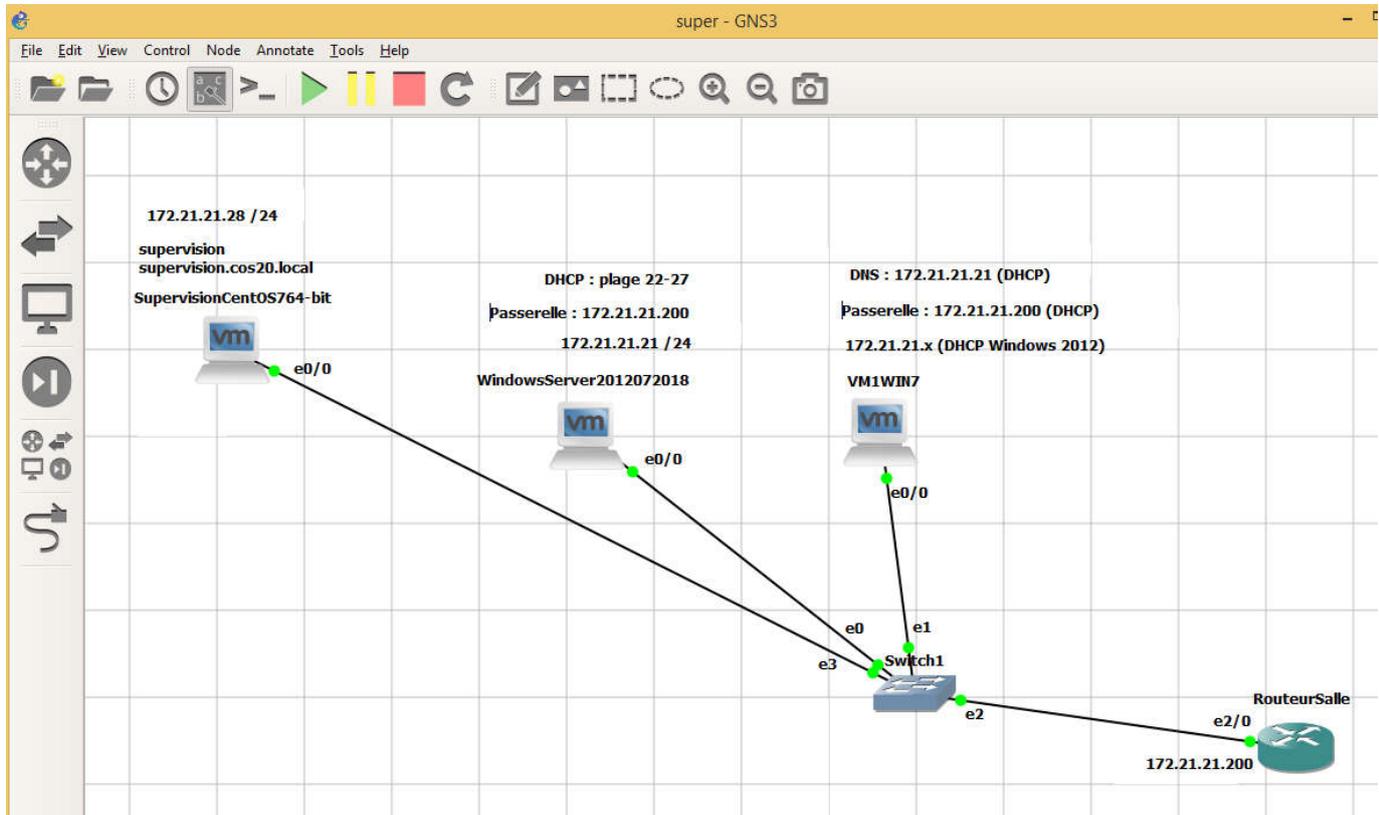


# SUPERVISION – NAGIOS – NAGUIS – CACTI

## Mise en place dans GNS3



## Installation de Eyesofnetwork

RÉSEAU ET NOM D'HÔTE INSTALLATION DE EYESOFNETWORK 5.2

Modification de ens33

Nom de la connexion :

Général Ethernet Sécurité 802.1X DCB Proxy Paramètres IPv4 Paramètres IPv6

Méthode : Manuel

Adresses

| Adresse      | Masque de réseau | Passerelle    |
|--------------|------------------|---------------|
| 172.21.21.28 | 24               | 172.21.21.200 |

Serveurs DNS :

Domaines de recherche :

ID de client DHCP :

Requier un adressage IPv4 pour que cette connexion fonctionne

Routes...

Cancel Enregistrer

Configuration réseau  
IP fixe et Mask / passerelle / DNS

**RÉSEAU ET NOM D'HÔTE** INSTALLATION DE EYESOFNETWORK 5.2

Terminé fr (oss) Aidez-moi !

**Ethernet (ens33)**  
Intel Corporation 82545EM Gigabit Ethernet Controller

+ -

**Ethernet (ens33)** Connecté

Adresse matérielle 00:0C:29:09:0B:70

Vitesse 1000 Mb/s

Adresse IP 172.21.21.28

Masque de sous-réseau 255.255.255.0

Route par défaut 172.21.21.200

DNS 172.21.21.21

Nom d'hôte :

Nom d'hôte actuel : supervision

Nom d'hôte

Activation

## Après avoir choisi la destination

**Eyes Of Network**

**RÉSUMÉ DE L'INSTALLATION** INSTALLATION DE EYESOFNETWORK 5.2

fr (oss) Aidez-moi !

**DATE ET HEURE**  
*Fuseau horaire Europe/Paris*

**CLAVIER**  
*Français (variante)*

**PRISE EN CHARGE DE LA LANGUE**  
*Français (France)*

**LOGICIEL**

**SOURCE D'INSTALLATION**  
*Média local*

**SÉLECTION DE LOGICIELS**  
*EyesOfNetwork Supervision*

**SYSTÈME**

**DESTINATION DE L'INSTALLATION**  
*Aucun disque sélectionné*

**KDUMP**  
*Kdump est activé*

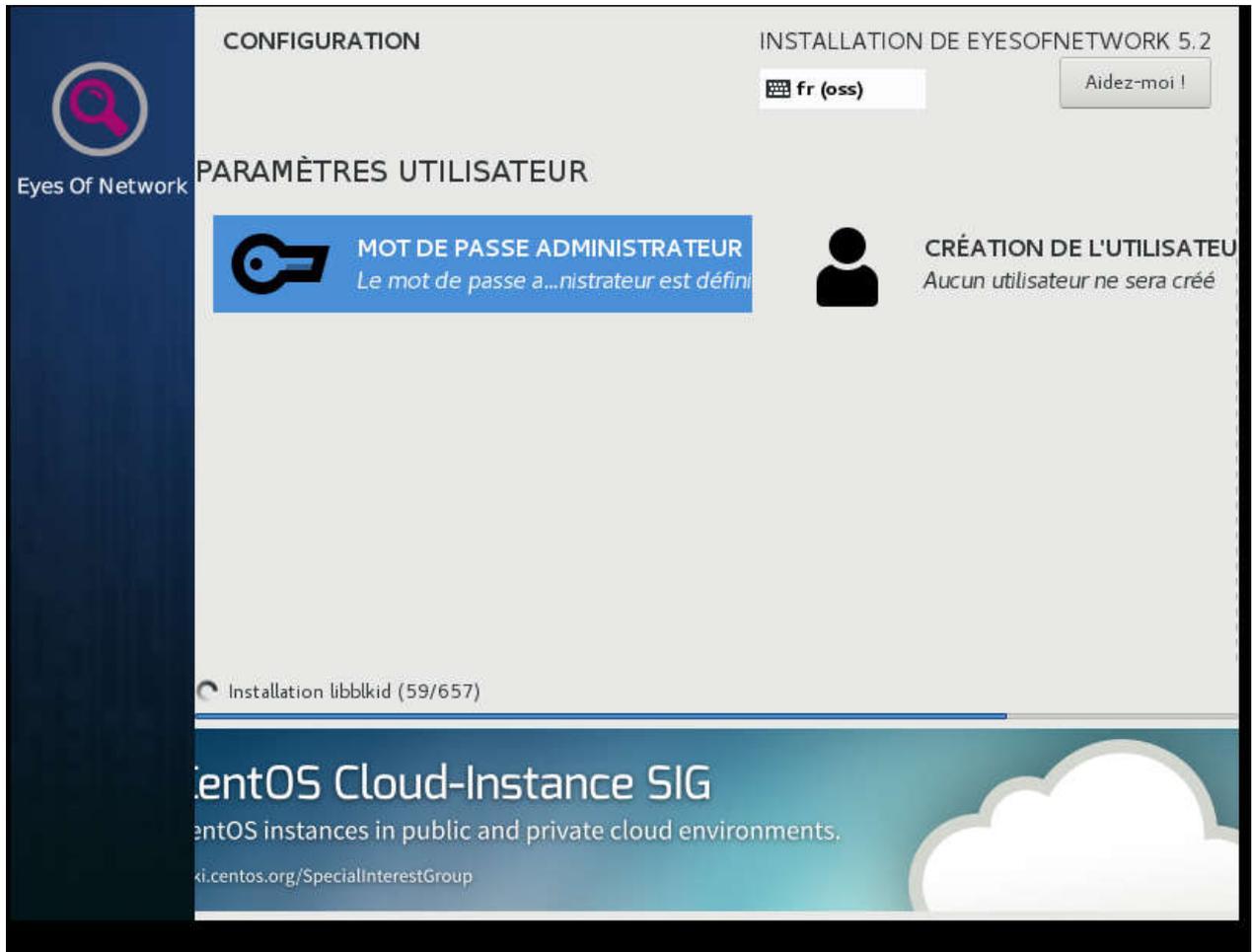
**NOM D'HÔTE ET RÉSEAU**  
*Le réseau filaire (ens33) est connecté*

**SECURITY POLICY**  
*Aucun profil sélectionné*

Quitter Démarrer l'installation

Nous ne modifierons pas vos disques tant que vous n'aurez pas cliqué sur « Commencer l'installation ».

