OpenGTS sur Debian

Notes d'installation. Pour tout commentaire ou suggestions, contactez-moi.

1) Installation de paquets requis:

```
sudo apt install openjdk-7-jdk tomcat7 tomcat7-common libmail-java libmysql-
java apache2 php5 mysql-server libmysql-java wget unzip ant ufw
```

Attention: bien noter le mot de passe SQL ($SQL_PASSWORD), devra être utilisé plus bas

2) Dans /etc/environment mettre:

```
GTS_HOME=/usr/local/gts
JAVA_HOME=./usr/lib/jvm/java-7-openjdk-amd64
CATALINA_HOME=/usr/share/tomcat7
ANT_HOME=/usr/bin/ant
```

et reboot ou

```
echo ANT_HOME=/usr/bin/ant >> /etc/environment
echo GTS_HOME=/usr/local/gts >> /etc/environment
echo "JAVA_HOME="$(dirname $(dirname $(readlink \-f $(which javac)))) >>
/etc/environment
echo CATALINA_HOME=/usr/share/tomcat7 >> /etc/environment
```

reboot 3) Liens symboliques pour lib Java, Tomcat et Java

```
sudo ln \-s /usr/share/java/mysql-connector-java.jar /usr/lib/jvm/java-7-
openjdk-amd64/jre/lib/ext/mysql-connector-java.jar
sudo ln \-s /usr/share/java/javax.mail.jar /usr/lib/jvm/java-7-openjdk-
amd64/jre/lib/ext/javax.mail.jar
sudo ln \-s $JAVA_HOME /usr/local/java
sudo ln \-s $CATALINA_HOME /usr/local/tomcat
```

4) Téléchargement et compilation

```
wget
[http://downloads.sourceforge.net/project/opengts/server-base/2.6.3/OpenGTS_2.
6.3.zip]
sudo unzip OpenGTS_2.6.3.zip \-d /usr/local
sudo ln \-s  /usr/local/OpenGTS_2.6.3/ /usr/local/gts
cd /usr/local/gts
ant all
```

4.1) Vérifier l'installation

```
$ bin/checkInstall.sh
```

Example de sortie:

```
** Found 1 Error(s)!
********************************************************************************
************
1) Tomcat contains non-'caadmin' owned file(s)
   [Reason: Some files in the Tomcat folder are not owned by 'caadmin']
   [Fix: Run 'chown -R caadmin:caadmin $CATALINA_HOME' to set the
directory/file
     ownership]
********************************************************************************
************
-- Found 5 Warning(s):
1) Memory below recommended value
2) Optional '*mail.jar.jar' not found.  (required for JavaMail support)
3) MySQL port may be accessible over Internet/Intranet!
4) Symbolic Link does not exist: /usr/local/java
5) Symbolic Link does not exist, or is invalid: /usr/local/tomcat
-- Recommendations:
- Highly recommend increasing memory to at least 4096 Mb for a production
environment.
- Recommend closing MySQL port if external access is not required.
- Recommend creating /usr/local/java symbolic link to point to $JAVA_HOME:

ln \-s /usr/lib/jvm/java-7-openjdk-amd64 /usr/local/java

- Recommend creating /usr/local/tomcat symbolic link to point to
$CATALINA_HOME:

ln \-s /usr/share/tomcat7 /usr/local/tomcat
```

5) Chargement de la BD

```
bin/initdb.sh \-rootUser=<rootUser> \-rootPass=<rootPass>
```

(utiliser root et $SQL_PASSWORD)

Exemple de sortie:

```
$ bin/initdb.sh -rootUser=root -rootPass=XXXXXXXXXXXXXXXXXXXX
Version: 2.6.3
Database created: gts
Privileges granted to user: gts
Validating table columns ...
```

```
------------------------------------------------------------------------------
  Table 'Account'                       --- Creating table ...
  Table 'AccountString'                 --- Creating table ...
  Table 'User'                          --- Creating table ...
  Table 'UserAcl'                       --- Creating table ...
  Table 'GroupList'                     --- Creating table ...
  Table 'Device'                        --- Creating table ...
  Table 'Transport'                     --- Creating table ...
  Table 'UniqueXID'                     --- Creating table ...
  Table 'DeviceGroup'                   --- Creating table ...
  Table 'DeviceList'                    --- Creating table ...
  Table 'Driver'                        --- Creating table ...
  Table 'EventData'                     --- Creating table ...
  Table 'Geozone'                       --- Creating table ...
  Table 'Resource'                      --- Creating table ...
  Table 'Role'                          --- Creating table ...
  Table 'RoleAcl'                       --- Creating table ...
  Table 'StatusCode'                    --- Creating table ...
  Table 'SystemProps'                   --- Creating table ...
  Table 'EventTemplate'                 --- Creating table ...
  Table 'PendingPacket'                 --- Creating table ...
  Table 'Property'                      --- Creating table ...
  Table 'Diagnostic'                    --- Creating table ...
------------------------------------------------------------------------------
Column validation completed successfully.
------------------------------------------------------------------------------
Updating GTS Version: 2.6.3
Updating DMTP Version: 1.3.6
```

6) Bloquer le port MySQL de l'extérieur – à faire

7) Optionnel: configurer le courriel

7.1) aller dans custom.conf mettre les paramètres

7.2) Tester avec:

```
/bin/checkInstall.sh -sendMail myemailaddress@example.com
```

8) Création du compte admin

```
/bin/admin.sh Account \-account=sysadmin \-pass=XXXXXXXXXXXXXX \-create
```

```
Entry Point: org.opengts.db.tables.Account
Created Account-ID: sysadmin
```

9) Finaliser:

```
ant track
```

Copier track.war à /var/lib/tomcat7/webapps/

```
sudo cp build/track.war /var/lib/tomcat7/webapps/
sudo cp build/events.war /var/lib/tomcat7/webapps/
sudo service tomcat7 restart
```

NOTES:

Pour vérifier l'emplacement de TomCat: # /usr/shar/tomcat7/bin/catalina.sh version

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