

# Full credit is given to the above companies including the Operating System (OS) that this PDF file was generated!

## Rocky Enterprise Linux 9.2 Manual Pages on command 'Idapsearch.1'

## \$ man Idapsearch.1

LDAPSEARCH(1)

**General Commands Manual** 

LDAPSEARCH(1)

NAME

Idapsearch - LDAP search tool

## SYNOPSIS

Idapsearch [-V[V]] [-d debuglevel] [-n] [-v] [-c] [-u] [-t[t]] [-T path] [-F prefix] [-A]

[-L[L[L]]] [-S attribute] [-b searchbase] [-s {base|one|sub|children}] [-a {never|al?

ways|search|find}] [-I timelimit] [-z sizelimit] [-f file] [-M[M]] [-x] [-D binddn] [-W]

[-w passwd] [-y passwdfile] [-H ldapuri] [-P {2|3}] [-e [!]ext[=extparam]]

[-E [!]ext[=extparam]] [-o opt[=optparam]] [-O security-properties] [-I] [-Q] [-N] [-U au?

thcid] [-R realm] [-X authzid] [-Y mech] [-Z[Z]] filter [attrs...]

## DESCRIPTION

Idapsearch is a shell-accessible interface to the Idap\_search\_ext(3) library call. Idapsearch opens a connection to an LDAP server, binds, and performs a search using speci? fied parameters. The filter should conform to the string representation for search fil? ters as defined in RFC 4515. If not provided, the default filter, (objectClass=\*), is used.

If Idapsearch finds one or more entries, the attributes specified by attrs are returned.

If \* is listed, all user attributes are returned. If + is listed, all operational at?

tributes are returned. If no attrs are listed, all user attributes are returned. If only

1.1 is listed, no attributes will be returned.

The search results are displayed using an extended version of LDIF. Option -L controls the format of the output.

- -V[V] Print version info. If -VV is given, exit after providing version info. Otherwise proceed with the specified search
- -d debuglevel

Set the LDAP debugging level to debuglevel. Idapsearch must be compiled with LDAP\_DEBUG defined for this option to have any effect.

- -n Show what would be done, but don't actually perform the search. Useful for debug? ging in conjunction with -v.
- -v Run in verbose mode, with many diagnostics written to standard output.
- -c Continuous operation mode. Errors are reported, but Idapsearch will continue with searches. The default is to exit after reporting an error. Only useful in conjunc? tion with -f.
- -u Include the User Friendly Name form of the Distinguished Name (DN) in the output.
- -t[t] A single -t writes retrieved non-printable values to a set of temporary files.
  This is useful for dealing with values containing non-character data such as jpeg?
  Photo or audio. A second -t writes all retrieved values to files.
- -T path

Write temporary files to directory specified by path (default: /var/tmp/)

-F prefix

URL prefix for temporary files. Default is file://path where path is /var/tmp/ or specified with -T.

- -A Retrieve attributes only (no values). This is useful when you just want to see if an attribute is present in an entry and are not interested in the specific values.
- -L Search results are display in LDAP Data Interchange Format detailed in Idif(5). A single -L restricts the output to LDIFv1.

A second -L disables comments. A third -L disables printing of the LDIF version. The default is to use an extended version of LDIF.

-S attribute

Sort the entries returned based on attribute. The default is not to sort entries returned. If attribute is a zero-length string (""), the entries are sorted by the components of their Distinguished Name. See ldap\_sort(3) for more details. Note that Idapsearch normally prints out entries as it receives them. The use of the -S option defeats this behavior, causing all entries to be retrieved, then sorted, then printed.

#### -b searchbase

Use searchbase as the starting point for the search instead of the default.

-s {base|one|sub|children}

Specify the scope of the search to be one of base, one, sub, or children to specify a base object, one-level, subtree, or children search. The default is sub. Note: children scope requires LDAPv3 subordinate feature extension.

-a {never|always|search|find}

Specify how aliases dereferencing is done. Should be one of never, always, search, or find to specify that aliases are never dereferenced, always dereferenced, deref? erenced when searching, or dereferenced only when locating the base object for the search. The default is to never dereference aliases.

