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Step-by-step OpenLDAP Installation and Configuration

This tutorial describes how to install and configure an OpenLDAP server and also an OpenLDAP client.## Step by Step Installation and Configuration OpenLDAP Server

Software: OS-Cent OS 4.4, openldap 2.2.13-6.4E
System name: *ldap.adminmart.com*
Domain name: *adminmart.com*
System IP: *192.168.1.212*

Note: Use your domain name and IP instead of *adminmart*.

Easy steps for adding users:

1. Create unix user
2. Create unix user's ldap passwd file
3. Convert passwd.file to ldif file
4. Add ldap file to LDAP Directory using ldapadd## Step #1. Requirements

```
compat-openldap.i386 0:2.1.30-6.4E
openldap-clients.i386 0:2.2.13-6.4E
openldap-devel.i386 0:2.2.13-6.4E
openldap-servers.i386 0:2.2.13-6.4E
openldap-servers-sql.i386 0:2.2.13-6.4E
```

You can install them using the command:

```
yum install *openldap* -y
```

Step #2. Start the service

```
[root@ldap ~]# chkconfig --levels 235 ldap on
[root@ldap ~]# service ldap start
```

Step #3. Create LDAP root user password

```
[root@ldap ~]# slappasswd
    New password:
    Re-enter new password:
    {SSHA}cWB1VzxDXZLf6F4pwvyNvApBQ8G/DltW
[root@ldap ~]#
```

Step #4. Update /etc/openldap/slapd.conf for the root password

```
[root@ldap ~]# vi /etc/openldap/slapd.conf
```

```
#68 database     bdb
#69 suffix       "dc=adminmart,dc=com"
#70 rootdn       "cn=Manager,dc=adminmart,dc=com"
#71 rootpw       {SSHA}cWB1VzxDXZLf6F4pwvyNvApBQ8G/DltW
```

Step #5. Apply Changes

```
[root@ldap ~]# service ldap restart
```

Step #6. Create test users

```
[root@ldap ~]# useradd test1
[root@ldap ~]# passwd test1
    Changing password for user test1.
    New UNIX password:
    Retype new UNIX password:
```

```
    passwd: all authentication tokens updated successfully.
[root@ldap ~]# useradd test2
[root@ldap ~]# passwd test2
    Changing password for user test2.
    New UNIX password:
    Retype new UNIX password:
    passwd: all authentication tokens updated successfully.
[root@ldap ~]#
```

Note: Repeat the same for the rest of users

Step #7. Migrate local users to LDAP

```
[root@ldap ~]# grep root /etc/passwd > /etc/openldap/passwd.root
[root@ldap ~]# grep test1 /etc/passwd > /etc/openldap/passwd.test1
[root@ldap ~]# grep test2 /etc/passwd > /etc/openldap/passwd.test2
```

Note: Repeat the same for the rest of users

Step #8. Update default settings on file /usr/share/openldap/migration/migrate_common.ph

```
#71 $DEFAULT_MAIL_DOMAIN = "adminmart.com";
#74 $DEFAULT_BASE = "dc=adminmart,dc=com";
```

Step #9. Convert passwd.file to ldif (LDAP Data Interchange Format) file

```
[root@ldap ~]# /usr/share/openldap/migration/migrate_passwd.pl /etc/openldap/passwd.root /etc/openldap/root.ldif
[root@ldap ~]# /usr/share/openldap/migration/migrate_passwd.pl /etc/openldap/passwd.test1 /etc/openldap/test1.ldif
[root@ldap ~]# /usr/share/openldap/migration/migrate_passwd.pl /etc/openldap/passwd.test2 /etc/openldap/test2.ldif
```

Note: Repeat the same for the rest of users

Step #10. Update root.ldif file for the "Manager" of LDAP Server

```
[root@ldap ~]# vi /etc/openldap/root.ldif
```

```
#1 dn: uid=root,ou=People,dc=adminmart,dc=com
#2 uid: root
#3 cn: Manager
#4 objectClass: account
```

Step #11. Create a domain ldif file (/etc/openldap/adminmart.com.ldif)

```
[root@ldap ~]# cat /etc/openldap/adminmart.com.ldif
```

```
dn: dc=adminmart,dc=com
dc: adminmart
description: LDAP Admin
objectClass: dcObject
objectClass: organizationalUnit
ou: rootobject
dn: ou=People, dc=adminmart,dc=com
ou: People
description: Users of adminmart
objectClass: organizationalUnit
```

Step #12. Import all users in to the LDAP

Add the Domain ldif file

```
[root@ldap ~]# ldapadd -x -D "cn=Manager,dc=adminmart,dc=com" -W -f  /etc/openldap/adminmart.com.ldif
    Enter LDAP Password:
    adding new entry "dc=adminmart,dc=com"
    adding new entry "ou=People, dc=adminmart,dc=com"
[root@ldap ~]#
```

Add the users:

```
[root@ldap ~]# ldapadd -x -D "cn=Manager,dc=adminmart,dc=com" -W -f  /etc/openldap/root.ldif
    Enter LDAP Password:
    adding new entry "uid=root,ou=People,dc=adminmart,dc=com"
    adding new entry "uid=operator,ou=People,dc=adminmart,dc=com"
[root@ldap ~]#

[root@ldap ~]# ldapadd -x -D "cn=Manager,dc=adminmart,dc=com" -W -f  /etc/openldap/test1.ldif
    Enter LDAP Password:
    adding new entry "uid=test1,ou=People,dc=adminmart,dc=com"
[root@ldap ~]#

[root@ldap ~]# ldapadd -x -D "cn=Manager,dc=adminmart,dc=com" -W -f  /etc/openldap/test2.ldif
    Enter LDAP Password:
    adding new entry "uid=test2,ou=People,dc=adminmart,dc=com"
 [root@ldap ~]#
```

Note: Repeat the same for the rest of users

Step #13. Apply Changes

```
[root@ldap ~]# service ldap restart
```

Step #14. Test LDAP Server

It prints all the user information:

```
[root@ldap ~]# ldapsearch -x -b 'dc=adminmart,dc=com' '(objectclass=*)'
```

Step-by-step OpenLDAP Installation and Configuration of Client System

LDAP Client Configuration## Step #1. Installation

```
[root@ldapclient ~]#  yum install authconfig
```

Step #2. Run the command

```
[root@ldapclient ~]# authconfig
```

Step #3. Settings

[*] Use LDAP [*] Use LDAP Authentication

[Both should be checked]

Click "Next".

[ ] Use TLS
Server: ldap.adminmart.com
Base DN: dc=adminmart,dc=com

Click "Ok" to confirm.

Note: Use your domain name instead of *adminmart*.
