Smbldap-tools User Manual (Release: 0.8.7)

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1 Introduction

Smbldap-tools is a set of scripts designed to help integrate Samba and a LDAP directory. They target both users and administrators of Linux systems.

Users can change their password in a way similar to the standard "passwd" command.

Administrators can perform user and group management command line actions and synchronise Samba account management consistently.

This document presents:

- a detailled view of the smbldap-tools scripts
- a step by step explanation of how to set up a Samba3 domain controller

1.1 Software requirements

The smbldap-tools have been developped and tested with the following configuration :

- Linux RedHat 9 (be should work on any Linux distribution)
- Samba release 3.0.2pre1,
- OpenLDAP release 2.1.22
- Microsoft Windows NT 4.0, Windows 2000 and Windows XP Workstations and Servers,

This guide applies to smbldap-tools Release: 0.8.7.

1.2 Updates of this document

The most up to date release of this document may be found on the smbldap-tools project page available at http://samba.IDEALX.org/.

If you find any bugs in this document, or if you want this document to integrate some additional infos, please drop us a mail with your bug report and/or change request at samba@IDEALX.org.

1.3 Availability of this document

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2 Installation

2.1 Requirements

The main requirement for using smbldap-tools are the two perl module: Net::LDAP and Crypt::SmbHash. In most cases, you'll also need the IO-Socket-SSL Perl module to use TLS functionnality.

If you want samba to call the scripts so that you can use the User Manager (or any other) under MS-Windows (to add, delete modify users and groups), Samba must be installed on the same computer. Finally, OpenLDAP can be installed on any computer. Please check that it can be contacted by a standard LDAP client software.

Samba and OpenLDAP installations will not be discussed here. You can consult the howto also available on the project page (http://samba.IDEALX.org). Altought is has been written for Samba2, most of its content still apply to Samba3. The main difference stands in LDAP schema's definitions.

2.2 Installation

An archive of the smbldap-tools scripts can be downloaded on our project page http://samba.IDEALX.org/. Archive and RedHat packages are available.

If you are upgrading, look at the INSTALL file or read the link 6.13.

2.2.1 Installing from rpm

To install the scripts on a RedHat system, download the RPM package and run the following command:

```
rpm -Uvh smbldap-tools-0.8.5-1.i386.rpm
```

2.2.2 Installing from a tarball

On non RedHat system, download a source archive of the scripts. The current archive is smbldap-tools-0.8.5.tar.gz. Uncompress it and copy all of the Perl scripts in /usr/local/sbin directory, and the two configuration files in /etc/opt/IDEALX/smbldap-tools/ directory:

```
mkdir /etc/opt/IDEALX/smbldap-tools/
cp *.conf /etc/opt/IDEALX/smbldap-tools/
cp smbldap-* /usr/local/sbin/
```

The configuration is now based on two differents files:

• smbldap.conf: define global parameter

• smbldap_bind.conf: define an administrative account to bind to the directory

The second file **must** be readable only for 'root', as it contains credentials allowing modifications on all the directory. Make sure the files are protected by running the following commands:

```
chmod 644 /etc/opt/IDEALX/smbldap-tools/smbldap.conf
chmod 600 /etc/opt/IDEALX/smbldap-tools/smbldap_bind.conf
```

3 Configuring the smbldap-tools

As mentioned in the previous section, you'll have to update two configuration files. The first (smbldap.conf) allows you to set global parameter that are readable by everybody, and the second (smbldap_bind.conf) defines two administrative accounts to bind to a slave and a master ldap server: this file must thus be readable only by root.

A script is named configure.pl can help you to set their contents up. It is located in the tarball downloaded or in the documentation directory if you got the RPM archive (see /usr/share/doc/smbldap-tools/). Just invoke it:

```
/usr/share/doc/smbldap-tools/configure.pl
```

It will ask for the default values defined in your smb.conf file, and will update the two configuration files used by the scripts. Note that you can stop the script at any moment with the Crtl-c keys.

Before using this script:

- the two configuration files must be present in the /etc/opt/IDEALX/smbldap-tools/ directory
- check that samba is configured and running, as the script will try to get your workgroup's domain secure id (SID).

In those files are parameters are defined like this:

```
key="value"
```

Full example configuration files can be found at 8.1.

3.1 The smbldap.conf file

This file is used to define parameters that can be readable by everybody. A full example file is available in section 8.1.1.

Let's have a look at all available parameters.

- UID_START and GID_START: those parameters are deprecated. Available uid and gid are now defined in the default new entry cn=NextFreeUnixId,dc=idealx,dc=org.
- SID : Secure Identifier Domain
 - Example: SID="S-1-5-21-3703471949-3718591838-2324585696"
 - Remark: you can get the SID for your domain using the net getlocalsid command. Samba must be up and running for this to work (it can take several minutes for a Samba server to correctly negotiate its status with other network servers).
- slaveLDAP : slave LDAP server
 - Example: slaveLDAP="127.0.0.1"
 - Remark: must be a resolvable DNS name or it's IP address
- slavePort : port to contact the slave server
 - Example: slavePort="389"
- masterLDAP : master LDAP server
 - Example: masterLDAP="127.0.0.1"
- masterPort : port to contact the master server
 - Example: masterPort="389"
- ldapTLS : should we use TLS connection to contact the ldap servers ?
 - Example: ldapTLS="1"
 - Remark: the LDAP severs must be configured to accept TLS connections. See section the Samba-LDAP Howto for more details (http://samba.idealx.org/ smbldap-howto.fr.html). If you are using TLS support, select port 389 to connect to the master and slave directories.
- verify: How to verify the server's certificate (none, optional or require). See "man Net::LDAP" in start_tls section for more details
 - Example: verify="require"
- cafile: the PEM-format file containing certificates for the CA that slapd will trust
 - Example: cafile="/etc/opt/IDEALX/smbldap-tools/ca.pem"
- clientcert: the file that contains the client certificate
 - Example: clientcert="/etc/opt/IDEALX/smbldap-tools/smbldap-tools.iallanis.com.pem
- clientkey: the file that contains the private key that matches the certificate stored in the clientcert file
 - Example: clientkey="/etc/opt/IDEALX/smbldap-tools/smbldap-tools.iallanis.com.key"

