NAME

Heimdal Kerberos 5 keytab handling functions -

Functions

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_register** (krb5_context context, const krb5_kt_ops *ops)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_resolve** (krb5_context context, const char *name, krb5_keytab *id)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_default_name** (krb5_context context, char *name, size_t namesize)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_default_modify_name** (krb5_context context, char *name, size_t namesize)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_default** (krb5_context context, krb5_keytab *id)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_read_service_key** (krb5_context context, krb5_pointer keyprocarg, krb5_principal principal, krb5_kvno vno, krb5_enctype enctype, krb5_keyblock **key)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_get_type** (krb5_context context, krb5_keytab keytab, char *prefix, size_t prefixsize)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_get_name** (krb5_context context, krb5_keytab keytab, char *name, size_t namesize)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_get_full_name** (krb5_context context, krb5_keytab keytab, char **str)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_close** (krb5_context context, krb5_keytab id)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_destroy** (krb5_context context, krb5_keytab id)

KRB5_LIB_FUNCTION krb5_boolean KRB5_LIB_CALL **krb5_kt_compare** (krb5_context context, krb5_keytab_entry *entry, krb5_const_principal principal, krb5_kvno vno, krb5_enctype enctype)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_get_entry** (krb5_context context, krb5_keytab id, krb5_const_principal principal, krb5_kvno kvno, krb5_enctype enctype, krb5_keytab_entry *entry)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_copy_entry_contents** (krb5_context context, const krb5_keytab_entry *in, krb5_keytab_entry *out)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_free_entry** (krb5_context context, krb5_keytab_entry *entry)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_start_seq_get** (krb5_context context, krb5_keytab id, krb5_kt_cursor *cursor)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_next_entry** (krb5_context context, krb5_keytab id, krb5_keytab_entry *entry, krb5_kt_cursor *cursor)

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_end_seq_get** (krb5_context context, krb5_keytab id, krb5_kt_cursor *cursor)
KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_add_entry** (krb5_context context, krb5_keytab id, krb5_keytab_entry *entry)
KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL **krb5_kt_remove_entry** (krb5_context context, krb5_keytab id, krb5_keytab_entry *entry)
KRB5_LIB_FUNCTION krb5_boolean KRB5_LIB_CALL **krb5_kt_have_content** (krb5_context context, krb5_keytab id)

Detailed Description

Function Documentation

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_add_entry (krb5_context context, krb5_keytab id, krb5_keytab_entry * entry)

Add the entry in ‘entry’ to the keytab ‘id’.

Parameters:

context a Keberos context.
id a keytab.
entry the entry to add

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_close (krb5_context context, krb5_keytab id)

Finish using the keytab in ‘id’. All resources will be released, even on errors.

Parameters:

context a Keberos context.
id keytab to close.

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_boolean KRB5_LIB_CALL krb5_kt_compare (krb5_context context, krb5_keytab_entry * entry, krb5_const_principal principal, krb5_kvno vno, krb5_enctype enctype)

Compare ‘entry’ against ‘principal, vno, enctype’. Any of ‘principal, vno, enctype’ might be 0 which acts as a wildcard. Return TRUE if they compare the same, FALSE otherwise.

Parameters:

context a Keberos context.
entry an entry to match with.
principal principal to match, NULL matches all principals.
vno key version to match, 0 matches all key version numbers.
enctype encryption type to match, 0 matches all encryption types.

Returns:
Return TRUE or match, FALSE if not matched.

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_copy_entry_contents (krb5_context context, const krb5_keytab_entry * in, krb5_keytab_entry * out)
Copy the contents of ‘in’ into ‘out’.

Parameters:
context a Keberos context.
in the keytab entry to copy.
out the copy of the keytab entry, free with **krb5_kt_free_entry()**.

Returns:
Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_default (krb5_context context, krb5_keytab * id)
Set ‘id’ to the default keytab.

Parameters:
context a Keberos context.
id the new default keytab.

Returns:
Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_default_modify_name (krb5_context context, char * name, size_t namesize)
Copy the name of the default modify keytab into ‘name’.

Parameters:
context a Keberos context.
name buffer where the name will be written
namesize length of name

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_default_name (krb5_context context, char * name, size_t namesize)

copy the name of the default keytab into ‘name’.

Parameters:

context a Keberos context.
name buffer where the name will be written
namesize length of name

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_destroy (krb5_context context, krb5_keytab id)

Destroy (remove) the keytab in ‘id’. All resources will be released, even on errors, does the equvalment of **krb5_kt_close()** on the resources.

