# **LDAP**

Disusun untuk memenuhi tugas mata kuliah : Workshop Administrasi & Manajemen Jaringan Dosen Pengampu : Fitri Setyorini ST., M.Sc



# Oleh:

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# KELAS 2 D3 TEKNIK INFORMATIKA POLITEKNIK ELEKTRONIKA NEGERI SURABAYA KAMPUS SUMENEP 2022

### 1. Pastikan DNS telah berjalan dengan baik

root@affan:/etc/bind# nslookup ns1.affan.com
Server: 192.168.29.1
Address: 192.168.29.1#53

Name: ns1.affan.com
Address: 192.168.29.11

root@affan:/etc/bind# nslookup 192.168.29.11
11.29.168.192.in-addr.arpa name = www.affan.com.29.168.192.in-addr.arpa.
11.29.168.192.in-addr.arpa name = ftp.affan.com.29.168.192.in-addr.arpa.
11.29.168.192.in-addr.arpa name = ftp.affan.com.29.168.192.in-addr.arpa.

### 2. Update Debian kemudian install slapd

```
root@affan:/etc/bind# /etc/init.d/networking restart
[ ok ] Restarting networking (via systemctl): networking.service.
root@affan:/etc/bind# apt update
Get:1 http://security.debian.org/debian–security buster/updates InRelease [65,4 kB]
Hit:2 http://deb.debian.org/debian buster InRelease
Get:3 http://deb.debian.org/debian buster–updates InRelease [51,9 kB]
Get:4 http://security.debian.org/debian–security buster/updates/main Sources [237 kB]
Get:5 http://security.debian.org/debian–security buster/updates/main amd64 Packages [
Get:6 http://security.debian.org/debian–security buster/updates/main Translation–en
Reading package lists... Done
E: Release file for http://deb.debian.org/debian/dists/buster–updates/InRelease is no
valid for another 2h 25min 52s). Updates for this repository will not be applied.
root@affan:/etc/bind# apt install slapd
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
 linux-image-4.19.0-18-amd64
Use 'apt autoremove' to remove it.
The following additional packages will be installed:
 libldap-2.4-2 libodbc1
Suggested packages:
  libmyodbc odbc-postgresql tdsodbc unixodbc-bin ldap-utils libsasl2-modules-gssapi-m
  | libsas12-modules-gssapi-heimdal
The following NEW packages will be installed:
  libodbc1 slapd
The following packages will be upgraded:
 libldap-2.4-2
1 upgraded, 2 newly installed, 0 to remove and 11 not upgraded.
Need to get 1.886 kB of archives.
After this operation, 16,7 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

# 3. Cek apakah slapd telah terkonfigurasi dengan benar

```
root@affan:/# slapcat
dn: dc=affan,dc=com
objectClass: top
objectClass: dcObject
objectClass: organization
o: affan.com
ldc: affan
structuralObjectClass: organization
entryUUID: 9996c196–7def–103c–962d–e3fbdda518e8
creatorsName: cn=admin,dc=affan,dc=com
createTimestamp: 20220611163050Z
entryCSN: 20220611163050.508847Z#000000#000#000000
modifiersName: cn=admin,dc=affan,dc=com
modifyTimestamp: 20220611163050Z
dn: cn=admin,dc=affan,dc=com
objectClass: simpleSecurityObject
objectClass: organizationalRole
cn: admin
description: LDAP administrator
userPassword:: e1NTSEF9bkI3UndKdG5DRmZRUmxyTENhTE1CWDh1ZWxWY2pYU2k=
structuralObjectClass: organizationalRole
entryUUID: 99970610–7def–103c–962e–e3fbdda518e8
creatorsName: cn=admin,dc=affan,dc=com
createTimestamp: 20220611163050Z
entryCSN: 20220611163050.510655Z#000000#000#000000
modifiersName: cn=admin,dc=affan,dc=com
modifyTimestamp: 20220611163050Z
 oot@affan:/# slapcat | grep dn
dn: dc=affan,dc=com
dn: cn=admin,dc=affan,dc=com
root@affan:/var/lib/ldap# ls
data.mdb lock.mdb
root@affan:/var/lib/ldap# cp data.mbd data.mbd.backup
cp: tidak dapat memperoleh statistik 'data.mbd': Tidak ada berkas atau direktori sepe
root@affan:/var/lib/ldap# cp data.mdb data.mdb.backup
root@affan:/var/lib/ldap# ls
data.mdb data.mdb.backup
                            lock.mdb
root@affan:/var/lib/ldap#
 oot@affan:/# systemctl status slapd
 slapd.service – LSB: OpenLDAP standalone server (Lightweight Directory Access Proto Loaded: loaded (/etc/init.d/slapd; generated)
   Active: active (running) since Sun 2022-06-12 07:27:58 WIB; 10min ago
    Docs: man:systemd-sysv-generator(8)
 Process: 569 ExecStart=/etc/init.d/slapd start (code=exited, status=0/SUCCESS)
    Tasks: 3 (limit: 1149)
   Memory: 6.1M
   CGroup: /system.slice/slapd.service
└─663 /usr/sbin/slapd —h ldap:/// ldapi:/// —g openldap —u openldap —F /et
Jun 12 07:27:58 affan systemd[1]: Starting LSB: OpenLDAP standalone server (Lightweig
Jun 12 07:27:58 affan slapd[619]: @(#) $OpenLDAP: slapd (May 14 2022 18:35:44) $
Debian OpenLDAP Maintainers <pkg-openldap-c
Jun 12 07:27:58 affan slapd[663]: slapd starting
Jun 12 07:27:58 affan slapd[569]: Starting OpenLDAP: slapd.
Jun 12 07:27:58 affan systemd[1]: Started LSB: OpenLDAP standalone server (Lightweigh
lines 1-16/16 (END)
```

### 4. Install Idap