- suffix: The distinguished name of the search base
 - Example: suffix="dc=idealx,dc=com"
- usersdn: branch in which users account can be found or must be added
 - Example: usersdn="ou=Users,\${suffix}"
 - Remark: this branch is **not** relative to the suffix value
- computersdn: branch in which computers account can be found or must be added
 - Example: computersdn"ou=Computers,\${suffix}"
 - Remark: this branch is **not** relative to the suffix value
- groupsdn: branch in which groups account can be found or must be added
 - Example: groupsdn="ou=Groups,\${suffix}"
 - Remarks: this branch is **not** relative to the suffix value
- idmapdn: where are stored Idmap entries (used if samba is a domain member server)
 - Example: idmapdn="ou=Idmap,\${suffix}"
 - Remarks: this branch is **not** relative to the suffix value
- sambaUnixIdPooldn : object in which next uidNumber and gidNumber available are stored
 - Example: sambaUnixIdPooldn="cn=NextFreeUnixId,\${suffix}"
 - Remarks: this branch is **not** relative to the suffix value
- scope: the search scope.
 - Example: scope="sub"
- hash_encrypt: hash to be used when generating a user password.
 - Example: hash_encrypt="SSHA"
 - Remark: This is used for the unix password stored in userPassword attribute.
- crypt_salt_format="%s": if hash_encrypt is set to CRYPT, you may set a salt format. Default is "%s", but many systems will generate MD5 hashed passwords if you use "\$1\$%.8s". This parameter is optional.
- userLoginShell: default shell given to users.
 - Example: userLoginShell="/bin/bash"
 - Remark: This is stored in *loginShell* attribute.
- userHome : default directory where users's home directory are located.
 - Example: userHome="/home/%U"
 - Remark: This is stored in homeDirectory attribute.

- userGecos: gecos used for users
 - Example: userGecos="System User"
- defaultUserGid : default primary group set to users accounts
 - Example: defaultUserGid="513"
 - Remark: this is stored in *qidNumber* attribute.
- defaultComputerGid : default primary group set to computers accounts
 - Example: defaultComputerGid="550"
 - Remark: this is stored in *gidNumber* attribute.
- skeletonDir: skeleton directory used for users accounts
 - Example: skeletonDir="/etc/skel"
 - Remark: this option is used only if you ask for home directory creation when adding a new user.
- defaultMaxPasswordAge : default validation time for a password (in days)
 - Example: defaultMaxPassword="55"
- userSmbHome: samba share used to store user's home directory
 - Example: userSmbHome=" \PDC -SMB3 \home %U"
 - Remark: this is stored in sambaHomePath attribute.
- userProfile : samba share used to store user's profile
 - Example: userProfile="\\PDC-SMB3\profiles\%U"
 - Remark: this is stored in sambaProfilePath attribute.
- ullet userScript : default user netlogon script name. If not used, will be automatically username.cmd
 - Example: userScript="%U"
 - Remark: this is stored in sambaProfilePath attribute.
- userHomeDrive : letter used on windows system to map the home directory
 - Example: userHomeDrive="K:"
- with_smbpasswd : should we use the *smbpasswd* command to set the user's password (instead of the *mkntpwd* utility) ?
 - Example: with_smbpasswd="0"
 - Remark: must be a boolean value (0 or 1).
- smbpasswd: path to the smbpasswd binary

- Example: smbpasswd="/usr/bin/smbpasswd"
- mk_ntpasswd: path to the mkntpwd binary
 - Example: mk_ntpasswd="/usr/local/sbin/mkntpwd"
 - Remark: the rpm package of the smbldap-tools will install this utility. If you are
 using the tarball archive, you have to install it yourself (sources are also in the
 smbldap-tools archive).
- mailDomain: Domain appended to the users "mail" attribute.
 - Example: mailDomain="idealx.org"

3.2 The smbldap_bind.conf file

This file is only used by *root* to modify the content of the directory. It contains distinguised names and credentials to connect to both the master and slave directories. A full example file is available in section 8.1.2.

Let's have a look at all available parameters.

- slaveDN: distinguished name used to bind to the slave server
 - Example 1: slaveDN="cn=Manager,dc=idealx,dc=com"
 - Example 2: slaveDN=""
 - Remark: this can be the manager account of the directory or any LDAP account
 that has sufficient permissions to read the full directory (Slave directory is only
 used for reading). Anonymous connections uses the second example form.
- slavePw: the credentials to bind to the slave server
 - Example 1: slavePw="secret"
 - Example 2: slavePw=""
 - Remark: the password must be stored here in clear form. This file must then be readable only by root! All anonymous connections use the second form provided in our example.
- masterDN: the distinguished name used to bind to the master server
 - Example: masterDN="cn=Manager,dc=idealx,dc=com"
 - Remark: this can be the manager account of the directory or any LDAP account
 that has enough permissions to modify the content of the directory. Anonymous
 access does not make any sense here.
- masterPw: the credentials to bind to the master server
 - Example: masterPw="secret"
 - Remark: the password must be in clear text. Be sure to protect this file against unauthorized readers!