Parameters:

context a Keberos context.
id keytab to destroy.

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_end_seq_get (krb5_context context, krb5_keytab id, krb5_kt_cursor * cursor)

Release all resources associated with ‘cursor’.

Parameters:

context a Keberos context.
id a keytab.
cursor the cursor to free.

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_free_entry (krb5_context context,

krb5_keytab_entry * entry)
Free the contents of ‘entry’.

Parameters:
context a Keberos context.
entry the entry to free

Returns:
Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_get_entry (krb5_context context, krb5_keytab id, krb5_const_principal principal, krb5_kvno kvno, krb5_enctype enctype, krb5_keytab_entry * entry)
Retrieve the keytab entry for ‘principal, kvno, enctype’ into ‘entry’ from the keytab ‘id’. Matching is done like **krb5_kt_compare()**.

Parameters:
context a Keberos context.
id a keytab.
principal principal to match, NULL matches all principals.
kvno key version to match, 0 matches all key version numbers.
enctype encryption type to match, 0 matches all encryption types.
entry the returned entry, free with **krb5_kt_free_entry()**.

Returns:
Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_get_full_name (krb5_context context, krb5_keytab keytab, char ** str)
Retrieve the full name of the keytab ‘keytab’ and store the name in ‘str’.

Parameters:
context a Keberos context.
keytab keytab to get name for.
str the name of the keytab name, usee krb5_xfree() to free the string. On error, *str is set to NULL.

Returns:
Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_get_name (krb5_context context, krb5_keytab keytab, char * name, size_t namesize)

Retrieve the name of the keytab ‘keytab’ into ‘name’, ‘namesize’

Parameters:

context a Keberos context.
keytab the keytab to get the name for.
name name buffer.
namesize size of name buffer.

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_get_type (krb5_context context, krb5_keytab keytab, char * prefix, size_t prefixsize)

Return the type of the ‘keytab’ in the string ‘prefix of length ‘prefixsize’.

Parameters:

context a Keberos context.
keytab the keytab to get the prefix for
prefix prefix buffer
prefixsize length of prefix buffer

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_boolean KRB5_LIB_CALL krb5_kt_have_content (krb5_context context, krb5_keytab id)

Return true if the keytab exists and have entries

Parameters:

context a Keberos context.
id a keytab.

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_next_entry (krb5_context context, krb5_keytab id, krb5_keytab_entry * entry, krb5_kt_cursor * cursor)

Get the next entry from keytab, advance the cursor. On last entry the function will return

KRB5_KT_END.

Parameters:

context a Keberos context.
id a keytab.
entry the returned entry, free with **krb5_kt_free_entry()**.
cursor the cursor of the iteration.

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_read_service_key (krb5_context context, krb5_pointer keyprocarg, krb5_principal principal, krb5_kvno vno, krb5_enctype enctype, krb5_keyblock ** key)

Read the key identified by ‘(principal, vno, enctype)’ from the keytab in ‘keyprocarg’ (the default if == NULL) into ‘*key’.

Parameters:

context a Keberos context.
keyprocarg
principal
vno
enctype
key

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_register (krb5_context context, const krb5_kt_ops * ops)

Register a new keytab backend.

Parameters:

context a Keberos context.
ops a backend to register.

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_remove_entry (krb5_context

context, krb5_keytab id, krb5_keytab_entry * entry)
Remove an entry from the keytab, matching is done using **krb5_kt_compare()**.

Parameters:

context a Keberos context.
id a keytab.
entry the entry to remove

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_resolve (krb5_context context, const char * name, krb5_keytab * id)
Resolve the keytab name (of the form ‘type:residual’) in ‘name’ into a keytab in ‘id’.

Parameters:

context a Keberos context.
name name to resolve
id resulting keytab, free with **krb5_kt_close()**.

Returns:

Return an error code or 0, see krb5_get_error_message().

KRB5_LIB_FUNCTION krb5_error_code KRB5_LIB_CALL krb5_kt_start_seq_get (krb5_context context, krb5_keytab id, krb5_kt_cursor * cursor)
Set ‘cursor’ to point at the beginning of ‘id’.

Parameters:

context a Keberos context.
id a keytab.
cursor a newly allocated cursor, free with **krb5_kt_end_seq_get()**.

Returns:

Return an error code or 0, see krb5_get_error_message().