```
root@affan:/# apt install ldap–utils
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
linux–image–4.19.0–18–amd64
Use 'apt autoremove' to remove it.
Suggested packages:
 libsas12-modules-gssapi-mit | libsas12-modules-gssapi-heimdal
The following NEW packages will be installed:
 ldap-utils
O upgraded, 1 newly installed, O to remove and 11 not upgraded.
Need to get 199 kB of archives.
After this operation, 727 kB of additional disk space will be used.
Get:1 http://security.debian.org/debian–security buster/updates/main amd64 ldap–utils
fsg-3+deb10u7 [199 kB]
Fetched 199 kB in 2s (102 kB/s)
Selecting previously unselected package ldap–utils.
(Sedang membaca basis data ... 48704 berkas atau direktori telah terpasang.)
Preparing to unpack .../ldap-utils_2.4.47+dfsg-3+deb10u7_amd64.deb ...
Unpacking ldap-utils (2.4.47+dfsg-3+deb10u7) ..
Sedang menata ldap-utils (2.4.47+dfsg-3+deb10u7) ...
Processing triggers for man–db (2.8.5–2) ...
```

# 5. Install apache2

```
root@affan:/etc/ldap# apt intsall apache2
E: Invalid operation intsall
root@affan:/etc/ldap# cd ..
root@affan:/etc# cd ..
root@affan:/# apt intsall apache2
E: Invalid operation intsall
root@affan:/# apt install apache2
E: Invalid operation intsall
root@affan:/# apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
apache2 is already the newest version (2.4.38–3+deb10u7).
The following package was automatically installed and is no longer required:
    linux-image-4.19.0–18-amd64
Use 'apt autoremove' to remove it.
O upgraded, O newly installed, O to remove and 11 not upgraded.
```

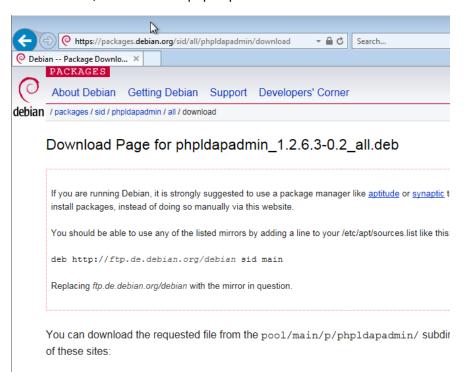
# 6. Install php

