Remi's RPM repository - Blog

Aller au contenu Aller au menu Aller à la recherche

English : OCS and GLPI installation guide

Lisez le Guide d'installation d'OCS et GLPI en français.

This is a quick installation Guide for OCS Inventory NG and GLPI.

Prerequisites

This guide is designed for Fedora (http://fedoraproject.org/) , RHEL (http://www.redhat.com/rhel/) and CentOS (http://www.centos.org/) distributions which provides RPM of OCS and GLPI in their official repositories (also available here, you need to activate my repository).

We consider the server is freshly installed : MariaDB / MySQL is not installed nor configured.

This article was writen with **OCS** version **2.1.2** and **GLPI** version **0.90.1** on **RHEL-7.2**.

In this tutorial, I use *rootsecret*, *ocssecret*, *glpisecret*, *syncsecret* as password, of course, you should use other values...

The database server

For **Fedora** or **Enterprise Linux >= 7, MariaDB installation**, launch and activation :

```
# yum install mariadb-server
# systemctl start mariadb
# ystemctl enable mariadd
```

For **Enterprise Linux <= 6, MySQL installation**, launch and activation :

```
# yum install mysql-server
# service mysqld start
# chkconfig mysqld on
```

Some security on the server : we must change the database administrator password, drop the test database, disable anonymous access, etc:

```
# mysql_secure_installation
```

If you've completed all of the above steps, your MariaDB / MySQL installation should now be secure. (We will consider the root password is set to *rootsecret*)

OCS Inventory NG

Installation :

```
# yum install ocsinventory
```

For **Fedora** or **Enterprise Linux >= 7, Apache HTTP server**, launch and activation :

```
# systemctl restart httpd
# systemctl enable httpd
```

For **Enterprise Linux <= 6, Apache HTTP server**, launch and activation :

```
# service httpd restart
# chkconfig httpd on
```

Configuration and database schema creation :

Connect to http://localhost/ocsreports/install.php (http://localhost/ocsreports/install.php) (must be modified if you are connected to the server from another computer).

- Step 1 : enter the MariaDB / MySQL administrator login and password, then **Send**.
- Step 2 : schema creation. If all is ok (must be true using the RPM), clic on **Send**
- Step 3 : installation final step. write somewhere the account created (admin/admin) and clic on **Click here to enter OCS-NG GUI**.
- Step 4 : choose your language (using the flag on the right top)
- Step 5 : connect to the application (admin/admin)

Congratulations. You have OCS installed !

Some required configuration options : open the **pipe wrench** / Configuration / Config and then the **Server** tabs:

- LOGLEVEL = On (really usefull when you encounter an issue)
- PROLOG_FREQ = 24 (time between 2 inventory)
- AUTO_DUPLICATE_LVL = crtieria used to detect that 2 computers are the same (I use Model + Serial + Mac Address).
- TRACE_DELETED = On (required by GLPI).
- SESSION_VALIDITY_TIME = 600.

Changing the application **admin** password is also really a good idea (don't forget it) : use the "key" icon on the right top.

During the installation step a new database **ocsweb** is created and a MariaDB / MySQL account **ocs** with a default password = **ocs**, which is really not secure.

We need to change the MariaDB / MySQL password :

```
# mysql -uroot -prootsecret
MariaDB> UPDATE mysql.user SET Password = PASSWORD('ocssecret') WHERE User = 'ocs';
MariaDB> FLUSH PRIVILEGES;
MariaDB> exit
```

And to update the configuration file with this new password :

In the **/etc/httpd/conf.d/ocsinventory-server.conf** file (arround line 29) :

```
PerlSetVar OCS_DB_PWD ocssecret
```

In the **/etc/ocsinventory/ocsinventory-reports/dbconfig.inc.php** file :

```
$_SESSION["PSWD_BASE"]="ocssecret"
```

Tell apache to reload his configuration for perl module to read the new parameter value:

```
# service httpd reload
```

First computer

To test the inventory feature, we are going to install the inventory agent on a first computer. Of course it will be on our server.

```
# yum install ocsinventory-agent
```

Now, send the inventory:

```
# ocsinventory-agent --nolocal --server=localhost
```

If all is ok, your server should be in the computer list in OCS.

