

# Installation OpenLDAP version LTB project

[OpenLDAP, LDAP Toolbox Project](#)

Nous installons les paquets pré requis

```
sudo aptitude install apt-transport-https gnupg2
```

Nous créons le fichier du dépôt LTB

```
sudo vi /etc/apt/sources.list.d/ltb-project.list
```

et ajoutons ces lignes

```
##  
# LTB project repository  
# version: Buster  
##  
  
deb [arch=amd64] https://ltb-project.org/debian/buster buster main
```

Nous importons la clé GPG du dépôt

```
wget -q0 - https://ltb-project.org/lib/RPM-GPG-KEY-LTB-project | sudo apt-  
key add -
```

Nous installons le paquet

```
sudo aptitude update && sudo aptitude install openldap-ltb
```

## Configuration

Par défaut, OpenLDAP LTB utilise le fichier slapd.conf. Nous allons plutôt utiliser la méthode cn=config pour stocker la configuration

Nous stoppons le service

```
sudo service slapd stop
```

Nous “salons” notre mot de passe Manager

```
sudo /usr/local/openldap/sbin/slappasswd
```

Il vous est demandé de saisir deux fois votre mot de passe, et le mot de passe “salé” sera généré (exemple avec le mot de passe “secret”)

```
New password:
```

```
Re-enter new password:  
{SSHA}0ZTmkv3eYx3uZHnrG7PtnVyk+AkZh30S
```

Nous adaptons le fichier slapd.conf

```
sudo vi /usr/local/openldap/etc/openldap/slapd.conf
```

```
#  
# See slapd.conf(5) for details on configuration options.  
# This file should NOT be world readable.  
#  
include      /usr/local/openldap/etc/openldap/schema/core.schema  
include      /usr/local/openldap/etc/openldap/schema/cosine.schema  
include      /usr/local/openldap/etc/openldap/schema/nis.schema  
include      /usr/local/openldap/etc/openldap/schema/inetorgperson.schema  
  
# Define global ACLs to disable default read access.  
  
# Do not enable referrals until AFTER you have a working directory  
# service AND an understanding of referrals.  
#referral    ldap://root.openldap.org  
  
pidfile      /usr/local/openldap/var/run/slapd.pid  
argsfile     /usr/local/openldap/var/run/slapd.args  
  
# Load dynamic backend modules:  
# modulepath  /usr/local/openldap/libexec/openldap  
# moduleload  back_mdb.la  
# moduleload  back_ldap.la  
  
# Sample security restrictions  
# Require integrity protection (prevent hijacking)  
# Require 112-bit (3DES or better) encryption for updates  
# Require 63-bit encryption for simple bind  
# security ssf=1 update_ssf=112 simple_bind=64  
  
# Sample access control policy:  
# Root DSE: allow anyone to read it  
# Subschema (sub)entry DSE: allow anyone to read it  
# Other DSEs:  
#   Allow self write access  
#   Allow authenticated users read access  
#   Allow anonymous users to authenticate  
# Directives needed to implement policy:  
# access to dn.base="" by * read  
# access to dn.base="cn=Subschema" by * read  
access to *  
    by self write  
    by users read
```

```
    by anonymous auth
#
# if no access controls are present, the default policy
# allows anyone and everyone to read anything but restricts
# updates to rootdn. (e.g., "access to * by * read")
#
# rootdn can always read and write EVERYTHING!

#####
# MDB database definitions
#####

database      mdb
maxsize       1073741824
suffix        "dc=domain,dc=tld"
rootdn        "cn=Manager,dc=domain,dc=tld"
# Cleartext passwords, especially for the rootdn, should
# be avoid. See slappasswd(8) and slapd.conf(5) for details.
# Use of strong authentication encouraged.
rootpw        {SSHA}0ZTmkv3eYx3uZHnrG7PtnVyK+AkZh30S
# The database directory MUST exist prior to running slapd AND
# should only be accessible by the slapd and slap tools.
# Mode 700 recommended.
directory     "/usr/local/openldap/var/openldap-data"
# Indices to maintain
index objectClass eq
```

Nous créons le répertoire qui accueillera la configuration

```
sudo mkdir -v /usr/local/openldap/etc/openldap/slapd.d/
```

Nous copions la configuration

```
sudo /usr/local/openldap/sbin/slapttest -f
/usr/local/openldap/etc/openldap/slapd.conf -F
/usr/local/openldap/etc/openldap/slapd.d -d 256
```

Nous mettons les droits sur le répertoire

```
sudo chown -R ldap.ldap /usr/local/openldap/etc/openldap/slapd.d
```

Nous adaptons le paramètre "SLAPD\_CONF\_DIR" dans le fichier  
/usr/local/openldap/etc/openldap/slapd-cli.conf

```
SLAPD_CONF_DIR="/$SLAPD_PATH/etc/openldap/slapd.d"
```

Nous démarrons le service

```
sudo service slapd start
```

## Peuplement de l'annuaire

Nous créons un fichier base.ldif

```
cd ~  
vi base.ldif
```

Nous y ajoutons les éléments

```
dn: dc=domain,dc=tld  
objectClass: top  
objectClass: dcObject  
objectClass: organization  
o: domain.tld  
dc: domain  
  
dn: ou=users,dc=domain,dc=tld  
ou: users  
objectClass: organizationalUnit  
objectClass: top  
  
dn: ou=groups,dc=domain,dc=tld  
ou: groups  
objectClass: organizationalUnit  
objectClass: top
```

Nous ajoutons ces infos à l'annuaire

```
sudo /usr/local/openldap/bin/ldapadd -x -D "cn=Manager,dc=domain,dc=tld" -W  
-f base.ldif
```

Nous listons le contenu de notre annuaire

```
sudo ldapsearch -x -H ldap://localhost -D cn=Manager,dc=domain,dc=tld -W -b  
dc=domain,dc=tld -LLL
```

## Liens

- [téléchargement depuis dépôt APT du projet](#)
- [documentation](#)

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