#### -l timelimit

wait at most timelimit seconds for a search to complete. A timelimit of 0 (zero) or none means no limit. A timelimit of max means the maximum integer allowable by the protocol. A server may impose a maximal timelimit which only the root user may override.

#### z sizelimit

retrieve at most sizelimit entries for a search. A sizelimit of 0 (zero) or none means no limit. A sizelimit of max means the maximum integer allowable by the pro? tocol. A server may impose a maximal sizelimit which only the root user may over? ride.

#### -f file

Read a series of lines from file, performing one LDAP search for each line. In this case, the filter given on the command line is treated as a pattern where the first and only occurrence of %s is replaced with a line from file. Any other oc? currence of the the % character in the pattern will be regarded as an error. Where it is desired that the search filter include a % character, the character should be encoded as \25 (see RFC 4515). If file is a single - character, then the lines are read from standard input. Idapsearch will exit when the first non-successful search result is returned, unless -c is used.

-M[M] Enable manage DSA IT control. -MM makes control critical.

-x Use simple authentication instead of SASL.

-D binddn

Use the Distinguished Name binddn to bind to the LDAP directory. For SASL binds, the server is expected to ignore this value.

- -W Prompt for simple authentication. This is used instead of specifying the password on the command line.
- -w passwd

Use passwd as the password for simple authentication.

-y passwdfile

Use complete contents of passwdfile as the password for simple authentication.

-H Idapuri

Specify URI(s) referring to the Idap server(s); a list of URI, separated by white? space or commas is expected; only the protocol/host/port fields are allowed. As an exception, if no host/port is specified, but a DN is, the DN is used to look up the corresponding host(s) using the DNS SRV records, according to RFC 2782. The DN must be a non-empty sequence of AVAs whose attribute type is "dc" (domain compo? nent), and must be escaped according to RFC 2396.

```
-P {2|3}
```

Specify the LDAP protocol version to use.

- -e [!]ext[=extparam]
- -E [!]ext[=extparam]

Specify general extensions with -e and search extensions with -E. ?!? indicates criticality.

General extensions:

[!]assert=<filter> (an RFC 4515 Filter)

!authzid=<authzid> ("dn:<dn>" or "u:<user>")

[!]bauthzid (RFC 3829 authzid control)

[!]chaining[=<resolve>[/<cont>]]

[!]manageDSAit

[!]noop

ppolicy

[!]postread[=<attrs>] (a comma-separated attribute list)

[!]preread[=<attrs>] (a comma-separated attribute list)

[!]relax

abandon, cancel, ignore (SIGINT sends abandon/cancel, or ignores response; if critical, doesn't wait for SIGINT. not really controls) Search extensions: !dontUseCopy [!]domainScope (domain scope) [!]mv=<filter> (matched values filter) [!]pr=<size>[/prompt|noprompt] (paged results/prompt) [!]sss=[-]<attr[:OID]>[/[-]<attr[:OID]>...] (server side sorting) [!]subentries[=true|false] (subentries) [!]sync=ro[/<cookie>] (LDAP Sync refreshOnly) rp[/<cookie>][/<slimit>] (LDAP Sync refreshAndPersist) [!]vlv=<before>/<after>(/<offset>/<count>|:<value>) (virtual list view) [!]deref=derefAttr:attr[,attr[...]][;derefAttr:attr[,attr[...]]] [!]<oid>[=:<value>|::<b64value>] -o opt[=optparam] Specify any Idap.conf(5) option or one of the following: nettimeout=<timeout> (in seconds, or "none" or "max") ldif\_wrap=<width> (in columns, or "no" for no wrapping) -O security-properties Specify SASL security properties. -I Enable SASL Interactive mode. Always prompt. Default is to prompt only as needed. -Q Enable SASL Quiet mode. Never prompt. Do not use reverse DNS to canonicalize SASL host name. -U authcid Specify the authentication ID for SASL bind. The form of the ID depends on the ac? tual SASL mechanism used.

