

SLS Beamline LDAP Setup

\$Revision: 1.9 \$

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Chapter 1. The Server Installation

Pre cleanup

Before we start the installation, we remove any existing LDAP packages

```
root# rpm -e nss_ldap openldap openldap-devel openldap-servers
```

OpenLDAP 2.0.27

Compilation and installation

```
root# tar xzf openldap-stable-20021018.tgz
root# cd openldap-2.0.27/
root# ./configure --prefix=/usr
root# make depend
root# make
root# make test
root# make install
```

OpenLDAP postsetup

```
root# cd /etc
root# \rm -rf openldap
root# ln -s /usr/etc/openldap .
root# cd -
root# groupadd -g 55 ldap
root# mkdir /usr/var/openldap-ldbm
root# chmod 700 /usr/var/openldap-ldbm
root# useradd -c "LDAP User" -d /usr/var/openldap-ldbm -u 55 -g 55 -
s /bin/false -M ldap
root# chown ldap:root /usr/var/openldap-ldbm
root# install -m 755 -o root -g root ldap /etc/rc.d/init.d/
root# chkconfig --add ldap
root# chkconfig ldap on
root# install -m 640 -o root -g ldap slapd.conf.master /etc/openldap/
```

NSS_LDAP

Build and install nss_ldap-202

```
root# tar xzf nss_ldap.tgz
root# cd nss_ldap-202
root# ./configure --prefix=/usr
root# make
root# make check
root# make install
```

Customizing Samba with LDAP support

Install samba RPM

```
root# rpm -e ntmount
```

We either installed a pre-built version, that has ldap support built in

```
root# rpm -Uvh samba-2.2.5-1.i386.rpm --nodeps
```

(step to 4.5)

or we use the original source and apply the necessary changes our self

```
root# rpm -Uvh samba-2.2.5-1.src.rpm
```

Enable LDAP (--with-ldapsam)

```
root# install -m 644 -o root -g root samba.spec /usr/src/redhat/SPECS/samba.spec
```

Build binary

```
root# rpm -bb /usr/src/redhat/SPECS/samba.spec
```

Install binaries

```
root# rpm -Uvh /usr/src/redhat/RPMS/i386/samba-2.2.5-1.i386.rpm
```

Install our own customized config files

```
root# cp smb.conf /etc/samba/smb.conf
```

Customize /etc/samba/smb.conf

Example 1-1. smb.conf

```
netbios name = SLSFS03
netbios alias = X06SMB
server string = SLS X06 Samba Server
comment = SLS X06
```

Install pam modules and config files

Build and install

```
root# tar xzf pam_ldap.tgz
root# cd ./pam_ldap-156
root# ./configure
root# make
root# make check
root# make install
```

Install customized PAM files

```
root# cp -f pam.d/* /etc/pam.d/  
root# cd ..  
root# install -m 644 -o root -g root system-auth /etc/pam.d/system-  
auth  
root# install -m 644 -o root -g root samba /etc/pam.d/samba
```

Misc

Install modified Name Service Switch config file

```
root# install -m 644 -o root -g root nsswitch.conf /etc/nsswitch.conf  
root# install -m 644 -o root -g root /usr/doc/samba-2.2.5/examples/LDAP/samba.schem
```

You also have to configure the system-wide ldap configuration file /etc/ldap.conf

Let syslog to the slapd logging

Example 1-2. smb.conf

```
# LDAP log  
local4.* /var/log/ldap.log
```

Install ldapchpasswd

```
root# install -m 755 -o root -g root ldapchpasswd /usr/local/bin/ldapchpasswd  
root# install -m 755 -o root -g root mkntpwd /usr/local/sbin/mkntpwd
```

Install logrotate

```
root# install -m 644 -o root -g root ldap.logrotate /etc/logrotate.d/ldap
```

Lets startup everything

LDAP

```
root# service ldap start
```

Samba

```
root# service smb start
```

Apply Samba password for ldapadmin

```
root# smbpasswd -w <password> cn=ldapadmin,dc=sls,dc=psi,dc=ch
```

Testing

Loading data

```
root# ldapadd -x -w test -D cn=ldapadmin,dc=sls,dc=psi,dc=ch -f dum-  
all.ldif
```

Unix login

```
root# ssh e10026@slsfs08
```

```
root# smbclient -L slsfs08 -U e10026
```

Chapter 2. The Client Installation

RedHat 6.2

```
root# rpm -Uvh openldap-1.2.12-3.i386.rpm nscd-2.1.3-27.i386.rpm nss_ldap-189-1.6.2.1.i386.rpm
```

Configure `/etc/ldap.conf` and `/etc/nssswitch`

```
root# cp -f /usr/doc/nss_ldap-189/pam.d/* /etc/pam.d/
root# service ypbind stop
root# chkconfig ypbind off
root# init 3
root# init 5
```

RedHat 7.3

```
root# authconfig
root# cp /usr/share/doc/nss_ldap-189/pam.d/* /etc/pam.d/
root# cp /etc/pam.d/ssh /etc/pam.d/sshd
```

Make sure `pam_console.so` is able to set device file perms

session required `/lib/security/pam_ldap.so`

```
root# service sshd restart
root# init 3
root# init 5
```

Chapter 2. The Client Installation

Appendix A. Remaining details

How to find out what LDAP related packages are installed

The following command will list all ldap packages currently installed

```
root# rpm -q -a | grep ldap
```

Appendix A. Remaining details