# LDAP dengan LAM (Praktikum)

Fitri Setyorini
Workshop Administrasi Jaringan
PSDKU Sumenep
Semester Genap
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#### LDAP Software

- https://en.wikipedia.org/wiki/List of LDAP software
- Anda dapat memilih LDAP software yang sesuai kebutuhan anda

# LDAP Account Manager (LAM)

- LAM is a web application for managing various account types in an LDAP directory.
- It is written in PHP.
- LAM has two version: free and pro.
  - Pro needs commercial license
- Available at https://www.ldap-account-manager.org/lamcms/releases

### Slapd

- Singkatan dari StandAlone LDAP Daemon (Server)
- Slapd berfungsi menunggu permintaan koneksi ke port server di nomor port 389
- Beberapa perintah slapd adalah : slapadd, slapcat, slapmodify, dst

# Ldap-utils

- Adalah sekumpulan utility yang dipakai untuk melakukan query di Idap server
- Beberapa perintah ldap util adalah :
  - Idapsearch
  - Idapmodify
  - Idapadd
  - Idappasswd
  - dll

#### 1. Setting DNSMasq

```
GNU nano 7.2 /etc/hosts *
127.0.1.1 debian12

10.252.44.139 fitri.edu
10.252.44.139 ns1.fitri.edu
10.252.44.139 www.fitri.edu
10.252.44.139 www.fitri2.edu
10.252.44.139 ldapmaster.fitri.edu
```

 Pada PC yang diinstall ldap, cek IP addressnya #ip addr

Misal no ip: 10.252.44.139

2. Pada PC yang diinstall dnsmasq, masukkan baris berikut di /etc/hosts #nano /etc/hosts

Tambahkan nomor IP dan nama domain dari Idap 10.252.44.139 | Idapmaster.fitri.edu

Simpan dan exit

3. Cek juga nomor IP dari server dns #ip addr

Pada kasus ini, baik dns server dan Idap server berada pada PC yang sama, sehingga ip addressnya sama: 10.252.44.139 dengan nama domain dns: ns1.fitri.edu

3. Buka file /etc/resolv.conf dari PC dengan dns server.

Pastikan bahwa anda menambahkan nomor IP dari server dns di atas dns server utama anda

nameserver 10.252.44.139 nameserver <dns-server-sebelumnya>

Simpan dan exit

4. Test dns server dengan mengetikkan:

#nslookup ns1.fitri.edu

#nslookup ldapmaster.fitri.edu

root@debian12:~# nslookup ns1.fitri.edu

Server: 10.252.44.139 Address: 10.252.44.139#53

Name: ns1.fitri.edu Address: 10.252.44.139 GNU nano 7.2 /etc/resolv.conf
# Generated by NetworkManager
search pens.ac.id
nameserver 10.252.44.139
nameserver 202.9.85.4
nameserver 202.9.85.3

root@debian12:~# nslookup ldapmaster.fitri.edu

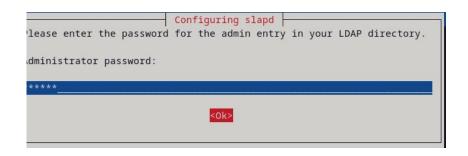
Server: 10.252.44.139 Address: 10.252.44.139#53

Name: ldapmaster.fitri.edu

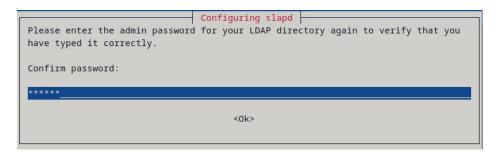
Address: 10.252.44.139

# 2. Install slapd & Idap-utils

- 1. Update Linux #apt update
- 2. Install software berikut :#apt install slapd ldap-utilsMasukkan password admin



#### Masukkan password yang sama



#### Slapd dan Idap-utils telah terinstall

```
Unpacking ldap-utils (2.5.13+dfsg-5) ...

Setting up slapd (2.5.13+dfsg-5) ...

Moving old database directory to /var/backups:
  - directory unknown... done.

Creating initial configuration... done.

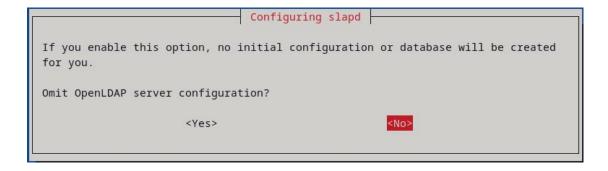
Creating LDAP directory... done.

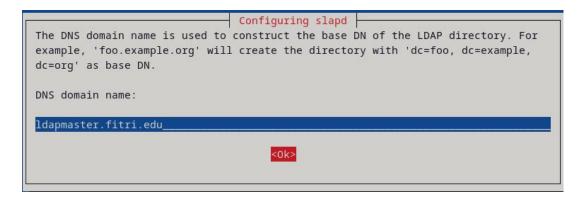
Setting up ldap-utils (2.5.13+dfsg-5) ...

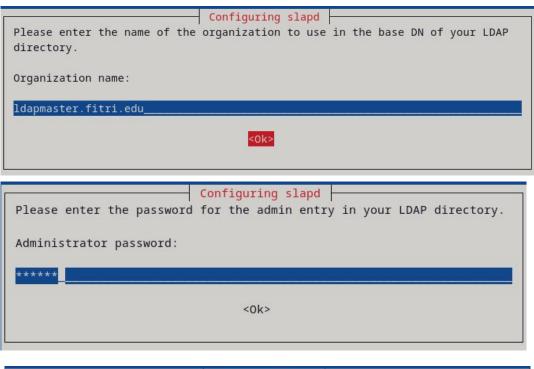
Processing triggers for libc-bin (2.36-9+deb12u4) ...

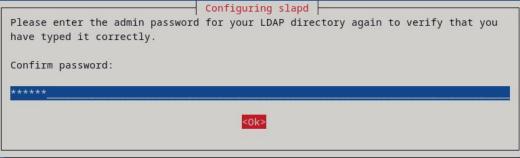
Processing triggers for man-db (2.11.2-2) ...
```

# 3. Lakukan reconfigurasi slapd#dpkg-reconfigure slapd











root@debian12:~# dpkg-reconfigure slapd
\ Backing up /etc/ldap/slapd.d in /var/backups/slapd-2.5.13+dfsg-5... done.
Moving old database directory to /var/backups:
- directory unknown... done.

Creating initial configuration... done.

Creating LDAP directory... done.