## Mot de passe administrateur (root)



## A la fin de l'installation est mentionné l'adresse de gestion par l'interface web

```
EyesOfNetwork release 5.2 (Laura)
Kernel 3.10.0-862.3.2.el7.x86_64 on an x86_64

EyesOfNetwork access : https://supervision/
EyesOfNetwork website : https://www.eyesofnetwork.com/

supervision login:
```

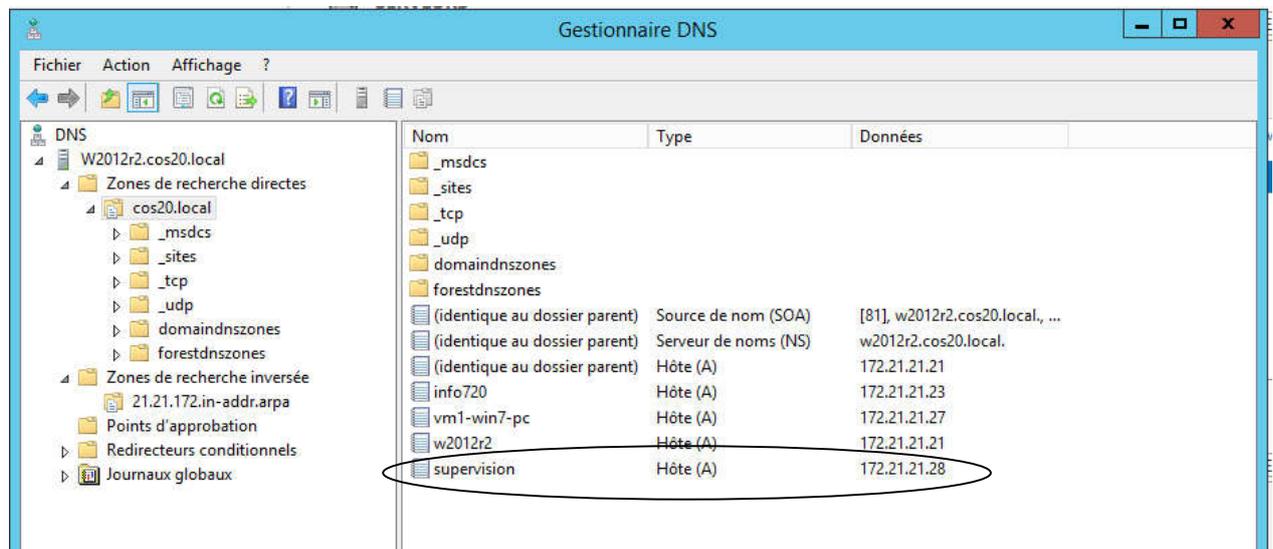
## Vérification de l'adresse ip

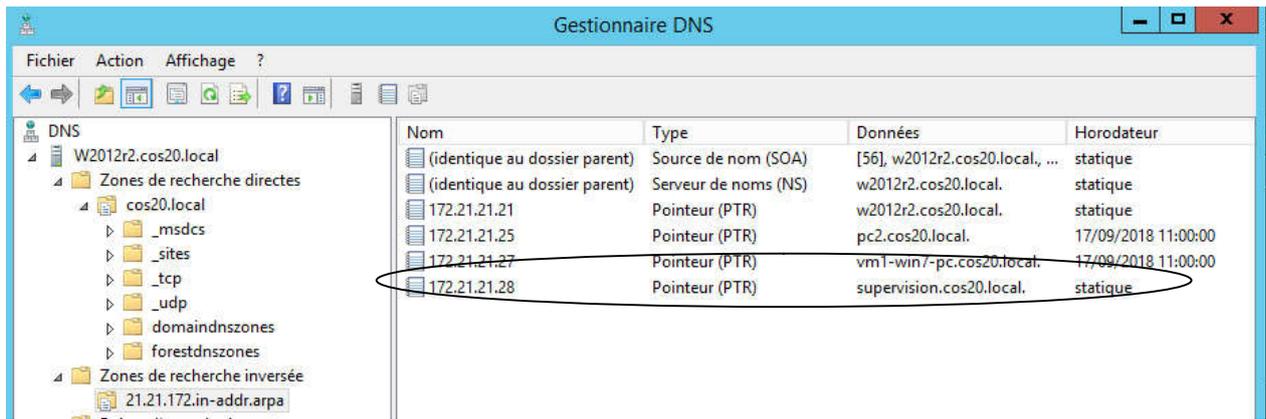
```
[root@supervision ~]# ifconfig
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 172.21.21.28 netmask 255.255.255.0 broadcast 172.21.21.255
    inet6 fe80::e46f:b4bc:e3ea:8970 prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:09:0b:70 txqueuelen 1000 (Ethernet)
    RX packets 164 bytes 13828 (13.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 115 bytes 9732 (9.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Boucle locale)
    RX packets 409 bytes 46348 (45.2 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 409 bytes 46348 (45.2 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

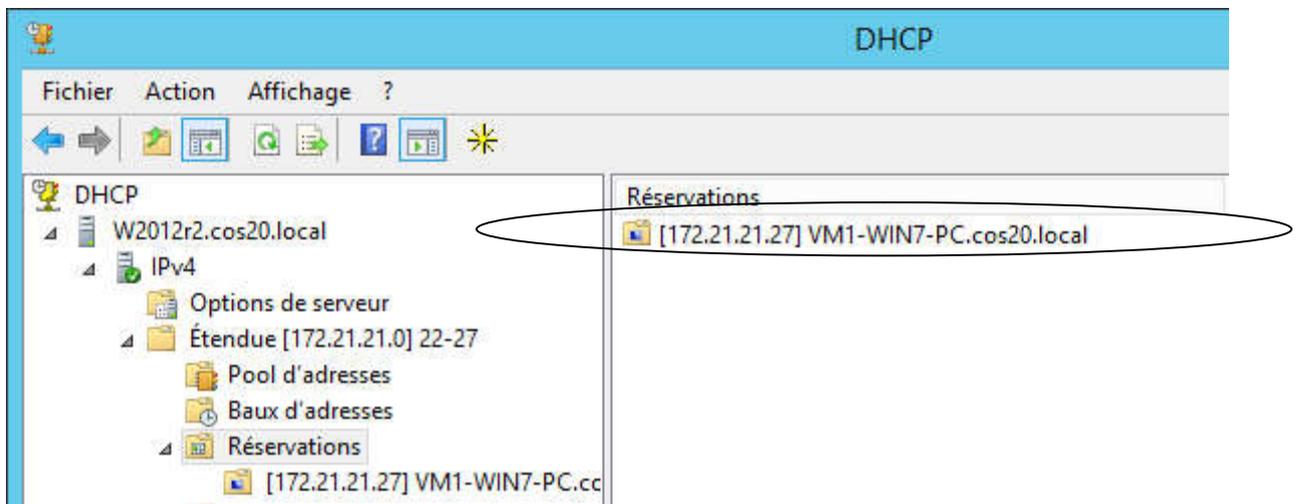
[root@supervision ~]# _
```

