

OCS

Pratique

Open Computer and Software Inventory Next Generation est une application permettant de réaliser un inventaire sur la configuration des machines et du réseau et sur les logiciels qui y sont installés. L'application possède une interface web permettant de visualiser l'inventaire réalisé. Elle permet d'uploader des paquets (installation de logiciels, commandes et fichiers à stocker sur les machines clients) utilisant le protocole http/https.

Fonctionnement

OCS Inventory est basé sur un concept Client/Serveur. Le serveur est composé de 3 parties :

- Serveur de communication :

Collecte ; classe et archive les informations relatives aux postes clients.

Ce dernier fonctionne sous Apache (serveur Web), MYSQL MariaDB (SGBD : Système Gestion de Base de Donnée) et PHP. Il peut s'installer sous n'importe quel OS (Microsoft, Linux). Il utilise quelques modules PERL et des CGI (Common Gateway Interface, bibliothèques).

L'agent : Programme qui s'installe sur le client pour remonter les informations de la machine au serveur. Les agents sont disponibles pour Windows, Linux et MacOS.

- Le serveur d'administration

L'interface web écrite en PHP qui offre des services cad consulter des inventaires, manipuler les droits des utilisateurs etc.

- Le serveur de déploiement

Il permet le déploiement des logiciels, des MAJ sur les postes de manière centralisé. Basé sur Apache SSL (Secure Sockets Layer : sécurisation des échanges sur internet).

Topologie

Vous disposez d'au minimum deux postes. Trois ou quatre poste sera préférable.

Un poste pour le serveur qui va accueillir le service de gestion d'inventaire.

- Une VM Debian

Hostname : OCS-GLPI

2 interfaces réseaux :

ens33 : en segment LAN d'adresse statique 172.20.0.15/24

ens37 : en NAT ou Bridged et en DHCP

- Une VM Windows client

pour l'inventaire avec une carte réseau : 172.20.0.100 /24

LAMP

Dans la VM debian : **Installer la trilogie apache2, mariadb-server et php**

apt install apache2 mariadb-server php -y

```
debian@apache2:~$ sudo apt install apache2 mariadb-server php y
[sudo] password for debian:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package y
debian@apache2:~$
```

Installer les librairies perl et les modules php et mysql :apt db

apt install -y libapache2-mod-perl2

apt install -y libxml-simple-perl

apt install -y libnet-ip-perl

apt install -y libsoap-lite-perl

apt install -y libapache2-mod-perl2-dev

apt install -y make

apt install -y php-mysql

apt install -y php-gd

apt install -y php-mbstring

apt install -y php-soap

apt install -y php-xml

apt install -y php-curl

```
debian@apache2:~$ sudo apt install -y libapache2-mod-perl2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  libapache2-reload-perl libbsd-resource-perl libdevel-symdump-perl
The following NEW packages will be installed:
  libapache2-mod-perl2 libapache2-reload-perl libbsd-resource-perl libdevel-symdump-perl
0 upgraded, 4 newly installed, 0 to remove and 108 not upgraded.
Need to get 943 kB of archives.
After this operation, 3,616 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 libdevel-symdump-perl all 2.18-5 [15.8 kB]
Get:2 http://deb.debian.org/debian bookworm/main amd64 libapache2-mod-perl2 amd64 2.0.12-1+b2 [879 kB]
Get:3 http://deb.debian.org/debian bookworm/main amd64 libapache2-reload-perl all 0.13-4 [15.9 kB]
Get:4 http://deb.debian.org/debian bookworm/main amd64 libbsd-resource-perl amd64 1.2911-2+b1 [31.8 kB]
Fetched 943 kB in 2s (484 kB/s)
Selecting previously unselected package libdevel-symdump-perl.
(Reading database ... 156855 files and directories currently installed.)
Preparing to unpack .../libdevel-symdump-perl_2.18-5_all.deb ...
Unpacking libdevel-symdump-perl (2.18-5) ...
Selecting previously unselected package libapache2-mod-perl2.
Preparing to unpack .../libapache2-mod-perl2_2.0.12-1+b2_amd64.deb ...
Unpacking libapache2-mod-perl2 (2.0.12-1+b2) ...
Selecting previously unselected package libapache2-reload-perl.
Preparing to unpack .../libapache2-reload-perl_0.13-4_all.deb ...
Unpacking libapache2-reload-perl (0.13-4) ...
Selecting previously unselected package libbsd-resource-perl.
Preparing to unpack .../libbsd-resource-perl_1.2911-2+b1_amd64.deb ...
Unpacking libbsd-resource-perl (1.2911-2+b1) ...
Setting up libbsd-resource-perl (1.2911-2+b1) ...
Setting up libdevel-symdump-perl (2.18-5) ...
Setting up libapache2-mod-perl2 (2.0.12-1+b2) ...
apache2_invoke: Enable module perl
Setting up libapache2-reload-perl (0.13-4) ...
Processing triggers for man-db (2.11.2-2) ...
debian@apache2:~$
```

```

debian@apache2:~$ sudo apt install -y libxml-simple-perl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  libxml-libxml-perl libxml-namespacesupport-perl libxml-sax-base-perl libxml-sax-expat-perl libxml-sax-perl
Suggested packages:
  libxml-sax-expatxs-perl
The following NEW packages will be installed:
  libxml-libxml-perl libxml-namespacesupport-perl libxml-sax-base-perl libxml-sax-expat-perl libxml-sax-perl libxml-simple-perl
0 upgraded, 6 newly installed, 0 to remove and 108 not upgraded.
Need to get 499 kB of archives.
After this operation, 1,619 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 libxml-namespacesupport-perl all 1.12-2 [15.1 kB]
Get:2 http://deb.debian.org/debian bookworm/main amd64 libxml-sax-base-perl all 1.09-3 [20.6 kB]
Get:3 http://deb.debian.org/debian bookworm/main amd64 libxml-sax-perl all 1.02+dfsg-3 [59.4 kB]
Get:4 http://deb.debian.org/debian bookworm/main amd64 libxml-libxml-perl amd64 2.0207+dfsg+really+2.0134-1+b1 [322 kB]
Get:5 http://deb.debian.org/debian bookworm/main amd64 libxml-sax-expat-perl all 0.51-2 [11.1 kB]
Get:6 http://deb.debian.org/debian bookworm/main amd64 libxml-simple-perl all 2.25-2 [69.8 kB]
Fetched 499 kB in 0s (1,256 kB/s)
Selecting previously unselected package libxml-namespacesupport-perl.
(Reading database ... 157268 files and directories currently installed.)
Preparing to unpack .../0-libxml-namespacesupport-perl_1.12-2_all.deb ...
Unpacking libxml-namespacesupport-perl (1.12-2) ...
Selecting previously unselected package libxml-sax-base-perl.
Preparing to unpack .../1-libxml-sax-base-perl_1.09-3_all.deb ...
Unpacking libxml-sax-base-perl (1.09-3) ...
Selecting previously unselected package libxml-sax-perl.
Preparing to unpack .../2-libxml-sax-perl_1.02+dfsg-3_all.deb ...
Unpacking libxml-sax-perl (1.02+dfsg-3) ...
Selecting previously unselected package libxml-libxml-perl.
Preparing to unpack .../3-libxml-libxml-perl_2.0207+dfsg+really+2.0134-1+b1_amd64.deb ...
Unpacking libxml-libxml-perl (2.0207+dfsg+really+2.0134-1+b1) ...
Selecting previously unselected package libxml-sax-expat-perl.
Preparing to unpack .../4-libxml-sax-expat-perl_0.51-2_all.deb ...
Unpacking libxml-sax-expat-perl (0.51-2) ...
Selecting previously unselected package libxml-simple-perl.
Preparing to unpack .../5-libxml-simple-perl_2.25-2_all.deb ...
Unpacking libxml-simple-perl (2.25-2) ...
Setting up libxml-namespacesupport-perl (1.12-2) ...
Setting up libxml-sax-base-perl (1.09-3) ...
Setting up libxml-sax-perl (1.02+dfsg-3) ...
update-perl-sax-parsers: Registering Perl SAX parser XML::SAX::PurePerl with priority 10...
update-perl-sax-parsers: Updating overall Perl SAX parser modules info file...

Creating config file /etc/perl/XML/SAX/ParserDetails.ini with new version
Setting up libxml-libxml-perl (2.0207+dfsg+really+2.0134-1+b1) ...
update-perl-sax-parsers: Registering Perl SAX parser XML::LibXML::SAX::Parser with priority 50...
update-perl-sax-parsers: Registering Perl SAX parser XML::LibXML::SAX with priority 50...
update-perl-sax-parsers: Updating overall Perl SAX parser modules info file...
Replacing config file /etc/perl/XML/SAX/ParserDetails.ini with new version
Setting up libxml-sax-expat-perl (0.51-2) ...
update-perl-sax-parsers: Registering Perl SAX parser XML::SAX::Expat with priority 50...