You can enable the automatic inventory of this computer, edit the **/etc/sysconfig/ocsinventory-agent**:

```
OCSMODE[0]=cron
OCSSERVER[0]=http://localhost/ocsinventory
```

GLPI

To start, we are going to create the database schema and the MariaDB / MySQL accounts for GLPI. Using the administrator (root) account is really a bad idea. The **glpi** account will be used by the application, and the **synchro** account for the synchronizaton process (to read the ocsweb database from glpi with only minimum rights).

N.B. in this example, the synchro user rights are reduce to the minimal. In the case you want to use some special plugins (uninstall p.e.), full right are required.

```
# mysql -uroot -prootsecret
MariaDB> CREATE USER 'glpi'@'%' IDENTIFIED BY 'glpisecret';
MariaDB> GRANT USAGE ON *.* TO 'glpi'@'%' IDENTIFIED BY 'glpisecret';
MariaDB> CREATE DATABASE IF NOT EXISTS `glpi` ;
MariaDB> GRANT ALL PRIVILEGES ON `glpi`.* TO 'glpi'@'%';
MariaDB> CREATE USER 'synchro'@'%' IDENTIFIED BY 'syncsecret';
MariaDB> GRANT USAGE ON *.* TO 'synchro'@'%' IDENTIFIED BY 'syncsecret';
MariaDB> GRANT SELECT ON `ocsweb`.* TO 'synchro'@'%';
MariaDB> GRANT DELETE ON `ocsweb`.`deleted_equiv` TO 'synchro'@'%';
MariaDB> GRANT UPDATE (`CHECKSUM`) ON `ocsweb`.`hardware` TO 'synchro'@'%';
MariaDB> FLUSH PRIVILEGES;
MariaDB> exit
```

Installation :

```
# yum install glpi
# service httpd reload
```

Database schema creation and configuration

Connect to the application : http://localhost/glpi/ (http://localhost/glpi/) it will launch the configuration wizard.

- select your language and : **OK**.
- read and accept the license (GPL) : **Continue**
- start the installation : **Installation**
- step 0 : prerequisites check (must be ok with the RPM, including SELinux) : **Continue**
- step 1 : enter the database connexion parameters (localhost / glpi / glpisecret) : **Continue**
- step 2 : select the **glpi** database and **Continue**
- step 3 : write somewhere the adminstrateur login and password (glpi/glpi) et **Continue**
- step 4 : also write the other account informations : **Use GLPI**
- Authentificate yourself with the new account : glpi/glpi

Congratulations (again) : you have GLPI installed !

Security

By default, after installation, access to the installation assistant is only allowed from the computer where GLPI is installed. If this message is displayed:

> Restricted area.
> Only local access allowed.
> Check your configuration or contact your administrator.

you have to allow access from your computer in the /etc/httpd/conf.d/glpi.conf (see the comments).

Remind to keep this secured.

OCSNG mode configuration

OCS Inventory NG plugin activation :

- Menu Setup / **Plugins**
- OCS Inventory NG => **Install**
- OCS Inventory NG => **Enable**

Server Configuration :

- Menu Tools / **OCS Inventory NG**
- Open **configuration** (monkey wrench icon) => OCSNG Servers
- Create a new server (+ icon)
- Name: **My OCS Server**
- OCSweb host: **localhost**
- Name of the OCS database: **ocsweb**
- OCSweb database user: **synchro**
- OCSweb user password: **syncsecret**
- Active: **yes**
- Synchronisation method: **standard**
- Database in UTF8: **yes**
- **Add**

On the **test** tab:

- You must get the **Connection to OCS database successful** message.