4 Using the scripts

4.1 Initial directory's population

You can initialize the LDAP directory using the smbldap-populate script. To do that, the account defined in the /etc/opt/IDEALX/smbldap-tools/smbldap_bind.conf to access the master directory must must be the manager account defined in the directory configuration. On RedHat system, this file is /etc/openldap/slapd.conf and the account is defined with

```
1 rootdn "cn=Manager,dc=idealx,dc=com"
2 rootpw secret
```

The smbldap_bind.conf file must then be configured so that the parameters to connect to the master LDAP server match the previous ones:

```
masterDN="cn=Manager,dc=idealx,dc=com"
masterPw="secret"
```

Available options for this script are summarized in the table 1:

| option | definition | default value |
|--------------|-----------------------------|---------------|
| -u uidNumber | first uidNumber to allocate | 1000 |
| -g gidNumber | first uidNumber to allocate | 1000 |
| -a user | administrator login name | Administrator |
| -b user | guest login name | nobody |
| -e file | export a init file | |
| -i file | import a init file | |

Table 1: Options available for the smbldap-populate script

In the more general case, to set up your directory, simply use the following command:

```
[root@etoile root]# smbldap-populate
Using builtin directory structure
adding new entry: dc=idealx,dc=com
adding new entry: ou=Users,dc=idealx,dc=com
adding new entry: ou=Groups,dc=idealx,dc=com
adding new entry: ou=Computers,dc=idealx,dc=com
adding new entry: ou=Idmap,dc=idealx,dc=org
adding new entry: cn=NextFreeUnixId,dc=idealx,dc=org
adding new entry: uid=Administrator,ou=Users,dc=idealx,dc=com
adding new entry: uid=nobody,ou=Users,dc=idealx,dc=com
adding new entry: cn=Domain Admins,ou=Groups,dc=idealx,dc=com
adding new entry: cn=Domain Users,ou=Groups,dc=idealx,dc=com
adding new entry: cn=Domain Guests,ou=Groups,dc=idealx,dc=com
adding new entry: cn=Print Operators,ou=Groups,dc=idealx,dc=com
```

```
adding new entry: cn=Backup Operators,ou=Groups,dc=idealx,dc=com adding new entry: cn=Replicator,ou=Groups,dc=idealx,dc=com adding new entry: cn=Domain Computers,ou=Groups,dc=idealx,dc=com
```

After this step, if you don't want to use the cn=Manager,dc=idealx,dc=com account anymore, you can create a dedicated account for Samba and the smbldap-tools. See section 8.2 for more details.

The cn=NextFreeUnixId,dc=idealx,dc=org entry is only used to defined the next uidNumber and gidNumber available for creating new users and groups. The default values for those numbers are 1000. You can change it with the -u and -g option. For example, if you want the first available value for uidNumber and gidNumber to be set to 1500, you can use the following command:

```
smbldap-populate -u 1550 -g 1500
```

4.2 User management

4.2.1 Adding a user

To add a user, use the smbldap-useradd script. Available options are summarized in the table 2. If applicable, default values are mentionned in the third column. Any string beginning with a \$ symbol refers to a parameter defined in the /etc/opt/IDEALX/smbldap-tools/smbldap.conf configuration file.

For example, if you want to add a user named *user_admin* and who:

- is a windows user
- must belong to the group of gid=512 ('Domain Admins' group)
- has a home directory
- does not have a login shell
- has a homeDirectory set to /dev/null
- does not have a roaming profile
- and for whom we want to set a first login password

you must invoke:

```
smbldap-useradd -a -G 512 -m -s /bin/false -d /dev/null -F "" -P user_admin
```

| option | definition | example | default value |
|--------|---------------------------------------|------------------------|-----------------------|
| -a | create a Windows account. Other- | | |
| | wise, only a Posix account is created | | |
| -w | create a Windows Workstation ac- | | |
| | count | | |
| -i | create an interdomain trust account. | | |
| | See section 4.4 for more details | | |
| -u | set a uid value | -u 1003 | first uid available |
| -g | set a gid value | -g 1003 | first gid available |
| -G | add the new account to one or sev- | -G 512,550 | |
| | eral supplementary groups (comma- | | |
| | separated) | | |
| -d | set the home directory | -d /var/user | \$userHomePrefix/user |
| -s | set the login shell | -s /bin/ksh | \$userLoginShell |
| -c | set the user gecos | -c "admin user" | \$userGecos |
| -m | creates user's home directory and | | |
| | copies /etc/skel into it | | |
| -k | set the skeleton dir (with -m) | -k /etc/skel2 | \$skeletonDir |
| -P | ends by invoking smbldap-passwd to | | |
| | set the user's password | | |
| -A | user can change password? 0 if no, | -A 1 | |
| | 1 if yes | | |
| -B | user must change password at first | -B 1 | |
| | session? 0 if no, 1 if yes | | |
| -C | set the samba home share | -C \\PDC\homes | \$userSmbHome |
| -D | set a letter associated with the home | -D H: | \$userHomeDrive |
| | share | | |
| -E | set DOS script to execute on login | -E common.bat | \$userScript |
| -F | set the profile directory | -F \\PDC\profiles\user | \$userProfile |
| -H | set the samba account control bits | -H [X] | |
| | like'[NDHTUMWSLKI]' | | |
| -N | set the canonical name of the user | | |
| -S | set the surname of the user | | |
| -M | local mailAddress (comma seper- | -M testuser, aliasuser | |
| | ated) | | |
| -T | forward mail address (comma seper- | -T testuser@domain.org | |
| | ated) | | |

Table 2: Options available to the smbldap-useradd script

| option | definition |
|--------|-------------------------------------|
| -r | remove home directory |
| -R | remove home directory interactively |

Table 3: Option available to the smbldap-userdel script

4.2.2 Removing a user

To remove a user account, use the smbldap-userdel script. Available options are

For example, if you want to remove the *user1* account from the LDAP directory, and if you also want to delete his home directory, use the following command:

```
smbldap-userdel -r user1
```

Note: '-r' is dangerous as it may delete precious and unbackuped data, please be careful.

4.2.3 Modifying a user

To modify a user account, use the smbldap-usermod script. Availables options are listed in the table 4. You can also use the smbldap-userinfo script to update user's information. This script can also be used by users themselves to update their own informations listed in the tables 5 (adequats ACL must be set in the directory server). Available options are:

4.3 Group management

4.3.1 Adding a group

To add a new group in the LDAP directory, use the smbldap-groupadd script. Available options are listed in the table 6.

