

Openldap Installation

1. Configure local repo
2. Install openldap packages via rpm file

```
[root@ldap admin]# systemctl status slapd
o slapd.service - OpenLDAP Server Daemon
   Loaded: loaded (/usr/lib/systemd/system/slapd.service; disabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:slapd
           man:slapd-config
           man:slapd-mdb
           file:///usr/share/doc/openldap-servers/guide.html
[root@ldap admin]#
[root@ldap admin]# systemctl enable --now slapd.service
Created symlink /etc/systemd/system/openldap.service → /usr/lib/systemd/system/slapd.service.
Created symlink /etc/systemd/system/multi-user.target.wants/slapd.service → /usr/lib/systemd/system/slapd.service.
[root@ldap admin]#
[root@ldap admin]#
[root@ldap admin]# systemctl status slapd
● slapd.service - OpenLDAP Server Daemon
   Loaded: loaded (/usr/lib/systemd/system/slapd.service; enabled; preset: disabled)
   Active: active (running) since Mon 2025-04-07 12:50:42 IST; 9s ago
     Docs: man:slapd
           man:slapd-config
           man:slapd-mdb
           file:///usr/share/doc/openldap-servers/guide.html
  Process: 326925 ExecStartPre=/usr/libexec/openldap/check-config.sh (code=exited, status=0/SUCCESS)
  Process: 326945 ExecStart=/usr/sbin/slapd -u ldap -h ldap:/// ldaps:/// ldapi:/// (code=exited, status=0/SUCCESS)
 Main PID: 326946 (slapd)
    Tasks: 2 (limit: 61605)
   Memory: 5.4M
      CPU: 57ms
   CGroup: /system.slice/slapd.service
           └─326946 /usr/sbin/slapd -u ldap -h "ldap:/// ldaps:/// ldapi:///"

Apr 07 12:50:42 ldap.jalindia.co.in systemd[1]: Starting OpenLDAP Server Daemon...
Apr 07 12:50:42 ldap.jalindia.co.in runuser[326928]: pam_unix(runuser:session): session opened for user ldap(uid=55) by (uid=0)
Apr 07 12:50:42 ldap.jalindia.co.in runuser[326928]: pam_unix(runuser:session): session closed for user ldap
Apr 07 12:50:42 ldap.jalindia.co.in slapd[326945]: @(#) $OpenLDAP: slapd 2.6.6 (Jul 26 2024 00:00:00) $
Apr 07 12:50:42 ldap.jalindia.co.in slapd[326946]: slapd starting
Apr 07 12:50:42 ldap.jalindia.co.in systemd[1]: Started OpenLDAP Server Daemon.
[root@ldap admin]# netstat -ntpl | grep 389
tcp        0      0 0.0.0.0:389          0.0.0.0:*           LISTEN     326946/slapd
tcp6       0      0 :::389              :::*                 LISTEN     326946/slapd
[root@ldap admin]#
```

systemctl status slapd (openldap service)

```
[root@ldap admin]# slappasswd
New password:
Re-enter new password:
{SSHA}+6hc0K+OkS7vY6mkPwPug4w+oxjrtNSW
[root@ldap admin]#
```

Set slap passwd

```
[root@ldap open-ldap]#
[root@ldap open-ldap]# cat chrootpw.ldif
# specify the password generated above for [olcRootPW] section
dn: olcDatabase={0}config,cn=config
changetype: modify
add: olcRootPW
olcRootPW: {SSHA}+6hc0K+OkS7vY6mkPwPug4w+oxjrtNSW
[root@ldap open-ldap]#
```