## Dans le serveur DNS, déclaration des zones de recherche directes et indirectes du serveur de supervision

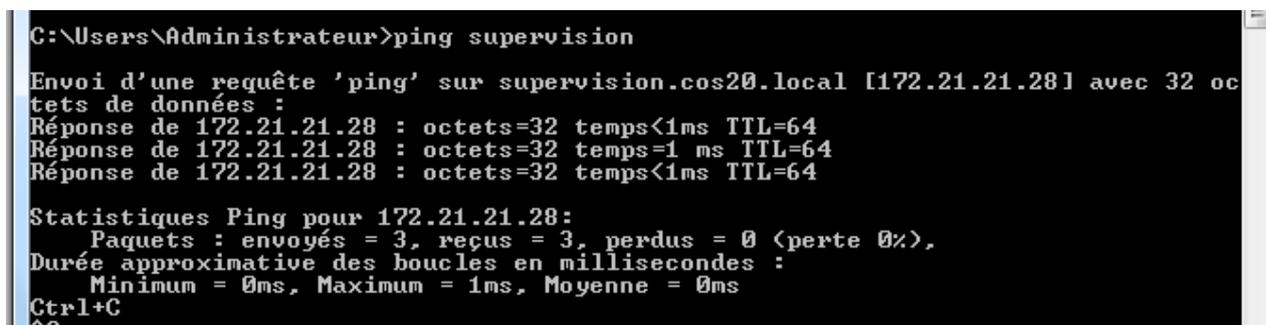




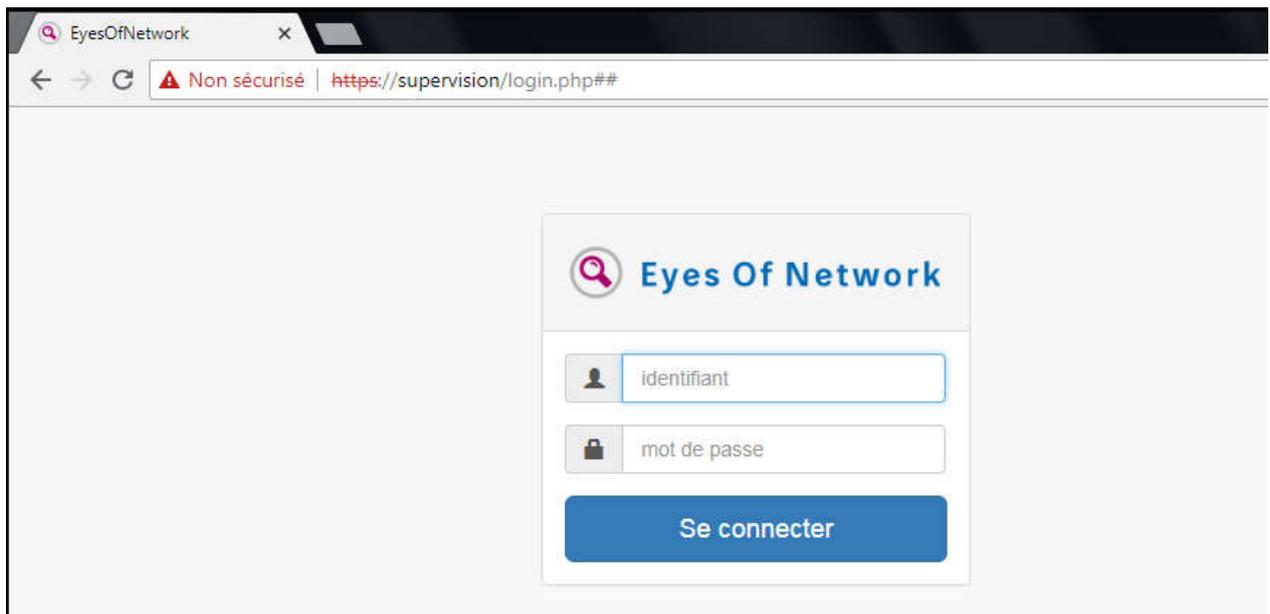
### Réservation de l'IP du serveur de supervision



### A partir du poste sous Windows 7, test de la connectivité au serveur de supervision

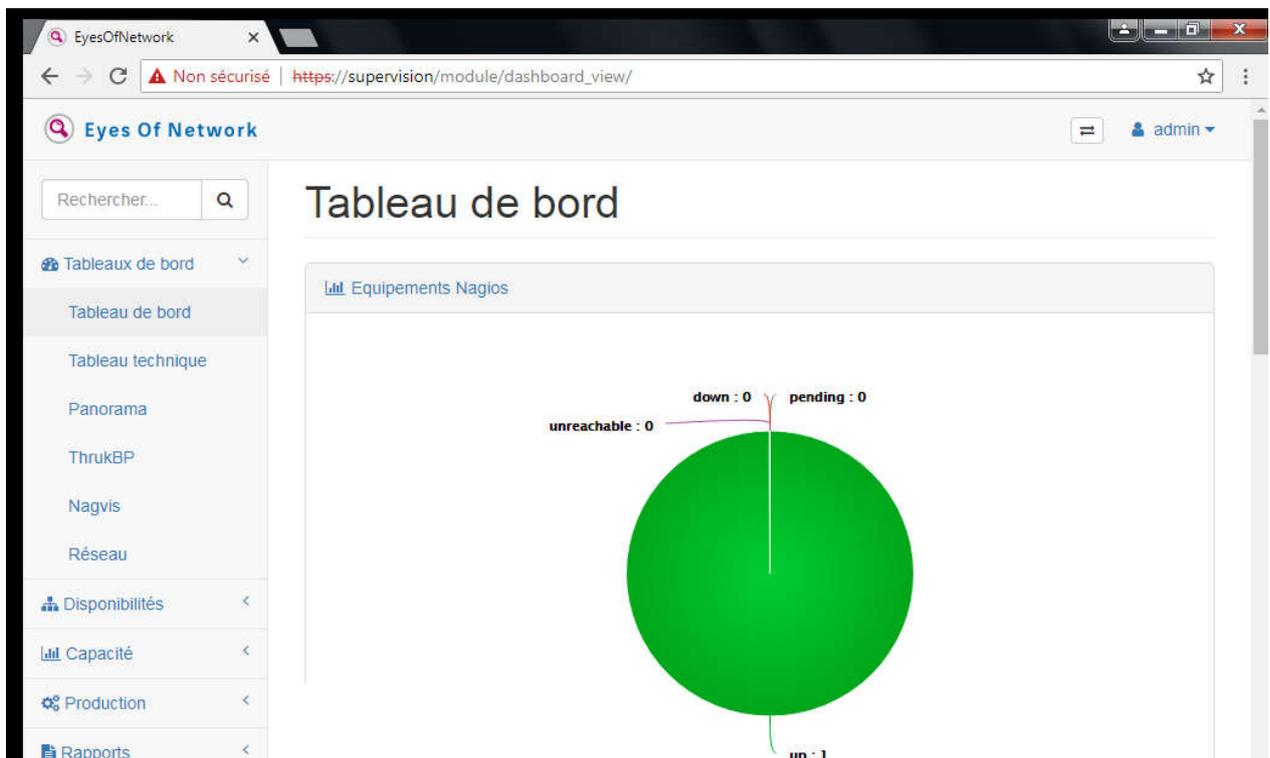


## A partir de Windows 7, ouverture du navigateur sur l'interface de gestion



« ( Login et mot de passe par défaut : admin /admin ) »

## Tableau de bord initial (vide)



## Configuration de la communauté du SNMP sur CentOS

```
####
# First, map the community name "EyesOfNetwork" into a "security name"

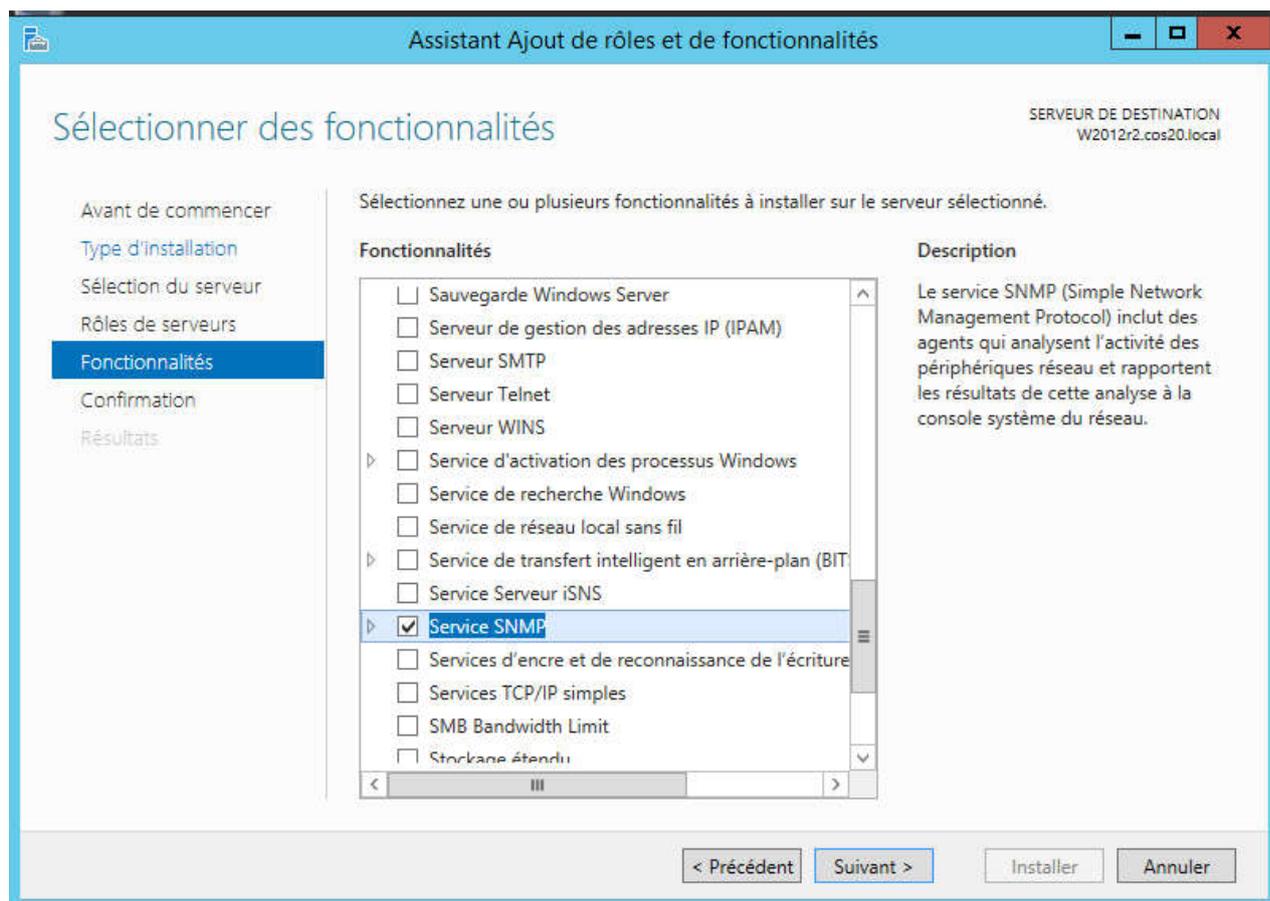
#       sec.name  source          community
com2sec notConfigUser  default      Public

####
"snmpd.conf" 462L, 18947C written
[root@supervision snmp]# _
```

