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#Prerequisite
systemctl stop firewalld
systemctl disable firewalld
vim /etc/selinux/config
    SELINUX=disabled.

# Install OpenLDAP
yum -y install openldap-servers openldap-clients
cp /usr/share/openldap-servers/DB_CONFIG.example /var/lib/ldap/DB_CONFIG
chown ldap. /var/lib/ldap/DB_CONFIG
systemctl start slapd
systemctl enable slapd

# generate encrypted password
slappasswd                                     #save this password to a
file
{SSHA}u6xEFGydWo6mcAQFMT4lL97JbmgIegJ3

{SSHA}9At06yH01xV8i5JFWGxOpVlfHN3B3uT+

# password from user
vi chrootpw.ldif
    # specify the password generated above for "olcRootPW" section
    dn: olcDatabase={0}config,cn=config
    changetype: modify
    add: olcRootPW
    olcRootPW: {SSHA}xxxxxxxxxxxxxxxxxxxxxxxxxxxxx          #password
which you generate above
ldapadd -Y EXTERNAL -H ldapi:/// -f chrootpw.ldif

ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/cosine.ldif

ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/nis.ldif

ldapadd -Y EXTERNAL -H ldapi:/// -f
/etc/openldap/schema/inetorgperson.ldif

# generate directory manager's password
slappasswd

vi chdomain.ldif

    # replace to your own domain name for "dc=***,dc=***" section
    # specify the password generated above for "olcRootPW" section
    dn: olcDatabase={1}monitor,cn=config
changetype: modify
replace: olcAccess
olcAccess: {0}to * by
dn.base="gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth"
    read by dn.base="cn=Manager,dc=cdac,dc=in" read by * none

dn: olcDatabase={2}hdb,cn=config

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changetype: modify
replace: olcSuffix
olcSuffix: dc=cdac,dc=in

dn: olcDatabase={2}hdb,cn=config
changetype: modify
replace: olcRootDN
olcRootDN: cn=Manager,dc=cdac,dc=in

dn: olcDatabase={2}hdb,cn=config
changetype: modify
add: olcRootPW
olcRootPW: {SSHA}u6xEFGydWo6mcAQFMT4lL97JbmgIegJ3

dn: olcDatabase={2}hdb,cn=config
changetype: modify
add: olcAccess
olcAccess: {0}to attrs=userPassword,shadowLastChange by
  dn="cn=Manager,dc=cdac,dc=in" write by anonymous auth by self write by
  * none
olcAccess: {1}to dn.base="" by * read
olcAccess: {2}to * by dn="cn=Manager,dc=cdac,dc=in" write by * read

ldapmodify -Y EXTERNAL -H ldapi:/// -f chdomain.ldif

vi basedomain.ldif
    # replace to your own domain name for "dc=***,dc=***" section
    dn: dc=cdac,dc=in
objectClass: top
objectClass: dcObject
objectclass: organization
o: cdac in
dc: cdac

dn: cn=Manager,dc=cdac,dc=in
objectClass: organizationalRole
cn: Manager
description: Directory Manager

dn: ou=People,dc=cdac,dc=in
objectClass: organizationalUnit
ou: People

dn: ou=Group,dc=cdac,dc=in
objectClass: organizationalUnit
ou: Group

ldapadd -x -D cn=Manager,dc=srv,dc=world -W -f basedomain.ldif

# add user account
#generate encrypted password

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slappasswd                                     # save this
password
vi ldapuser.ldif
    # create new
    # replace to your own domain name for "dc=***,dc=***" section
    dn: uid=cent,ou=People,dc=srv,dc=world
    objectClass: inetOrgPerson
    objectClass: posixAccount
    objectClass: shadowAccount
    cn: Cent
    sn: Linux
    userPassword: {SSHA}xxxxxxxxxxxxxxxxxxxx
    loginShell: /bin/bash
    uidNumber: 1000
    gidNumber: 1000
    homeDirectory: /home/cent

    dn: cn=cent,ou=Group,dc=srv,dc=world
    objectClass: posixGroup
    cn: Cent
    gidNumber: 1000
    memberUid: cent
ldapadd -x -D cn=Manager,dc=srv,dc=world -W -f ldapuser.ldif

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ldapadd -x -D cn=Manager,dc=srv,dc=world -W -f ldapuser.ldif

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#If you'd like to delete LDAP User or Group, Do as below.

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ldapdelete -x -W -D 'cn=Manager,dc=srv,dc=world'
"uid=cent,ou=People,dc=srv,dc=world"
ldapdelete -x -W -D 'cn=Manager,dc=srv,dc=world'
"cn=cent,ou=Group,dc=srv,dc=world"

```

Install OpenLDAP Client.

```

yum --installroot=/install/netboot/centos7.9/x86_64/compute/rootimg
install openldap-clients
exports CHROOT=/install/netboot/centos7.9/x86_64/compute/rootimg
chroot $CHROOT
authconfig --enableldap --enableldapauth --ldapserver=master --
ldapbasedn="dc=casestudy,dc=in" --enablemkhomedir --update

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authconfig --enableldap \
--enableldapauth \
--ldapserver=dlp.srv.world \
--ldapbasedn="dc=srv,dc=world" \
--enablemkhomedir \
--update

```

```
systemctl restart nslcd  
ldapsearch -x
```