```

```

debian@apache2:~$ sudo apt install -y libnet-ip-perl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  libnet-ip-perl
0 upgraded, 1 newly installed, 0 to remove and 108 not upgraded.
Need to get 28.8 kB of archives.
After this operation, 108 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 libnet-ip-perl all 1.26-3 [28.8 kB]
Fetched 28.8 kB in 0s (561 kB/s)
Selecting previously unselected package libnet-ip-perl.
(Reading database ... 157468 files and directories currently installed.)
Preparing to unpack .../libnet-ip-perl_1.26-3_all.deb ...
Unpacking libnet-ip-perl (1.26-3) ...
Setting up libnet-ip-perl (1.26-3) ...
Processing triggers for man-db (2.11.2-2) ...
debian@apache2:~$

```

```

debian@apache2:~$ sudo apt install -y libsoap-lite-perl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  libclass-inspector-perl libconvert-binhex-perl libfcgi-bin libfcgi-perl libfcgi0ldb1 libio-sessiondata-perl libmime-tools-perl libtask-weaken-perl libxmlrpc-lite-perl
Suggested packages:
  libmime-lite-perl libnet-jabber-perl
The following NEW packages will be installed:
  libclass-inspector-perl libconvert-binhex-perl libfcgi-bin libfcgi-perl libfcgi0ldb1 libio-sessiondata-perl libmime-tools-perl libsoap-lite-perl libtask-weaken-perl libxmlrpc-lite-perl
0 upgraded, 10 newly installed, 0 to remove and 108 not upgraded.
Need to get 597 kB of archives.
After this operation, 1,733 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 libclass-inspector-perl all 1.36-3 [17.5 kB]
Get:2 http://deb.debian.org/debian bookworm/main amd64 libconvert-binhex-perl all 1.125-3 [27.4 kB]
Get:3 http://deb.debian.org/debian bookworm/main amd64 libfcgi0ldb1 amd64 2.4.2-2+deb12u1 [24.6 kB]
Get:4 http://deb.debian.org/debian bookworm/main amd64 libfcgi-bin amd64 2.4.2-2+deb12u1 [11.5 kB]
Get:5 http://deb.debian.org/debian bookworm/main amd64 libfcgi-perl amd64 0.82+ds-2 [25.2 kB]
Get:6 http://deb.debian.org/debian bookworm/main amd64 libio-sessiondata-perl all 1.03-3 [6,316 B]
Get:7 http://deb.debian.org/debian bookworm/main amd64 libmime-tools-perl all 5.510-1 [213 kB]
Get:8 http://deb.debian.org/debian bookworm/main amd64 libtask-weaken-perl all 1.06-2 [9,364 B]
Get:9 http://deb.debian.org/debian bookworm/main amd64 libsoap-lite-perl all 1.27-3 [239 kB]
Get:10 http://deb.debian.org/debian bookworm/main amd64 libxmlrpc-lite-perl all 0.717-5 [22.4 kB]
Fetched 597 kB in 6s (2,592 kB/s)
Selecting previously unselected package libclass-inspector-perl.
(Reading database ... 157478 files and directories currently installed.)
Preparing to unpack .../6-libclass-inspector-perl_1.36-3_all.deb ...
Unpacking libclass-inspector-perl (1.36-3) ...
Selecting previously unselected package libconvert-binhex-perl.
Preparing to unpack .../7-libconvert-binhex-perl_1.125-3_all.deb ...
Unpacking libconvert-binhex-perl (1.125-3) ...
Selecting previously unselected package libfcgi0ldb1:amd64.
Preparing to unpack .../2-libfcgi0ldb1_2.4.2-2+deb12u1_amd64.deb ...
Unpacking libfcgi0ldb1:amd64 (2.4.2-2+deb12u1) ...
Selecting previously unselected package libfcgi-bin.
Preparing to unpack .../3-libfcgi-bin_2.4.2-2+deb12u1_amd64.deb ...
Unpacking libfcgi-bin (2.4.2-2+deb12u1) ...
Selecting previously unselected package libfcgi-perl.
Preparing to unpack .../4-libfcgi-perl_0.82+ds-2_amd64.deb ...
Unpacking libfcgi-perl (0.82+ds-2) ...
Selecting previously unselected package libio-sessiondata-perl.
Preparing to unpack .../5-libio-sessiondata-perl_1.03-3_all.deb ...
Unpacking libio-sessiondata-perl (1.03-3) ...
Selecting previously unselected package libmime-tools-perl.
Preparing to unpack .../6-libmime-tools-perl_5.510-1_all.deb ...
Unpacking libmime-tools-perl (5.510-1) ...
Selecting previously unselected package libtask-weaken-perl.
Preparing to unpack .../7-libtask-weaken-perl_1.06-2_all.deb ...
Unpacking libtask-weaken-perl (1.06-2) ...
Selecting previously unselected package libsoap-lite-perl.
Preparing to unpack .../8-libsoap-lite-perl_1.27-3_all.deb ...
Unpacking libsoap-lite-perl (1.27-3) ...
Selecting previously unselected package libxmlrpc-lite-perl.

```

```

debian@apache2:~$ sudo apt install -y libapache2-mod-perl2-dev
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following NEW packages will be installed:
  libapache2-mod-perl2-dev
0 upgraded, 1 newly installed, 0 to remove and 108 not upgraded.
Need to get 88.5 kB of archives.
After this operation, 391 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 libapache2-mod-perl2-dev all 2.0.12-1 [88.5 kB]
Fetched 88.5 kB in 0s (1,373 kB/s)
Selecting previously unselected package libapache2-mod-perl2-dev.
(Reading database ... 157799 files and directories currently installed.)
Preparing to unpack .../libapache2-mod-perl2-dev_2.0.12-1_all.deb ...
Unpacking libapache2-mod-perl2-dev (2.0.12-1) ...
Setting up libapache2-mod-perl2-dev (2.0.12-1) ...
debian@apache2:~$ █

```

```

debian@apache2:~$ sudo apt install -y make
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
Suggested packages:
  make-doc
The following NEW packages will be installed:
  make
0 upgraded, 1 newly installed, 0 to remove and 108 not upgraded.
Need to get 396 kB of archives.
After this operation, 1,630 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 make amd64 4.3-4.1 [396 kB]
Fetched 396 kB in 0s (3,260 kB/s)
Selecting previously unselected package make.
(Reading database ... 157863 files and directories currently installed.)
Preparing to unpack .../make_4.3-4.1_amd64.deb ...
Unpacking make (4.3-4.1) ...
Setting up make (4.3-4.1) ...
Processing triggers for man-db (2.11.2-2) ...
debian@apache2:~$ █