4.3.2 Removing a group

To remove the group named group1, just use the following command:

```
smbldap-userdel group1
```

4.4 Adding a interdomain trust account

To add an interdomain trust account to the primary controller trust-pdc, use the -i option of smbldap-useradd as follows:

```
[root@etoile root]# smbldap-useradd -i trust-pdc
New password : ******
Retype new password : *******
```

The script will terminate asking for a password for this trust account. The account will be created in the directory branch where all computer accounts are stored (ou=Computers by default). The only two particularities of this account are that you are setting a password for this account, and the flags of this account are [I].

| option | definition | example |
|---|---|------------------------|
| -c | set the user gecos | -c "admin user" |
| -d | set the home directory | -d /var/user |
| -u | set a uid value | -u 1003 |
| -g | set a gid value | -g 1003 |
| -G | add the new account to one or several supple- | -G 512,550 |
| | mentary groups (comma-separated) | |
| | | -G -512,550 |
| | | -G + 512,550 |
| -s | set the login shell | -s /bin/ksh |
| -N | set the canonical name of the user | |
| -S | set the surname of the user | |
| -P | ends by invoking smbldap-passwd to set the | |
| | user's password | |
| -a | add sambaSAMAccount objectclass | |
| -e set an expiration date for the password (forma | | |
| | YYYY-MM-DD HH:MM:SS) | |
| -A | user can change password? 0 if no, 1 if yes | -A 1 |
| -B | user must change password at first session? 0 | -B 1 |
| | if no, 1 if yes | |
| -C | set the samba home share | -C \\PDC\homes |
| | | -C "" |
| -D | set a letter associated with the home share | -D H: |
| | | -D "" |
| -E | set DOS script to execute on login | -E common.bat |
| | | -E "" |
| -F | set the profile directory | -F \\PDC\profiles\user |
| | | -F "" |
| -H | set the samba account control bits | -H [X] |
| | like'[NDHTUMWSLKI]' | |
| -I | disable a user account | -I 1 |
| -J | enable a user | -J 1 |
| -M | local mailAddress (comma seperated) | -M testuser,aliasuser |
| -T | forward mail address (comma seperated) | -T testuser@domain.org |

Table 4: Options available to the smbldap-usermod script

| option | definition | example |
|--------|---|-------------------|
| -f | set the full name's user | -f MyName |
| -r | set the room number | -r 99 |
| -w | set the work phone number | -w 111111111 |
| -h | set the home phone number | -h 22222222 |
| -O | set other information (in gecos definition) | -o "second stage" |
| -s | set the default bash | -s /bin/ksh |

Table 5: Options available to the smbldap-userinfo script

| option | definition | example |
|---------------|---|---|
| -a | add automatic group mapping entry | |
| -g gid | set the <i>gidNumer</i> for this group to | -g 1002 |
| | $\mid gid \mid$ | |
| -O | gidNumber is not unique | |
| -r group-rid | set the rid of the group to group-rid | -r 1002 |
| -s group-sid | set the sid of the group to group-sid | -s S-1-5-21-3703471949-3718591838-2324585696-1002 |
| -t group-type | set the $sambaGroupType$ to $group$ - | -t 2 |
| | type | |
| -p | print the gidNumber to stdout | |

Table 6: Options available for the smbldap-groupadd script

5 Samba and the smbldap-tools scripts

5.1 General configuration

Samba can be configured to use the smbldap-tools scripts. This allows administrators to add, delete or modify user and group accounts for Microsoft Windows operating systems using, for example, User Manager utility under MS-Windows. To enable the use of this utility, samba needs to be configured correctly. The smb.conf configuration file must contain the following directives:

```
ldap delete dn = Yes
add user script = /usr/local/sbin/smbldap-useradd -m "%u"
add machine script = /usr/local/sbin/smbldap-useradd -w "%u"
add group script = /usr/local/sbin/smbldap-groupadd -p "%g"
add user to group script = /usr/local/sbin/smbldap-groupmod -m "%u" "%g"
delete user from group script = /usr/local/sbin/smbldap-groupmod -x "%u" "%g"
set primary group script = /usr/local/sbin/smbldap-usermod -g "%g" "%u"
```

Remark: the two directives delete user script et delete group script can also be used. However, an error message can appear in User Manager even if the operations actually succeed. If you want to enable this behaviour, you need to add

```
delete user script = /usr/local/sbin/smbldap-userdel "%u"
delete group script = /usr/local/sbin/smbldap-groupdel "%g"
```

5.2 Migrating an NT4 PDC to Samba3

The account migration procedure becomes really simple when samba is configured to use the smbldap-tools. Samba configuration (smb.conf file) must contain the directive defined above to properly call the script for managing users, groups and computer accounts. The migration process is outlined in the chapter 30 of the samba howto http://sambafr.idealx.org/samba/docs/man/Samba-HOWTO-Collection/NT4Migration.html.

6 Frequently Asked Questions

6.1 How can i use old released uidNumber and gidNumber?

There are two way to do this:

• modify the cn=NextFreeUnixId,dc=idealx,dc=org and change the uidNumber and/or gidNumber value. This must be done manually. For example, if you want to use all available uidNumber and gidNumber higher then 1500, you need to create a update-NextFreeUnixId.ldif file containing:

```
dn: cn=NextFreeUnixId,dc=idealx,dc=org
changetype: modify
uidNumber: 1500
gidNumber: 1500
and then update the directory:
```

ldapmodify -x -D "cn=Manager,dc=idealx,dc=org" -w secret -f update-NextFreeUnixId.ldi

• use the -u or -g option to the script you need to set the value you want to use

6.2 I always have this error: "Can't locate IO/Socket/SSL.pm"

This happens when you want to use a certificate. In this case, you need to install the IO-Socket-SSL Perl module.

6.3 I can't initialize the directory with smbldap-populate

When I want to initialize the directory using the smbldap-populate script, I get

```
[root@slave sbin]# smbldap-populate.pl
  Using builtin directory structure
  adding new entry: dc=IDEALX,dc=COM
  Can't call method "code" without a package or object reference at
  /usr/local/sbin/smbldap-populate.pl line 270, <GEN1> line 2.
```

Answer: check the TLS configuration

• if you don't want to use TLS support, set the /etc/opt/IDEALX/smbldap-tools/smbldap.conf file with

```
ldapSSL="0"
```

• if you want TLS support, set the /etc/opt/IDEALX/smbldap-tools/smbldap.conf file with

```
ldapSSL="1"
```

and check that the directory server is configured to accept TLS connections.