#### 3. Restart slapd dan cek statusnya

```
root@debian12:~# systemctl restart slapd
root@debian12:~# systemctl status slapd
• slapd.service - LSB: OpenLDAP standalone server (Lightweight Directory Access Protoc
Loaded: loaded (/etc/init.d/slapd; generated)
Drop-In: /usr/lib/systemd/system/slapd.service.d
__slapd-remain-after-exit.conf
Active: active (running) since Thu 2024-05-02 13:48:57 WIB; 7s ago
```

# 4. Slapcat

- Slapcat digunakan untuk melihat isi dari ldap server yang telah diinputkan ketika menginstall dan mengkonfigurasi slapd
- Beberapa informasi yang dapat dilihat adalah dn :distinguished name, o : organization, dc: domain component

root@debian12:~# slapcat
dn: dc=ldapmaster,dc=fitri,dc=edu
objectClass: top
objectClass: dcObject
objectClass: organization
o: ldapmaster.fitri.edu
dc: ldapmaster
structuralObjectClass: organization
entryUUID: 8fbcf80a-9ca3-103e-8bf6-93d187c54ccf
creatorsName: cn=admin,dc=ldapmaster,dc=fitri,dc=edu
createTimestamp: 20240502074433Z
entryCSN: 20240502074433.618806Z#000000#000#000000

modifiersName: cn=admin,dc=ldapmaster,dc=fitri,dc=edu
modifyTimestamp: 20240502074433Z

#### 5. Menambahkan ou ke Idap server

Buat file base.ldif

#nano base.ldif

Tambahkan baris berikut :

Simpan dan exit

Sesuaikan dc dengan nama domain anda

dn: ou=People,dc=ldapmaster,dc=fitri,dc=edu

objectClass: organizationalUnit

ou: people

# base.ldif

dn: ou=Groups,dc=ldapmaster,dc=fitri,dc=edu

objectClass: organizationalUnit

ou: groups

 Pada base.ldif, dimasukkan ou:People dan ou:Groups pada dc:ldapmaster, dc=fitri, dc=edu

Masukkan cn=admin ke file base.ldif lewat perintah ldapadd

#ldapadd -x -D cn=admin,dc=ldapmaster,dc=fitri,dc=edu -W -f base.ldif

#### File base.ldif dan Perintah Idapadd

```
GNU nano 7.2
                                           base.ldif
 # base.ldif
 dn: ou=People,dc=ldapmaster,dc=fitri,dc=edu
 objectClass: organizationalUnit
 ou: people
 dn: ou=Groups,dc=ldapmaster,dc=fitri,dc=edu
 objectClass: organizationalUnit
 ou: groups
root@debian12:~# nano base.ldif
root@debian12:~# ldapadd -x -D cn=admin,dc=ldapmaster,dc=fitri,dc=edu -W -f base.ldif
Enter LDAP Password:
adding new entry "ou=People,dc=ldapmaster,dc=fitri,dc=edu"
adding new entry "ou=Groups,dc=ldapmaster,dc=fitri,dc=edu"
```

### 6. Mengecek ou lewat Idapsearch

 Lakukan query dengan Idapsearch untuk

dc=ldapmaster,dc=fitri,dc=edu

#ldapsearch -x -b

"ou=People,dc=ldapmaster,dc=fitri,dc=edu"

```
root@debian12:~# ldapsearch -x -b "dc=ldapmaster,dc=fitri,dc=edu" ou
# extended LDIF
# LDAPv3
# base <dc=ldapmaster,dc=fitri,dc=edu> with scope subtree
# filter: (objectclass=*)
# requesting: ou
# ldapmaster.fitri.edu
dn: dc=ldapmaster,dc=fitri,dc=edu
# People, ldapmaster.fitri.edu
dn: ou=People,dc=ldapmaster,dc=fitri,dc=edu
ou: people
# Groups, ldapmaster.fitri.edu
dn: ou=Groups,dc=ldapmaster,dc=fitri,dc=edu
ou: groups
# search result
search: 2
result: 0 Success
# numResponses: 4
# numEntries: 3
```

#### 7. Menambahkan user ke Idap server

 Untuk menambahkan user baru ke ldap server, anda harus mengeset password terenkripsi #slappasswd

Masukkan password untuk slapd

- Buat file untuk user #nano user.ldif
- Ketikkan baris berikut
- Save dan exit

# user.ldif

dn: uid=debian,ou=People,dc=ldapmaster,dc=fitri,dc=edu objectClass: inetOrgPerson objectClass: posixAccount objectClass: shadowAccount cn: debian sn: bookworm userPassword: [SSHA]23rFF1ofbNo5MRxEJo6D2Z4PT2GOxeWt

loginShell: /bin/bash uidNumber: 2000 gidNumber: 2000

homeDirectory: /home/debian shadowLastChange: 0

shadowMax: 0 shadowWarning: 0

dn: cn=debian,ou=Groups,dc=ldapmaster,dc=fitri,dc=edu

objectClass: posixGroup

cn: debian

gidNumber: 2000 memberUid: debian

- Pada file user.ldif, anda menambahkan 2 dn, yaitu
- dn: uid=debian,ou=People
  - cn: debian,
  - sn: bookworm,
  - dst
- dn: cn=debian,ou=Groups
  - cn: debian
  - gidNumber: 2000
  - memberUid: debian

 Sekarang, tambahkan file user.ldif dengan cn=admin ke dc=ldapmaster,dc=fitri,dc=edu

#ldapadd -x -D cn=admin,dc=ldapmaster,dc=fitri, dc=edu -W -f user.ldif

root@debian12:~# ldapadd -x -D cn=admin,dc=ldapmaster,dc=fitri,dc=edu -W -f user.ldif Enter LDAP Password:

adding new entry "uid=debian,ou=People,dc=ldapmaster,dc=fitri,dc=edu"

adding new entry "cn=debian,ou=Groups,dc=ldapmaster,dc=fitri,dc=edu"

# 8. Mengecek user lewat Idapsearch

 Cek user yang telah dimasukkan lewat ldapsearch

```
#ldapsearch -x -b
"ou=People,dc=ldapmaster,dc=fitri
,dc=edu"
```

```
# extended LDIF
# LDAPv3
# base <ou=People,dc=ldapmaster,dc=fitri,dc=edu> with scope subtree
# filter: (objectclass=*)
# requesting: ALL
# People, ldapmaster.fitri.edu
dn: ou=People,dc=ldapmaster,dc=fitri,dc=edu
objectClass: organizationalUnit
ou: people
# debian, People, ldapmaster.fitri.edu
dn: uid=debian,ou=People,dc=ldapmaster,dc=fitri,dc=edu
objectClass: inetOrgPerson
objectClass: posixAccount
objectClass: shadowAccount
cn: debian
sn: bookworm
loginShell: /bin/bash
shadowLastChange: 0
shadowMax: 0
shadowWarning: 0
uid: debian
# search result
search: 2
result: 0 Success
# numResponses: 3
 # numEntries: 2
```