```

```

debian@apache2:~$ sudo apt install -y php-mysql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-5.10-13-amd64
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  php-common php8.2-common php8.2-mysql
The following NEW packages will be installed:
  php-common php-mysql php8.2-common php8.2-mysql
0 upgraded, 4 newly installed, 0 to remove and 108 not upgraded.
Need to get 823 kB of archives.
After this operation, 9.192 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 php-common all 2:93 [13.1 kB]
Get:2 http://deb.debian.org/debian bookworm/main amd64 php8.2-common amd64 8.2.29-1~deb12u1 [689 kB]
Get:3 http://deb.debian.org/debian bookworm/main amd64 php8.2-mysql amd64 8.2.29-1~deb12u1 [118 kB]
Get:4 http://deb.debian.org/debian bookworm/main amd64 php-mysql all 2:8.2+93 [3,660 B]
Fetched 823 kB in 0s (3,278 kB/s)
Selecting previously unselected package php-common.
(Reading database ... 157911 files and directories currently installed.)
Preparing to unpack .../php-common_2%3a93_all.deb ...
Unpacking php-common (2:93) ...
Selecting previously unselected package php8.2-common.
Preparing to unpack .../php8.2-common_8.2.29-1~deb12u1_amd64.deb ...
Unpacking php8.2-common (8.2.29-1~deb12u1) ...
Selecting previously unselected package php8.2-mysql.
Preparing to unpack .../php8.2-mysql_8.2.29-1~deb12u1_amd64.deb ...
Unpacking php8.2-mysql (8.2.29-1~deb12u1) ...
Selecting previously unselected package php-mysql.
Preparing to unpack .../php-mysql_2%3a8.2+93_all.deb ...
Unpacking php-mysql (2:8.2+93) ...
Setting up php-common (2:93) ...
Created symlink /etc/systemd/system/timers.target.wants/phpsessionclean.timer → /lib/systemd/system/phpsessionclean.timer.
Setting up php8.2-common (8.2.29-1~deb12u1) ...
Creating config file /etc/php/8.2/mods-available/calendar.ini with new version
Creating config file /etc/php/8.2/mods-available/ctype.ini with new version
Creating config file /etc/php/8.2/mods-available/exif.ini with new version
Creating config file /etc/php/8.2/mods-available/fileinfo.ini with new version
Creating config file /etc/php/8.2/mods-available/ffi.ini with new version
Creating config file /etc/php/8.2/mods-available/ftp.ini with new version
Creating config file /etc/php/8.2/mods-available/gettext.ini with new version
Creating config file /etc/php/8.2/mods-available/iconv.ini with new version
Creating config file /etc/php/8.2/mods-available/pdo.ini with new version

```

```

debian@apache2:~$ sudo apt install -y php-gd
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  php8.2-gd
The following NEW packages will be installed:
  php-gd php8.2-gd
0 upgraded, 2 newly installed, 0 to remove and 108 not upgraded.
Need to get 32.5 kB of archives.
After this operation, 150 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 php8.2-gd amd64 8.2.29-1~deb12u1 [28.9 kB]
Get:2 http://deb.debian.org/debian bookworm/main amd64 php-gd all 2:8.2+93 [3,648 B]
Fetched 32.5 kB in 0s (209 kB/s)
Selecting previously unselected package php8.2-gd.
(Reading database ... 158003 files and directories currently installed.)
Preparing to unpack .../php8.2-gd_8.2.29-1~deb12u1_amd64.deb ...
Unpacking php8.2-gd (8.2.29-1~deb12u1) ...
Selecting previously unselected package php-gd.
Preparing to unpack .../php-gd_2%3a8.2+93_all.deb ...
Unpacking php-gd (2:8.2+93) ...
Setting up php8.2-gd (8.2.29-1~deb12u1) ...
Creating config file /etc/php/8.2/mods-available/gd.ini with new version
Setting up php-gd (2:8.2+93) ...
debian@apache2:~$

```

```

debian@apache2:~$ sudo apt install -y php-mbstring
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  php8.2-mbstring
The following NEW packages will be installed:
  php-mbstring php8.2-mbstring
0 upgraded, 2 newly installed, 0 to remove and 108 not upgraded.
Need to get 447 kB of archives.
After this operation, 1,233 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 php8.2-mbstring amd64 8.2.29-1~deb12u1 [443 kB]
Get:2 http://deb.debian.org/debian bookworm/main amd64 php-mbstring all 2:8.2+93 [3,664 B]
Fetched 447 kB in 0s (2,196 kB/s)
Selecting previously unselected package php8.2-mbstring.
(Reading database ... 158015 files and directories currently installed.)
Preparing to unpack .../php8.2-mbstring_8.2.29-1~deb12u1_amd64.deb ...
Unpacking php8.2-mbstring (8.2.29-1~deb12u1) ...
Selecting previously unselected package php-mbstring.
Preparing to unpack .../php-mbstring_2%3a8.2+93_all.deb ...
Unpacking php-mbstring (2:8.2+93) ...
Setting up php8.2-mbstring (8.2.29-1~deb12u1) ...
Creating config file /etc/php/8.2/mods-available/mbstring.ini with new version
Setting up php-mbstring (2:8.2+93) ...
debian@apache2:~$

```

```

debian@apache2:~$ sudo apt install -y php-soap
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  php8.2-soap
The following NEW packages will be installed:
  php-soap php8.2-soap
0 upgraded, 2 newly installed, 0 to remove and 108 not upgraded.
Need to get 128 kB of archives.
After this operation, 375 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 php8.2-soap amd64 8.2.29-1~deb12u1 [125 kB]
Get:2 http://deb.debian.org/debian bookworm/main amd64 php-soap all 2:8.2+93 [3,656 B]
Fetched 128 kB in 0s (1,394 kB/s)
Selecting previously unselected package php8.2-soap.
(Reading database ... 158027 files and directories currently installed.)
Preparing to unpack .../php8.2-soap_8.2.29-1~deb12u1_amd64.deb ...
Unpacking php8.2-soap (8.2.29-1~deb12u1) ...
Selecting previously unselected package php-soap.
Preparing to unpack .../php-soap_2%3a8.2+93_all.deb ...
Unpacking php-soap (2:8.2+93) ...
Setting up php8.2-soap (8.2.29-1~deb12u1) ...

Creating config file /etc/php/8.2/mods-available/soap.ini with new version
Setting up php-soap (2:8.2+93) ...
debian@apache2:~$

```

```

debian@apache2:~$ sudo apt install -y php-xml
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  php8.2-xml
The following NEW packages will be installed:
  php-xml php8.2-xml
0 upgraded, 2 newly installed, 0 to remove and 108 not upgraded.
Need to get 117 kB of archives.
After this operation, 490 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 php8.2-xml amd64 8.2.29-1~deb12u1 [113 kB]
Get:2 http://deb.debian.org/debian bookworm/main amd64 php-xml all 2:8.2+93 [3,672 B]
Fetched 117 kB in 0s (1,378 kB/s)
Selecting previously unselected package php8.2-xml.
(Reading database ... 158039 files and directories currently installed.)
Preparing to unpack .../php8.2-xml_8.2.29-1~deb12u1_amd64.deb ...
Unpacking php8.2-xml (8.2.29-1~deb12u1) ...
Selecting previously unselected package php-xml.
Preparing to unpack .../php-xml_2%3a8.2+93_all.deb ...
Unpacking php-xml (2:8.2+93) ...
Setting up php8.2-xml (8.2.29-1~deb12u1) ...

Creating config file /etc/php/8.2/mods-available/dom.ini with new version

Creating config file /etc/php/8.2/mods-available/simplexml.ini with new version

Creating config file /etc/php/8.2/mods-available/xml.ini with new version

Creating config file /etc/php/8.2/mods-available/xmlreader.ini with new version

Creating config file /etc/php/8.2/mods-available/xmlwriter.ini with new version

Creating config file /etc/php/8.2/mods-available/xsl.ini with new version
Setting up php-xml (2:8.2+93) ...
debian@apache2:~$