6.4 I can't join the domain with the root account

- check that the root account has the sambaSamAccount objectclass
- check that the directive add machine script is present and configured

6.5 I have the sambaSamAccount but i can't logged in

Check that the sambaPwdLastSet attribute is not null (equal to 0)

6.6 I want to create machine account on the fly, but it does not works or I must do it twice

- The script defined with the add machine script must not add the sambaSAMAccount objectclass of the machine account. The script must only add the Posix machine account. Samba will add the sambaSAMAccount when joining the domain.
- Check that the add machine script is present in samba configuration file.

6.7 I can't manage the Oracle Internet Database

If you have an error message like:

- Function Not Implemented at /usr/local/sbin/smbldap_tools.pm line 187.
- 2 Function Not Implemented at /usr/local/sbin/smbldap_tools.pm line 627.

For Oracle Database, all attributes that will be resquested to the directory must be indexed. Add a new index for samba attributes and make sure that the following attributes are also indexed: uidNumber, gidNumber, memberUid, homedirectory, description, userPassword ...

6.8 The directive passwd program = /usr/local/sbin/smbldap-passwd -u %u is not called, or i got a error message when changing the password from windows

The directive is called if you also set unix password sync = Yes. Notes:

- if you use OpenLDAP, none of those two options are needed. You just need ldap passwd sync = Yes.
- the script called here must only update the userPassword attribute. This is the reason of the -u option. Samba passwords will be updated by samba itself.
- the passwd chat directive must match what is prompted when using the smbldap-passwd command

6.9 New computers account can't be set in ou=computers

This is a known samba bug. There's a workarround: look at http://marc.theaimsgroup.com/?l=samba&m=108439612826440&w=2

6.10 I can join the domain, but i can't log on

look at section 6.9

6.11 I can't create a user with smbldap-useradd

When creating a new user account I get the following error message:

/usr/local/sbin/smbldap-useradd.pl: unknown group SID not set for unix group 513

Answer:

- is nss_ldap correctly configured?
- is the default group's users mapped to the 'Domain Users' NT group?

net groupmap add rid=513 unixgroup="Domain Users" ntgroup="Domain Users"

6.12 smbldap-useradd: Can't call method "get_value" on an undefined value at /usr/local/sbin/smbldap-useradd line 154

- does the default group defined in smbldap.conf exist (defaultUserGid="513")?
- does the NT "Domain Users" group mapped to a unix group of rid 513 (see option -r of smbldap-groupadd and smbldap-groupmod to set a rid)?

6.13 Typical errors on creating a new user or a new group

• i've got the following error:

Could not find base dn, to get next uidNumber at /usr/local/sbin//smbldap_tools.pm li

- 1. you do not have created the object to defined the next uidNumber and gidNumber available.
 - for version 0.8.7: you can just run the smbldap-populate script that will update the sambaDomain entry to store those informations
 - for version before 0.8.7: You have updated the smbldap-tools to version 0.8.5 or newer. You have to do this manually. Create an file called add.ldif and containing

dn: cn=NextFreeUnixId,dc=idealx,dc=org

objectClass: inetOrgPerson
objectClass: sambaUnixIdPool

uidNumber: 1000 gidNumber: 1000 cn: NextFreeUnixId sn: NextFreeUnixId

and then add the object with the ldapadd utility:

- \$ ldapadd -x -D "cn=Manager,dc=idealx,dc=org" -w secret -f add.ldif Here, 1000 is the first available value for uidNumber and gidNumber (of course, if this value is already used by a user or a group, the first available after 1000 will be used).
- 2. The error also appear when there is a need for TLS (ldapTLS=1 in smbldap.conf) and something is wrong with certificate naming or path settings.
- i've got the following error:

```
Use of uninitialized value in string at /usr/local/sbin//smbldap\_tools.pm line 914.

Error: No DN specified at /usr/local/sbin//smbldap\_tools.pm line 919
```

You have not updated the configuration file to defined the object where are sotred the next uidNumber and gidNumber available. In our example, you have to add a nex entry in /etc/opt/IDEALX/smbldap-tools/smbldap.conf containing:

Where to store next uidNumber and gidNumber available sambaUnixIdPooldn="cn=NextFreeUnixId,\${suffix}"

btw, a new option is now available too: the domain to append to users. You can add to the configuration file the following lines:

```
# Domain appended to the users "mail"-attribute
```

[#] when smbldap-useradd -M is used mailDomain="idealx.com"

• i've got the following error:

Use of uninitialized value in concatenation (.) or string at /usr/local/sbin/smbldap-Use of uninitialized value in substitution (s///) at /usr/local/sbin/smbldap-useradd Use of uninitialized value in string at /usr/local/sbin/smbldap-useradd line 264. failed to add entry: homedirectory: value #0 invalid per syntax at /usr/local/sbin/smuserHomeDirectory=User "jto" already member of the group "513". failed to add entry: No such object at /usr/local/sbin/smbldap-useradd line 382.

you have to change the variable name ${\tt userHomePrefix}$ to ${\tt userHome}$ in /etc/opt/IDEALX/smbldaptools/smbldap.conf

• i've got the following error:

```
failed to add entry: referral missing at /usr/local/sbin/smbldap-useradd line 279, <D
```

you have to update the configuration file that defined users, groups and computers dn. Those parameters must not be relative to the **suffix** parameter. A typical configuration look like this:

```
usersdn="ou=Users,${suffix}"
computersdn="ou=Computers,${suffix}"
groupsdn="ou=Groups,${suffix}"
```

• i've got the following error:

```
erreur LDAP: Can't contact master ldap server (IO::Socket::INET: Bad protocol 'tcp') at /usr/local/sbin//smbldap_tools.pm line 153.
```

remove *ldap* from /etc/nsswitch.conf for services list of possible check. For example, if your ldap directory is not configured to give services information, you must have

```
services files
and not
```

ldap [NOTFOUND=return] files

7 Thanks

services:

People who have worked on this document are

- Jérôme Tournier < jerome.tournier@IDEALX.com>
- David Barth <david.barth@IDEALX.com>
- Nat Makarevitch <nat@IDEALX.com>

