

Sendmail + LDAP How-to

1. Installation des programmes

Sous debian :

```
#apt-get install slapd  
#apt-get install sendmail
```

En outre, on pourra rajouter des programmes à l'ihm confortable :

```
#apt-get install directory-administrator (gtk)  
#apt-get install ldapexplorer (web)  
ou  
http://www-unix.mcs.anl.gov/~gawor/ldap/ (applet java)
```

2. Configuration

2.1 LDAP

Il suffit de se laisser guider par les scripts de post-configuration debian.

A titre informatif, on trouvera en annexe 1 notre fichier de configuration slapd.conf

Pour remplir notre annuaire qui est maintenant vide, on utilisera les scripts de configuration trouvés sur www.padl.com.

2.2 Sendmail

De même, les scripts de post-configuration debian nous guide au travers de la configuration de sendmail.

Pour spécifier que l'on veut utiliser ldap, on rajoute au fichier .mc (qui nous aidera à générer plus tard le fichier .cf de configuration de sendmail) :

```
# a rajouter avant MAILER_DEFINITION  
define('confLDAP_DEFAULT_SPEC', '-h pc3c07.u-strasbg.fr -b  
dc=pc3c07,dc=u-strasbg,dc=fr')
```

```
FEATURE(ldap_routing)  
LDAPROUTE_DOMAIN(pc3c07.u-strasbg.fr)  
#fin rajout
```

```
-h pour l'hôte à contacter  
-b pour la base de la recherche ldap
```

En annexe 2, on trouvera le fichier sendmail.mc utilisé chez nous.

Conformément au Draft IETF intitulé "LDAP Schema for Intranet Mail Routing", sendmail va à présent rechercher les variables :
mailLocalAddress, mailRoutingAddress et mailHost.

Par exemple :

```
dn: uid=tom, o=example.com, c=US
objectClass: inetLocalMailRecipient
mailLocalAddress: tom@example.com
mailRoutingAddress: thomas@mailhost.example.com
```

Va délivrer un message pour tom@example.com à thomas@mailhost.example.com.

```
dn: uid=dick, o=example.com, c=US
objectClass: inetLocalMailRecipient
mailLocalAddress: dick@example.com
mailHost: eng.example.com
```

Va relayer les mails pour dick@example.com à la même adresse mais rediriger vers les enregistrements MX pour l'hôte eng.example.com.

Pour que Sendmail recherche les alias dans l'annuaire, on rajoute au fichier .mc :

```
define('ALIAS_FILE', 'ldap:-k (&(objectClass=nisMailAlias)(cn=%0)) -v
"rfc822MailMember")
```

Pour de plus amples informations ou problèmes, on se référera à l'url suivante :

<http://www.linuxdoc.org/HOWTO/LDAP-Implementation-HOWTO/sendmail.html>

Annexe 1 : slapd.conf

This is the main ldapd configuration file. See slapd.conf(5) for more info on the configuration options.

Schema and objectClass definitions

```
include      /etc/ldap/schema/core.schema
include      /etc/ldap/schema/cosine.schema
include      /etc/ldap/schema/nis.schema
include      /etc/ldap/schema/inetorgperson.schema
include      /etc/ldap/schema/misc.schema
include
/usr/share/doc/directory-administrator/examples/trustMode.schemaOpenLDAP2
include      /etc/ldap/schema/openldap.schema
```

Schema check allows for forcing entries to
match schemas for their objectClasses's
schemacheck off

Where the pid file is put. The init.d script
will not stop the server if you change this.
pidfile /var/run/slapd.pid

List of arguments that were passed to the server
argsfile /var/run/slapd.args

Where to store the replica logs
relogfile /var/lib/ldap/replug

Read slapd.conf(5) for possible values
loglevel 9

The backend type, ldbm, is the default standard
database ldbm

The base of your directory
suffix "dc=pc3c07,dc=u-strasbg,dc=fr"

Where the database file are physically stored
directory "/var/lib/ldap"

Indexing options
index objectClass eq

Save the time that the entry gets modified
lastmod on

The userPassword by default can be changed
by the entry owning it if they are authenticated.
Others should not be able to see it, except the
admin entry below
access to attribute=userPassword
 by dn="cn=admin,dc=pc3c07,dc=u-strasbg,dc=fr" write
 by anonymous auth
 by self write
 by * none

The admin dn has full write access
access to *
 by dn="cn=admin,dc=pc3c07,dc=u-strasbg,dc=fr" write
 by * read

For Netscape Roaming support, each user gets a roaming
profile for which they have write access to
access to dn="*,ou=Roaming,o=morsnet"
 by dn="cn=admin,dc=pc3c07,dc=u-strasbg,dc=fr" write
 by dnattr=owner write

rootdn "cn=admin,dc=pc3c07,dc=u-strasbg,dc=fr"
rootpw secret

Annexe 2 : sendmail.mc

```
divert(-1)dnl
#-----
# $Sendmail: ./debproto.mc.in,v 8.12.0 2001/05/29 12:00:00 cowboy Exp $
#
# Copyright (c) 1998–2001 Richard Nelson. All Rights Reserved.
#
# Generated automatically from sendmail.mc.in by configure.
#
# sendmail.mc prototype config file for building Sendmail 8.12.1
#
# This file is used to configure Sendmail for use with Debian systems.
#
# If you modify this file, you will have to regenerate /etc/mail/sendmail.cf
# by running this file through the m4 preprocessor via one of the following:
#      * 'sendmailconfig'
#      * 'make'
#      * 'm4 /etc/mail/sendmail.mc > /etc/mail/sendmail.cf'
# The first two options are preferred as they will also update other files
# that depend upon the contents of this file.
#
# The best documentation for this .mc file is:
# /usr/share/doc/sendmail-doc/cf.README.gz
#-----
divert(0)dnl
#
# Copyright (c) 1998–2001 Richard Nelson. All Rights Reserved.
#
# This file is used to configure Sendmail for use with Debian systems.
#
define(`_USE_ETC_MAIL_')dnl
include(`/usr/share/sendmail/sendmail.cf/m4/cf.m4')dnl
VERSIONID(`$Id: sendmail.mc, v 8.12.1–5 2001–12–14 13:11:55 cowboy Exp $')
OSTYPE(`debian')dnl
DOMAIN(`debian-mta')dnl
dnl #
dnl # General defines
dnl #
dnl # SAFE_FILE_ENV: [undefined] If set, sendmail will do a chroot()
dnl #      into this directory before writing files.
dnl #      If *all* your user accounts are under /home then use that
dnl #      instead – it will prevent any writes outside of /home !
dnl #      define(`confSAFE_FILE_ENV',      ``')dnl
LOCAL_CONFIG
FEATURE(`masquerade_envelope')dnl
LOCAL_CONFIG
Cwpc3c07.u–strasbg.fr
FEATURE(`use_cw_file')dnl
FEATURE(`use_ct_file')dnl
FEATURE(`smrsh')dnl
dnl #
dnl # Dialup/LAN connection overrides
dnl #
include(`/etc/mail/dialup.m4')dnl
include(`/etc/mail/provider.m4')dnl
dnl #

define(`confLDAP_DEFAULT_SPEC', `–h pc3c07.u–strasbg.fr –b
dc=pc3c07,dc=u–strasbg,dc=fr')
define(`ALIAS_FILE', `ldap:–k (&(objectClass=nisMailAlias)(cn=%0)) –v
"rfc822MailMember"')

FEATURE(ldap_routing)
LDAPROUTE_DOMAIN(pc3c07.u–strasbg.fr)

MAILER_DEFINITIONS
MAILER(local)dnl
MAILER(smtp)dnl
```