# 9. Install Idap account manager (LAM)

- Install Idap account manager
   #apt install Idap-account-manager
- Cek versi php
   #php -v
   Versi php yang dipakai adalah 8.2
- Backup dulu file berikut
   #cp /etc/php/8.2/apache2/php.ini /etc/php/8.2/apache2/php.ini.orig
- Edit file php.ini
   #nano /etc/php/8.2/apache2/php.ini
   Cari memory\_limit, ubah menjadi 256M
- Save dan Exit

```
root@debian12:~# php -v
.PHP 8.2.18 (cli) (built: Apr 11 2024 22:07:45) (NTS)
'Copyright (c) The PHP Group
Zend Engine v4.2.18, Copyright (c) Zend Technologies
   with Zend OPcache v8.2.18, Copyright (c), by Zend Technologies
root@debian12:~#
```

### 10. Konfigurasi virtual hosting untuk LAM

- Buka file konfigurasi Apache2 untuk ldap-account-manager /etc/apache2/conf-enabled/ldap-account-manager.conf
   Sebelumnya backup terlebih dahulu file tersebut
- Sebelumnya backup terlebih dahulu file tersebut
   #cp /etc/apache2/conf-enabled/ldap-account-manager.conf/etc/apache2/conf-enabled/ldap-account-manager.conf.orig
- Buka dengan nano #nano /etc/apache2/conf-enabled/ldap-account-manager.conf
- Edit bagian berikut #Require all granted Require ip 127.0.0.1 192.168.10.0/24
- Save dan exit

```
GNU nano 7.2 /etc/apache2/conf-enabled/ldap-account-manager.conf *

Alias /lam /usr/share/ldap-account-manager

# HSTS header to enforce https:// connections (requires active mod_headers)

# Header always set Strict-Transport-Security "max-age=31536000"

<Directory /usr/share/ldap-account-manager>
    Options +FollowSymLinks
    AllowOverride None
    #Require all granted
    Require ip 127.0.0.1 10.252.44.0/24
    DirectoryIndex index.html

</Directory>
```

#### 11. Merestart apache & cek statusnya

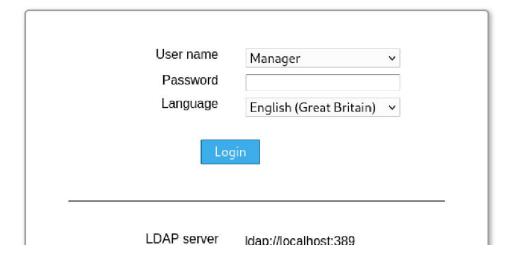
Restart apache2 dan cek statusnya

```
root@debian12:~# systemctl restart apache2
root@debian12:~# systemctl status apache2
• apache2.service - The Apache HTTP Server
    Loaded: loaded (/lib/systemd/system/apache2.service; enabled; preset: enabled)
    Active: active (running) since Thu 2024-05-02 15:01:39 WIB; 6s ago
        Docs: https://httpd.apache.org/docs/2.4/
    Process: 127151 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
Main PID: 127156 (apache2)
    Tasks: 6 (limit: 2244)
```

#### 12. Setting Konfigurasi LAM

- 1. Buka browser dan ketikkan <a href="http://ldapmaster.fitri.edu/lam">http://ldapmaster.fitri.edu/lam</a>
- 2. Anda tidak perlu login
- 3. Klik LAM configuration





