NAME

ldap_is_ldap_url, ldap_url_parse, ldap_free_urldesc - LDAP Uniform Resource Locator routines

LIBRARY

OpenLDAP LDAP (libldap, -lldap)

SYNOPSIS

```
#include <ldap.h>

int ldap_is_ldap_url( const char *url )

int ldap_url_parse( const char *url, LDAPURLDesc **ludpp )

typedef struct ldap_url_desc {
    char *      lud_scheme;     /* URI scheme */
    char *      lud_host;       /* LDAP host to contact */
    int         lud_port;       /* port on host */
    char *      lud_dn;         /* base for search */
    char **     lud_attrs;      /* list of attributes */
    int         lud_scope;      /* a LDAP_SCOPE_... value */
    char *      lud_filter;     /* LDAP search filter */
    char **     lud_exts;       /* LDAP extensions */
    int         lud_crit_exts;  /* true if any extension is critical */
    /* may contain additional fields for internal use */
} LDAPURLDesc;

void ldap_free_urldesc( LDAPURLDesc *ludp );
```

DESCRIPTION

These routines support the use of LDAP URLs (Uniform Resource Locators) as detailed in RFC 4516. LDAP URLs look like this:

ldap://*hostport***/***dn*[**?***attrs*[**?***scope*[**?***filter*[**?***exts*]]]]

where:
hostport is a host name with an optional ":portnumber"
dn is the search base
attrs is a comma separated list of attributes to request
scope is one of these three strings:
base one sub (default=base)

filter is filter
exts are recognized set of LDAP and/or API extensions.

Example:
ldap://ldap.example.net/dc=example,dc=net?cn,sn?sub?(cn=*)

URLs that are wrapped in angle-brackets and/or preceded by "URL:" are also tolerated. Alternative LDAP schemes such as ldaps:// and ldapi:// may be parsed using the below routines as well.

ldap_is_ldap_url() returns a non-zero value if *url* looks like an LDAP URL (as opposed to some other kind of URL). It can be used as a quick check for an LDAP URL; the **ldap_url_parse()** routine should be used if a more thorough check is needed.

ldap_url_parse() breaks down an LDAP URL passed in *url* into its component pieces. If successful, zero is returned, an LDAP URL description is allocated, filled in, and *ludpp* is set to point to it. If an error occurs, a non-zero URL error code is returned.

ldap_free_urldesc() should be called to free an LDAP URL description that was obtained from a call to **ldap_url_parse().**

SEE ALSO

ldap(3)
RFC 4516 <http://www.rfc-editor.org/rfc/rfc4516.txt>

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