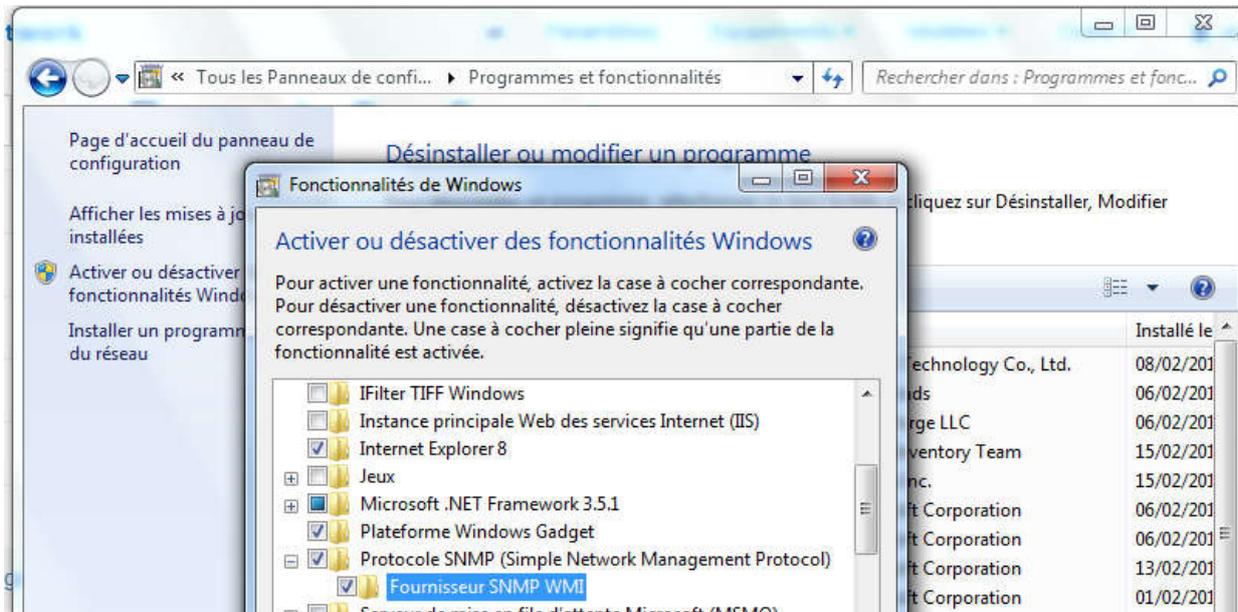
« Ici nous avons choisi une communauté dénommée Public »

## Sur le serveur Windows 2012 et sur le poste de travail windows 7, ajout du service SNMP et paramétrage

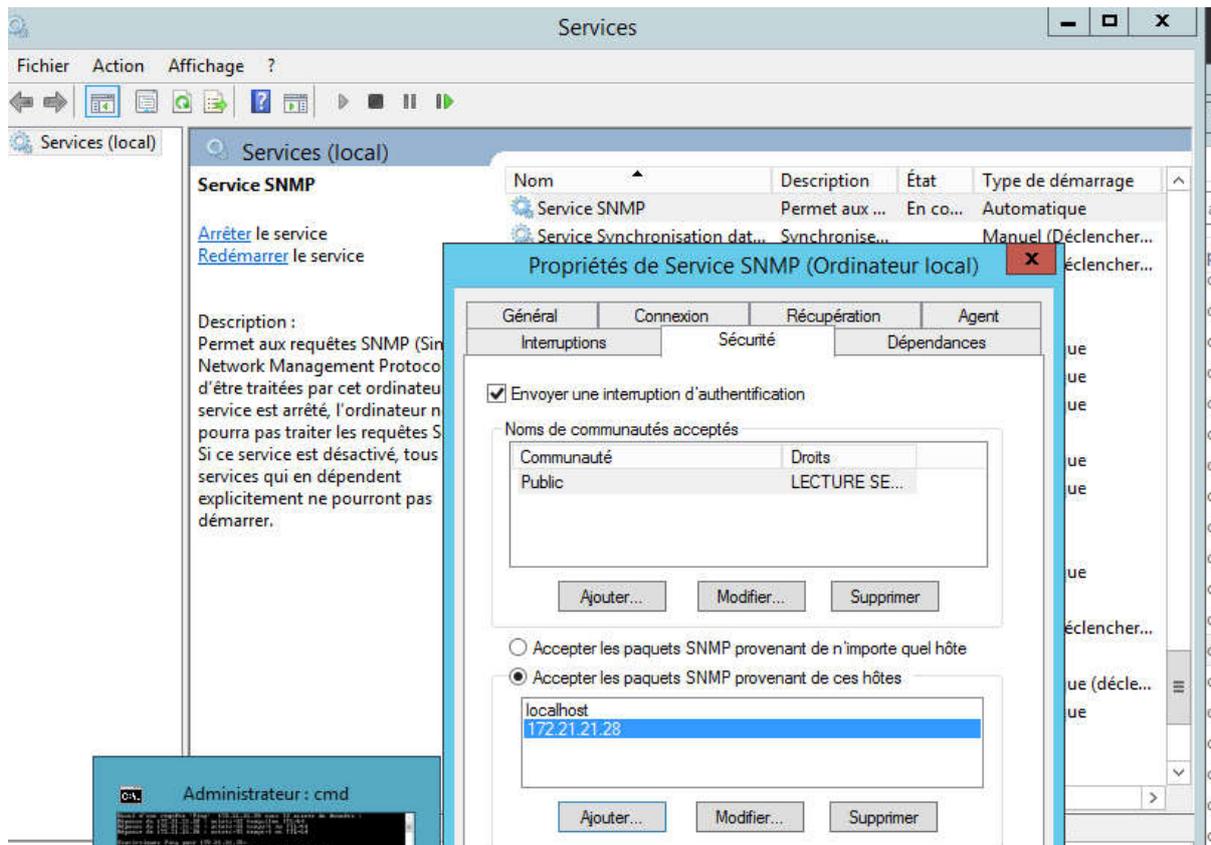
« 2012 »



## « Windows 7 »



## « 2012 / Windows 7 configuration du service snmp »



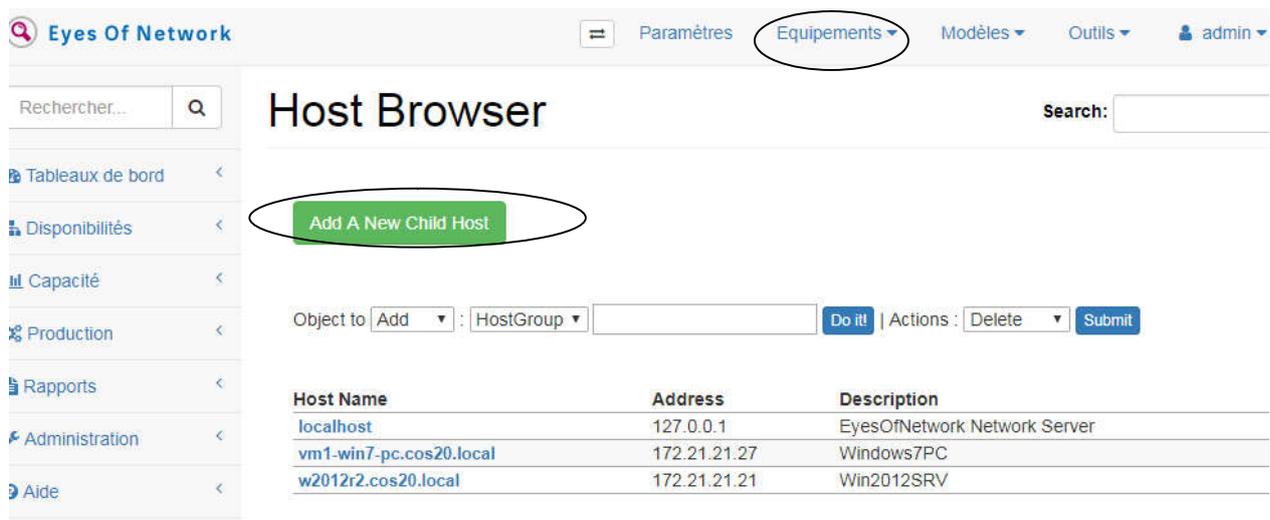
« Ici nous avons la même communauté « Public » et avons mentionné l'IP du serveur de supervision »

## Ajout dans l'interface de gestion Web de EyesOfNettowrk des équipements

### « Vérification des nom d'hôtes »

```
root@supervision ~# nslookup
> 172.21.21.28
Server:         172.21.21.21
Address:        172.21.21.21#53

28.21.21.172.in-addr.arpa    name = supervision.cos20.local.
>
```



Rechercher...