- 4. Klik Edit server profiles
- 5. Masukkan password default yaitu lam

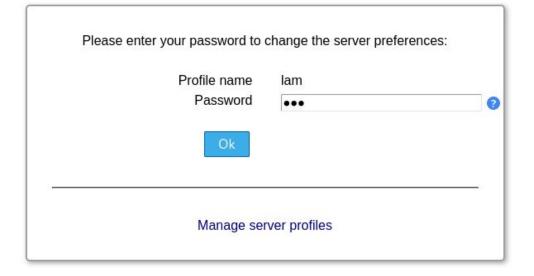
profile name : lam

password: lam

Klik OK

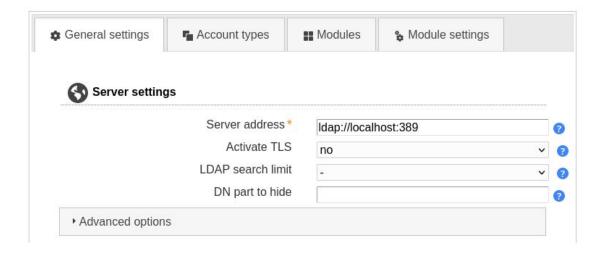


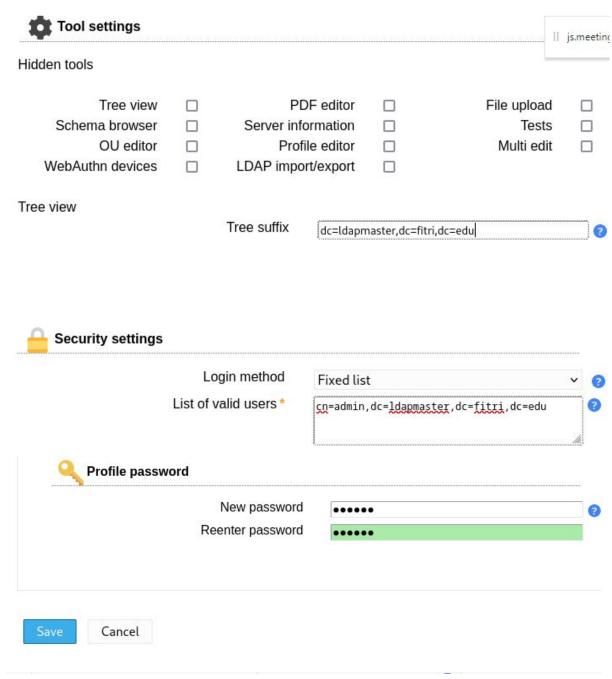




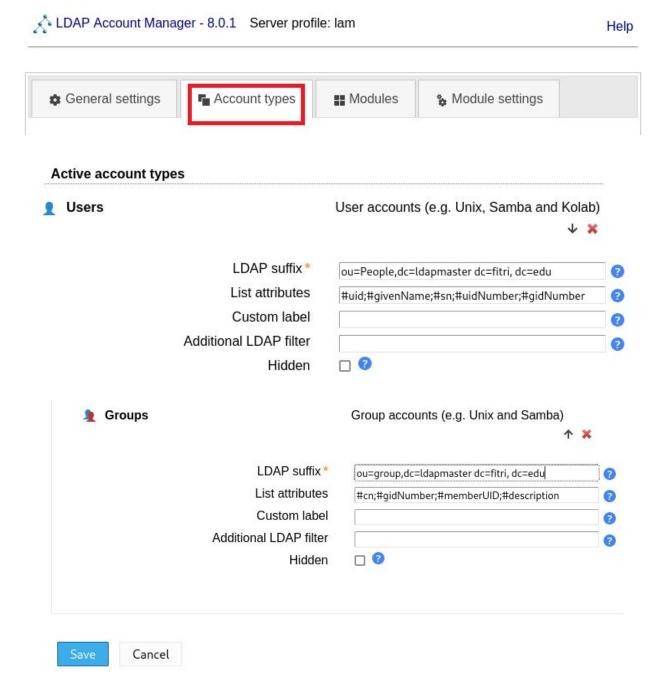
# Konfigurasi Server profile

- Pada Tab General Setting, carilah Tool settings, Security settings dan Profile password
- Pada Profile password, masukkan password baru sesuai keinginan anda
- · Jangan lupa di Save



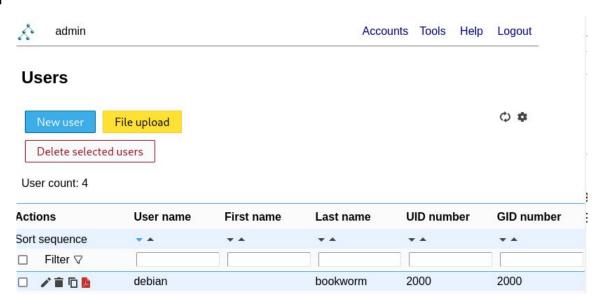


- Klik LAM Configuration
- Login dan masukkan password yang baru kita buat
  - profile name : lam
  - password : [password-baru]
- Buka tab Account Types
- Pada Active account types
- Pada kolom Users, masukkan LDAP Suffix
- Pada kolom Groups, masukkan LDAP Suffix
- Klik Save yang ada dibawah



- Ketika anda menekan save, secara otomatis konfigurasi akan disimpan dan anda akan dibawa ke login page
- Sekarang masuklah kembali dengan username: admin, dengan menggunakan password yang tadi anda set
- Sekarang klik Account, lalu Users
- Nampak user debian yang kita buat lewat file user.ldif



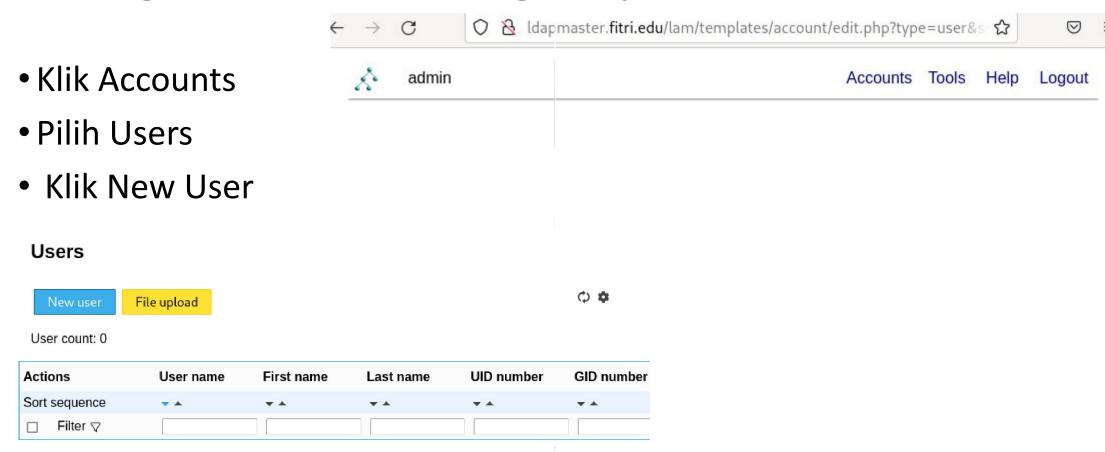


- Sekarang klik Account, lalu Groups
- Nampak group debian yang kita buat lewat file user.ldif

#### Groups



### Konfigurasi user dan group



#### Membuat Group

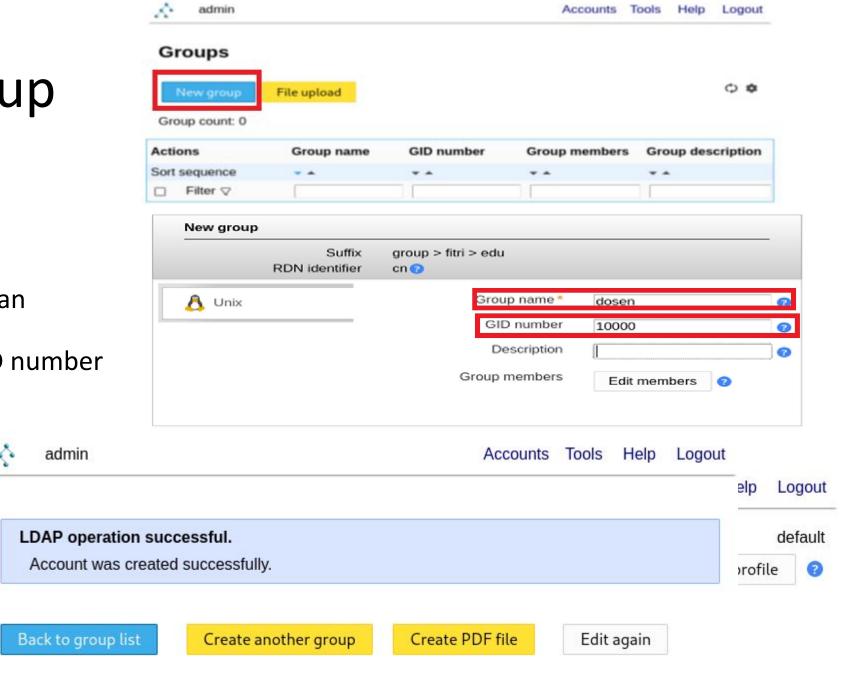
- Klik Accounts
- Pilih Groups
- Klik New Group
- Buat 3 grup: dosen, siswa dan administrasi
- Isikan Group name dan GID number

