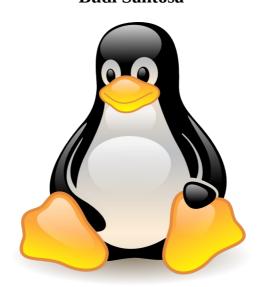
Disusun Oleh:
Kurusetra Computer
www.kurusetra.web.id
Budi Santosa



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OpenLDAP

OpenLDAP merupakan server Lightweight Directory Access Protocol (LDAP) yang biasa digunakan sebagai buku alamat atau media penyimpanan informasi user dan password. Server OpenLDAP mampu diintegrasikan dengan Samba, OpenVPN, ProFTPD, Postfix dll, untuk mengelola pengguna. Pada tutorial kali ini kita bahas konfigurasi OpenLDAP pada ubuntu 12.04 precise pangolin. Konfigurasinya cukup mudah, kita edit file slapd.conf, kemudian dikonversi menjadi file konfigurasi di direktori slapd.d dengan slaptest. Langkah konfigurasinya sebagai berikut.

Instalasi OpenLDAP

```
apt-get install slapd ldap-utils migrationtools phpldapadmin apt-get install samba smbldap-tools smbclient samba-doc smbfs cp /usr/share/doc/samba-doc/examples/LDAP/samba.schema.gz /etc/ldap/schema/gzip -d /etc/ldap/schema/samba.schema.gz
```

Konfigurasi File slapd.conf

```
vim /usr/share/slapd/slapd.conf
                /etc/ldap/schema/core.schema
include
include
                /etc/ldap/schema/cosine.schema
include
                /etc/ldap/schema/nis.schema
include
                /etc/ldap/schema/inetorgperson.schema
include
                /etc/ldap/schema/samba.schema
                /etc/ldap/schema/misc.schema
include
include
                /etc/ldap/schema/openldap.schema
pidfile
                /var/run/slapd/slapd.pid
argsfile
                /var/run/slapd/slapd.args
loglevel
                none
                /usr/lib/ldap
modulepath
moduleload
                back_hdb.la
sizelimit 500
tool-threads 1
backend
                hdb
database
                hdb
suffix
                "dc=kurusetra,dc=web,dc=id"
rootdn "cn=admin,dc=kurusetra,dc=web,dc=id"
rootpw 1111
directory
                "/var/lib/ldap"
dbconfig set lk max objects 1500
dbconfig set lk max locks 1500
dbconfig set lk max lockers 1500
index
                objectClass eq
lastmod
                on
checkpoint
                512 30
```

```
access to
attrs=userPassword, shadowLastChange, sambaNTPassword, sambaLMPassword, top, per
son,organizationalPerson,inetOrgPerson,posixAccount
        by self write
        by * read
access to
attrs=userPassword,shadowLastChange,sambaNTPassword,sambaLMPassword
        by dn="cn=admin,dc=kurusetra,dc=web,dc=id" write
        by anonymous auth
        by self write
        by * none
#access to attrs=userPassword, shadowLastChange
        by dn="cn=admin,dc=kurusetra,dc=web,dc=id" write
#
        by anonymous auth
#
        by self write
        by * none
access to dn.base="" by * read
access to *
        by dn="cn=admin,dc=kurusetra,dc=web,dc=id" write
        by * read
```

Konversi Direktori Konfigurasi

```
/etc/init.d/slapd stop
rm -fr /etc/ldap/slapd.d/*
slaptest -f /usr/share/slapd/slapd.conf -F /etc/ldap/slapd.d/
chown -R openldap.openldap /etc/ldap/slapd.d/
/etc/init.d/slapd restart
```

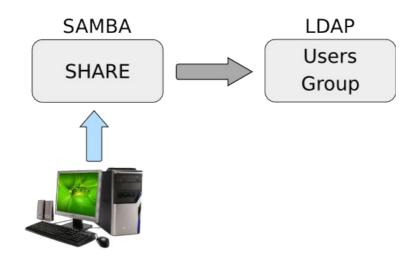
Konfigurasi Top Level Domain

```
vim kurusetra.ldif
dn: dc=kurusetra,dc=web,dc=id
objectClass: top
objectClass: dcObject
objectclass: organization
o: kurusetra
dc: kurusetra
description: Kurusetra Computer
```