```



```

debian@apache2:~$ sudo apt install -y php-curl
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  php8.2-curl
The following NEW packages will be installed:
  php-curl php8.2-curl
0 upgraded, 2 newly installed, 0 to remove and 108 not upgraded.
Need to get 39.6 kB of archives.
After this operation, 162 kB of additional disk space will be used.
Get:1 http://deb.debian.org/debian bookworm/main amd64 php8.2-curl amd64 8.2.29-1~deb12u1 [35.9 kB]
Get:2 http://deb.debian.org/debian bookworm/main amd64 php-curl all 2:8.2+93 [3,656 B]
Fetched 39.6 kB in 0s (703 kB/s)
Selecting previously unselected package php8.2-curl.
(Reading database ... 158061 files and directories currently installed.)
Preparing to unpack .../php8.2-curl_8.2.29-1~deb12u1_amd64.deb ...
Unpacking php8.2-curl (8.2.29-1~deb12u1) ...
Selecting previously unselected package php-curl.
Preparing to unpack .../php-curl_2%3a8.2+93_all.deb ...
Unpacking php-curl (2:8.2+93) ...
Setting up php8.2-curl (8.2.29-1~deb12u1) ...

Creating config file /etc/php/8.2/mods-available/curl.ini with new version
Setting up php-curl (2:8.2+93) ...
debian@apache2:~$ █

```

Rechercher et installer les modules complémentaires PERL (Attention à respecter la casse):

perl -MCPAN -e "install XML::Entities"

cpan Apache2::SOAP

cpan SOAP::Lite (Pour la question : Please tell me where i can find your apache src, tapez CTRL+C)

cpan Mojolicious::Lite

cpan Switc

```

debian@apache2:~$ perl -MCPAN -e "install XML::Entities"

CPAN.pm requires configuration, but most of it can be done automatically.
If you answer 'no' below, you will enter an interactive dialog for each
configuration option instead.

Would you like to configure as much as possible automatically? [yes] SS█

```

```

debian@apache2:~$ perl -MCPAN -e "install XML::Entities"

CPAN.pm requires configuration, but most of it can be done automatically.
If you answer 'no' below, you will enter an interactive dialog for each
configuration option instead.

Would you like to configure as much as possible automatically? [yes] yes

<install_help>

Warning: You do not have write permission for Perl library directories.

To install modules, you need to configure a local Perl library directory or
escalate your privileges. CPAN can help you by bootstrapping the local::lib
module or by configuring itself to use 'sudo' (if available). You may also
resolve this problem manually if you need to customize your setup.

What approach do you want? (Choose 'local::lib', 'sudo' or 'manual')
[local::lib] sudo

We initialized your 'urllist' to https://cpan.org/. Type 'o conf init urllist' to change it.

Autoconfiguration complete.

commit: wrote '/home/debian/.cpan/CPAN/MyConfig.pm'

You can re-run configuration any time with 'o conf init' in the CPAN shell
Fetching with HTTP::Tiny:
https://cpan.org/authors/01mailrc.txt.gz
Reading '/home/debian/.cpan/sources/authors/01mailrc.txt.gz'
.....DONE
Fetching with HTTP::Tiny:
https://cpan.org/modules/02packages.details.txt.gz
Reading '/home/debian/.cpan/sources/modules/02packages.details.txt.gz'
Database was generated on Mon, 26 Jan 2026 07:17:01 GMT
.....
New CPAN.pm version (v2.38) available.
[Currently running version is v2.33]
You might want to try
  install CPAN
  reload cpan
to both upgrade CPAN.pm and run the new version without leaving
the current session.

.....DONE
Fetching with HTTP::Tiny:
https://cpan.org/modules/03modlist.data.gz
Reading '/home/debian/.cpan/sources/modules/03modlist.data.gz'
DONE
Writing /home/debian/.cpan/Metadata
Running install for module 'XML::Entities'
Fetching with HTTP::Tiny:
https://cpan.org/authors/id/S/SI/SIXTEASE/XML-Entities-1.0002.tar.gz

```

```

Fetching with HTTP::Tiny:
https://cpan.org/authors/id/S/SI/SIXTEASE/XML-Entities-1.0002.tar.gz
Fetching with HTTP::Tiny:
https://cpan.org/authors/id/S/SI/SIXTEASE/CHECKSUMS
Checksum for /home/debian/.cpan/sources/authors/id/S/SI/SIXTEASE/XML-Entities-1.0002.tar.gz ok
'YAM' not installed, will not store persistent state
Configuring S/SI/SIXTEASE/XML-Entities-1.0002.tar.gz with Makefile.PL
Checking if your kit is complete...
Looks good
Generating a Unix-style Makefile
Writing Makefile for XML::Entities
Writing META.yml and META.json
SIXTEASE/XML-Entities-1.0002.tar.gz
/usr/bin/perl Makefile.PL INSTALLDIRS=site -- OK
Running make for S/SI/SIXTEASE/XML-Entities-1.0002.tar.gz
cp lib/XML/Entities/Data.pm blib/lib/XML/Entities/Data.pm
cp lib/XML/Entities/Data.pod blib/lib/XML/Entities/Data.pod
cp lib/XML/Entities.pm blib/lib/XML/Entities.pm
cp bin/download-entities.pl blib/script/download-entities.pl
/usr/bin/perl -MExtUtils:MY -e 'MY->fix(shift)' -- blib/script/download-entities.pl
Manifesting 1 pod document
Manifesting 3 pod documents
SIXTEASE/XML-Entities-1.0002.tar.gz
/usr/bin/make
SIXTEASE/XML-Entities-1.0002.tar.gz
The current configuration of allow_installing_outdated_dist is 'ask/no', but for this option we would need 'CPAN::DistnameInfo' installed. Please install 'CPAN::DistnameInfo' as soon as possible.
As long as we are not equipped with 'CPAN::DistnameInfo' this option does not take effect
Running make test for SIXTEASE/XML-Entities-1.0002.tar.gz
PERL_DL_NONLAZY=1 /usr/bin/perl -MExtUtils:Command=MM* -MTest::Harness -e "undef *Test::Harness::Switches; test_harness(0, 'blib/lib', 'blib/arch');" t/*.t
t/00-xml-entities-data.t ..... ok
t/01-xml-entities.t ..... ok
t/02-unicode.t ..... ok
All tests successful.
Files=3, Tests=21, 3 wallclock secs ( 0.03 usr 0.01 sys + 2.68 cusr 0.08 csys = 2.80 CPU)
Result: PASS
SIXTEASE/XML-Entities-1.0002.tar.gz
/usr/bin/make test -- OK
Running make install for SIXTEASE/XML-Entities-1.0002.tar.gz
Manifesting 1 pod document
Manifesting 3 pod documents
Installing /usr/local/share/perl/5.36.0/XML/Entities.pm
Installing /usr/local/share/perl/5.36.0/XML/Entities/Data.pod
Installing /usr/local/man/man1/download-entities.pl.1p
Installing /usr/local/man/man3/XML::Entities.3pm
Installing /usr/local/man/man3/XML::Entities::Data.3pm
Installing /usr/local/man/man3/download-entities.pl.3pm
Installing /usr/local/bin/download-entities.pl
Appending installation info to /usr/local/lib/x86_64-linux-gnu/perl/5.36.0/perllocal.pod
SIXTEASE/XML-Entities-1.0002.tar.gz
sudo /usr/bin/make install -- OK
debian@apache2:~$