Group nama: dosen

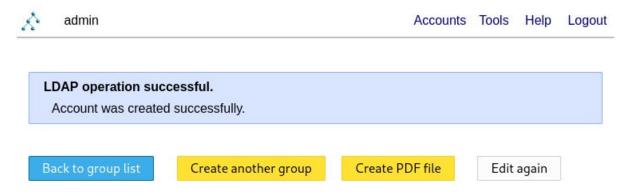
GID number: 10000

GID dimulai dari 10000

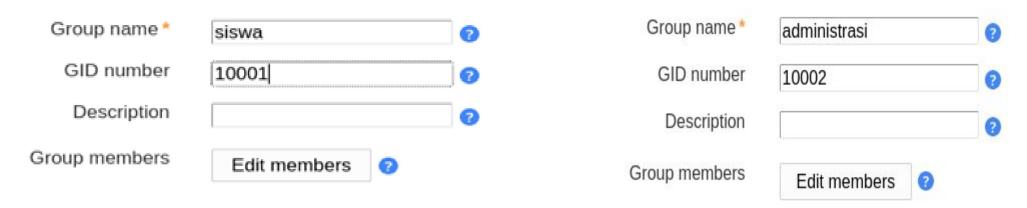
Klik Save



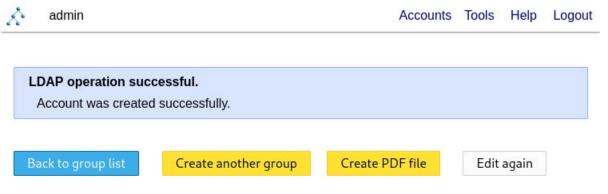
Akan muncul pesan bahwa pembuatan grup sukses



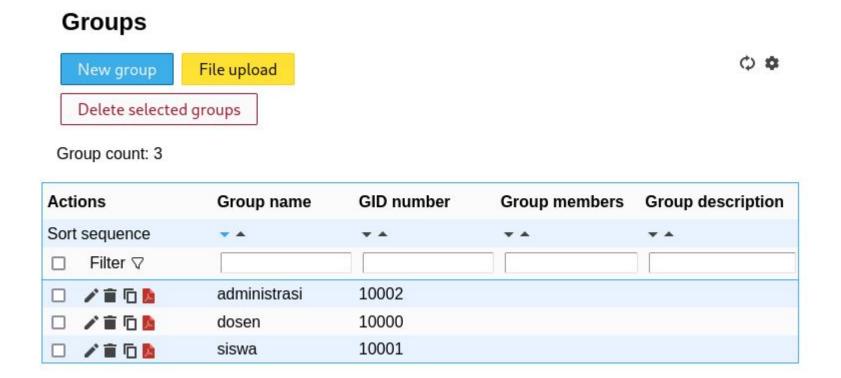
- Klik Create another group untuk membuat grup baru
- Buat 2 grup lagi yaitu siswa dan administrasi



- Klik Save
- Jika sudah terbentuk 3 grup baru, maka klik Back to group list



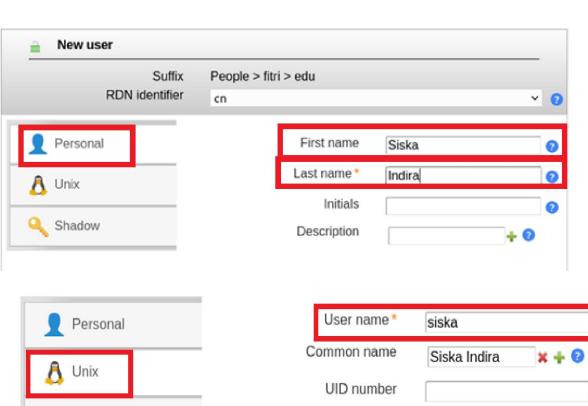
Untuk melihat list grup yang dibuat



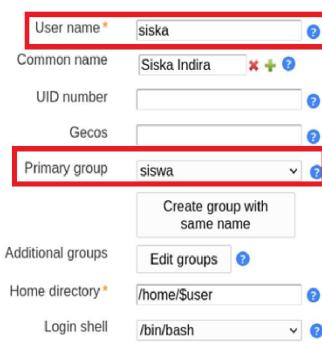
#### Membuat User

- Klik Accounts
- Pilih Users
- Pada tab Personal, pastikan informasi seperti diatas
- Pada tab Unix, masukkan username dan primary group
- Untuk user siska, masukkan ke grup siswa
- Klik Save



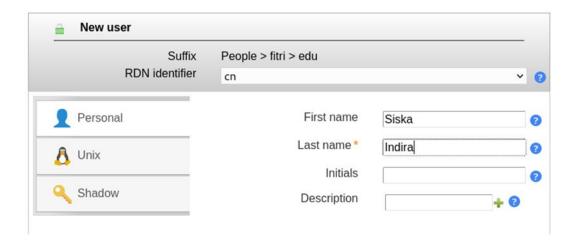


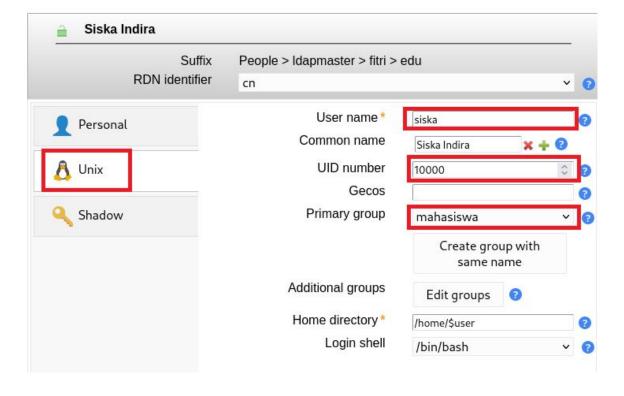
Shadow



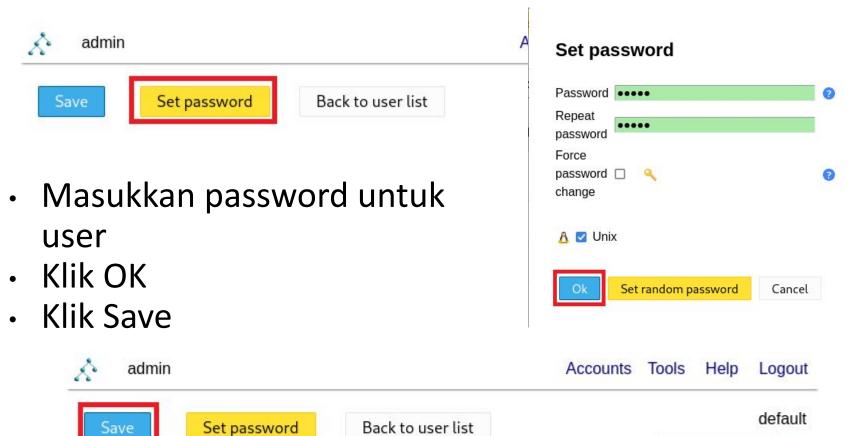
#### Membuat User

- Ada 3 tab, Personal, Unix dan Shadow
- Isi tab Personal seperti disamping
  - Isi First Name dan Last Name
- Klik tab Unix di sebelah kiri
  - Isi User name, UID number dan Primary Group

