LDAP

Deb 1

```
GNU nano 3.2

Construction of the state of t
```



```
Peer Address: Port
          Recv-Q
                    Send-Q
                                   Local Address: Port
State
ESTAB
LISTEN
                    128
                                                *:80
LISTEN
                    128
shuhari@ldap:~$ sudo ss -anu
State
          Recv-Q
                    Send-Q
                                         0.0.0.0:68
JNCONN
```

```
shuhari@ldap:~$ sudo hostname -d
shuharilabs.local
shuhari@ldap:~$ sudo hostname -s
ldap
shuhari@ldap:~$ sudo hostname -f
ldap.shuharilabs.local
```

Sudo apt-get install slapd

Sudo apt-get update

Sudo slpacat

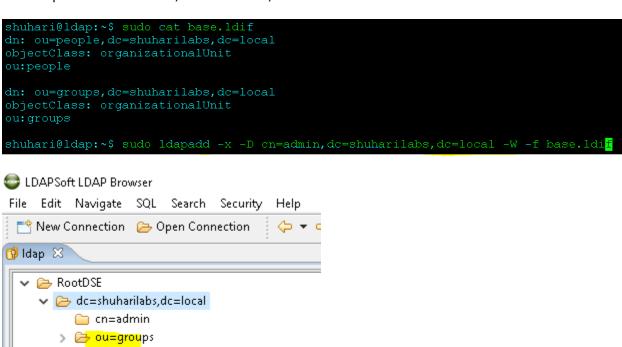
sudo apt-get install Idap-utils

> 🗁 ou=people

sudo ldapsearch -x -LLL -b "dc = shuharilabs, dc = local"

sudo nano base.ldif

sudo ldapadd -x -D cn=admin,dc=shuharilabs,dc=local -W -f base.ldif



```
shuhari@ldap:~$ sudo ldapsearch -x -LLL -b "dc = shuharilabs, dc = local"
dn: dc=shuharilabs,dc=local
objectClass: top
objectClass: dcObject
objectClass: organization
o: shuharilabs.local
dc: shuharilabs
dn: cn=admin,dc=shuharilabs,dc=local
objectClass: simpleSecurityObject
objectClass: organizationalRole
cn: admin
description: LDAP administrator
dn: ou=people,dc=shuharilabs,dc=local
objectClass: organizationalUnit
ou: people
dn: ou=groups,dc=shuharilabs,dc=local
objectClass: organizationalUnit
ou: groups
```

Sudo slappasswd

Sudo nano user.ldif

👺 shuhari@ldap: ~

```
GNU nano 3.2
                                                  user.ldif
dn: uid=user1,ou=people,dc=shuharilabs,dc=local
objectClass: inetOrgPerson
objectClass: posixAccount
objectClass: shadowAccount
cn: user1
sn: user1
userPassword: {SSHA}XrzuRDNh24zzuRj68rJaFkU0XXL+/OwD
loginShell: /bin/bash
uidNumber: 2000
gidNumber: 2000
homeDirectory: /home/user1
dn: cn=user1,ou=groups,dc=shuharilabs,dc=local
objectClass: posixGroup
cn: user1
gidNumber: 2000
memberUid: user1
```

```
Shuhari@Idap: $ sudo Idapadd -x -D cn=admin, dc=shuharilabs, dc=local -W -f user.ldif
Enter LDAP Password:
adding new entry "uid=user1, ou=people, dc=shuharilabs, dc=local"

LDAPSoftLDAP Browser

File Edit Navigate SQL Search Security Help

New Connection  Open Connection

RootDSE

Ac=shuharilabs,dc=local

cn=admin

cn=admin

cn=user1

cn=user1

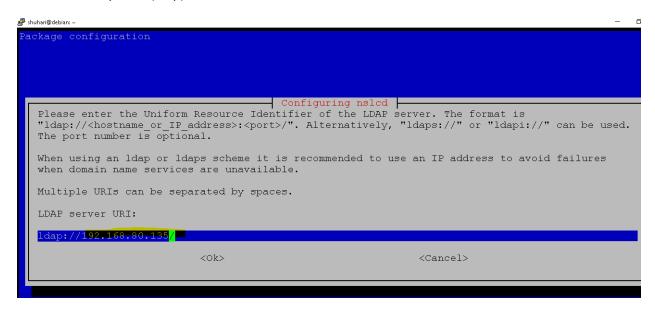
cn=user1

did=user1
```

DEB 2 CLIENT SIDE

```
python@debian:~$ sudo apt-get update
[sudo] password for python:
Hit:1 http://192.168.1.251/sw/repo/deb10 buster InRelease
Reading package lists... Done
python@debian:~$ sudo apt-get install libnss-ldapd
Reading package lists... Done
Building dependency tree
Reading state information... Done
libnss-ldapd is already the newest version (0.9.10-2).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
python@debian:~$ sudo apt-get install libpam-ldapd
Reading package lists... Done
Building dependency tree
Reading state information... Done
libpam-ldapd is already the newest version (0.9.10-2).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
python@debian:~$
```

Mention deb1 ip here (ldap)





```
Package configuration

For this package to work, you need to modify the /etc/nsswitch.conf file to use the ldap datasource.

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:

[*] passwd
[*] group
[*] shadow
[ ] hosts
[ ] ethers
[ ] protocols
[ ] services
[ ] rpc
[ ] netgroup
[ ] aliases

(Ok>
```

Comment the certificate

```
# The LDAP protocol version to use.
#ldap_version 3

# The DN to bind with for normal lookups.
#binddn cn=annonymous,dc=example,dc=net
#bindpw secret

# The DN used for password modifications by root.
#rootpwmoddn cn=admin,dc=example,dc=com

# SSL options
#ssl off
#tls_reqcert never
# ls_cacertfile /etc/ssl/certs/ca-certificates.crt

# The search scope.
#scope sub
```

Check both boxes

```
Package 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

[*] Create home directory on login

<Ok>
<Cancel>
```

```
shuhari@debian:~$ sudo getent passwd userl user1:x:2000:2000:user1:/home/user1:/bin/bash
```

Login through putty of client

```
login as: user1
user1@192.168.80.134's password:
Linux debian 4.19.0-5-amd64 #1 SMP Debian 4.19.37-5 (2019-06-19) x86_64

The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

Last login: Thu May 18 01:42:50 2023 from 192.168.80.1

user1@debian:~$
```