Penambahan Top Level Domain

```
ldapadd -x -D cn=admin,dc=kurusetra,dc=web,dc=id -f kurusetra.ldif -W Passwordnya 1111
```

Integrasi Samba LDAP



Konfigurasi Samba

```
workgroup = KURUSETRA
security = user
passdb backend = ldapsam: ldap://localhost/
ldap ssl = off
obey pam restrictions = no
#COPY AND PASTE THE FOLLOWING UNDERNEATH "OBEY PAM RESTRICTIONS = NO"
Begin: Custom LDAP Entries
ldap admin dn = cn=admin,dc=kurusetra,dc=web,dc=id
ldap suffix = dc=kurusetra,dc=web,dc=id
ldap group suffix = ou=Groups
ldap user suffix = ou=Users
ldap machine suffix = ou=Computers
ldap idmap suffix = ou=Users
; Do ldap passwd sync
ldap passwd sync = Yes
passwd program = /usr/sbin/smbldap-passwd %u
passwd chat = *New*password* %n\n *Retype*new*password* %n\n
*all*authentication*tokens*updated*
add user script = /usr/sbin/smbldap-useradd -m "%u"
ldap delete dn = Yes
delete user script = /usr/sbin/smbldap-userdel "%u"
add machine script = /usr/sbin/smbldap-useradd -w "%u"
add group script = /usr/sbin/smbldap-groupadd -p "%g"
delete group script = /usr/sbin/smbldap-groupdel "%g"
add user to group script = /usr/sbin/smbldap-groupmod -m "%u" "%g"
delete user from group script = /usr/sbin/smbldap-groupmod -x "%u" "%g"
set primary group script = /usr/sbin/smbldap-usermod -g "%g" "%u"
domain logons = yes
#invalid users = root
```

```
# Restart SAMBA.
     /etc/init.d/samba restart
     /etc/init.d/smbd restart
     /etc/init.d/nmbd restart
#Tambahkan password LDAP pada samba
     smbpasswd -w 1111
Konfigurasi SMBLDAP-TOOLS
     cd /usr/share/doc/smbldap-tools/examples/
     cp smbldap bind.conf /etc/smbldap-tools/
     cp smbldap.conf.gz /etc/smbldap-tools/
     gzip -d /etc/smbldap-tools/smbldap.conf.gz
     cd /etc/smbldap-tools/
     net getlocalsid
     vim smbldap.conf
# Edit the file so that the following information is correct (according to your individual setup):
     SID="S-1-5-21-949328747-3404738746-3052206637" ## This line must have the
     same SID as when you ran "net getlocalsid"
     sambaDomain="KURUSETRA"
     slaveLDAP="127.0.0.1"
     masterLDAP="127.0.0.1"
     ldapTLS="0"
     suffix="dc=kurusetra,dc=web,dc=id"
     defaultMaxPasswordAge="99999"
     sambaUnixIdPooldn="sambaDomainName=EXAMPLE,${suffix}"
     userSmbHome=
     userProfile=
     userHomeDrive=
     userScript=
     mailDomain="kurusetra.web.id"
vim smbldap_bind.conf
# Edit the file so that the following information is correct (according to your individual setup):
     slaveDN="cn=admin,dc=kurusetra,dc=web,dc=id"
     slavePw="1111"
    masterDN="cn=admin,dc=kurusetra,dc=web,dc=id"
     masterPw="1111"
# Set the correct permissions on the above files:
     chmod 0644 /etc/smbldap-tools/smbldap.conf
     chmod 0600 /etc/smbldap-tools/smbldap bind.conf
Populate LDAP using smbldap-tools
# Execute the command to populate the directory.
     smbldap-populate -u 30000 -g 30000
# At the password prompt assign your root password:
     smbpasswd -w
```