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 - Aurelien Degremont <adegreemont@IDEALX.com>
 - Renaud Renard <rrenard@IDEALX.com>
- John H Terpstra <jht@samba.org>

8 Annexes

8.1 Full configuration files

8.1.1 The /etc/opt/IDEALX/smbldap-tools/smbldap.conf file

```
# $Source: /opt/cvs/samba/smbldap-tools/smbldap.conf,v $
1
2
    # $Id: smbldap.conf,v 1.17 2005/01/29 15:00:54 jtournier Exp $
    \mbox{\tt\#} smbldap-tools.conf : Q & D configuration file for smbldap-tools
4
   # This code was developed by IDEALX (http://IDEALX.org/) and
6
   # contributors (their names can be found in the CONTRIBUTORS file).
7
                    Copyright (C) 2001-2002 IDEALX
9
10
11
    # This program is free software; you can redistribute it and/or
   \mbox{\tt\#} modify it under the terms of the GNU General Public License
12
    \# as published by the Free Software Foundation; either version 2
   # of the License, or (at your option) any later version.
14
15
    # This program is distributed in the hope that it will be useful,
16
   # but WITHOUT ANY WARRANTY; without even the implied warranty of
17
18
   # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    # GNU General Public License for more details.
20
    # You should have received a copy of the GNU General Public License
21
   # along with this program; if not, write to the Free Software
   # Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307,
23
24
    # USA.
25
26
   # Purpose:
           . be the configuration file for all smbldap-tools scripts
27
28
    30
    # General Configuration
31
32
   33
    # Put your own SID
35
    # to obtain this number do: net getlocalsid
36
   SID="S-1-5-21-2139989288-483860436-2398042574"
```

```
38
39
    40
41
    # LDAP Configuration
42
    43
44
    # Notes: to use to dual ldap servers backend for Samba, you must patch
45
    # Samba with the dual-head patch from IDEALX. If not using this patch
46
    # just use the same server for slaveLDAP and masterLDAP.
    # Those two servers declarations can also be used when you have
48
    \ensuremath{\text{\#}} . one master LDAP server where all writing operations must be done
49
    # . one slave LDAP server where all reading operations must be done
    # (typically a replication directory)
51
    # Ex: slaveLDAP=127.0.0.1
53
    slaveLDAP="127.0.0.1"
54
    slavePort="389"
55
57
    # Master LDAP : needed for write operations
    # Ex: masterLDAP=127.0.0.1
    masterLDAP="127.0.0.1"
59
    masterPort="389"
60
61
    # Use TLS for LDAP
62
    # If set to 1, this option will use start_tls for connection
64
    # (you should also used the port 389)
    ldapTLS="0"
65
    # How to verify the server's certificate (none, optional or require)
67
    # see "man Net::LDAP" in start_tls section for more details
68
    verify="require"
70
71
    # CA certificate
    # see "man Net::LDAP" in start_tls section for more details
    cafile="/etc/smbldap-tools/ca.pem"
73
    # certificate to use to connect to the ldap server
75
    # see "man Net::LDAP" in start_tls section for more details
76
    clientcert="/etc/smbldap-tools/smbldap-tools.pem"
78
    # key certificate to use to connect to the ldap server
80
    # see "man Net::LDAP" in start_tls section for more details
    clientkey="/etc/smbldap-tools/smbldap-tools.key"
81
    # LDAP Suffix
83
    # Ex: suffix=dc=IDEALX,dc=ORG
84
    suffix="dc=idealx,dc=org"
86
87
    # Where are stored Users
    # Ex: usersdn="ou=Users,dc=IDEALX,dc=ORG"
    usersdn="ou=Users,${suffix}"
89
    # Where are stored Computers
91
    # Ex: computersdn="ou=Computers,dc=IDEALX,dc=ORG"
92
    computersdn="ou=Computers,${suffix}"
93
94
95
    # Where are stored Groups
    # Ex groupsdn="ou=Groups,dc=IDEALX,dc=ORG"
96
    groupsdn="ou=Groups,${suffix}"
97
99
    # Where are stored Idmap entries (used if samba is a domain member server)
    # Ex groupsdn="ou=Idmap,dc=IDEALX,dc=ORG"
100
101
     idmapdn="ou=Idmap,${suffix}"
102
103
    # Where to store next uidNumber and gidNumber available
```

```
sambaUnixIdPooldn="sambaDomainName=SMB3,${suffix}"
104
105
106
    # Default scope Used
107
    scope="sub"
108
    # Unix password encryption (CRYPT, MD5, SMD5, SSHA, SHA, CLEARTEXT)
109
110
    hash_encrypt="SSHA"
111
    # if hash_encrypt is set to CRYPT, you may set a salt format.
112
    # default is "%s", but many systems will generate MD5 hashed
113
    # passwords if you use "$1$%.8s". This parameter is optional!
114
    crypt_salt_format="%s"
115
116
    117
118
119
    # Unix Accounts Configuration
120
    121
122
123
    # Login defs
    # Default Login Shell
    # Ex: userLoginShell="/bin/bash"
125
    userLoginShell="/bin/bash"
126
127
    # Home directory
128
129
    # Ex: userHome="/home/%U"
130
    userHome="/home/%U"
131
    # Gecos
132
    userGecos="System User"
133
134
    # Default User (POSIX and Samba) GID
135
    defaultUserGid="513"
136
137
    # Default Computer (Samba) GID
138
    defaultComputerGid="515"
139
140
    # Skel dir
141
    skeletonDir="/etc/skel"
142
    # Default password validation time (time in days) Comment the next line if
144
    \mbox{\tt\#} you don't want password to be enable for defaultMaxPasswordAge days (be
145
    # careful to the sambaPwdMustChange attribute's value)
146
    defaultMaxPasswordAge="99"
147
    149
150
151
    # SAMBA Configuration
152
153
    154
155
    # The UNC path to home drives location (%U username substitution)
    # Ex: \\My-PDC-netbios-name\homes\%U
    # Just set it to a null string if you want to use the smb.conf 'logon home'
157
158
    # directive and/or disable roaming profiles
    \verb"userSmbHome="\PDC-SMB3\homes\""
160
    # The UNC path to profiles locations (%U username substitution)
161
162
    # Ex: \\My-PDC-netbios-name\profiles\%U
    # Just set it to a null string if you want to use the smb.conf 'logon path'
    # directive and/or disable roaming profiles
    userProfile="\\PDC-SMB3\profiles\%U
165
166
   # The default Home Drive Letter mapping
    # (will be automatically mapped at logon time if home directory exist)
168
169
    # Ex: H: for H:
```

```
userHomeDrive="H:"
170
171
172
    # The default user netlogon script name (%U username substitution)
   # if not used, will be automatically username.cmd
173
174
    # make sure script file is edited under dos
   # Ex: %U.cmd
175
176
    # userScript="startup.cmd" # make sure script file is edited under dos
    userScript="%U.cmd"
177
178
    # Domain appended to the users "mail"-attribute
179
    # when smbldap-useradd -M is used
180
    mailDomain="idealx.com"
181
182
    183
184
185
    # SMBLDAP-TOOLS Configuration (default are ok for a RedHat)
186
    187
188
189
    # Allows not to use smbpasswd (if with_smbpasswd == 0 in smbldap_conf.pm) but
    # prefer Crypt::SmbHash library
    with_smbpasswd="0"
191
    smbpasswd="/usr/bin/smbpasswd"
192
193
    # Allows not to use slappasswd (if with_slappasswd == 0 in smbldap_conf.pm)
194
195
    # but prefer Crypt:: libraries
196
    with_slappasswd="0"
    slappasswd="/usr/sbin/slappasswd"
197
```