Create chrootpw.ldif file

```
[root@ldap open-ldap]# ldapadd -Y EXTERNAL -H ldapi:/// -f chrootpw.ldif
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
modifying entry "olcDatabase={0}config,cn=config"

[root@ldap open-ldap]#
```

```
[root@ldap open-ldap]# cd /etc/openldap/schema/
[root@ldap schema]# ls
collective.ldif  corba.schema  cosine.ldif  dsee.schema  dyngroup.ldif  inetorgperson.schema  misc.ldif  msuser.schema  nis.ldif  openldap.schema
collective.schema  core.ldif  cosine.schema  duaconf.ldif  dyngroup.schema  java.ldif  misc.schema  namedobject.ldif  nis.schema  pmi.ldif
corba.ldif  core.schema  dsee.ldif  duaconf.schema  inetorgperson.ldif  java.schema  msuser.ldif  namedobject.schema  openldap.ldif  pmi.schema
[root@ldap schema]#
[root@ldap schema]# ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/cosine.ldif
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
adding new entry "cn=cosine,cn=schema,cn=config"

[root@ldap schema]# ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/nis.ldif
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
adding new entry "cn=nis,cn=schema,cn=config"

[root@ldap schema]#
```

Add ldap schema

```
[root@ldap schema]# ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/inetorgperson.ldif
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
adding new entry "cn=inetorgperson,cn=schema,cn=config"

[root@ldap schema]#
```

```
[root@ldap open-ldap]# cd /etc/openldap/schema/
[root@ldap schema]# ls
collective.ldif  corba.schema  cosine.ldif  dsee.schema  dyngroup.ldif  inetorgperson.schema  misc.ldif  msuser.schema  nis.ldif  openldap.schema
collective.schema  core.ldif  cosine.schema  duaconf.ldif  dyngroup.schema  java.ldif  misc.schema  namedobject.ldif  nis.schema  pmi.ldif
corba.ldif  core.schema  dsee.ldif  duaconf.schema  inetorgperson.ldif  java.schema  msuser.ldif  namedobject.schema  openldap.ldif  pmi.schema
[root@ldap schema]#
[root@ldap schema]# ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/cosine.ldif
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
adding new entry "cn=cosine,cn=schema,cn=config"

[root@ldap schema]# ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/nis.ldif
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
adding new entry "cn=nis,cn=schema,cn=config"

[root@ldap schema]# ldapadd -Y EXTERNAL -H ldapi:/// -f /etc/openldap/schema/inetorgperson.ldif
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
adding new entry "cn=inetorgperson,cn=schema,cn=config"

[root@ldap schema]# slappasswd
New password:
Re-enter new password:
(SSHA)Hqzm2H4V7opS9qHSf/QjnaieAwD9e56G/
[root@ldap schema]# vi chdomain.ldif
[root@ldap schema]# ldapmodify -Y EXTERNAL -H ldapi:/// -f chdomain.ldif
SASL/EXTERNAL authentication started
SASL username: gidNumber=0+uidNumber=0,cn=peercred,cn=external,cn=auth
SASL SSF: 0
modifying entry "olcDatabase={1}monitor,cn=config"

modifying entry "olcDatabase={2}mdb,cn=config"

modifying entry "olcDatabase={2}mdb,cn=config"

modifying entry "olcDatabase={2}mdb,cn=config"

modifying entry "olcDatabase={2}mdb,cn=config"

[root@ldap schema]#
```

```

[ldap@jalindia ~]$ ldapadd -x -D cn=Manager,dc=jalindia,dc=co,dc=in -W -f base.ldif
Enter LDAP Password:
adding new entry "dc=jalindia,dc=co,dc=in"

adding new entry "ou=People,dc=jalindia,dc=co,dc=in"

adding new entry "cn=Manager,dc=jalindia,dc=co,dc=in"

```

Create base dn

```

[ldap@jalindia ~]$ cat base.ldif
dn: dc=jalindia,dc=co,dc=in
objectClass: top
objectClass: domain
dc: jalindia

dn: ou=People,dc=jalindia,dc=co,dc=in
objectClass: top
objectClass: organizationalUnit
ou: People

dn: cn=Manager,dc=jalindia,dc=co,dc=in
objectClass: top
objectClass: organizationalRole
cn: Manager
description: LDAP Administrator

[ldap@jalindia ~]$