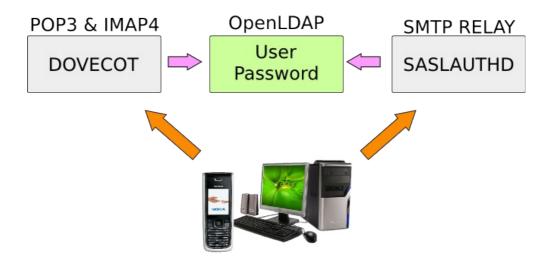
1111

```
# Verify that the directory has information in it by running the command:
     ldapsearch -x -b dc=kurusetra,dc=web,dc=id | less
Integrasi LDAP ke Sistem Linux
Step 8: Add an LDAP user to the system
# Add the user to LDAP
     smbldap-useradd -a -m -M ricky -c "Richard M" ricky
     smbldap-useradd -w client-winxp
     # Here is an explanation of the command switches that we used.
     -a allows Windows as well as Linux login
     -m makes a home directory, leave this off if you do not need local access
     -M sets up the username part of their email address
     -c specifies their full name
# Set the password the new account.
     smbldap-passwd ricky
Step 9: Configure the server to use LDAP authentication.
# Install the necessary software for this to work.
     apt-get install auth-client-config libpam-ldap libnss-ldap
# Answer the prompts on your screen with the following:
     Should debconf manage LDAP configuration?: Yes
     LDAP server Uniform Resource Identifier: ldapi://127.0.0.1
     Distinguished name of the search base: dc=kurusetra,dc=web,dc=id
    LDAP version to use: 3
    Make local root Database admin: Yes
    Does the LDAP database require login? No
    LDAP account for root: cn=admin,dc=kurusetra,dc=web,dc=id
    LDAP root account password: 1111
#untuk mengulang konfigurasi
     #dpkg-reconfigure ldap-auth-client
     #dpkg-reconfigure ldap-auth-config
     #dpkg-reconfigure libnss-ldap
# Open the /etc/ldap.conf file for editing.
     vim /etc/ldap.conf
# Configure the following according to your setup:
     host 127.0.0.1
     base dc=kurusetra,dc=web,dc=id
     uri ldap://127.0.0.1/
     rootbinddn cn=admin,dc=kurusetra,dc=web,dc=id
     bind policy soft
# Copy the /etc/ldap.conf file to /etc/ldap/ldap.conf
     cp /etc/ldap.conf /etc/ldap/ldap.conf
```

Create a new file /etc/auth-client-config/profile.d/open_ldap: vim /etc/auth-client-config/profile.d/open_ldap

```
# Insert the following into that new file:
     [open ldap]
    nss passwd=passwd: compat ldap
    nss_group=group: compat ldap
    nss_shadow=shadow: compat ldap
    nss netgroup=netgroup: compat ldap
    pam auth=auth
                         required
                                      pam env.so
      auth
                 sufficient pam unix.so likeauth nullok
     auth
                              pam ldap.so use first pass
                 sufficient
     auth
                required pam deny.so
    pam account=account sufficient
                                        pam_unix.so
      account sufficient pam ldap.so
                             pam_deny.so
                required
     account
    pam password=password sufficient
                                          pam_unix.so nullok md5 shadow
    use authtok
     password sufficient pam_ldap.so use_first_pass
     password
                required
                              pam deny.so
                          required
     pam session=session
                                        pam limits.so
      session required pam mkhomedir.so skel=/etc/skel/
      session
                required
                              pam unix.so
                optional
                              pam ldap.so
      session
# Backup the /etc/nsswitch.conf file:
     cp /etc/nsswitch.conf /etc/nsswitch.conf.original
# Backup the /etc/pam.d/ files:
    cd /etc/pam.d/
    mkdir bkup
    cp * bkup/
# Enable the new LDAP Authentication Profile by executing the following
    auth-client-config -a -p open_ldap
# Reboot the server and test to ensure that you can still log in using SSH and LDAP.
     ldconfig
     id ricky
     reboot
```