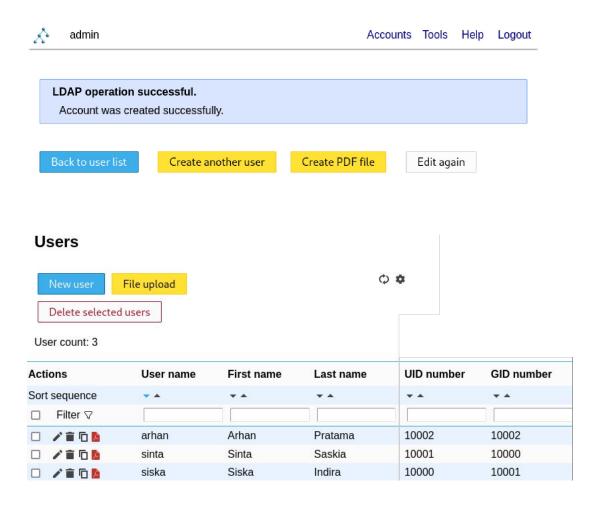




 Jika sudah lakukan setting password

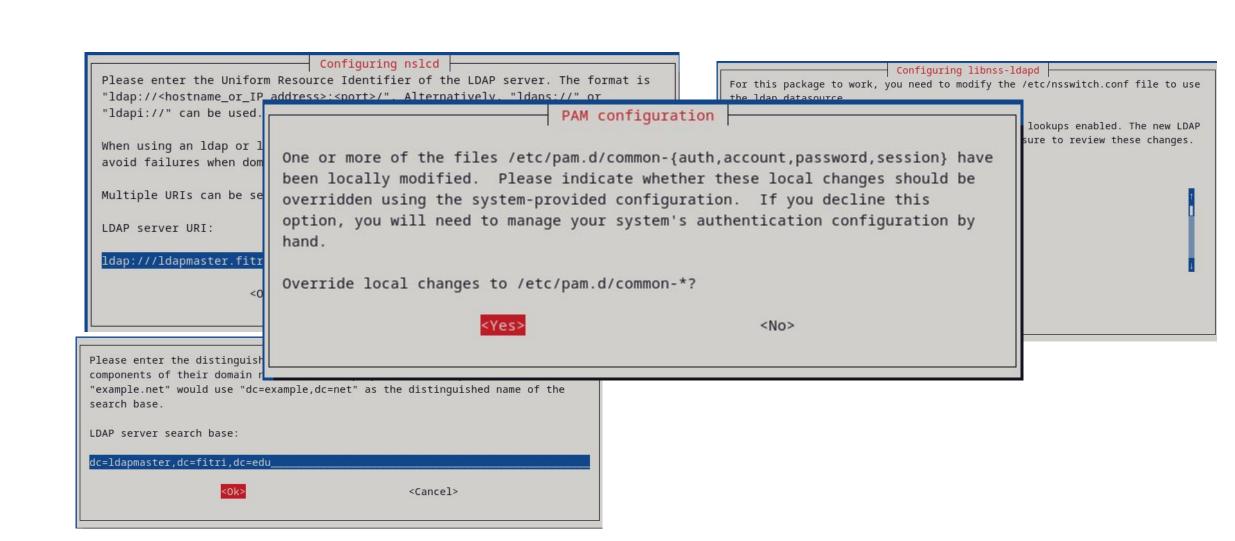


- Setelah tersimpan, maka anda ditawari untuk membuat user baru lagi atau kembali ke listing user
- Klik Create another user jika anda membuat user baru
- Buatlah 2 user baru untuk group administrasi dan dosen
- Untuk melihat user yang telah diciptakan, anda bisa mengklik Back to user list

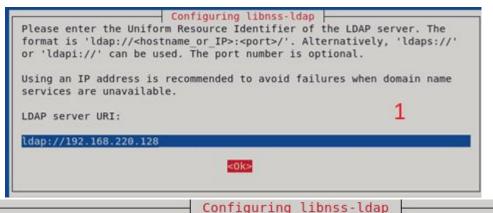


## Instalasi Idap-client

- Buka PC baru / VM baru.
   PC baru atau VM baru ini akan kita jadikan ldap-client
- Install software berikut untuk ldap-client
   #apt install libnss-ldapd libpam-ldapd ldap-utils
- Setelah instalasi, anda akan diminta mengkonfigurasi libnss-ldap
- Ikuti langkah berikut







Please enter the distinguished name of the LDAP search base. Many sites use the components of their domain names for this purpose. For example,

Please enter the distinguished name of the LDAP search base. Many sites use the components of their domain names for this purpose. For example, the domain "example.net" would use "dc=example,dc=net" as

LDAP server search base:

search base.

dc=ldapmaster,dc=fitri,dc=edu

Note: For this to work the account needs permission to access the attributes in the LDAP directory that are related to the users' shade entries as well as users' and groups' passwords.

Int for root:

Ic=fitri,dc=edu

Configuring nslcd

Please enter the distinguished name of the LDAP search base. Many sites use the components of their domain names for this purpose. For example, the domain "example.net" would use "dc=example,dc=net" as the distinguished name of the search base.

LDAP server search base:

dc=ldapmaster,dc=fitri,dc=edu

Configuring libnss-ldap

Please enter the password to use when libnss-ldap tries to login to the LDAP directory using the LDAP account for root.

The password will be stored in a separate file /etc/libnss-ldap.secret which will be made readable to root only.

Entering an empty password will re-use the old password.

5

LDAP root account password:

\*\*\*\*\*\*

COK>

2

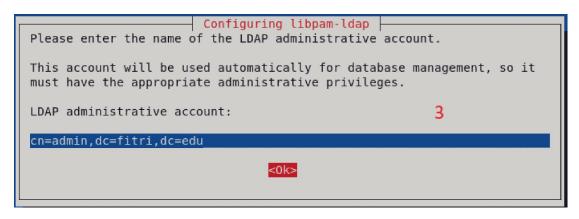
# nsswitch.conf not managed automatically For the libnss-ldap package to work, you need to modify your /etc/nsswitch.conf to use the "ldap" datasource. There is an example file at /usr/share/doc/libnss-ldap/examples/nsswitch.ldap which can be used as an example for your nsswitch setup, or it can be copied over your current setup. Also, before removing this package, it is wise to remove the "ldap" entries from nsswitch.conf to keep basic services functioning.

