

# Use iRedMail's OpenLDAP database for Unix user authentication

## iRedAdmin

Create user in iRedAdmin or with iRedMail tools!

## Stop mail services

```
service sogo stop
service dovecot stop
service postfix stop
service iredapd stop
service clamav-daemon stopservice amavis stop
```

## File operations

### Create users home directory

```
mkdir /home/usersmkdir /home/users/username
```

# Move mail directories

```
mv /var/vmail/vmail1/domain/u/s/e/username@domain.com/* /home/user/username/
```

*If the user never logged in and changed his settings in webmail the sieve directory wont exists.*

```
mkdir /home/users/username/sieve
```

# Set up OpenLDAP

*The easiest way to make the changes is to use phpLDAPAdmin.*

## Create group for domain

```
{ou=Groups,domainName=domain.com,o=domains,dc=domain,dc=com}
```

new child->posixGroup

```
rdn=cn  
gid=5000cn=DOMAIN-GROUP
```

## Set up the user

```
{ou=Users,domainName=domain.com,o=domains,dc=domain,dc=com}
```

objectClass->(new entry)->posixAccount

```
homeDirectory=/home/users/username  
shadowLastChange=-1
```

new attribute->loginShell

---

```
loginShell=/bin/bash
```

## Add the user to the group

```
{ou=Groups,domainName=domain.com,o=domains,dc=domain,dc=com}
```

new attribute->memberUID

```
memberUID=username
```

## Set up permissions

```
chown username:DOMAIN-GROUP /home/user/username -Rchown vmail:vmail  
/home/user/username/MailDir/ -R  
chown vmail:vmail /home/user/username/sieve/ -R  
chmod 00700 /home/user/username/MailDir/chmod 00700 /home/user/username/sieve/
```

## Set up sshd

Edit the `/etc/ssh/sshd_conf` file

```
UsePAM yes
```

## Enable password change of the user

Edit `/etc/pam.d/common-password`

Add this line to the file

```
# here are the per-package modules (the "Primary" block)password
requisite                pam_pwquality.so retry=3password
sufficient                pam_ldap.so try_first_passpassword      [success=3
default=ignore]          pam_unix.so obscure use_authtok use_first_pass sha512password
sufficient                pam_sss.so use_authtok use_first_pass# here's the fallback if no
module succeeds

password      requisite                pam_deny.so# prime the stack with a positive
return value if there isn't one already;# this avoids us returning an error just because nothing
sets a success code

# since the modules above will each just jump aroundpassword
required                pam_permit.sopassword      optional
pam_smbpass.so nullok use_authtok use_first_pass# and here are more per-package modules (the
"Additional" block)# end of pam-auth-update config
```

## Edit `/etc/ldap/slapd.conf`

Add shadowLastChange to allow user to change own password

```
# Access Control

# Allow users to change their own passwords and mail forwarding addresses.access to
attrs="userPassword,shadowLastChange,mailForwardingAddress,storageBaseDirectory,homeDirectory,mail
    by anonymous      auth
    by self           write
    by dn.exact="cn=vmail,dc=domain,dc=com"    read    by
dn.exact="cn=vmailadmin,dc=domain,dc=xom"    write
    by users         none
```

## Set up the connection

## Install the necessary packages

```
apt-get install ldap-utils libpam-ldap libnss-ldapd nslcd sssd
```

## Edit the `/etc/nslcd.conf` file

```
# /etc/nslcd.conf
# nslcd configuration file. See nslcd.conf(5)
# for details.
# The user and group nslcd should run as.
uid nslcd
gid nslcd
# The location of which the LDAP server(s) should be reachable.
uri ldap://127.0.0.1:389
# The search base that will be used for all queries.
base dc=domain,dc=com
# The LDAP protocol version to use.
ldap_version 3
# The DN to bind with for normal lookups.
binddn cn=vmail,dc=domain,dc=com
bindpw *****SECRETLDAPPASSWORD*****
# The DN used for password modifications by root.
# rootpwmoddn cn=admin,dc=example,dc=com
# SSL options
#ssl off
#tls_reqcert never
tls_cacertfile /etc/ssl/certs/ca-certificates.crt
# The search scope.
```

## Edit the `/etc/nsswitch.conf` file

```
# /etc/nsswitch.conf
#
# Example configuration of GNU Name Service Switch functionality.# If you have the `glibc-doc-
reference' and `info' packages installed, try:# `info libc "Name Service Switch"' for
```

```
information about this file.
passwd:      compat ldap
group:       compat ldap
shadow:      compat ldap
gshadow:     files
hosts:       files mdns4_minimal [NOTFOUND=return] dns
networks:    files
protocols:   db files
services:    db files
ethers:      db files
rpc:         db files
netgroup:    nissudoers:      files
```

## Enable start `nsld` at boot

```
update-rc.d nsld enable
```

## Restart `nscd` service

```
/etc/init.d/nscd restart
```

## Edit `/etc/sss/sss.conf` file

```
[sss]
  config_file_version = 2
  services = nss,pam
  domains = LDAP
[nss]
  filter_users = root,named,avahi,haldaemon,dbus,radiusd,news,nscd
[pam]
[domain/LDAP]
```

```

[ldap_search_base = dc=domain,dc=com
[ldap_access_filter = objectClass=posixAccount
[id_provider = ldap
[auth_provider = ldap
[chpass_provider = ldap
[access_provider = ldap
[ldap_schema = rfc2307
[ldap_uri = ldap://127.0.0.1
[ldap_user_name = uid
[ldap_user_search_base = o=domains,dc=domain,dc=com[ldap_group_search_base =
o=domains,dc=domain,dc=com
[ldap_default_bind_dn = cn=vmail,dc=domain,dc=com
[ldap_default_authtok_type = password
[ldap_default_authtok = *****SECRETLDAPPASSWORD*****
[enumerate = true
[cache_credentials = true[ldap_tls_reqcert = never

```

## Start `sssd` service

```
service sssd start
```

## Start mail services

```

service slapd restart
service amavis start
service dovecot start
service postfix start
service iredapd start
service clamav-freshclam restart
service clamav-daemon startservice sogo start

```

# Troubleshoot

Start `sssd` in debug mode and try to login via ssh

```
/usr/sbin/sssd -i -d7
```

Check if users and groups exists

```
getent passwd  
getent group
```

Check log files while trying to log in

```
tailf /var/log/auth.log  
tailf /var/log/syslog
```

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