```



```

Reading '/home/debian/.cpan/Metadata'
Database was generated on Mon, 26 Jan 2026 07:17:01 GMT
Running install for module 'Apache2::SOAP'
Fetching with HTTP::Tiny:
https://cpan.org/authors/id/R/RK/RKOBES/Apache2-SOAP-0.73.tar.gz
Fetching with HTTP::Tiny:
https://cpan.org/authors/id/R/RK/RKOBES/CHECKSUMS
Checksum for /home/debian/.cpan/sources/authors/id/R/RK/RKOBES/Apache2-SOAP-0.73.tar.gz ok
'YAML' not installed, will not store persistent state
Configuring R/RK/RKOBES/Apache2-SOAP-0.73.tar.gz with Makefile.PL
[ info] generating script t/TEST
Checking if your kit is complete...
Looks good
Generating a Unix-style Makefile
Writing Makefile for Apache2::SOAP
Writing MYMETA.yml and MYMETA.json
RKOBES/Apache2-SOAP-0.73.tar.gz
/usr/bin/perl Makefile.PL INSTALLDIRS=site -- OK
Running make for R/RK/RKOBES/Apache2-SOAP-0.73.tar.gz
cp lib/SOAP/Transport/HTTP2.pm blib/lib/SOAP/Transport/HTTP2.pm
cp lib/Apache2/SOAP.pm blib/lib/Apache2/SOAP.pm
Manifying 1 pod document
RKOBES/Apache2-SOAP-0.73.tar.gz
/usr/bin/make -- OK
The current configuration of allow_installing_outdated_dists is 'ask/no', but for this option we would need 'CPAN::DistnameInfo' installed. Please install 'CPAN::DistnameInfo' as soon as possibl
e. As long as we are not equipped with 'CPAN::DistnameInfo' this option does not take effect
Running make test for RKOBES/Apache2-SOAP-0.73.tar.gz
V/usr/bin/perl -Iblib/arch -Iblib/lib \
t/TEST -clean
[warning] setting ulimit to allow core files
ulimit -c unlimited; /usr/bin/perl /home/debian/.cpan/build/Apache2-SOAP-0.73-0/t/TEST -clean
APACHE_TEST_APXS= APACHE_TEST_GROUP= APACHE_TEST_HTTPD= APACHE_TEST_PORT= APACHE_TEST_USER= \
V/usr/bin/perl -Iblib/arch -Iblib/lib \
t/TEST -bugreport -verbose=0
[warning] setting ulimit to allow core files
ulimit -c unlimited; /usr/bin/perl /home/debian/.cpan/build/Apache2-SOAP-0.73-0/t/TEST -bugreport -verbose=0
[ error] You must explicitly specify -httpd and/or -apxs options, or set $ENV{APACHE_TEST_HTTPD} and $ENV{APACHE_TEST_APXS}, or set your $PATH to include the httpd and apxs binaries.
RKOBES/Apache2-SOAP-0.73.tar.gz
/usr/bin/make test -- OK
Running make install for RKOBES/Apache2-SOAP-0.73.tar.gz
Manifying 1 pod document
Installing /usr/local/share/perl/5.36.0/Apache2/SOAP.pm
Installing /usr/local/man/man3/Apache2::SOAP.3pm
Appending installation info to /usr/local/lib/x86_64-linux-gnu/perl/5.36.0/perllocal.pod
RKOBES/Apache2-SOAP-0.73.tar.gz
sudo /usr/bin/make install -- OK
debian@apache2:~$

```

```

debian@apache2:~$ cpan SOAP::Lite
Loading internal logger. Log::Log4perl recommended for better logging
Reading '/home/debian/.cpan/Metadata'
Database was generated on Mon, 26 Jan 2026 07:17:01 GMT
SOAP::Lite is up to date (1.27).
debian@apache2:~$

```

```

debian@apache2:~$ cpan Mojolicious::Lite
Loading internal logger. Log::Log4perl recommended for better logging
Reading '/home/debian/.cpan/Metadata'
Database was generated on Mon, 26 Jan 2026 07:17:01 GMT
Running install for module 'Mojolicious::Lite'
Fetching with HTTP::Tiny:
https://cpan.org/authors/id/S/SR/SRI/Mojolicious-9.42.tar.gz
Fetching with HTTP::Tiny:
https://cpan.org/authors/id/S/SR/SRI/CHECKSUMS
Checksum for /home/debian/.cpan/sources/authors/id/S/SR/SRI/Mojolicious-9.42.tar.gz ok
'YAML' not installed, will not store persistent state
Configuring S/SR/SRI/Mojolicious-9.42.tar.gz with Makefile.PL
Checking if your kit is complete...
Looks good
Generating a Unix-style Makefile
Writing Makefile for Mojolicious
Writing MYMETA.yml and MYMETA.json
SRI/Mojolicious-9.42.tar.gz
/usr/bin/perl Makefile.PL INSTALLDIRS=site -- OK
Running make for S/SR/SRI/Mojolicious-9.42.tar.gz
cp lib/Mojo/Cookie/Request.pm blib/lib/Mojo/Cookie/Request.pm
cp lib/Mojo/IOLoop/Client.pm blib/lib/Mojo/IOLoop/Client.pm
cp lib/Mojo/Loader.pm blib/lib/Mojo/Loader.pm
cp lib/Mojo/Content/MultiPart.pm blib/lib/Mojo/Content/MultiPart.pm
cp lib/Mojo/Log.pm blib/lib/Mojo/Log.pm
cp lib/Mojo/DynamicMethods.pm blib/lib/Mojo/DynamicMethods.pm
cp lib/Mojo/JSON/Pointer.pm blib/lib/Mojo/JSON/Pointer.pm
cp lib/Mojo/Path.pm blib/lib/Mojo/Path.pm
cp lib/Mojo/EventEmitter.pm blib/lib/Mojo/EventEmitter.pm
cp lib/Mojo/Reactor/EV.pm blib/lib/Mojo/Reactor/EV.pm
cp lib/Mojo/Home.pm blib/lib/Mojo/Home.pm
cp lib/Mojo/Promise.pm blib/lib/Mojo/Promise.pm
cp lib/Mojo/IOLoop/TLS.pm blib/lib/Mojo/IOLoop/TLS.pm
cp lib/Mojo/Headers.pm blib/lib/Mojo/Headers.pm
cp lib/Mojo/IOLoop/Subprocess.pm blib/lib/Mojo/IOLoop/Subprocess.pm
cp lib/Mojo/Collection.pm blib/lib/Mojo/Collection.pm
cp lib/Mojo/File.pm blib/lib/Mojo/File.pm
cp lib/Mojo/IOLoop/resources/server.key blib/lib/Mojo/IOLoop/resources/server.key
cp lib/Mojo/Content/Single.pm blib/lib/Mojo/Content/Single.pm
cp lib/Mojo/ByteStream.pm blib/lib/Mojo/ByteStream.pm
cp lib/Mojo/Cookie.pm blib/lib/Mojo/Cookie.pm

```



```

debian@apache2:~$ tar xvfz OCSNG_UNIX_SERVER-2.10.0.tar.gz
OCSNG_UNIX_SERVER-2.10.0/
OCSNG_UNIX_SERVER-2.10.0/Apache/
OCSNG_UNIX_SERVER-2.10.0/Apache/Makefile.PL
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/INSTALL
OCSNG_UNIX_SERVER-2.10.0/Apache/MANIFEST
OCSNG_UNIX_SERVER-2.10.0/Apache/LICENSE
OCSNG_UNIX_SERVER-2.10.0/Apache/Changes
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Plugins/
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Plugins/Modules.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Interface.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/SOAP.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Plugins.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Constants.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Communication.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Groups.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/Software.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/Update/
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/Update/Hardware.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/Update/AccountInfos.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/Cache.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/Filter.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/Export.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/Update.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/Capacities.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Inventory/Data.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Notify.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Snmp/
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Snmp/Inventory.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Snmp/Data.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Datafilter.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Download/
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Download/Inventory.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Example.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Filter.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Ipdiscover.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Registry.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Update.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Download.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Capacities/Snmp.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Communication/
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Communication/Session.pm
OCSNG_UNIX_SERVER-2.10.0/Apache/Ocsinventory/Server/Modperl1.pm

```

Vérifier la présence d'un nouveau dossier OCSNG_UNIX_SERVER_2.10.0 à l'aide de la commande ls.

```

debian@apache2:~$ ls
chaina-tp  Desktop  Downloads  Exercice1  OCSNG_UNIX_SERVER-2.10.0  Pictures  Python  test  U5  Videos
cours     Documents  essai_droit  Music      OCSNG_UNIX_SERVER-2.10.0.tar.gz  Public  Templates  touch  Unix