## -R realm

-N

Specify the realm of authentication ID for SASL bind. The form of the realm depends on the actual SASL mechanism used.

-X authzid

Specify the requested authorization ID for SASL bind. authzid must be one of the

following formats: dn:<distinguished name> or u:<username>

-Y mech

Specify the SASL mechanism to be used for authentication. If it's not specified,

the program will choose the best mechanism the server knows.

-Z[Z] Issue StartTLS (Transport Layer Security) extended operation. If you use -ZZ, the command will require the operation to be successful.

### OUTPUT FORMAT

If one or more entries are found, each entry is written to standard output in LDAP Data Interchange Format or Idif(5):

version: 1

# bjensen, example, net

dn: uid=bjensen,dc=example,dc=net

objectClass: person

objectClass: dcObject

uid: bjensen

cn: Barbara Jensen

sn: Jensen

•••

If the -t option is used, the URI of a temporary file is used in place of the actual

value. If the -A option is given, only the "attributename" part is written.

## EXAMPLE

The following command:

Idapsearch -LLL "(sn=smith)" cn sn telephoneNumber

will perform a subtree search (using the default search base and other parameters defined

in Idap.conf(5)) for entries with a surname (sn) of smith. The common name (cn), surname

(sn) and telephoneNumber values will be retrieved and printed to standard output. The output might look something like this if two entries are found:

dn: uid=jts,dc=example,dc=com

cn: John Smith

cn: John T. Smith

sn: Smith

sn;lang-en: Smith

sn;lang-de: Schmidt

telephoneNumber: 1 555 123-4567

dn: uid=sss,dc=example,dc=com cn: Steve Smith cn: Steve S. Smith sn: Smith sn;lang-en: Smith sn;lang-de: Schmidt telephoneNumber: 1 555 765-4321 The command: Idapsearch -LLL -u -t "(uid=xyz)" jpegPhoto audio will perform a subtree search using the default search base for entries with user id of

"xyz". The user friendly form of the entry's DN will be output after the line that con? tains the DN itself, and the jpegPhoto and audio values will be retrieved and written to temporary files. The output might look like this if one entry with one value for each of the requested attributes is found:

dn: uid=xyz,dc=example,dc=com

ufn: xyz, example, com

audio:< file:///tmp/ldapsearch-audio-a19924

jpegPhoto:< file:///tmp/ldapsearch-jpegPhoto-a19924

This command:

Idapsearch -LLL -s one -b "c=US" "(o=University\*)" o description

will perform a one-level search at the c=US level for all entries whose organization name

(o) begins with University. The organization name and description attribute values will

be retrieved and printed to standard output, resulting in output similar to this:

dn: o=University of Alaska Fairbanks,c=US

o: University of Alaska Fairbanks

description: Naturally Inspiring

description: leaf node only

dn: o=University of Colorado at Boulder,c=US

o: University of Colorado at Boulder

description: No personnel information

description: Institution of education and research

dn: o=University of Colorado at Denver,c=US

o: University of Colorado at Denver

o: UCD

o: CU/Denver

o: CU-Denver

description: Institute for Higher Learning and Research

dn: o=University of Florida,c=US

o: University of Florida

o: UFI

description: Warper of young minds

...

## DIAGNOSTICS

Exit status is zero if no errors occur. Errors result in a non-zero exit status and a di?

agnostic message being written to standard error.

## SEE ALSO

Idapadd(1), Idapdelete(1), Idapmodify(1), Idapmodrdn(1), Idap.conf(5), Idif(5), Idap(3),

ldap\_search\_ext(3), ldap\_sort(3)

## AUTHOR

The OpenLDAP Project <http://www.openIdap.org/>

## ACKNOWLEDGEMENTS

OpenLDAP Software is developed and maintained by The OpenLDAP Project <a href="http://www.openl?">http://www.openl?</a>

dap.org/>. OpenLDAP Software is derived from the University of Michigan LDAP 3.3 Release.

OpenLDAP 2.5.17+dfsg-0ubuntu0.22.04.1 2024/01/29 LDAPSEARCH(1)