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DEPARTMENT OF COMPUTER SCIENCE

Page No. : 31

Expt. No.

6

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Title of Experiment : Configure LDAP server

Date

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Sub titles : Assignment/ Problem Solution, Flow chart/Algorithm, Problem Listing,
Input Screen, Output Screen, Comments (If any)

Aim :- Configure LDAP server, configure LDAP server in order to share users accounts in the network. Install phpLDAPadmin to operate LDAP server via web browser.

Theory :-

• LDAP

- The Lightweight Directory Access Protocol or LDAP is a protocol for querying and modifying, OX-500-based directory service running over TCP/IP.
- The current LDAP version is LDAP v3 as defined in RFC4510 and implementation in Ubuntu is OpenLDAP.
- So the LDAP protocol accesses LDAP directories there are some key concepts and terms.
- ✓ - A LDAP directory is a tree of data entries that is hierarchical in nature and is called the directory information tree (DIT).

Remark

Signature

- An entry consists of a set of attributes & ~~# Install NIS~~ has a type (name/description) sudo apt and one or more values.

- Every attribute must be defined in schemas.
- Each entry has a unique identifier its Distinguished Name (DN or dn). This in turn, consists of a Relative Distinguished Name (RDN) followed by the parent entry's DN.

- The entry's DN is not an attribute. It is not considered part of the entry itself.

Install OpenLDAP
sudo apt-get-y install slapd ldap-utils

Install phpLDAP admin
sudo apt-get-y install phpldapadmin
sudo nano /etc/phpldapadmin/config.php

Practical 7

```
root@xyz-VirtualBox:~# sudo apt install slapd ldap-utils
```

Reading package lists... Done

```
root@xyz-VirtualBox:~# systemctl status slapd
```

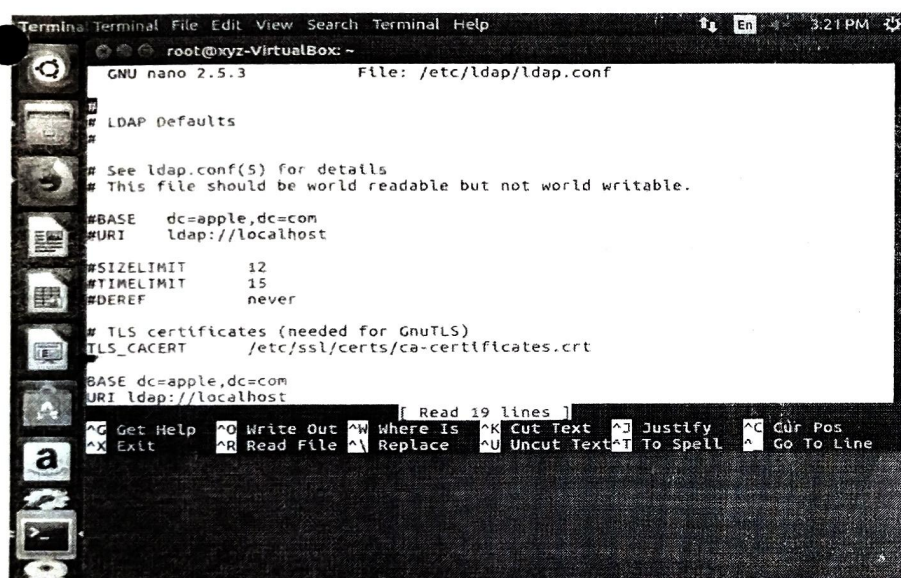
- slapd.service - LSB: OpenLDAP standalone server (Lightweight Directory Access
Active: active (running) since Wed 2023-10-04 14:30:12 IST; 9min ago

```
root@xyz-VirtualBox:~# sudo dpkg-reconfigure slapd
```

Moving old database directory to /var/backups:

Creating LDAP directory... done.

```
root@xyz-VirtualBox:~# sudo nano /etc/ldap/ldap.conf
```



```
Terminal Terminal File Edit View Search Terminal Help 3:21 PM
root@xyz-VirtualBox: ~
GNU nano 2.5.3 File: /etc/ldap/ldap.conf

# LDAP Defaults
#
# See ldap.conf(5) for details
# This file should be world readable but not world writable.
#BASE    dc=apple,dc=com
#URI      ldap://localhost
#SIZELIMIT 12
#TIMELIMIT 15
#DEREF    never
# TLS certificates (needed for GnuTLS)
TLS_CACERT /etc/ssl/certs/ca-certificates.crt
BASE dc=apple,dc=com
URI ldap://localhost

[ Read 19 lines ]
Get Help  Write Out  Where Is  Cut Text  Justify  Cur Pos
Exit      Read File  Replace  Uncut Text To Spell  Go To Line
```

```
root@xyz-VirtualBox:~# ldapsearch -x
```

extended LDIF

result: 0 Success

```
root@xyz-VirtualBox:~# sudo apt install phpldapadmin
```

Reading package lists... Done

Reading state information... Done

```
root@xyz-VirtualBox:~# nano /etc/phpldapadmin/config.php
```

Line 293 specifies that phpLDAP admin will connect to localhost.

```
$servers->setValue('server','host','127.0.0.1');
```

Line 296 is commented out by default, which means the standard port 389 will be used.

```
// $servers->setValue('server','port',389);
```

Line 335 is commented out by default, which means TLS encryption is not enabled.

```
// $servers->setValue('server','tls',false);
```

Then go to line 300.

```
$servers->setValue('server','base',array('dc=example,dc=com'));
```

Change it to:

```
$servers->setValue('server','base',array());
```

This will let phpLDAPadmin automatically detect the base DN of your OpenLDAP server. Next,

You can disable anonymous login. Go to line 453.

```
// $servers->setValue('login','anon_bind',true);
```

By default, anonymous login is enabled. To disable it, you need to remove the comment

Character (the two slashes) and change true to false.

```
$servers->setValue('login','anon_bind',false);
```

You will probably want to disable template warnings because these warnings are annoying and unimportant. Go to line 161.

```
// $config->custom->appearance['hide_template_warning'] = false;
```

Remove the comment character and change false to true.

```
$config->custom->appearance['hide_template_warning'] = true;
```

Save and close the file.

Accessing phpLDAP admin Web Interface