# Host Browser

Search:

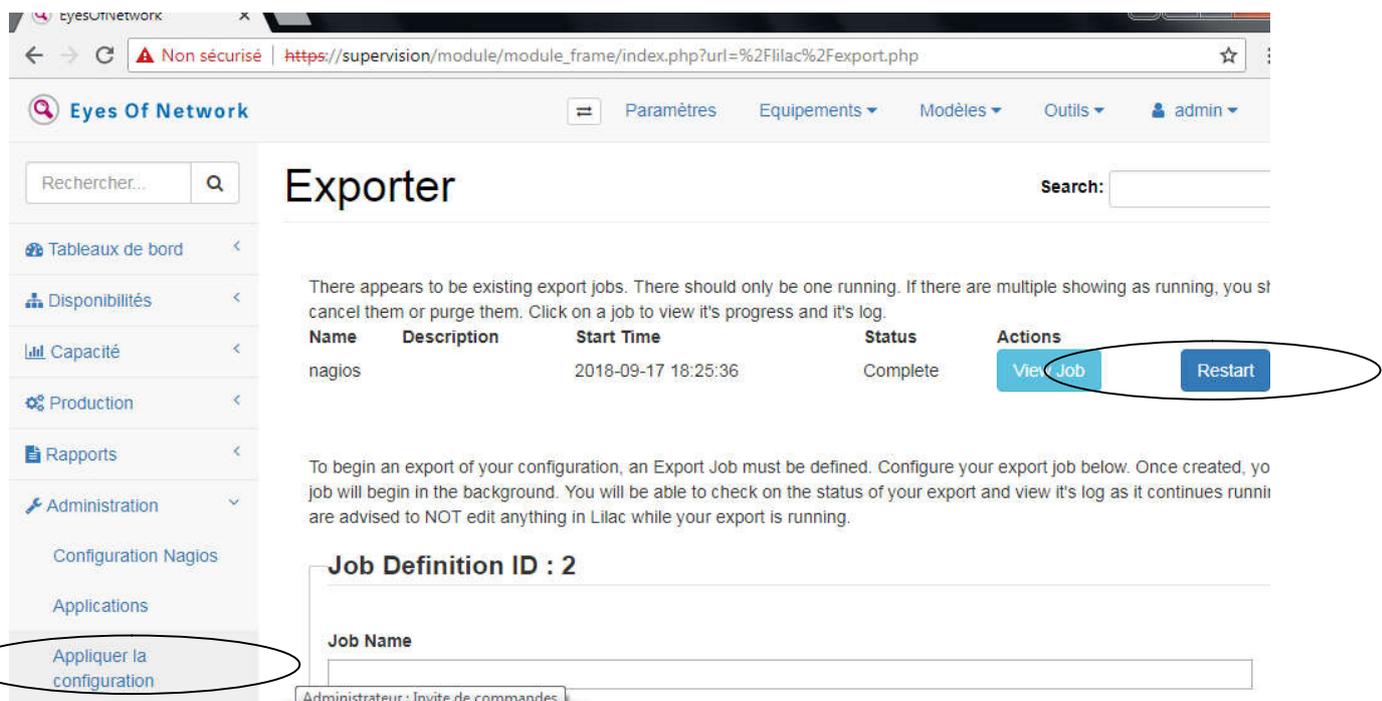
Tableaux de bord < | Disponibilités < | Capacité < | Production < | Rapports < | Administration < | Aide <

**Add A New Child Host**

Object to:  : HostGroup:   | Actions:

| Host Name               | Address      | Description                  |
|-------------------------|--------------|------------------------------|
| localhost               | 127.0.0.1    | EyesOfNetwork Network Server |
| vm1-win7-pc.cos20.local | 172.21.21.27 | Windows7PC                   |
| w2012r2.cos20.local     | 172.21.21.21 | Win2012SRV                   |

### « mise à jour des équipements »



Rechercher...

# Exporter

Search:

There appears to be existing export jobs. There should only be one running. If there are multiple showing as running, you should cancel them or purge them. Click on a job to view its progress and its log.

| Name   | Description | Start Time          | Status   | Actions  |
|--------|-------------|---------------------|----------|--|
| nagios |             | 2018-09-17 18:25:36 | Complete | <input type="button" value="View Job"/> <input type="button" value="Restart"/> |

To begin an export of your configuration, an Export Job must be defined. Configure your export job below. Once created, your job will begin in the background. You will be able to check on the status of your export and view its log as it continues running. You are advised to NOT edit anything in Lilac while your export is running.

**Job Definition ID : 2**

Job Name:

Administrateur : Invite de commandes

## Vérification dans le « Dashboard » des équipements surveillés

select all - unselect all - all problems - all with downtime

| Host         | Status | Last Check | Duration       | Status Information                           |
|--------------|--------|------------|----------------|--|
| localhost    | UP     | 10:41:49   | 0d 17h 30m 36s | PING OK - Paquets perdus = 0%, RTA = 0.02 ms |
| routeursalle | UP     | 10:41:59   | 0d 0h 0m 4s    | PING OK - Paquets perdus = 0%, RTA = 1.18 ms |
| Windows7PC   | UP     | 10:39:31   | 0d 0h 30m 58s  | PING OK - Paquets perdus = 0%, RTA = 1.67 ms |
| SRV2012      | UP     | 10:40:31   | 0d 0h 31m 12s  | PING OK - Paquets perdus = 0%, RTA = 0.63 ms |

select all - unselect all - all problems - all with downtime

4 of 4 Matching Host Entries Displayed

Non sécurisé | [https://supervision/module/module\\_frame/index.php?url=%2Fthruk%2Fcgi-bin%2Fstatus.cgi%3Fhostgroup%3Dall%...](https://supervision/module/module_frame/index.php?url=%2Fthruk%2Fcgi-bin%2Fstatus.cgi%3Fhostgroup%3Dall%...)

### Eyes Of Network

Rechercher...

Current Network Status  
Last Updated: Mon Sep 17 18:26:22 CEST 2018  
Updated every 90 seconds  
Thruk 2.20-2 - www.thruk.org  
Logged in as admin

| Up | Down | Unreachable | Pending |
|----|------|-------------|---------|
| 3  | 0    | 0           | 0       |

| OK | Warning | Unknown | Critical | Pending |
|----|---------|---------|----------|---------|
| 16 | 0       | 0       | 1        | 4       |

All Problems | All Types

All Problems | All Types

Host Status Details For All Host Groups

select host with leftclick to send multiple commands. Select multiple with shift + mouse.  
select all - unselect all - all problems - all with downtime

| Host       | Status | Last Check | Duration      | Status Information                            |
|------------|--------|------------|---------------|---|
| localhost  | UP     | 18:25:28   | 0d 1h 16m 55s | PING OK - Paquets perdus = 0%, RTA = 0.03 ms  |
| Windows7PC | UP     | 18:26:58   | 0d 0h 18m 38s | PING OK - Paquets perdus = 0%, RTA = 10.93 ms |
| SRV2012    | UP     | 18:28:18   | 0d 0h 17m 33s | PING OK - Paquets perdus = 0%, RTA = 10.60 ms |

select all - unselect all - all problems - all with downtime

3 of 3 Matching Host Entries Displayed

Non sécurisé | [https://supervision/module/module\\_frame/index.php?url=%2Fthruk%2Fcgi-bin%2Fstatus.cgi%3Fhostgroup%3Dall%...](https://supervision/module/module_frame/index.php?url=%2Fthruk%2Fcgi-bin%2Fstatus.cgi%3Fhostgroup%3Dall%...)