```

Accéder au dossier résultat :

cd OCSNG_UNIX_SERVER-2.10.0

```

debian@apache2:~$ cd OCSNG_UNIX_SERVER-2.10.0
debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$ ls
Apache  Api  binutils  cpanfile  dtd  etc  INSTALL  LICENSE  ocsreports  README.md  setup.sh
debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$

```

Vérifier à l'aide de la commande ls la présence du fichier setup.sh, lancez ce dernier à l'aide de la commande ./setup.sh

```
debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$ ./setup.sh

+-----+
| Welcome to OCS Inventory NG Management server setup ! |
+-----+

Trying to determine which OS or Linux distribution you use
+-----+
| Checking for Apache web server binaries ! |
+-----+

CAUTION: If upgrading Communication server from OCS Inventory NG 1.0 RC2 and
previous, please remove any Apache configuration for Communication Server!

Do you wish to continue ([y]/n)?
```

On va répondre aux questions :

Do you wish to continue ([y]/n) Entrée

Which host is running database server [localhost] ? Entrée

On which port is running database server [3306] ? Entrée Where is Apache daemon binary

[/usr/sbin/apache2ctl] Entrée

Where is Apache main configuration file [/etc/apache2/apache2.conf] ? Entrée

Which user account is running Apache web server [www-data] ? Entrée

Which user group is running Apache web server [www-data] ? Entrée

Where is Apache Include configuration directory [/etc/apache2/conf-available] ?

/etc/apache2/conf-enabled puis Entrée

Where is PERL Interpreter binary [/usr/bin/perl] ? Entrée

Do you wish to setup Communication server on this computer ([y]/n)? Entrée

Where to put Communication server log directory [/var/log/ocsinventory-server] ? Entrée..

Where to put Communication server plugins configuration files

[/etc/ocsinventory-server/plugins] ? Entrée

Where to put Communication server plugins Perl modules files [/etc/ocsinventory-server/perl] ?

Entrée

Do you wish to setup Rest API server on this computer ([y]/n)? Entrée

Do you wish to continue (y/[n])? y

Where do you want the API code to be store [/usr/local/share/perl/5.24.1]? Entrée

Do you allow Setup renaming Communication Server Apache configuration file to 'z-

ocsinventoryserver.conf' ([y]/n) ? Entrée

Do you wish to setup Administration Server (Web Administration Console) on this computer

([y]/n)? Entrée

Puis quatre Entrée

```

debian@apache2:~$ cd OCSNG_UNIX_SERVER-2.10.0
debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$ ls
Apache  binutils  dtd  INSTALL  ocsreports  README.md
Api     cpanfile  etc  LICENSE  ocs_server_setup.log  setup.sh
debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$ sudo ./setup.sh
[sudo] password for debian:

+-----+
| Welcome to OCS Inventory NG Management server setup ! |
+-----+

Trying to determine which OS or Linux distribution you use
+-----+
| Checking for Apache web server binaries ! |
+-----+

CAUTION: If upgrading Communication server from OCS Inventory NG 1.0 RC2 and
previous, please remove any Apache configuration for Communication Server!

Do you wish to continue ([y]/n)?y
Assuming Communication server 1.0 RC2 or previous is not installed
on this computer.

Starting OCS Inventory NG Management server setup from folder /home/debian/OCSNG_UNIX_SERVER-2.10.0
Storing log in file /home/debian/OCSNG_UNIX_SERVER-2.10.0/ocs_server_setup.log

+-----+
| Checking for database server properties... |
+-----+

Your MySQL client seems to be part of MySQL version ..
./setup.sh: 166: [: -gt: unexpected operator
./setup.sh: 170: [: -eq: unexpected operator
Your computer does not seem to be compliant with MySQL 4.1 or higher.
Do you wish to continue (y/[n])?y
Ensure your database server is running MySQL 4.1 or higher !
Ensure also this computer is able to connect to your MySQL server !

Which host is running database server [localhost] ?
OK, database server is running on host localhost ;-)

On which port is running database server [3306] ?
OK, database server is running on port 3306 ;-)

+-----+
| Checking for Apache web server daemon... |
+-----+

```

```

+-----+
| Checking for Apache web server daemon... |
+-----+

Where is Apache daemon binary [/usr/sbin/apache2ctl] ?
OK, using Apache daemon /usr/sbin/apache2ctl ;-)

+-----+
| Checking for Apache main configuration file... |
+-----+

Where is Apache main configuration file [/etc/apache2/apache2.conf] ?
OK, using Apache main configuration file /etc/apache2/apache2.conf ;-)

+-----+
| Checking for Apache user account... |
+-----+

Which user account is running Apache web server [www-data] ?
OK, Apache is running under user account www-data ;-)

+-----+
| Checking for Apache group... |
+-----+

Which user group is running Apache web server [www-data] ?
OK, Apache is running under users group www-data ;-)

+-----+
| Checking for Apache Include configuration directory... |
+-----+

Setup found Apache Include configuration directory in
/etc/apache2/conf-available.
Setup will put OCS Inventory NG Apache configuration in this directory.
Where is Apache Include configuration directory [/etc/apache2/conf-available] ?
OK, Apache Include configuration directory /etc/apache2/conf-available found ;-)

+-----+
| Checking for PERL Interpreter... |
+-----+

Found PERL interpreter at </usr/bin/perl> ;-)
Where is PERL interpreter binary [/usr/bin/perl] ?
OK, using PERL interpreter /usr/bin/perl ;-)

Do you wish to setup Communication server on this computer ([y]/n)?

+-----+
| Checking for Make utility... |
+-----+

```



```

+-----+
|           Checking for Make utility...           |
+-----+

OK, Make utility found at </usr/bin/make> ;-)

+-----+
|           Checking for Apache mod_perl version... |
+-----+

Checking for Apache mod_perl version 1.99_22 or higher
Found that mod_perl version 1.99_22 or higher is available.
OK, Apache is using mod_perl version 1.99_22 or higher ;-)

+-----+
|           Checking for Communication server log directory... |
+-----+

Communication server can create detailed logs. This logs can be enabled
by setting integer value of LOGLEVEL to 1 in Administration console
menu Configuration.
Where to put Communication server log directory [/var/log/ocsinventory-server] ?
OK, Communication server will put logs into directory /var/log/ocsinventory-server ;-)

+-----+
|           Checking for Communication server plugins configuration directory... |
+-----+

Communication server need a directory for plugins configuration files.
Where to put Communication server plugins configuration files [/etc/ocsinventory-server/plugins] ?
OK, Communication server will put plugins configuration files into directory /etc/ocsinventory-server/plugins ;
-)

+-----+
|           Checking for Communication server plugins perl directory...           |
+-----+

Communication server need a directory for plugins Perl modules files.
Where to put Communication server plugins Perl modules files [/etc/ocsinventory-server/perl] ?
OK, Communication server will put plugins Perl modules files into directory /etc/ocsinventory-server/perl ;-)

+-----+
|           Checking for required Perl Modules...                               |
+-----+

Checking for DBI PERL module...
*** ERROR: PERL module DBI is not installed !
Checking for Apache::DBI PERL module...
*** ERROR: PERL module Apache::DBI is not installed !
Checking for DBD::mysql PERL module...
*** ERROR: PERL module DBD::mysql is not installed !
Checking for Compress::Zlib PERL module...
Found that PERL module Compress::Zlib is available.
Checking for XML::Simple PERL module...
Found that PERL module XML::Simple is available.