Integrasi Dovecot POP3 & IMAP4



Konfigurasi Dovecot

```
apt-get install dovecot-pop3d dovecot-imapd dovecot-ldap
```

```
vim /etc/dovecot/dovecot.conf
    listen = *, ::
```

vim /etc/dovecot/conf.d/10-master.conf

```
service imap-login {
  inet_listener imap {
    port = 143
  }
  inet_listener imaps {
      #port = 993
      #ssl = yes
  }

service pop3-login {
   inet_listener pop3 {
      port = 110
   }
  inet_listener pop3s {
      #port = 995
      #ssl = yes
  }
}
```

vim /etc/dovecot/conf.d/10-mail.conf
mail_location = mbox:~/mail:INBOX=/var/mail/%u
mail_privileged_group = mail

```
vim /etc/dovecot/conf.d/10-auth.conf
    disable_plaintext_auth = no
    auth_mechanisms = plain
  !include auth-ldap.conf.ext

vim /etc/dovecot/dovecot-ldap.conf.ext
    hosts = 127.0.0.1
    dn = cn=admin,dc=kurusetra,dc=web,dc=id
    dnpass = 1111
    ldap_version = 3
    base = dc=kurusetra,dc=web,dc=id
    user_filter = (&(objectClass=posixAccount)(uid=%u))
    pass_filter = (&(objectClass=posixAccount)(uid=%u))
```

Integrasi Postfix SASL Auth

Konfigurasi SASL Auth

```
apt-get install libsasl2-modules-ldap sasl2-bin libsasl2-modules
vim /etc/saslauthd.conf
     ldap servers: ldap://localhost
     ldap password attr: userPassword
     ldap filter: uid=%u
     ldap search base: ou=Users,dc=kurusetra,dc=web,dc=id
     mkdir /var/spool/postfix/var/
     mkdir /var/spool/postfix/var/run/
     mkdir /var/spool/postfix/var/run/saslauthd
     chown -R root:sasl /var/spool/postfix/var/
     chmod 710 /var/spool/postfix/var/run/saslauthd
     adduser postfix sasl
     In -s /var/spool/postfix/var/run/saslauthd /var/run/saslauthd
vim /etc/default/saslauthd
     MECHANISMS="ldap"
     OPTIONS="-c -m /var/spool/postfix/var/run/saslauthd"
vim /etc/postfix/sasl/smtpd.conf
     pwcheck method: saslauthd
     mech list: LOGIN PLAIN
```

POSTFIX SASL AUTH

```
vim /etc/postfix/main.cf
   smtpd_sasl_auth_enable = yes
   smtpd_sasl_security_options = noanonymous
   smtpd_sasl_local_domain =
   broken_sasl_auth_clients = yes
   smtpd_sasl_authenticated header = yes
```

smtpd_recipient_restrictions = reject_unauth_pipelining, permit_mynetworks,
permit_sasl_authenticated, reject_non_fqdn_recipient,
reject_unauth_destination

Restart SASL

/etc/init.d/saslauthd restart

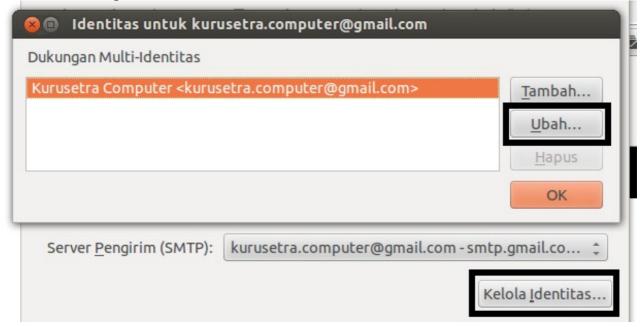
Pengujian SASL LDAP Auth

testsaslauthd -u nunik -p 261278 testsaslauthd -f /var/spool/postfix/var/run/saslauthd/mux -u nunik -p 261278

Integrasi Addressbook

Konfigurasi Thunderbid Addressbook

Klik Ubah --> Pengaturan Akun --> Kelola Identitas --> Ubah



Klik Susunan & Alamat --> Pilih Gunakan Server LDAP Lain nya --> Ubah Direktori --> Tambah

Alamat

Ketika mencari alamat:

Gunakan pengaturan server LDAP global saya untuk akun ini

Gunakan server LDAP lainnya:

OpenLDAP

Ubah Direktori...