### Eyes Of Network

Rechercher...

| Host       | Service     | Status   | Last Check | Duration      | Problems | Info   |
|------------|-------------|----------|------------|---------------|----------|--|
| localhost  | memory      | OK       | 18:26:46   | 0d 0h 19m 49s | 1/4      | Ram : 46%, Swap : 0% : OK  |
|            | mysql       | OK       | 18:27:20   | 0d 1h 16m 26s | 1/4      | Uptime: 4582 Threads: 4 Questions: 19249 Slow queries: 0 Opens: 149 Flush tables: 2 Open tables: 160 Queries per second avg: 4.201 All selected storages (<=90%): OK |
|            | partitions  | OK       | 18:27:55   | 0d 0h 21m 15s | 1/4      | 1 process named ged (> 0) CPU used 2.0% (<=90%): OK  |
|            | process_ged | OK       | 18:28:29   | 0d 0h 20m 32s | 1/4      | SSH OK - OpenSSH_7.4 (protocol 2.0)  |
|            | processor   | OK       | 18:24:00   | 0d 0h 19m 27s | 1/4      | System Time OK - 09-17-2018, 18:26:23  |
|            | ssh         | OK       | 18:25:06   | 0d 1h 14m 42s | 1/4      | OK Linux supervision 3.10.0-862.3.2.el7.x86_64 - up 1 hours 16 minutes   |
|            | systemtime  | OK       | 18:26:23   | 0d 0h 21m 2s  | 1/4      | OK Connexion r   |
| Windows7PC | interfaces  | OK       | 18:27:32   | 0d 0h 1m 17s  | 1/4      | Physical Memory: 29%used(1171MB/4035MB) Virtual Memory: 16%used(1335MB/8189MB) (<=80%): OK All selected storages (<=90%): OK   |
|            | memory      | OK       | 18:28:06   | 0d 0h 0m 43s  | 1/4      | Service check scheduled for Mon Sep 17 18:29:15 CEST 2018  |
|            | partitions  | OK       | 18:28:40   | 0d 0h 0m 9s   | 1/4      | CRITICAL - System time is off by 7197 sec (09-17-2018, 16:28:03)   |
|            | processor   | PENDING  | never      | 0d 0h 7m 21s+ | 1/4      | OK: Hardware: Intel64 Family - up 33 minutes   |
|            | systemtime  | CRITICAL | 18:28:00   | 0d 0h 1m 49s  | 2/4      | Service check scheduled for Mon Sep 17 18:28:52 CEST 2018  |
| SRV2012    | uptime      | OK       | 18:26:35   | 0d 0h 2m 14s  | 1/4      | Service check scheduled for Mon Sep 17 18:29:26 CEST 2018  |
|            | interfaces  | OK       | 18:27:09   | 0d 0h 1m 40s  | 1/4      | OK: Hardware: Intel64 Family - up 35 minutes   |
|            | memory      | OK       | 18:27:43   | 0d 0h 1m 6s   | 1/4      | OK Connexion r   |
|            | partitions  | OK       | 18:28:18   | 0d 0h 0m 31s  | 1/4      | Physical Memory: 14%used(1156MB/8191MB) Virtual Memory: 13%used(1257MB/8471MB) (<=80%): OK All selected storages (<=90%): OK   |
|            | processor   | PENDING  | never      | 0d 0h 7m 21s+ | 1/4      | Service check scheduled for Mon Sep 17 18:28:52 CEST 2018  |

select all (hosts) - unselect all - all problems - all with downtime

21 of 21 Matching Service Entries Displayed

## Module « NAGVIS »

### « Création d'une carte / importation d'une image de fond / édition et personnalisation »

← → ↻ Non sécurisé | [https://supervision/module/module\\_frame/index.php?url=%2Ffrontend%2Fnagvis-js%2Findex.php](https://supervision/module/module_frame/index.php?url=%2Ffrontend%2Fnagvis-js%2Findex.php)

Eyes Of Network

Rechercher... 🔍

< NagVis Ouvrir Actions Éditer la Carte Options Menu personnel Choisissez une lan

172.21.21.28 / 24

supervision  
supervision.cos20.local  
SupervisionCentOS764-bit

localhost e0/0

DHCP : plage 22-27  
Passerelle : 172.21.21.200  
172.21.21.21 / 24  
WindowsServer2012072018

w2012r2.cos20.local e0/0

DNS : 172.21.21.2  
Passerelle : 172.21.21.200  
172.21.21.x (DHCP)

VM1WIN7  
vm1-win7-pc.cos20.local

vm1-win7-pc.cos20.local e0/0

Switch1

e0 e1 e2 e3

```
graph TD; localhost[localhost] --- e0[Switch1 e0]; w2012r2[w2012r2.cos20.local] --- e0[Switch1 e0]; vm1-win7-pc[vm1-win7-pc.cos20.local] --- e0[Switch1 e0]; Switch1[Switch1];
```

## Synchronisation cacti

- Production <
- Rapports <
- Administration >
  - Configuration Nagios
  - Applications
  - Appliquer la configuration
- Généralités <
- Nagios >
  - Déploiement csv
  - Synchronisation cacti**
  - Notifications avancées
- Rapports nagios
- Exécutions
- Cartographies <
- Liens externes <

admin

## Synchronisation cacti

Paramètres d'imports

Hostname

Host Template

Community

Port

SNMP Version

Hosts nagios à importer

Importer

Hosts cacti à supprimer

localhost (localhost)

routeursalle.cos20.local (routeursalle.cos20.local)

vm1-win7-pc.cos20.local (vm1-win7-pc.cos20.local)

w2012r2.cos20.local (w2012r2.cos20.local)

Supprimer

## Connection à cacti

|                            |
|----------------------------|
| Tableaux de bord <         |
| Disponibilités <           |
| Capacité <                 |
| Production <               |
| Rapports <                 |
| Administration ▾           |
| Configuration Nagios       |
| Applications               |
| Appliquer la configuration |
| Généralités <              |
| Nagios <                   |
| Cartographies <            |
| Liens externes ▾           |
| Thruk                      |
| <b>Cacti</b>               |

| <b>Create</b>            | <b>Devices</b>  | <b>Add</b>                           |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
|--------------------------|---|--------------------------------------|--------------|--------|--------------|-------------------------|--------------|--------------|--------------|--------------|--------------|-----------|---|---|---|----|---|-----------|------|------|-----|--------------------------|---|---|---|----|-----------|---------------|------|------|-------|-------------------------|---|---|---|----|-----------|-------------------------|------|------|-------|---------------------|---|---|---|----|-----------|---------------------|-----|------|-------|--|
| New Graphs               | Type: Any   | Status: Any                          |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Management               | Search:   | Rows per Page: 30                    |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Graph Management         | <input type="button" value="Go"/>   | <input type="button" value="Clear"/> |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Graph Trees              | Showing All Rows  |                                      |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Data Sources             | <table><thead><tr><th>Description**</th><th>ID</th><th>Graphs</th><th>Data Sources</th><th>Status</th><th>In State</th><th>Hostname</th><th>Current (ms)</th><th>Average (ms)</th><th>Availability</th></tr></thead><tbody><tr><td>localhost</td><td>7</td><td>2</td><td>1</td><td>Up</td><td>-</td><td>localhost</td><td>0.15</td><td>0.61</td><td>100</td></tr><tr><td>routeursalle.cos20.local</td><td>6</td><td>5</td><td>0</td><td>Up</td><td>0d 0h 21m</td><td>172.21.21.200</td><td>8.55</td><td>7.67</td><td>56.94</td></tr><tr><td>vm1-win7-pc.cos20.local</td><td>8</td><td>0</td><td>0</td><td>Up</td><td>0d 0h 36m</td><td>vm1-win7-pc.cos20.local</td><td>0.76</td><td>0.86</td><td>51.39</td></tr><tr><td>w2012r2.cos20.local</td><td>9</td><td>0</td><td>0</td><td>Up</td><td>0d 0h 36m</td><td>w2012r2.cos20.local</td><td>0.5</td><td>1.12</td><td>61.97</td></tr></tbody></table> | Description**                        | ID           | Graphs | Data Sources | Status                  | In State     | Hostname     | Current (ms) | Average (ms) | Availability | localhost | 7 | 2 | 1 | Up | - | localhost | 0.15 | 0.61 | 100 | routeursalle.cos20.local | 6 | 5 | 0 | Up | 0d 0h 21m | 172.21.21.200 | 8.55 | 7.67 | 56.94 | vm1-win7-pc.cos20.local | 8 | 0 | 0 | Up | 0d 0h 36m | vm1-win7-pc.cos20.local | 0.76 | 0.86 | 51.39 | w2012r2.cos20.local | 9 | 0 | 0 | Up | 0d 0h 36m | w2012r2.cos20.local | 0.5 | 1.12 | 61.97 |  |
| Description**            | ID  | Graphs                               | Data Sources | Status | In State     | Hostname                | Current (ms) | Average (ms) | Availability |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| localhost                | 7   | 2                                    | 1            | Up     | -            | localhost               | 0.15         | 0.61         | 100          |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| routeursalle.cos20.local | 6   | 5                                    | 0            | Up     | 0d 0h 21m    | 172.21.21.200           | 8.55         | 7.67         | 56.94        |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| vm1-win7-pc.cos20.local  | 8   | 0                                    | 0            | Up     | 0d 0h 36m    | vm1-win7-pc.cos20.local | 0.76         | 0.86         | 51.39        |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| w2012r2.cos20.local      | 9   | 0                                    | 0            | Up     | 0d 0h 36m    | w2012r2.cos20.local     | 0.5          | 1.12         | 61.97        |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Devices                  | Showing All Rows  |                                      |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Weathermaps              |   |                                      |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Collection Methods       |   |                                      |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Data Queries             |   |                                      |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Data Input Methods       |   |                                      |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Templates                |   |                                      |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |
| Graph Templates          |   |                                      |              |        |              |                         |              |              |              |              |              |           |   |   |   |    |   |           |      |      |     |                          |   |   |   |    |           |               |      |      |       |                         |   |   |   |    |           |                         |      |      |       |                     |   |   |   |    |           |                     |     |      |       |  |

