NAME

krb5_string_to_key, **krb5_string_to_key_data**, **krb5_string_to_key_data_salt**, **krb5_string_to_key_data_salt_opaque**, **krb5_string_to_key_salt**, **krb5_string_to_key_salt_opaque**, **krb5_get_pw_salt**, **krb5_free_salt** - turns a string to a Kerberos key

LIBRARY

Kerberos 5 Library (libkrb5, -lkrb5)

SYNOPSIS

#include <krb5.h>

krb5_error_code
krb5_string_to_key(*krb5_context context, krb5_enctype enctype, const char *password, krb5_principal principal, krb5_keyblock *key*);

krb5_error_code
krb5_string_to_key_data(*krb5_context context, krb5_enctype enctype, krb5_data password, krb5_principal principal, krb5_keyblock *key*);

krb5_error_code
krb5_string_to_key_data_salt(*krb5_context context, krb5_enctype enctype, krb5_data password, krb5_salt salt, krb5_keyblock *key*);

krb5_error_code
krb5_string_to_key_data_salt_opaque(*krb5_context context, krb5_enctype enctype, krb5_data password, krb5_salt salt, krb5_data opaque, krb5_keyblock *key*);

krb5_error_code
krb5_string_to_key_salt(*krb5_context context, krb5_enctype enctype, const char *password, krb5_salt salt, krb5_keyblock *key*);

krb5_error_code
krb5_string_to_key_salt_opaque(*krb5_context context, krb5_enctype enctype, const char *password, krb5_salt salt, krb5_data opaque, krb5_keyblock *key*);

krb5_error_code
krb5_get_pw_salt(*krb5_context context, krb5_const_principal principal, krb5_salt *salt*);

krb5_error_code
krb5_free_salt(*krb5_context context, krb5_salt salt*);

DESCRIPTION

The string to key functions convert a string to a kerberos key.

krb5_string_to_key_data_salt_opaque() is the function that does all the work, the rest of the functions are just wrappers around **krb5_string_to_key_data_salt_opaque**() that calls it with default values.

krb5_string_to_key_data_salt_opaque() transforms the *password* with the given salt-string *salt* and the opaque, encryption type specific parameter *opaque* to a encryption key *key* according to the string to key function associated with *enctype*.

The *key* should be freed with **krb5_free_keyblock_contents**().

If one of the functions that doesn't take a krb5_salt as it argument **krb5_get_pw_salt**() is used to get the salt value.

krb5_get_pw_salt() get the default password salt for a principal, use **krb5_free_salt**() to free the salt when done.

krb5_free_salt() frees the content of *salt*.

SEE ALSO

krb5(3), krb5_data(3), krb5_keyblock(3), kerberos(8)