```

```

+-----+
| Checking for required Perl Modules... |
+-----+

Checking for DBI PERL module...
*** ERROR: PERL module DBI is not installed !
Checking for Apache::DBI PERL module...
*** ERROR: PERL module Apache::DBI is not installed !
Checking for DBD::mysql PERL module...
*** ERROR: PERL module DBD::mysql is not installed !
Checking for Compress::Zlib PERL module...
Found that PERL module Compress::Zlib is available.
Checking for XML::Simple PERL module...
Found that PERL module XML::Simple is available.
Checking for Net::IP PERL module...
Found that PERL module Net::IP is available.
Checking for Archive::Zip Perl module...
*** ERROR: PERL module Archive::Zip is not installed !
*** ERROR: There is one or more required PERL modules missing on your computer !
Please, install missing PERL modules first.

OCS setup.sh can install perl module from packages for you
The script will use the native package from your operating system like apt or rpm
Do you wish to continue (y/[n])?y
Debian based automatic installation
Get:1 http://security.debian.org/debian-security bookworm-security InRelease [48.0 kB]
Hit:2 http://deb.debian.org/debian bookworm InRelease
Get:3 http://deb.debian.org/debian bookworm-updates InRelease [55.4 kB]
Fetched 103 kB in 1s (126 kB/s)
Reading package lists... Done
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following package was automatically installed and is no longer required:
  linux-image-6.1.0-13-amd64
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  libmariadb3 mariadb-common mysql-common
Suggested packages:
  libmldbm-perl libnat-daemon-perl libsql-statement-perl
The following NEW packages will be installed:
  libapache-dbi-perl libarchive-zip-perl libdbd-mysql-perl libdbi-perl libmariadb3 mariadb-common
  mysql-common
0 upgraded, 7 newly installed, 0 to remove and 108 not upgraded.
Need to get 1254 kB of archives.
After this operation, 3616 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://deb.debian.org/debian bookworm/main amd64 libdbi-perl amd64 1.643-4 [773 kB]
Get:2 http://deb.debian.org/debian bookworm/main amd64 libapache-dbi-perl all 1.12-3 [48.5 kB]
Get:3 http://deb.debian.org/debian bookworm/main amd64 libarchive-zip-perl all 1.68-1 [104 kB]
Get:4 http://deb.debian.org/debian bookworm/main amd64 mysql-common all 5.8+1.1.0 [6636 B]
Get:5 http://deb.debian.org/debian bookworm/main amd64 mariadb-common all 1:10.11.14-0+deb12u2 [26.3 kB]
Get:6 http://deb.debian.org/debian bookworm/main amd64 libmariadb3 amd64 1:10.11.14-0+deb12u2 [182 kB]
Get:7 http://deb.debian.org/debian bookworm/main amd64 libdbd-mysql-perl amd64 4.050-5+b1 [114 kB]
Fetched 1254 kB in 0s (2703 kB/s)
Selecting previously unselected package libdbi-perl:amd64.

```

```

Get:4 http://deb.debian.org/debian bookworm/main amd64 mysql-common all 5.8+1.1.0 [6636 B]
Get:5 http://deb.debian.org/debian bookworm/main amd64 mariadb-common all 1:10.11.14-0+deb12u2 [26.3 kB]
Get:6 http://deb.debian.org/debian bookworm/main amd64 libmariadb3 amd64 1:10.11.14-0+deb12u2 [182 kB]
Get:7 http://deb.debian.org/debian bookworm/main amd64 libdbd-mysql-perl amd64 4.050-5+b1 [114 kB]
Fetched 1254 kB in 0s (2703 kB/s)
Selecting previously unselected package libdbi-perl:amd64.
(Reading database ... 158073 files and directories currently installed.)
Preparing to unpack .../0-libdbi-perl_1.643-4_amd64.deb ...
Unpacking libdbi-perl:amd64 (1.643-4) ...
Selecting previously unselected package libapache-dbi-perl.
Preparing to unpack .../1-libapache-dbi-perl_1.12-3_all.deb ...
Unpacking libapache-dbi-perl (1.12-3) ...
Selecting previously unselected package libarchive-zip-perl.
Preparing to unpack .../2-libarchive-zip-perl_1.68-1_all.deb ...
Unpacking libarchive-zip-perl (1.68-1) ...
Selecting previously unselected package mysql-common.
Preparing to unpack .../3-mysql-common_5.8+1.1.0_all.deb ...
Unpacking mysql-common (5.8+1.1.0) ...
Selecting previously unselected package mariadb-common.
Preparing to unpack .../4-mariadb-common_1%3a10.11.14-0+deb12u2_all.deb ...
Unpacking mariadb-common (1:10.11.14-0+deb12u2) ...
Selecting previously unselected package libmariadb3:amd64.
Preparing to unpack .../5-libmariadb3_1%3a10.11.14-0+deb12u2_amd64.deb ...
Unpacking libmariadb3:amd64 (1:10.11.14-0+deb12u2) ...
Selecting previously unselected package libdbd-mysql-perl:amd64.
Preparing to unpack .../6-libdbd-mysql-perl_4.050-5+b1_amd64.deb ...
Unpacking libdbd-mysql-perl:amd64 (4.050-5+b1) ...
Setting up mysql-common (5.8+1.1.0) ...
update-alternatives: using /etc/mysql/my.cnf.fallback to provide /etc/mysql/my.cnf (my.cnf) in auto mode
Setting up libarchive-zip-perl (1.68-1) ...
Setting up mariadb-common (1:10.11.14-0+deb12u2) ...
update-alternatives: using /etc/mysql/mariadb.cnf to provide /etc/mysql/my.cnf (my.cnf) in auto mode
Setting up libmariadb3:amd64 (1:10.11.14-0+deb12u2) ...
Setting up libdbi-perl:amd64 (1.643-4) ...
Setting up libapache-dbi-perl (1.12-3) ...
Setting up libdbd-mysql-perl:amd64 (4.050-5+b1) ...
Processing triggers for man-db (2.11.2-2) ...
Processing triggers for libc-bin (2.36-9+deb12u13) ...
All packages have been installed on this computer

Do you wish to setup Rest API server on this computer ([y]/n)?

+-----+
| Checking for REST API Dependencies ...      |
+-----+

Found that PERL module Mojolicious::Lite is available.
Found that PERL module Switch is available.
*** ERROR: PERL module Plack::Handler is not installed !
Do you wish to continue (y/[n])?y

+-----+
| Configuring REST API Server files ...      |
+-----+

```

```

+-----+
| Configuring REST API Server files ... |
+-----+

Where do you want the API code to be store [/usr/local/share/perl/5.36.0] ?
Copying files to /usr/local/share/perl/5.36.0

+-----+
| Configuring REST API Server configuration files ... |
+-----+

+-----+
| OK, looks good ;-)|
| Configuring Communication server Perl modules...|
+-----+

Checking if your kit is complete...
Looks good
Generating a Unix-style Makefile
Writing Makefile for Apache::Ocsinventory
Writing MYMETA.yml and MYMETA.json

+-----+
| OK, looks good ;-)|
| Preparing Communication server Perl modules...|
+-----+

+-----+
| OK, prepare finshed ;-)|
| Installing Communication server Perl modules...|
+-----+

+-----+
| OK, Communication server Perl modules install finished;-)|
| Creating Communication server log directory...|
+-----+

Creating Communication server log directory /var/log/ocsinventory-server.

Fixing Communication server log directory files permissions.
Configuring logrotate for Communication server.
Removing old communication server logrotate file /etc/logrotate.d/ocsinventory-NG
Writing communication server logrotate to file /etc/logrotate.d/ocsinventory-server

```

```

      OK, Communication server log directory created ;-)
    Creating Communication server plugins configuration directory...
+-----+
Creating Communication server plugins configuration directory /etc/ocsinventory-server/plugins.

+-----+
| OK, Communication server plugins configuration directory created ;-) |
+-----+
    Creating Communication server plugins Perl directory...
+-----+
Creating Communication server plugins Perl directory /etc/ocsinventory-server/perl.

+-----+
| OK, Communication server plugins Perl directory created ;-) |
+-----+
      Now configuring Apache web server...
+-----+

To ensure Apache loads mod_perl before OCS Inventory NG Communication Server,
Setup can name Communication Server Apache configuration file
'z-ocsinventory-server.conf' instead of 'ocsinventory-server.conf'.
Do you allow Setup renaming Communication Server Apache configuration file
to 'z-ocsinventory-server.conf' ([y]/n) ?
OK, using 'z-ocsinventory-server.conf' as Communication Server Apache configuration file
Removing old communication server configuration to file /etc/apache2/conf-available/ocsinventory.conf
Writing communication server configuration to file /etc/apache2/conf-available/z-ocsinventory-server.conf

+-----+
| OK, Communication server setup successfully finished ;-) |
+-----+
| Please, review /etc/apache2/conf-available/z-ocsinventory-server.conf |
| to ensure all is good. Then restart Apache daemon. |
+-----+

Do you wish to setup Administration Server (Web Administration Console)
on this computer ([y]/n)?

+-----+
| Checking for Administration Server directories... |
+-----+

CAUTION: Setup now install files in accordance with Filesystem Hierarchy
Standard. So, no file is installed under Apache root document directory
(Refer to Apache configuration files to locate it).
If you're upgrading from OCS Inventory NG Server 1.01 and previous, YOU
MUST REMOVE (or move) directories 'ocsreports' and 'download' from Apache
root document directory.
If you choose to move directory, YOU MUST MOVE 'download' directory to
Administration Server writable/cache directory (by default
/var/lib/ocsinventory-reports), especially if you use deployment feature.