[https://docs.cacti.net/manual:100:2\\_basics.1\\_first\\_graph#creating\\_a\\_new\\_device](https://docs.cacti.net/manual:100:2_basics.1_first_graph#creating_a_new_device)

## Creating the Graphs

Now, back to the top of the page, select **Create Graphs for this Host** and find the following:

**my own routing device (router)** ucdnet SNMP Host

Create new graphs for the following host: [\\*Edit this Host](#)  
 [\\*Create New Host](#)

**Graph Templates**

Graph Template Name:

Create: ucdnet - CPU Usage

Create: ucdnet - Load Average

Create: ucdnet - Memory Usage

Create:

**Data Query (SNMP - Interface Statistics)**

| Index | Status | Description | Type           | Speed     | Hardware Address   |
|-------|--------|-------------|----------------|-----------|--|
| 1     | Up     | Ethernet0   | ethernetCsmacd | 100000000 | 00:30:2E:35:30:2E:37:46:2E:30:43:2E:30:30:2E:44:16:00:00:01:00 |
| 2     | Up     | 0           | 0              | 0         |  |
| 3     | Up     | 0           | 0              | 0         |  |
| 4     | Up     | Ethernet1   | ethernetCsmacd | 100000000 |  |

Select a graph type:

Check the box next to an interface you want to get data for. A good choice is a row, where a Hardware Address (aka: MAC Address) or the like is shown. From the dropdown, select a graph template of your liking. But remember, that 64 bit graphs are only supported with SNMP V2 (and some more conditions). Finally, **Create** to get:

+ Created graph: my own routing device - Traffic - Ethernet0/1

### my own routing device (router)

Create new graphs for the following host: [\\*Edit this Host](#)  
 [\\*Create New Host](#)

You want to see your work immediately? So, here is the answer: **You have to be patient.** Assuming you did not forget to configure your cacti host's scheduler to run the poller every 5 minutes, you'll have to wait at least 10 minutes to see anything. Then, please move to *Graph Management*.

You want to see your work immediately? So, here is the answer: **You have to be patient.** Assuming you did not forget to configure your cacti host's scheduler to run the poller every 5 minutes, you'll have to wait at least 10 minutes to see anything. Then, please move to *Graph Management*.

**Graph Management**

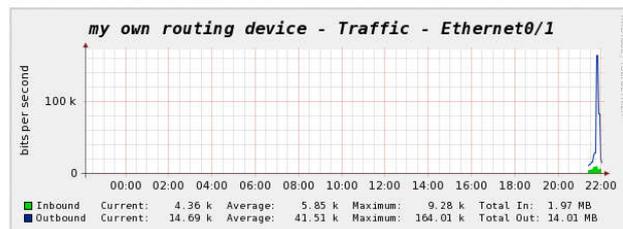
Filter by host:  Search:

<< Previous Showing Rows 1 to 1 of 1 [1]

| Graph Title                                   | Template Name                                   |
|---|---|
| my own routing device - Traffic - Ethernet0/1 | Interface - Traffic (bits/sec, Total Bandwidth) |

<< Previous Showing Rows 1 to 1 of 1 [1]

and select the newly generated graph. Please notice, that I've filtered for the device. This was for demonstration purpose only and to suppress all devices from the list I've already created.



The last steps are not the recommended way to handle this. Later on, I'll show how to use the *Graph* tab and all the magic within.

console graphs syslog weathermap

Console -> Create New Graphs

Create

- New Graphs
- Management
- Graph Management
- Graph Trees
- Data Sources
- Devices
- Weathermaps
- Collection Methods
- Data Queries
- Data Input Methods
- Templates
- Graph Templates
- Host Templates
- Data Templates
- Color Templates
- Import/Export
- Import Templates
- Export Templates
- Syslog Settings
- Alert Rules
- Removal Rules
- Report Rules
- Configuration

**New Graphs for [ w2012r2.cos20.local (w2012r2.cos20.local) Windows 2000/XP Host ]**

Host: w2012r2.cos20.local (w2012r2.cos20.local) Graph Types: All Go Clear

Items: Default Search:

**Graph Templates**

Graph Template Name

Create: Host MIB - Logged in Users

Create: Host MIB - Processes

Create: ucd/net - Memory Usage

Create: (Select a graph type to create)

**Data Query [SNMP - Get Mounted Partitions]** Showing All Items

| Index | Description                                      | Storage Allocation Units |
|-------|--|--------------------------|
| 1     | C: Label: Serial Number fc9913ff                 | 4096 Bytes               |
| 2     | D: Label:GRMCPRXVOL_FR_DVD Serial Number 3021f46 | 2048 Bytes               |
| 3     | Virtual Memory                                   | 65536 Bytes              |
| 4     | Physical Memory                                  | 65536 Bytes              |

**Data Query [SNMP - Interface Statistics]** Showing All Items

| Index | Status     | Description                                  | Name (IF-MIB) | Alias (IF-MIB)                | Type                 | Speed      | High Speed | Hardware Address | IP Address |
|-------|------------|--|---------------|-------------------------------|----------------------|------------|------------|------------------|------------|
| 1     | Up         | Software Loopback Interface 1.               | loopback_0    | Loopback Pseudo-Interface 1   | softwareLoopback(24) | 1073741824 | 1073       |                  | 127.0.0.1  |
| 2     | Down       | Miniport WAN (L2TP).                         | tunnel_0      | Connexion au r.seau local* 1  | tunnel(131)          | 0          | 0          |                  |            |
| 3     | Down       | Miniport WAN (SSTP).                         | tunnel_1      | Connexion au r.seau local* 2  | tunnel(131)          | 0          | 0          |                  |            |
| 4     | Down       | Miniport WAN (IKEv2).                        | tunnel_2      | Connexion au r.seau local* 3  | tunnel(131)          | 0          | 0          |                  |            |
| 5     | Down       | Miniport WAN (PPTP).                         | tunnel_3      | Connexion au r.seau local* 4  | tunnel(131)          | 0          | 0          |                  |            |
| 6     | Down       | Miniport WAN (PPPOE).                        | ppp_0         | Connexion au r.seau local* 5  | ppp(23)              | 0          | 0          |                  |            |
| 7     | Up         | Miniport WAN (IP).                           | ethernet_0    | Connexion au r.seau local* 6  | ethernetCsmacd(6)    | 0          | 0          |                  |            |
| 8     | Up         | Miniport WAN (IPv6).                         | ethernet_1    | Connexion au r.seau local* 7  | ethernetCsmacd(6)    | 0          | 0          |                  |            |
| 9     | Up         | Miniport WAN (Moniteur r.seau).              | ethernet_2    | Connexion au r.seau local* 10 | ethernetCsmacd(6)    | 0          | 0          |                  |            |
| 10    | notPresent | Carte r.seau de d.bogage du noyau Microsoft. | ethernet_3    | Connexion au r.seau local* 9  | ethernetCsmacd(6)    | 0          | 0          |                  |            |
| 11    | notPresent | Carte asynchrone RAR.                        | ppp_1         | Connexion au r.seau local* 11 | ppp(23)              | 0          | 0          |                  |            |

Default Tree

- Host: localhost
- Host: routeursalle.cos20.local
- Host: w2012r2.cos20.local
- Host: vm1-win7-pc.cos20.local

**Graph Filters**

Presets: Custom From: 2018-09-17 18:49 To: 2018-09-18 18:49 1 Day Refresh

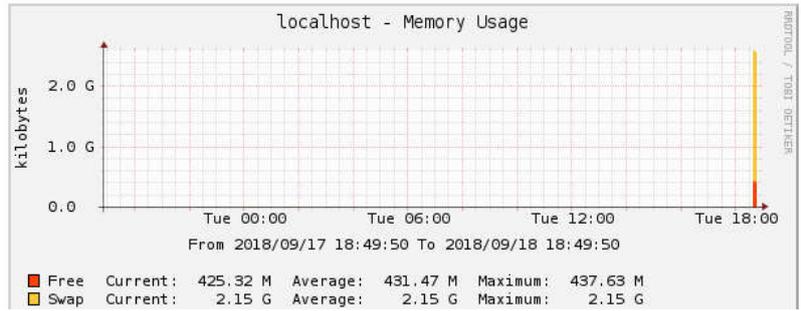
Search: Graphs: Default Columns: N/A Thumbnails: Go Clear

Showing All Graphs

Tree: Default Tree -> Host: localhost

Graph Template: Linux - Memory Usage

localhost - Memory Usage



## Agent Windows

<http://nsclient.org/download/>



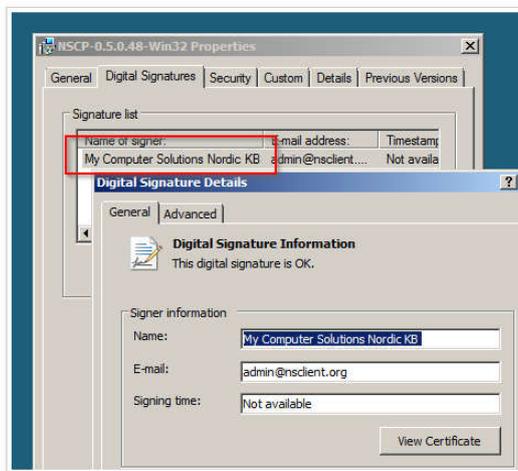
### *Thank you for downloading NSClient++*

Download should start automatically...