Nama : OpenLDAP Nama Host : 127.0.0.1

Base DN : dc=kurusetra,dc=web,dc=id

Nomor Port : 389

Bind DN : uid=nunik,ou=Users,dc=kurusetra,dc=web,dc=id

Openfire Jabber Server

Instalasi Java Runtime

tar xzvf jre-7u7-linux-i586.tar.gz mkdir /usr/java mv jre1.7.0_07/ /usr/java/

Instalasi OpenFire

Download openfire di url http://www.igniterealtime.org/downloads/index.jsp dpkg -i openfire_3.7.1_all.deb

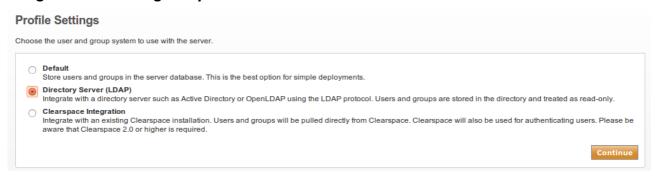
Startup Openfire

vim /etc/init.d/openfire export JAVA_HOME=/usr/java/jre1.7.0_07/

Buka Web Browser

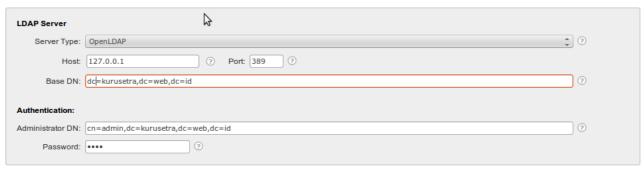
http://127.0.0.1:9090

Integrasi LDAP dengan OpenFire



Step 1 of 3: Connection Settings

Configure connection settings for your LDAP directory below. All fields are required; if you need additional information about a field, hover your mouse over the corresponsing help icon.



Advanced Settings

Test Settings	Save & Continue
rest settings	Save & Continue

Server Type : OpenLDAP Host : 127.0.0.1

Base DN : dc=kurusetra,dc=web,dc=id

Administrator DN : dc=admin,dc=kurusetra,dc=web,dc=id

Password : 1111

Step 2 of 3: User Mapping

Configure how the server finds and loads users from your LDAP directory. If you need additional information about a field, hover your mouse over the corresponsing help icon.



Username Field: uid [default]

Step 3 of 3: Group Mapping

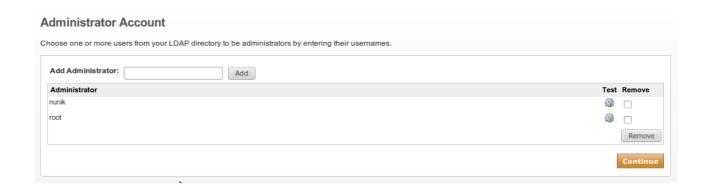
Configure how the server finds and loads groups from your LDAP directory. If you need additional information about a field, hover your mouse over the corresponsing help icon.