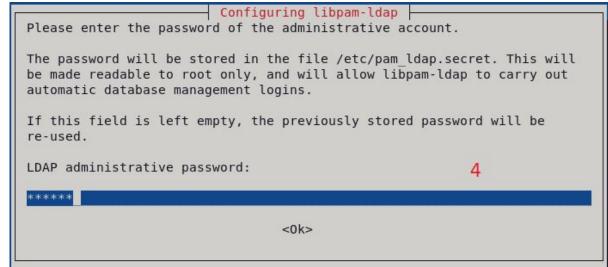
# Konfigurasi libpam-ldap

Sekarang lakukan konfigurasi libpam-ldap

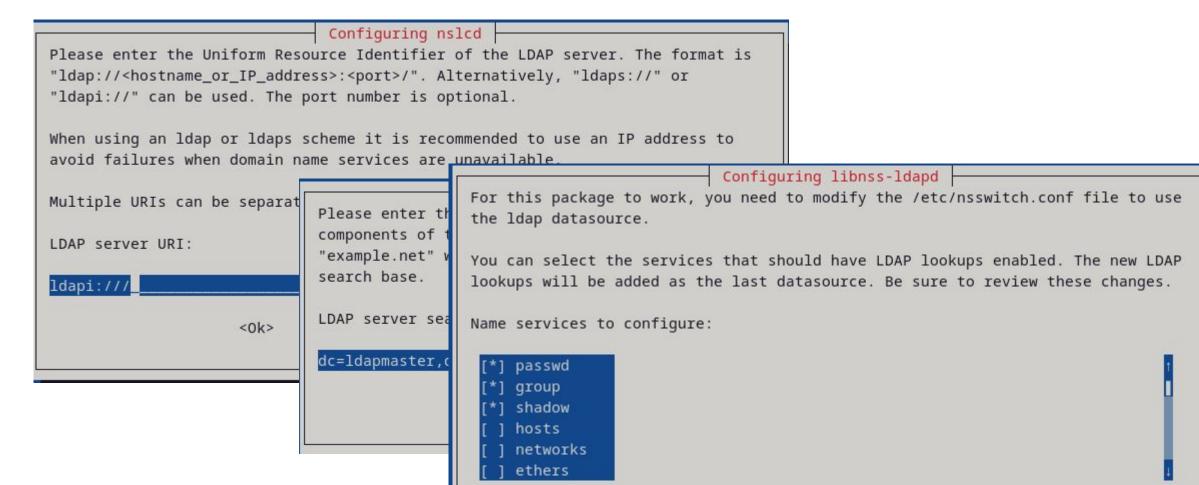
| Configuring libpam-ldap   |  |  |
|---|--|--|
| This option will allow password utilities that use PAM to change local passwords.                           |  |  |
| The LDAP admin account password will be stored in a separate file which will be made readable to root only. |  |  |
| If /etc is mounted by NFS, this option should be disabled.  |  |  |
| Allow LDAP admin account to behave like local root?   |  |  |
| <yes> <no> 1</no></yes>   |  |  |
|   |  |  |

| Configuring libpam-ldap   |                |  |
|---|----------------|--|
| Please choose whether the LDAP server enforces a login before retrieving entries. |                |  |
| Such a setup is not usually needed.   |                |  |
| Does the LDAP database require login?   | 2              |  |
| <yes></yes>   | <no></no>      |  |
|   | - <del> </del> |  |





#### #apt install libpam-ldap



#### PAM configuration

Pluggable Authentication Modules (PAM) determine how authentication, authorization, and password changing are handled on the system, as well as allowing configuration of additional actions to take when starting user sessions.

Some PAM module packages provide profiles that can be used to automatically adjust the behavior of all PAM-using applications on the system. Please indicate which of these behaviors you wish to enable.

PAM profiles to enable:

- [ ] Unix authentication
- [\*] LDAP Authentication
- [\*] Register user sessions in the systemd control group hierarchy
- [ ] Create home directory on login
- [\*] GNOME Keyring Daemon Login keyring management

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#### #pam-auth-update

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## Konfigurasi Name Service Switch (nsswitch)

- Nsswitch bertugas mengkoneksikan PC dengan berbagai konfigurasi database dan resolusi domain
- Nsswitch biasanya digunakan oleh file /etc/passwd, /etc/group, /etc/hosts, Domain Name System (DNS), Network Information Service (NIS, NIS+), dan LDAP.
- Sekarang, backup dulu nsswitch.conf
   #cp /etc/nsswitch.conf /etc/nsswitch.conf.orig
- Lakukan file konfigurasi nsswitch.conf #nano /etc/nsswitch.conf Hapus atau beri tanda # pada passwd, group dan shadow Masukkan

```
passwd: compat ldap group: compat ldap shadow: compat ldap
```

```
/etc/nsswitch.conf *
  GNU nano 5.4
# /etc/nsswitch.conf
# Example configuration of GNU Name Service Switch functionality.
# If you have the `glibc-doc-reference' and `info' packages installed
# `info libc "Name Service Switch"' for information about this file.
                 files systemd
#passwd:
                compat ldap
passwd:
#aroup:
group:
                compat ldap
#shadow:
shadow:
                compat ldap
gshadow:
                †iles
                files mdns4 minimal [NOTFOUND=return] dns myhostname
hosts:
networks:
                files
protocols:
                db files
                db files
services:
ethers:
                db files
```

## Konfigurasi File common-password

- Sekarang, backup dulu common-password
   #cp /etc/pam.d/common-password /etc/pam.d/common-password.orig
   Lakukan konfigurasi pada file common-password. Anda dapat menggunakan nano
   #nano +26 /etc/pam.d/common-password
   nano akan bergerak ke baris 26
- Hapus use\_authtok di baris 26,

```
password [success=1 user_unknown=ignore default=die] pam_ldap.so use_authtok try_first_pass
```

• Edit seperti baris dibawah :

```
password [success=1 user_unknown=ignore default=die] pam_ldap.so try_first_pass
```

