OpenLDAP client tools

Query LDAP directories

CONCEPTS

Connect -H uri, -Z StartTLS
↓ bind
Bind -x -D -W or SASL
↓ search
Search -b base -s scope filter
↓ return
Entries attrs, LDIF output

One ldapsearch run

> Always add -x unless you want SASL: without it the tools try SASL and often fail with confusing errors.

CONNECT AND BIND

-H ldap://*<host>***[:***<port>***]**
Server URI (plain or StartTLS)

-H ldaps://*<host>*
TLS from the first byte

-x
Simple bind instead of SASL

-D *<binddn>*
Bind as this DN

-W
Prompt for the password

-ZZ
StartTLS, fail if it cannot be used

SEARCHING

-b *<base>*
Search base DN

-s base / one / sub / children
Search scope (default sub)

"(*<attr>***=***<value>***)"**
Equality filter

"(*<attr>***=***<pre>****)"**
Substring/wildcard match

"(&(*<f1>***)(***<f2>***))"**
AND of filters

"(|(*<f1>***)(***<f2>***))"**
OR of filters

ATTRIBUTES AND OUTPUT

... *<filter>* cn mail
Return only listed attributes

"*" "+"
User plus operational attributes

1.1
Return DNs only

-LLL
Plain LDIF, no comments or version

-S *<attr>*
Sort entries client-side

-E pr=*<n>***/noprompt**
Paged results

CHANGE ENTRIES

ldapadd -x -D *<binddn>* **-W -f** *<file>*
Add entries from LDIF

ldapmodify -x -D *<binddn>* **-W -f** *<file>*
Apply LDIF changes

ldapdelete -x -D *<binddn>* **-W "***<dn>***"**
Delete an entry

ldappasswd -x -D *<binddn>* **-W -S "***<dn>***"**
Set a password (prompts)

ldapwhoami -x -D *<binddn>* **-W**
Show the identity after bind

LDIF change record

Line	Meaning
`dn: <dn>`	Entry to change
`changetype: modify`	Modify (also add, delete, modrdn)
`add: / replace: / delete: <attr>`	Operation on an attribute
`-`	Ends one operation block