```

```

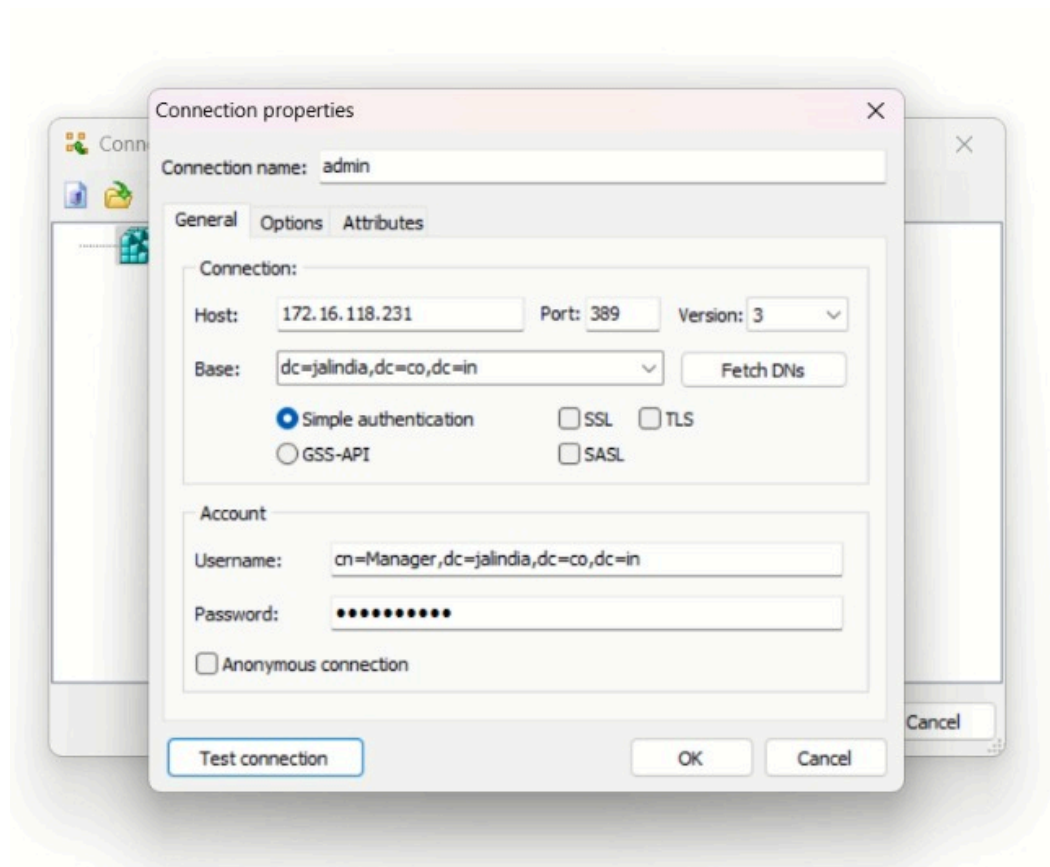
[ldap@jalindia ~]$ ldapadd -x -D cn=Manager,dc=jalindia,dc=co,dc=in -W -f user.ldif
Enter LDAP Password:
adding new entry "uid=zimbra,ou=People,dc=jalindia,dc=co,dc=in"

[ldap@jalindia ~]$
[ldap@jalindia ~]$ cat user.ldif
dn: uid=zimbra,ou=People,dc=jalindia,dc=co,dc=in
objectClass: inetOrgPerson
objectClass: organizationalPerson
uid: zimbra
cn: zimbra
sn: zimbra-surname
mail: zimbra@jalindia.co.in
departmentNumber: IT
userPassword: {SSHA}HqzmH4V7opSGgHSf/QjnaieAwD9e56G/

[ldap@jalindia ~]$

```

Add zimbra user for testing purpose



Install ldap manager exe and add the manager details, then we have manage user's via frontend