Now, we must configure the informations that will be imported from OCS to GLPI. Here is a few examples :

Import options tab:

- **Monitors** : **Unit** import on Serial number
- **Logiciels** : **Unit** Import
- Use the software **dictionary** of OCS: **No**
- Number of computers to synchronize using the cron: **0** (we are going to use another solution)

General informations tab:

- Computers : Yes for all that you are interested by.
- **Components** : Yes for what you want.
- etc, etc (you should notice that a lot of behavior are configurable)
- **Post**

Check :

- Menu Tools / **OCS Inventory NG**
- Import **new** computers

In the displayed list, you should see your server (on which we have installed the agent). You can import it and check retrieved information.

Automatic OCSNG synchronization - standard mode

Menu Setup / **Automatic actions**

- Open the **ocsng** action
- Run frequency: **5 minutes** (a small value is prefered, to get quickly new inventories and avoid a huge waiting queue)
- Status: **scheduled**
- Run mode: **CLI** (managed by system, already configured by the RPM installation)
- **Save**

Automatic OCSNG synchronization - standard mode

I advice against this mode, which give no benefit on standard mode (the old optimisation is broken since GLPI 0.85)

Conclusion

We have configured one of the best inventory and asset management solution in a few minutes (probably the best, as it is OpenSource (http://en.wikipedia.org/wiki/Opensource))

You can now continue to deploy the inventory agent on your other computers, it's available for most OS.

Take also some time to read the official documentation to be able to tune your configuration to fully suite your need:

- OCS Documentation (http://wiki.ocsinventory-ng.org/)
- GLPI Documentation (http://glpi-project.org/wiki/doku.php?id=en:welcome)

Don't forget than OpenSource (http://en.wikipedia.org/wiki/Opensource) projects exists thanks to their community and to their users contributions. So when you'll have seen what OCS and GLPI can do for you, don't forget to do something for this projects:

- OCS NG donations (http://www.ocsinventory-ng.org/index.php?page=donate)
- Contribute to GLPI (http://www.glpi-project.org/spip.php?article52&lang=en)

Comments and support

Of course, comments on this guide are welcome and could be posted here. For support questions, please, use each application official forums:

- OCS Forums (http://forums.ocsinventory-ng.org/)
- GLPI Forums (http://glpi-project.org/forum/)
- Forum - Les RPM de Remi (http://forum.remirepo.net/) for questions about this tutorial or the RPM.

Don't forget to read and to respect forum usage rules.

Publié le vendredi 24 octobre 2008 par Remi

Commentaires

1. Le jeudi 5 février 2009, 15:16 par adrian

excellent documentation, thanks alot

2. Le jeudi 26 février 2009, 09:40 par sim
   Very good documentation because it has some focus on secure configuration of ocs and glpi! But I fail in the glpi setup when I want to connect to the Mysql db with the glpi user I set up in the console. It allways says access denied. What am I doing wrong, any clue?

3. Le mercredi 25 mars 2009, 19:30 par Marc Szabo
   Hi Remi,

   This is a great site, a lot of good information.

   I'm in the process of evaluating this product, and I've been able to successfully install the OCS Inventory Server and some ocsinventory-agents for Linux and so far so good. I've been able to use your repository to accomplish this without installing any compilers.

   But, now I would like to install the ocsinventory-agent on some Solaris systems. We don't want to install compillers on these systems either (they're on the DMZ). Do you have any Solaris *.pkg files already created somewhere that I can just pull them down, for Solaris 8, Solaris 9 and Solaris 10 SPARC systems?

   Thank you in advance for your help.
   Marc.

4. Le mercredi 25 mars 2009, 19:38 par Remi (http://blog.famillecollet.com/)
   @Marc Szabo you probably should ask on the OCS Forum.

   I know than Gonéri (the main agent maintainer) have some Aix and Solaris standalone build (but finding buld machine is quiet difficult)

   And you can find there information about building such a standalone agent you can deploy on your DMZ servers.