Simpan dan exit

## Konfigurasi File common-session

- Sekarang, backup dulu common-session
   #cp /etc/pam.d/common-session /etc/pam.d/common-session.orig
- Lakukan konfigurasi pada file common-password. Anda dapat menggunakan nano
  - #nano /etc/pam.d/ common-session
- Carilah baris terakhir sebelum #end of pam-auth-update config
- Tambahkan

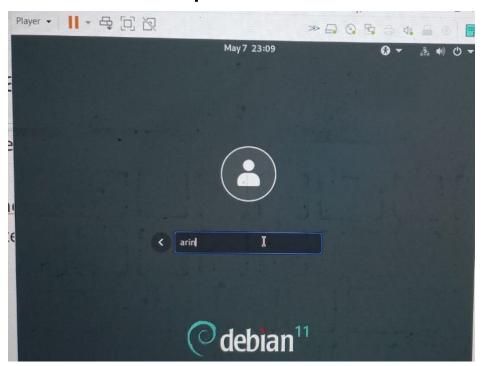
```
session optional pam_mkhomedir.so skel=/etc/skel umask=077
# end of pam-auth-update config
```

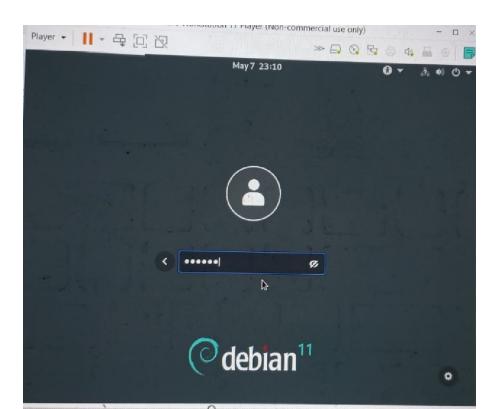
Simpan dan exit

- Sekarang reboot PC-Idap client anda #reboot
- Ketika muncul ke screen awal Debian, klik Not listed?



- Masukkan salah satu user
- Disini dimasukkan arin
- Masukkan password untuk arin





- Ketika berhasil login, maka LDAP client akan membuat directory /home/arin di server
- Buka terminal. Ternyata anda sudah diarahkan ke home directory arin



Maka akan nampak, anda berada di /home/arin yang berada di server

• Sekarang, ketikkan id dan whoami. Perhatikan hasilnya:

```
arin@debian11-server:~

arin@debian11-server:~

id

uid=10002(arin) gid=10002(administrasi) groups=10002(administrasi)

arin@debian11-server:~$ whoami

arin
```

- Coba login sebagai root, install finger
   \$su root
   #apt install finger
- Sekarang balik lagi sebagai arin
  #su arin
  \$finger arin

```
arin@debian11-server:~$ su - root
  Password:
   root@debian11-server:~# apt install finger
  Reading package lists... Done
  Building dependency tree... Done
  Reading state information... Done
root@debian11-server:~# su - arin
arin@debian11-server:~$ finger arin
Login: arin
                                       Name: Arin Himura
Directory: /home/arin
                                      Shell: /bin/bash
On since Sun May 7 23:34 (WIB) on tty3 from tty3
   1 hour 42 minutes idle
No mail.
No Plan.
arin@debian11-server:~$
```

- Anda dapat melihat baik perintah id, whoami dan finger memberikan informasi yang sama seperti waktu kita membuat user arin di LDAP server.
- Ini berarti LDAP client mengambil informasi di LDAP server tentang user arin
- Berpindahlah dari user arin ke user siska

\$su – siska

- DAP client akan membuat directory /home/siska di server
- Lakukan beberapa perintah berikut pada user-user lainnya

\$pwd

\$id

\$whoami

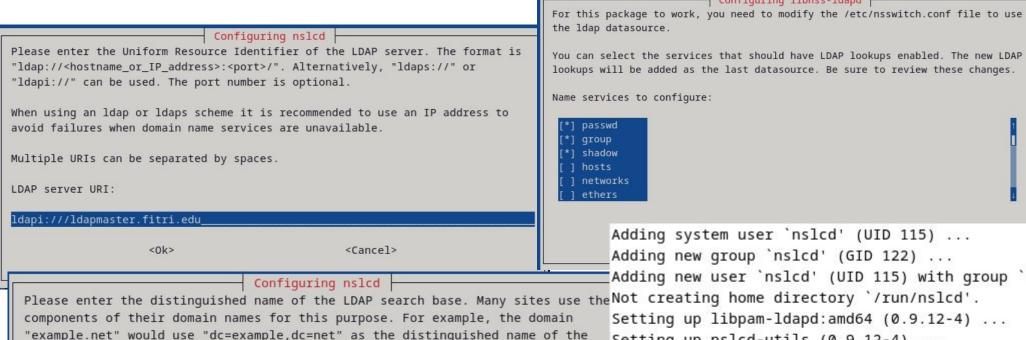
\$finger

### Pustaka

- <a href="https://www.linuxbabe.com/debian/set-up-openIdap-server-debian">https://www.linuxbabe.com/debian/set-up-openIdap-server-debian</a>
- https://www.howtoforge.com/how-to-install-openIdap-server-on-debian-12/
- https://computingforgeeks.com/how-to-configure-ubuntu-as-ldap-client/

https://www.flofaber.com/log/debian-ldap-auth

https://ubuntu.com/server/docs/how-to-set-up-sssd-with-ldap



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search base.

LDAP server search base:

dc=ldapmaster,dc=fitri,dc=edu

You can select the services that should have LDAP lookups enabled. The new LDAP lookups will be added as the last datasource. Be sure to review these changes. Name services to configure: \*1 passwd [\*] group \*] shadow 1 hosts 1 networks 1 ethers Adding system user `nslcd' (UID 115) ... Adding new group `nslcd' (GID 122) ... Adding new user 'nslcd' (UID 115) with group 'nslcd' . Setting up libpam-ldapd:amd64 (0.9.12-4) ... Setting up nslcd-utils (0.9.12-4) ... Setting up libnss-ldapd:amd64 (0.9.12-4) ... /etc/nsswitch.conf: enable LDAP lookups for group /etc/nsswitch.conf: enable LDAP lookups for passwd /etc/nsswitch.conf: enable LDAP lookups for shadow Processing triggers for man-db (2.11.2-2) ... Processing triggers for libc-bin (2.36-9+deb12u7) ... root@debian12:~#

Configuring libnss-ldapd

#### #pam-auth-update

PAM configuration

One or more of the files /etc/pam.d/common-{auth,account,password,session} have been locally modified. Please indicate whether these local changes should be overridden using the system-provided configuration. If you decline this option, you will need to manage your system's authentication configuration by hand.

Override local changes to /etc/pam.d/common-\*?

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