NAME

krb5_copy_host_realm, **krb5_free_host_realm**, **krb5_get_default_realm**, **krb5_get_default_realms**, **krb5_get_host_realm**, **krb5_set_default_realm** - default and host realm read and manipulation routines

LIBRARY

Kerberos 5 Library (libkrb5, -lkrb5)

SYNOPSIS

#include <krb5.h>

krb5_error_code
krb5_copy_host_realm(*krb5_context context*, *const krb5_realm *from*, *krb5_realm **to*);

krb5_error_code
krb5_free_host_realm(*krb5_context context*, *krb5_realm *realmlist*);

krb5_error_code
krb5_get_default_realm(*krb5_context context*, *krb5_realm *realm*);

krb5_error_code
krb5_get_default_realms(*krb5_context context*, *krb5_realm **realm*);

krb5_error_code
krb5_get_host_realm(*krb5_context context*, *const char *host*, *krb5_realm **realms*);

krb5_error_code
krb5_set_default_realm(*krb5_context context*, *const char *realm*);

DESCRIPTION

krb5_copy_host_realm() copies the list of realms from *from* to *to*. *to* should be freed by the caller using *krb5_free_host_realm*.

krb5_free_host_realm() frees all memory allocated by *realmlist*.

krb5_get_default_realm() returns the first default realm for this host. The realm returned should be freed with **free**().

krb5_get_default_realms() returns a NULL terminated list of default realms for this context. Realms returned by **krb5_get_default_realms**() should be freed with **krb5_free_host_realm**().

krb5_get_host_realm() returns a NULL terminated list of realms for *host* by looking up the information in the [domain_realm] in *krb5.conf* or in DNS. If the mapping in [domain_realm] results in the string dns_locate, DNS is used to lookup the realm.

When using DNS to a resolve the domain for the host a.b.c, **krb5_get_host_realm**() looks for a TXT resource record named _kerberos.a.b.c, and if not found, it strips off the first component and tries a again (_kerberos.b.c) until it reaches the root.

If there is no configuration or DNS information found, **krb5_get_host_realm**() assumes it can use the domain part of the *host* to form a realm. Caller must free *realmlist* with **krb5_free_host_realm**().

krb5_set_default_realm() sets the default realm for the *context*. If NULL is used as a *realm*, the [libdefaults]default_realm stanza in *krb5.conf* is used. If there is no such stanza in the configuration file, the **krb5_get_host_realm**() function is used to form a default realm.

SEE ALSO
    free(3), krb5.conf(5)