```
root@affan:/# apt install php
Reading package lists... Done
Building dependency tree
Reading state information... Done
php is already the newest version (2:7.3+69).
The following package was automatically installed and is no longer required:
   linux-image-4.19.0-18-amd64
Use 'apt autoremove' to remove it.
O upgraded, O newly installed, O to remove and 11 not upgraded.
```

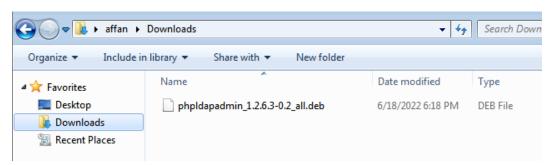
7. Restart dan cek status apache2

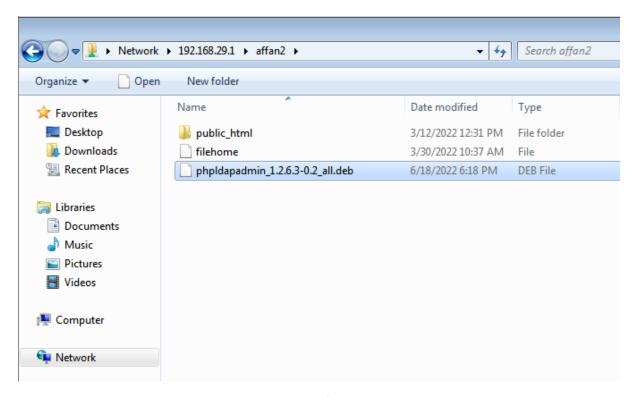
```
oot@affan:/# systemctl restart apache2
root@affan:/# systemctl status apache2
 apache2.service – The Apache HTTP Server
  Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabl
  Active: active (running) since Sun 2022-06-12 08:08:30 WIB; 5s ago
     Docs: https://httpd.apache.org/docs/2.4/
 Process: 1871 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
Main PID: 1875 (apache2)
    Tasks: 6 (limit: 1149)
  Memory: 14.1M
  CGroup: /system.slice/apache2.service
             -1875 /usr/sbin/apache2 –k start
             -1876 /usr/sbin/apache2 –k start
             1877 /usr/sbin/apache2 –k start
             1878 /usr/sbin/apache2 –k start
1879 /usr/sbin/apache2 –k start
             1880 /usr/sbin/apache2 –k start
Jun 12 08:08:30 affan systemd[1]: apache2.service: Succeeded.
Jun 12 08:08:30 affan systemd[1]: Stopped The Apache HTTP Server.
Jun 12 08:08:30 affan systemd[1]: Starting The Apache HTTP Server...
Jun 12 08:08:30 affan systemd[1]: Started The Apache HTTP Server.
```

8. Buka browser, lalu download phpldapadmin



9. Buka file manager, lalu copy hasil download phpldapadmin ke file sharing Debian





10. Kembali ke Debian, lalu masuk ke directory tempat file yang telah di share diatas, setelah itu install phpldapadmin dengan dpkg

```
root@affan:~# cd /home/affan2
root@affan:/home/affan2# ls
filehome public_html squirrelmail-webmail-1
phpldapadmin_1.2.6.3-0.2_all.deb squirrelmail-webmail-1.4.22
root@affan:/home/affan2# dpkg -i phpldapadmin_1.2.6.3-0.2_all.deb
(Sedang membaca basis data ... 45072 berkas atau direktori telah terpasang.)
Preparing to unpack phpldapadmin_1.2.6.3-0.2_all.deb ...
Unpacking phpldapadmin (1.2.6.3-0.2) ...
Sedang menata phpldapadmin (1.2.6.3-0.2) ...