8.1.2 The /etc/opt/IDEALX/smbldap-tools/smbldap_bind.conf file

8.1.3 The samba configuration file: /etc/samba/smb.conf

```
1
    # Global parameters
2
    [global]
            workgroup = IDEALX-NT
            netbios name = PDC-SRV
4
5
            #interfaces = 192.168.5.11
            username map = /etc/samba/smbusers
            enable privileges = yes
            server string = Samba Server %v
9
            security = user
            encrypt passwords = Yes
10
            min passwd length = 3
            obey pam restrictions = No
12
13
            ldap passwd sync = Yes
            #unix password sync = Yes
            \verb|#passwd program = /opt/IDEALX/sbin/smbldap-passwd -u \%u
15
```

```
#passwd chat = "Changing password for*\nNew password*" %n\n "*Retype new password*" %n\n"
16
17
                     ldap passwd sync = Yes
                    log level = 0
18
19
                    syslog = 0
20
                    log file = /var/log/samba/log.%m
                    max log size = 100000
21
22
                    time server = Yes
                    socket options = TCP_NODELAY SO_RCVBUF=8192 SO_SNDBUF=8192
23
                    mangling method = hash2
24
                    Dos charset = 850
25
26
                    Unix charset = ISO8859-1
27
                    logon script = logon.bat
                    logon drive = H:
29
30
                    logon home =
31
                    logon path =
32
33
                    domain logons = Yes
                    os level = 65
34
35
                    preferred master = Yes
                    domain master = Yes
                    wins support = Yes
37
38
                    passdb backend = ldapsam:ldap://127.0.0.1/
39
                    # passdb backend = ldapsam:"ldap://127.0.0.1/ ldap://slave.idealx.com"
                     \begin{tabular}{ll} \# \ ldap \ filter = (\& (objectclass=sambaSamAccount)(uid=\%u)) \\ \end{tabular} 
40
41
                    ldap admin dn = uid=samba,ou=Users,dc=idealx,dc=com
42
                    ldap suffix = dc=idealx,dc=com
43
                    ldap group suffix = ou=Groups
                     ldap user suffix = ou=Users
44
                     ldap machine suffix = ou=Computers
45
46
                    ldap idmap suffix = ou=Users
47
                    ldap ssl = start tls
                     add user script = /opt/IDEALX/sbin/smbldap-useradd -m "%u"
48
49
                    ldap delete dn = Yes
                     #delete user script = /opt/IDEALX/sbin/smbldap-userdel "%u"
50
                     add machine script = /opt/IDEALX/sbin/smbldap-useradd -w "%u"
51
                     add group script = /opt/IDEALX/sbin/smbldap-groupadd -p "%g"
                    #delete group script = /opt/IDEALX/sbin/smbldap-groupdel "%g"
53
                     add user to group script = /opt/IDEALX/sbin/smbldap-groupmod -m "u" "
54
                    delete user from group script = /opt/IDEALX/sbin/smbldap-groupmod -x "%u" "%g"
55
                    set primary group script = /opt/IDEALX/sbin/smbldap-usermod -g "%g" "%u"
56
57
                    # printers configuration
58
                    printer admin = @"Print Operators"
59
                    load printers = Yes
                    create mask = 0640
61
62
                    directory mask = 0750
                    nt acl support = No
63
                    printing = cups
64
65
                    printcap name = cups
                    deadtime = 10
66
                    guest account = nobody
67
                    map to guest = Bad User
                    dont descend = /proc,/dev,/etc,/lib,/lost+found,/initrd
69
70
                    show add printer wizard = yes
71
                     ; to maintain capital letters in shortcuts in any of the profile folders:
                    preserve case = yes
72
73
                    short preserve case = yes
74
                    case sensitive = no
75
       [homes]
76
77
                    comment = repertoire de %U, %u
78
                    read only = No
                    create mask = 0644
                    directory mask = 0775
80
81
                    browseable = No
```

```
82
 83
     [netlogon]
             path = /home/netlogon/
84
             browseable = No
 85
86
             read only = yes
87
 88
     [profiles]
             path = /home/profiles
 89
             read only = no
90
             create mask = 0600
92
             directory mask = 0700
             browseable = No
93
             guest ok = Yes
             profile acls = yes
95
             csc policy = disable
96
             # next line is a great way to secure the profiles
             force user = %U
98
99
             # next line allows administrator to access all profiles
             valid users = %U "Domain Admins"
100
101
     [printers]
102
             comment = Network Printers
103
104
             printer admin = @"Print Operators"
105
             guest ok = yes
             printable = yes
106
107
             path = /home/spool/
108
             browseable = No
             read only = Yes
109
             printable = Yes
             print command = /usr/bin/lpr -P%p -r %s
111
             lpq command = /usr/bin/lpq -P%p
112
             lprm command = /usr/bin/lprm -P%p %j
113
114
115
     [print$]
             path = /home/printers
116
             guest ok = No
117
             browseable = Yes
             read only = Yes
119
             valid users = 0"Print Operators"
120
             write list = @"Print Operators"
121
             create mask = 0664
122
123
             directory mask = 0775
124
    [public]
125
             comment = Repertoire public
127
             path = /home/public
             browseable = Yes
128
             guest ok = Yes
             read only = No
130
131
             directory mask = 0775
             create mask = 0664
132
133
```