   +

5. Le mardi 28 avril 2009, 09:37 par Michael (http://www.wardking.com/)
   This is really really very useful!

6. Le mercredi 23 septembre 2009, 11:19 par Talindoche
   First of all thx for the detailed documentation.
   Just one additional stuff:
   If the DB is not the localhost, but a different server

   Change on: ocsinventory-server.conf
   PerlSetEnv OCS_DB_HOST <db host name>

   Regards
   Talindo

7. Le samedi 7 novembre 2009, 17:56 par Rick Melendez (http://www.ulc.edu.mx)
   Hello Remi
   I was implement this system on ubuntu and other version of centos so we wasn´t any problem with you repo (a lot of tanks), now i use a virtual host on apache on my new server, but puts in the client this error :
   HTTP SERVER: Creating CInternetSession to get inventory parameters...OK.
   HTTP SERVER: Getting HTTP Connection to server xxx.xxx.xxx.xxx port 80 using no authentication...OK.
   HTTP SERVER: Sending prolog query...ERROR: HTTP status code 500
   HTTP SERVER: Closing HTTP connection
   WMI Disconnect: Disconnected from WMI namespace.
   Writing last inventory state not required.

Execution duration: 00:00:01.

Really i dont know why i cant send the query to the data base but i tink the possible cause is the configuration of virtual host. I really apreciate you help if you can.

Tanks for you time.

8. Le samedi 7 novembre 2009, 18:00 par Remi (http://blog.famillecollet.com/)
@Rick, comment are not the best place for such question/support, please use Forums instead

- OCS Forums (http://forums.ocsinventory-ng.org/)
- Forums - Les RPM de Remi (http://forums.famillecollet.com/) for questions about this tutorial or the RPM.

+

P.S. I will remove this post in a few days...

9. Le lundi 9 novembre 2009, 15:51 par Rick Melendez (http://www.ulc.edu.mx)
Hey a lots of tanks by this guide, i was response today my self about my question you need only leave permission to files to write.
TANKS Again!!

10. Le dimanche 22 novembre 2009, 18:31 par Jens (http://www.hagel-it.de)
Thanks for this. I just tried to use the plugin. It was confusing that there is a built-in ocs import but one should use the plugin. So thanks for the wiiting.

11. Le mardi 19 janvier 2010, 23:30 par Vox (http://thesoapvox.com)
Your documentation and rpms rock, saved me bunches of hours of messing with stuff, thanks lots :)

12. Le vendredi 26 février 2010, 10:57 par kartook (http://www.kartook)
I am kind a new to this .But i like to use in my environment .We have server but i am not installed that .

I love to learn how to install the OCS and Glpi and all .my technical background pretty much on windows not in linux .

Hey

Can you update this things like just i need to copy and paste the words in to my browser .Also like to have one Video how to install and how to configure MySql and .

if you share the video that would be great to learn like me fellow

Thanks in advance
K~

13. Le vendredi 26 février 2010, 12:35 par kartook (http://www.kartook)
GUys i will upload the installation Vodei as soon as i can .iam done first installation ..

for you all i will provide the Video ..Hey Author you rock man

keep in touch

14. Le mercredi 7 juillet 2010, 23:12 par tuxlover
your guide is very appreciated. Grazie!

15. Le mardi 10 août 2010, 14:04 par Xaxim
I stopped at step: yum install ocsinventory.

The result was as follows:
yum install ocsinventory

Loaded pugins: fastestmirror
Loading mirror speeds from cached hostfile
Setting up Install Process
No package ocsinventory available.
Nothing to do

And then I get the prompt back again...
What is going wrong?

Thanks in advance.

16. Le mardi 10 août 2010, 14:15 par Remi (http://blog.famillecollet.com/)
@Xaxim : restart reading.

Especially the first line of "**Prerequisites**"

+

17. Le lundi 14 mars 2011, 13:24 par Oliver (http://www.flexbyte.de)
Saved me a lot of time. Many Thanks!

Propulsé par Dotclear