Test Settings Save & Continue

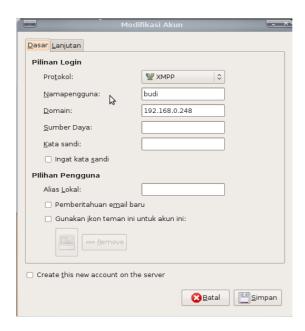
Group Field : cn

Member Field : memberUid Description Field : description





Klien OpenFire Pidgin



Integrasi dengan Joomla CMS

Install Joomla

Instalasi Joomla seperti biasa

Konfigurasi Joomla

Extension -> Plugin Manager --> Authentication - LDAP

Konfigurasi Authentication LDAP

Host : 127.0.0.1
Port : 389
LDAP V3 : Yes
Negotiate TLS : No
Follow Referrals : No

Authorisation Method: Bind Directly as User
Base DN : dc=kurusetra,dc=web,dc=id

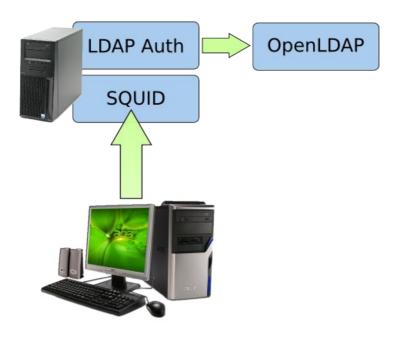
Search String : uid=[search]

User's DN : uid=[username],ou=Users,dc=kurusetra,dc=web,dc=id

Connect Username : kosong [tidak disi] Connect Password : kosong [tidak disi]

Map: Fullname : cn Map: email : mail Map: User ID : uid

Integrasi Squid Proxy Server



Pengujian openLDAP

/usr/lib/squid3/squid_ldap_auth -b 'dc=kurusetra,dc=web,dc=id' -v 3 -f 'uid=%s' 127.0.0.1 nunik 261278 OK

vim /etc/squid/squid.conf

#auth_param basic program /usr/lib/squid3/squid_ldap_auth -v 3 -b "dc=kurusetra,dc=web,dc=id" -v 3 -f "uid=%s" -h 127.0.0.1

```
auth_param basic program /usr/lib/squid3/squid_ldap_auth -b
"dc=kurusetra,dc=web,dc=id" -f "uid=%s" -h localhost
auth_param basic children 5
auth_param basic realm Masukan Username dan Password Anda!!!
auth_param basic credentialsttl 2 hours
auth_param basic casesensitive off
```

#Recommended minimum configuration:

acl all src 0.0.0.0/0.0.0.0
acl password proxy_auth REQUIRED
http_access allow localhost password

And finally deny all other access to this proxy http access allow all password

OpenLDAP Self Service Password Changer

Linux Tool Box (LTB) menyediakan utilitas aplikasi untuk mengganti sendiri password OpenLDAP single sign on. Password yang dirubah unix password dan samba, secara otomatis semua server yang terintegrasi pada server OpenLDAP akan mengenali perubahan tersebut. Jadi administrator tidak perlu bingung lagi apabila pengguna ingin mengganti password sendiri. Apabila pengguna lupa ya terpaksa bermain command line interface sambaldap-passwd. Tools LTB ini cukup membantu dan konfigurasinya sangat mudah.

Self Service Password

http://ltb-project.org/wiki/download

http://tools.ltb-project.org/attachments/download/497/ltb-project-self-service-password-0.8.tar.gz

tar xzvf /home/budi/Unduhan/ltb-project-self-service-password-0.8.tar.gz vim ltb-project-self-service-password-0.8/conf/config.inc.php

```
#LDAP
$ldap_url = "ldap://localhost";
$ldap binddn = "cn=admin,dc=kurusetra,dc=web,dc=id";
$ldap bindpw = "1111";
$ldap_base = "dc=kurusetra,dc=web,dc=id";
$ldap login attribute = "uid";
$ldap_fullname_attribute = "cn";
$ldap filter = "(&(objectClass=person)($ldap login attribute={login}))";
$ad mode = false;
$ad_options['force_unlock'] = false;
$ad options['force pwd change'] = false;
$samba_mode = true;
$shadow_options['update_shadowLastChange'] = true;
hash = "SSHA";
$who_change_password = "manager";
$use questions = false;
```

ltb-project-self-service-password-0.8/ /var/www/self chown -R www-data.www-data /var/www/self/

Buka Web Browser Firefox http://127.0.0.1/self