8.1.4 The OpenLDAP configuration file: /etc/openldap/slapd.conf

```
include
                           /etc/openldap/schema/core.schema
1
   include
                           /etc/openldap/schema/cosine.schema
2
3
   include
                           /etc/openldap/schema/inetorgperson.schema
   include
                           /etc/openldap/schema/nis.schema
4
   include
                           /etc/openldap/schema/samba.schema
5
   schemacheck
                      on
8
   lastmod
                           on
```

```
TLSCertificateFile /etc/openldap/ldap.idealx.com.pem
10
   TLSCertificateKeyFile /etc/openldap/ldap.idealx.com.key
   TLSCACertificateFile /etc/openldap/ca.pem
13
   TLSCipherSuite :SSLv3
14
   #TLSVerifyClient demand
15
   16
   # ldbm database definitions
17
   18
   database
               ldbm
   suffix
                      dc=idealx,dc=com
20
21
   rootdn
                      "cn=Manager,dc=idealx,dc=com"
   rootpw
                      secret
              /var/lib/ldap
   directory
23
   index sambaSID
24
         {\tt sambaPrimaryGroupSID}
25
   index
                                eq
         sambaDomainName
   index
26
                           eq
           objectClass,uid,uidNumber,gidNumber,memberUid
27
   index
                                                            eq
   index
              cn, mail, surname, givenname
                                                        eq, subinitial
28
29
   # users can authenticate and change their password
   access to attrs=userPassword,sambaNTPassword,sambaLMPassword
31
32
        by dn="cn=Manager,dc=idealx,dc=com" write
33
        by self write
        by anonymous auth
34
        by * none
35
36
   # all others attributes are readable to everybody
37
   access to *
        by * read
```

8.2 Changing the administrative account (ldap admin dn in smb.conf file)

If you don't want to use the cn=Manager,dc=idealx,dc=com account anymore, you can create a dedicated account for Samba and the smbldap-tools scripts. To do this, create an account named *samba* as follows (see section 4.2.1 for a more detailed syntax):

```
smbldap-useradd -s /bin/false -d /dev/null -P samba
```

This command will ask you to set a password for this account. Let's set it to *samba* for this example. You then need to modify configuration files:

• file /etc/opt/IDEALX/smbldap-tools/smbldap_bind.conf

ldap admin dn = uid=samba,ou=Users,dc=idealx,dc=com

```
slaveDN="uid=samba,ou=Users,dc=idealx,dc=com"
slavePw="samba"
masterDN="uid=samba,ou=Users,dc=idealx,dc=com"
masterPw="samba"
```

don't forget to also set the samba account password in secrets.tdb file:

```
smbpasswd -w samba
```

file /etc/samba/smb.conf

• file /etc/openldap/slapd.conf: give to the *samba* user permissions to modify some attributes: this user needs to be able to modify all the samba attributes and some others (uidNumber, gidNumber ...):

```
# users can authenticate and change their password
          {\tt access\ to\ attrs=userPassword,sambaNTPassword,sambaLMPassword,sambaPwdLastSet,sambaPwdMustChange}
                       by dn="uid=samba,ou=Users,dc=idealx,dc=com" write
                       by self write
                       by anonymous auth
 5
 6
                      by * none
          # some attributes need to be readable anonymously so that 'id user' can answer correctly
          access to attrs=objectClass,entry,gecos,homeDirectory,uid,uidNumber,gidNumber,cn,memberUid
 8
                       by dn="uid=samba,ou=Users,dc=idealx,dc=com" write
10
                       by * read
         # somme attributes can be writable by users themselves
11
12
          access to attrs=description,telephoneNumber
                       by dn="uid=samba,ou=Users,dc=idealx,dc=com" write
13
14
                       by self write
15
                      by * read
          # some attributes need to be writable for samba
16
17
          {\tt access\ to\ attrs=cn,sambaLMPassword,sambaNTPassword,sambaPwdLastSet,sambaLogonTime,sambaLogoffTime,sambaKickoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,sambaLogoffTime,samb
                       by dn="uid=samba,ou=Users,dc=idealx,dc=com" write
18
                      by self read
19
20
                       by * none
21
          # samba need to be able to create the samba domain account
22
          access to dn.base="dc=idealx.dc=com"
                       by dn="uid=samba,ou=Users,dc=idealx,dc=com" write
23
                       bv * none
24
25
         # samba need to be able to create new users account
          access to dn="ou=Users,dc=idealx,dc=com"
26
                      by dn="uid=samba,ou=Users,dc=idealx,dc=com" write
27
28
                       by * none
29
          # samba need to be able to create new groups account
30
         access to dn="ou=Groups,dc=idealx,dc=com"
31
                       by dn="uid=samba,ou=Users,dc=idealx,dc=com" write
                       bv * none
32
33
         # samba need to be able to create new computers account
34
          access to dn="ou=Computers,dc=idealx,dc=com"
                       by dn="uid=samba.ou=Users.dc=idealx.dc=com" write
35
36
                       by * none
37
          # this can be omitted but we leave it: there could be other branch
          # in the directory
38
          access to *
                       by self read
40
41
                       by * none
```

8.3 known bugs

 Option -B (user must change password) of smbldap-useradd does not have effect: when smbldap-passwd script is called, sambaPwdMustChange attribute is rewrite.