```

```

+-----+
|  Checking for Administration Server directories...  |
+-----+

CAUTION: Setup now install files in accordance with Filesystem Hierarchy
Standard. So, no file is installed under Apache root document directory
(Refer to Apache configuration files to locate it).
If you're upgrading from OCS Inventory NG Server 1.01 and previous, YOU
MUST REMOVE (or move) directories 'ocsreports' and 'download' from Apache
root document directory.
If you choose to move directory, YOU MUST MOVE 'download' directory to
Administration Server writable/cache directory (by default
/var/lib/ocsinventory-reports), especially if you use deployment feature.

Do you wish to continue ([y]/n)?
Assuming directories 'ocsreports' and 'download' removed from
Apache root document directory.

Where to copy Administration Server static files for PHP Web Console
[/usr/share/ocsinventory-reports] ?
OK, using directory /usr/share/ocsinventory-reports to install static files ;-)

Where to create writable/cache directories for deployment packages,
administration console logs, IPDiscover and SNMP [/var/lib/ocsinventory-reports] ?
OK, writable/cache directory is /var/lib/ocsinventory-reports ;-)

+-----+
|  Checking for required Perl Modules...  |
+-----+

Checking for DBI PERL module...
Found that PERL module DBI is available.
Checking for DBD:mysql PERL module...
Found that PERL module DBD:mysql is available.
Checking for XML:Simple PERL module...
Found that PERL module XML:Simple is available.
Checking for Net:IP PERL module...
Found that PERL module Net:IP is available.

+-----+
|  Installing files for Administration server...  |
+-----+

Creating PHP directory /usr/share/ocsinventory-reports/ocsreports.
Copying PHP files to /usr/share/ocsinventory-reports/ocsreports.
Fixing permissions on directory /usr/share/ocsinventory-reports/ocsreports.
Creating database configuration file /usr/share/ocsinventory-reports/ocsreports/dbconfig.inc.php.
Creating IPDiscover directory /var/lib/ocsinventory-reports/ipd.
Fixing permissions on directory /var/lib/ocsinventory-reports/ipd.
Creating packages directory /var/lib/ocsinventory-reports/download.
Fixing permissions on directory /var/lib/ocsinventory-reports/download.
Creating snmp mibs directory /var/lib/ocsinventory-reports/snmp.
Fixing permissions on directory /var/lib/ocsinventory-reports/snmp.
Creating Administration server log files directory /var/lib/ocsinventory-reports/logs.
Fixing permissions on directory /var/lib/ocsinventory-reports/logs.

```



```

+-----+
| Installing files for Administration server... |
+-----+

Creating PHP directory /usr/share/ocsinventory-reports/ocsreports.
Copying PHP files to /usr/share/ocsinventory-reports/ocsreports.
Fixing permissions on directory /usr/share/ocsinventory-reports/ocsreports.
Creating database configuration file /usr/share/ocsinventory-reports/ocsreports/dbconfig.inc.php.
Creating IPDISCOVER directory /var/lib/ocsinventory-reports/ipd.
Fixing permissions on directory /var/lib/ocsinventory-reports/ipd.
Creating packages directory /var/lib/ocsinventory-reports/download.
Fixing permissions on directory /var/lib/ocsinventory-reports/download.
Creating snmp mibs directory /var/lib/ocsinventory-reports/snmp.
Fixing permissions on directory /var/lib/ocsinventory-reports/snmp.
Creating Administration server log files directory /var/lib/ocsinventory-reports/logs.
Fixing permissions on directory /var/lib/ocsinventory-reports/logs.
Creating Administration server temporary files directory /var/lib/ocsinventory-reports/tmp_dir.
Fixing permissions on directory /var/lib/ocsinventory-reports/tmp_dir.
Creating Administration server scripts log files directory /var/lib/ocsinventory-reports/scripts.
Fixing permissions on directory /var/lib/ocsinventory-reports/scripts.
Configuring IPDISCOVER-UTIL Perl script.
Installing IPDISCOVER-UTIL Perl script.
Fixing permissions on IPDISCOVER-UTIL Perl script.
Writing Administration server configuration to file /etc/apache2/conf-available/ocsinventory-reports.conf

+-----+
| OK, Administration server installation finished ;-) |
+-----+

Please, review /etc/apache2/conf-available/ocsinventory-reports.conf
to ensure all is good and restart Apache daemon.

Then, point your browser to http://server/ocsreports
to configure database server and create/update schema.
+-----+

Setup has created a log file /home/debian/OCSNG_UNIX_SERVER-2.10.0/ocs_server_setup.log. Please, save this file
.
If you encounter error while running OCS Inventory NG Management server,
we can ask you to show us its content !

DON'T FORGET TO RESTART APACHE DAEMON !

Enjoy OCS Inventory NG ;-)

debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$

```

Vous devez lire : Enjoy OCS Inventory NG :-)

Connectez-vous à mariaDB :

mysql -u root

```

debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$ sudo mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.11.14-MariaDB-0+deb12u2 Debian 12

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>

```

Créez une nouvelle base de donnée 'ocsweb':

create database ocsweb;

Créez un nouvel utilisateur 'ocs' à qui on attribut tous les droits avec comme mot de passe 'ocs':

GRANT ALL PRIVILEGES ON . TO ocs@'localhost' IDENTIFIED BY 'ocs';

Validez les requêtes :

FLUSH PRIVILEGES;

exit ;

```

debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$ sudo mariadb -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 32
Server version: 10.11.14-MariaDB-0+deb12u2 Debian 12

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE ocsweb;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON *.* TO ocs@'localhost' IDENTIFIED BY 'ocs';
Query OK, 0 rows affected (0.002 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> EXIT;
Bye
debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$ █

```

Redémarrez mariadb et apache2 :

service mariadb restart

service apache2 restart

```

debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$ sudo systemctl restart mariadb
debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$ sudo systemctl restart apache2
debian@apache2:~/OCSNG_UNIX_SERVER-2.10.0$ █

```

Nous allons finaliser l'installation d'OCS Inventory NG depuis le navigateur Web de votre machine physique.

- A l'aide de ip a, notez l'adresse IP de la deuxième interface réseau (obtenue dynamiquement)
- Lancez votre navigateur pour tapez cette @IP/ocsreports
- Dans le formulaire, renseignez les éléments suivants :

MySQL login: ocs

MySQL password: ocs

Name of Database: ocsweb

MySQL HostName: localhost

MySQL login:	<input type="text" value="ocs"/>
MySQL password:	<input type="password" value="..."/>
Name of Database:	<input type="text" value="ocsweb"/>
MySQL HostName:	<input type="text" value="localhost"/>
MySQL Port :	<input type="text" value="3306"/>
Enable SSL:	<input type="text" value=""/>
SSL mode:	<input type="text" value=""/>
SSL key path:	<input type="text" value=""/>
SSL certificat path:	<input type="text" value=""/>
CA certificat path:	<input type="text" value=""/>

Send