However, if I botched the JavaScript and it does not, please [click here!](#)

So, now what?

After the download has finished, start the installation wizard by clicking the downloaded file!



Whoa, hold your horses... What's this "My Solutions NORDIC KB"?

To sign an application you need a company, and this is the company I (the author) runs... I desperately tried to get a certificate with nsclient in the name but alas it was impossible...

Now on to some other tips and tricks...

<https://tutofacile.org/2017/06/10/installation-configuration-nsclient/>

<https://aide-informatique-pc.webnode.fr/news/mise-en-place-service-de-supervision-eon1/>

<http://vps374253.ovh.net/wp-content/uploads/2017/04/Aide-EyesOfNetwork.pdf>

Version 0.5.2.35 : problème

```

[root@supervision plugins]# ./check_nt -H 172.21.21.21 -p 12489 -v CLIENTVERSION -s admin
NSClient++ 0.5.2.35 2018-01-28
[root@supervision plugins]# ./check_nt -H 172.21.21.21 -p 12489 -v CLIENTVERSION -s admin
NSClient++ 0.5.2.35 2018-01-28
[root@supervision plugins]# ./check_nt -H 172.21.21.27 -p 12489 -v CLIENTVERSION -s admin
NSClient++ 0.5.2.35 2018-01-28
[root@supervision plugins]# _

```

Version testée fonctionnelle

```

[root@supervision plugins]# ./check_nt -H 172.21.21.27 -p 12489 -v CLIENTVERSION -s admin
NSClient++ 0,4,1,73 2012-12-17
[root@supervision plugins]# _

```

```

[root@supervision plugins]# ./check_nt -H 172.21.21.27 -p 12489 -v USEDDISKSPACE -d SHOWALL -l c -s
admin
c:\ - total: 59,90 Gb - utilisé: 20,86 Gb (35%) - libre 39,04 Gb (65%) | 'c:\ Espace Utilisé'=20,86G
b;0,00;0,00;0,00;59,90
[root@supervision plugins]#

```

|            |          |          |               |        |  |
|------------|----------|----------|---------------|--------|--|
| Disque C   | OK       | 13:58:22 | 0d 0h 4m 7s   | 1/4    | c:\ - total: 59,90 Gb - utilisé: 20,99 Gb (35%) - libre 38,91 Gb (65%)                     |
| Interfaces | OK       | 13:57:14 | 0d 3h 45m 26s | 1/4    | OK. Connexion r  |
| memory     | OK       | 13:57:49 | 0d 3h 43m 13s | 1/4    | Physical Memory: 29%used(1197MB/4095MB) Virtual Memory: 15%used(1231MB/8189MB) (<80%) : OK |
| partitions | OK       | 13:58:25 | 0d 3h 42m 34s | 1/4    | All selected storages (<90%) : OK  |
| processor  | OK       | 13:55:01 | 0d 3h 45m 56s | 1/4    | 1 CPU, load 2.0% < 80% : OK  |
| systemtime | CRITICAL | 13:55:36 | 0d 3h 42m 18s | 4/4 #7 | CRITICAL - System time is off by 7197 sec (09-20-2018, 11:55:39).                          |
| uptime     | WARNING  | 13:58:12 | 0d 0h 0m 17s  | 3/4    | WARNING: Hardware: Intel64 Family - up 6 minutes   |

#### Commande espace disque :

**CN :** check\_nt-nsclient-espace-disque

**CL :** \$USER1\$/check\_nt -H \$HOSTADDRESS\$ -p 12489 -s pass -v USEDDISKSPACE -w \$ARG1\$ -c \$ARG2\$ -l \$ARG3\$

**CD :** Regarde l'espace disque dur su ARG3 et passe en warning a ARG1 critique ARG2

#### Commande processus :

**CN :** check\_nt-nsclient\_process

**CL :** \$USER1\$/check\_nt -H \$HOSTADDRESS\$ -p 12489 -s pass -l \$ARG1\$ -v PROCSTATE

**CD :** Regarde si un processus est ouvert ouvert=ok fermé=critical

#### Commande ram utilisée :

**CN :** check\_nt-nsclient\_ram

**CL :** \$USER1\$/check\_nt -H \$HOSTADDRESS\$ -p 12489 -s pass -v MEMUSE -w \$ARG1\$ -c \$ARG2\$

**CD :** Regarde le pourcentage d'utilisation de la RAM passe à Warning ARG1 et Critical ARG2

#### Commande cpu utilisé :

**CN :** check\_nt-nsclient\_cpu

**CL :** \$USER1\$/check\_nt -H \$HOSTADDRESS\$ -p 12489 -s pass -v CPULOAD -l 5,75,85

**CD :** Regarde le pourcentage d'utilisation du processeur sur les 5 dernières passes en Warning 75 et Critical 85

## Contrôler l'espace disque utilisé

```
$USER1$/check_nt -H $HOSTADDRESS$ -s [MotDePasse] -p 12489 USEDDISKSPACE -l $ARG1$ -w $ARG2$ -c $ARG3$
```

- **\$ARG1\$** : Lettre associée au disque à contrôler (C par exemple) ;
- **\$ARG2\$** : Pourcentage d'espace utilisé pour le statut WARNING ;
- **\$ARG3\$** : Pourcentage d'espace utilisé pour le statut CRITICAL.

USEDISKSPACE =

Size and percentage of disk use.

Request a -l parameter containing the drive letter only.

Warning and critical thresholds can be specified with -w and -c.

## Contrôler que le service DNS fonctionne

```
$USER1$/check_nt -H $HOSTADDRESS$ -p 12489 -v PROCSTATE -d SHOWALL -l dns.exe -s admin
```

```
dns.exe: Running
[root@supervision plugins]# ./check_nt -H 172.21.21.21 -p 12489 -v PROCSTATE -d SHOWALL -l dns.exe -s admin
dns.exe: Running
[root@supervision plugins]# _
```

## Surveiller une interface du routeur

### Trouver l'OID

```
[root@supervision plugins]# ./check_snmp_int.pl -H 172.21.21.200 -C Public -n - zzzz -v
Alarm in 5 seconds
SNMP v1 login
Filter : -
OID : 1.3.6.1.2.1.2.2.1.2.2, Desc : Ethernet1/0
OID : 1.3.6.1.2.1.2.2.1.2.3, Desc : Ethernet2/0
OID : 1.3.6.1.2.1.2.2.1.2.4, Desc : Ethernet2/1
OID : 1.3.6.1.2.1.2.2.1.2.5, Desc : Ethernet2/2
OID : 1.3.6.1.2.1.2.2.1.2.6, Desc : Ethernet2/3
OID : 1.3.6.1.2.1.2.2.1.2.1, Desc : FastEthernet0/0
OID : 1.3.6.1.2.1.2.2.1.2.12, Desc : Null0
OID : 1.3.6.1.2.1.2.2.1.2.7, Desc : Serial3/0
OID : 1.3.6.1.2.1.2.2.1.2.8, Desc : Serial3/1
OID : 1.3.6.1.2.1.2.2.1.2.9, Desc : Serial3/2
OID : 1.3.6.1.2.1.2.2.1.2.10, Desc : Serial3/3
ERROR : Unknown interface -
[root@supervision plugins]#
```

### Surveiller Ethernet 2/0

```
[root@supervision plugins]# ./check_snmp_int.pl -H 172.21.21.200 -C Public -n "Ethernet2/0" -r
Ethernet2/0:UP:1 UP: OK
[root@supervision plugins]# _
```

## Références

### SNMP SWITCH/ROUTEUR

<https://www.astarox.com/blog/configuration-d-acces-snmp-sur-un-switch-ou-un-routeur-cisco-b13.html>

<http://www.technologuepro.com/reseaux/Configuration-Agent-SNMP/Configuration-SNMP-Routeur-CISCO.html>

<http://www.networklife.net/2009/05/snmp-simple-network-management-protocol-sur-un-routeur-cisco/>

### EYES OF NETWORK DOCUMENTATIONS

[https://www.eyesofnetwork.com/?page\\_id=495&lang=fr](https://www.eyesofnetwork.com/?page_id=495&lang=fr)

<https://www.eyesofnetwork.com/wp-content/uploads/2018/03/FR-Eon-v5-Utilisation.pdf>

### EYES OF NETWORK/CACTI

<https://pellenalexandre.wordpress.com/2018/01/22/eyes-of-network-eon-2-3/>

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