Creating config file /etc/phpldapadmin/config.php with new version
apache2_invoke: Enable configuration phpldapadmin.conf
root@affan:/home/affan2# _
```

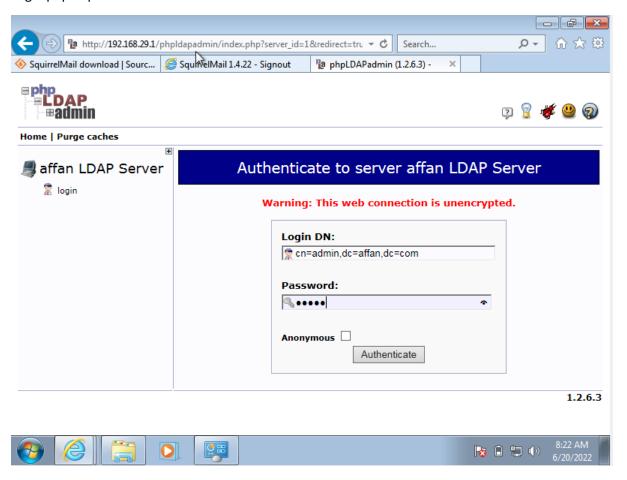
11. Masuk ke directory /etc/phpldapadmin, backup config.php

# 12. Setting config.php

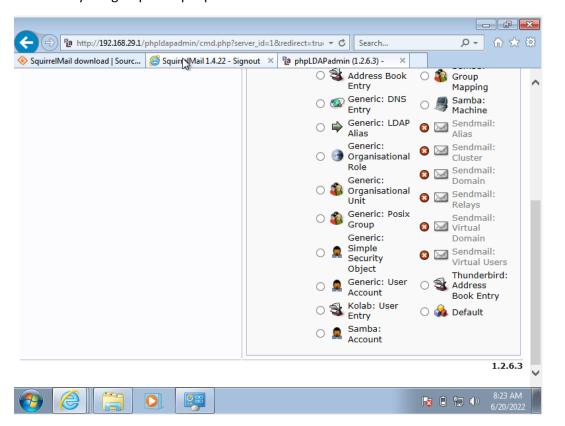
### 13. Buka browser lalu buka phpldapadmin

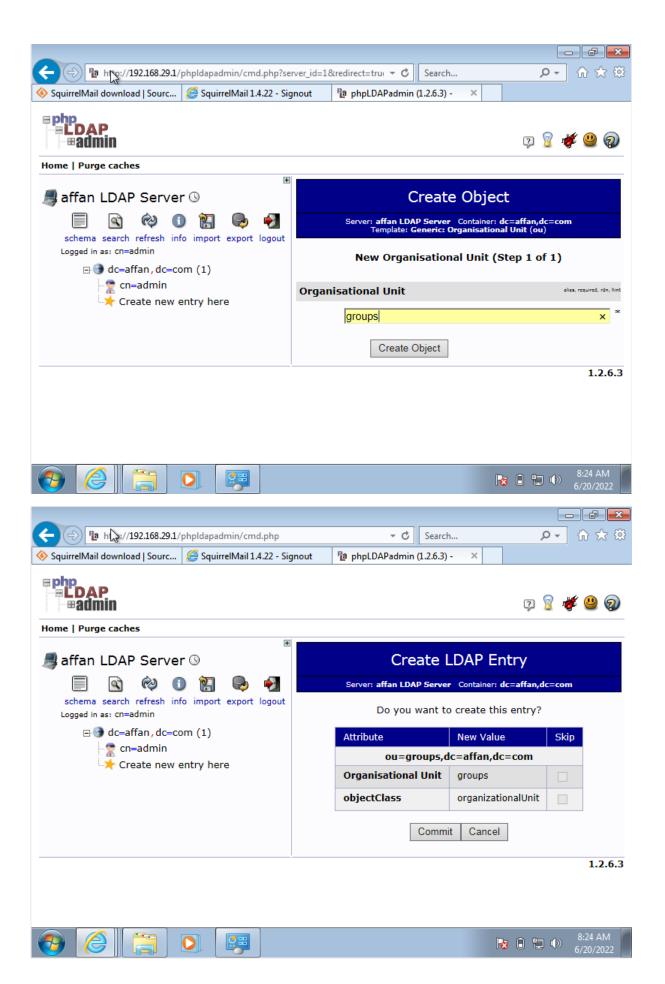


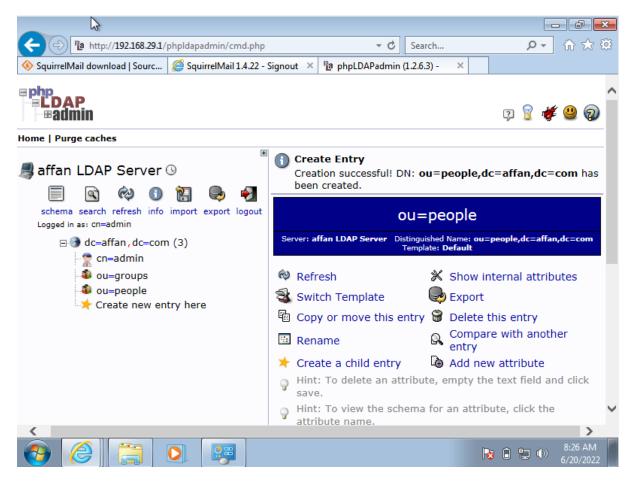
# 14. Login phpldapadmin



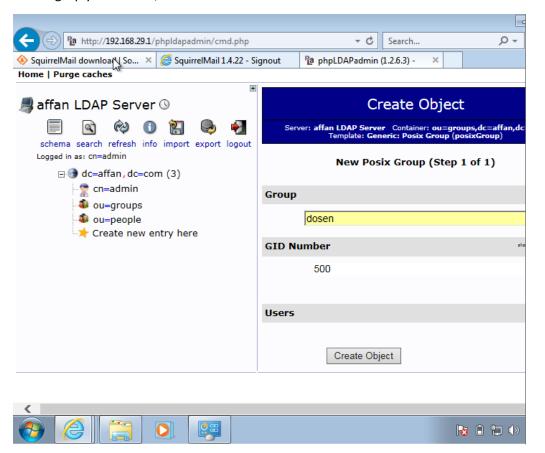
15. Buat 2 OU yaitu groups dan people

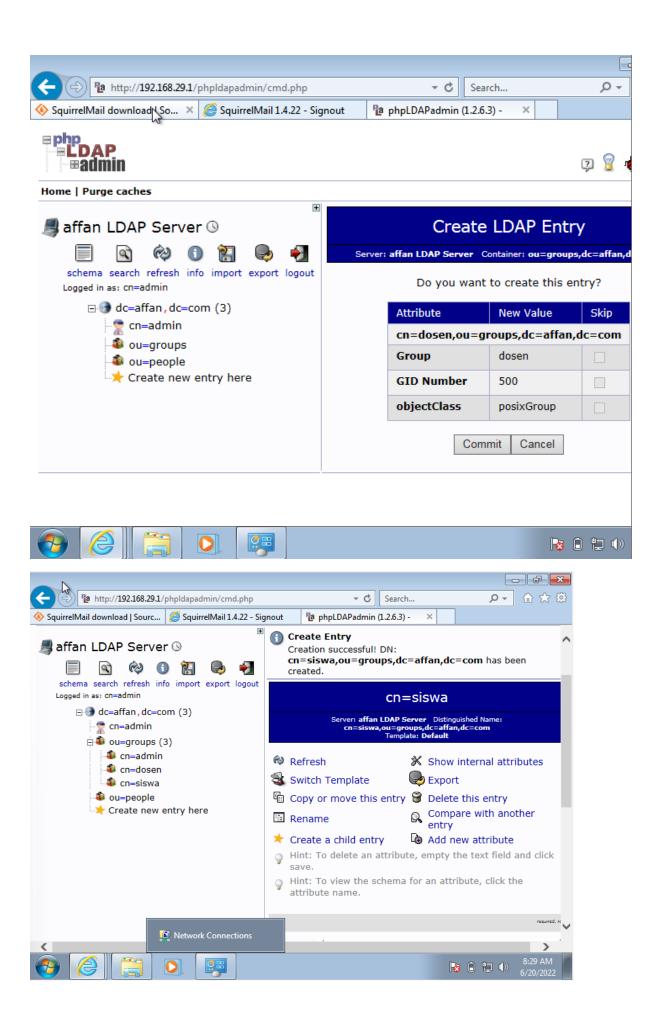




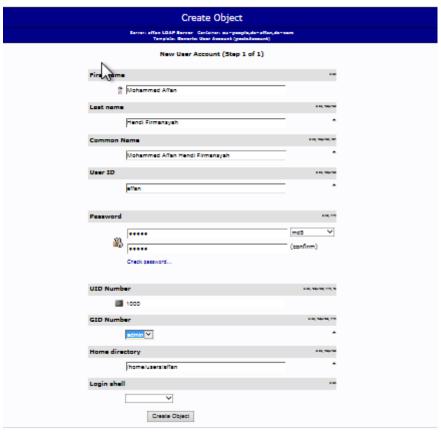


16. Buat 3 grup yaitu dosen, admin dan siswa





17. Buat 3 user di phpldapadmin dan masing – masing user masuk ke grup dosen, siswa, dan admin





### 18. Hasil



### 19. Install libpam-ldap

```
root@affan:/etc/phpldapadmin# cd ..
root@affan:/etc# cd ..
root@affan:/# apt install libpam–ldap
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  libpam-ldap
O upgraded, 1 newly installed, O to remove and O not upgraded.
Need to get O B/87,O kB of archives.
After this operation, 250 kB of additional disk space will be used.
Prakonfigurasi paket ...
(Sedang membaca basis data ... 45757 berkas atau direktori telah terpasang.)
Preparing to unpack .../libpam–ldap_186–4_amd64.deb ...
Unpacking libpam–ldap:amd64 (186–4) ...
Sedang menata libpam–ldap:amd64 (186–4)
Processing triggers for man–db (2.8.5–2)
```

20. Buat atribut baru, cari gecos kemudian masukkan sshen di kolom gecos



21. Jika tidak mendapatkan attribute pada Langkah sebelumnya, cari ObjectClass klik huruf I di depan PosixAccount. Klik Attribute Types kemudian cari gecos

