NAME

krb5_get_credentials, **krb5_get_credentials_with_flags**, **krb5_get_kdc_cred**, **krb5_get_renewed_creds** - get credentials from the KDC using krbtgt

LIBRARY

Kerberos 5 Library (libkrb5, -lkrb5)

SYNOPSIS

#include <krb5.h>

krb5_error_code
krb5_get_credentials(*krb5_context context*, *krb5_flags options*, *krb5_ccache ccache*,
  *krb5_creds *in_creds*, *krb5_creds **out_creds*);

krb5_error_code
krb5_get_credentials_with_flags(*krb5_context context*, *krb5_flags options*, *krb5_kdc_flags flags*,
  krb5_ccache ccache, *krb5_creds *in_creds*, *krb5_creds **out_creds*);

krb5_error_code
krb5_get_kdc_cred(*krb5_context context*, *krb5_ccache id*, *krb5_kdc_flags flags*,
  *krb5_addresses *addresses*, *Ticket *second_ticket*, *krb5_creds *in_creds*, *krb5_creds **out_creds*);

krb5_error_code
krb5_get_renewed_creds(*krb5_context context*, *krb5_creds *creds*, *krb5_const_principal client*,
  krb5_ccache ccache, *const char *in_tkt_service*);

DESCRIPTION

krb5_get_credentials_with_flags() get credentials specified by *in_creds->server* and *in_creds->client* (the rest of the *in_creds* structure is ignored) by first looking in the *ccache* and if doesn't exists or is expired, fetch the credential from the KDC using the krbtgt in *ccache*. The credential is returned in *out_creds* and should be freed using the function **krb5_free_creds**().

Valid flags to pass into *options* argument are:

KRB5_GC_CACHED   Only check the *ccache*, don't got out on network to fetch credential.
KRB5_GC_USER_USER   Request a user to user ticket. This option doesn't store the resulting user to
                    user credential in the *ccache*.
KRB5_GC_EXPIRED_OK returns the credential even if it is expired, default behavior is trying to
                    refetch the credential from the KDC.

Flags are KDCOptions, note the caller must fill in the bit-field and not use the integer associated structure.

krb5_get_credentials() works the same way as **krb5_get_credentials_with_flags**() except that the *flags* field is missing.

krb5_get_kdc_cred() does the same as the functions above, but the caller must fill in all the information andits closer to the wire protocol.

krb5_get_renewed_creds() renews a credential given by *in_tkt_service* (if NULL the default krbtgt) using the credential cache *ccache*. The result is stored in *creds* and should be freed using *krb5_free_creds*.

EXAMPLES

Here is a example function that get a credential from a credential cache *id* or the KDC and returns it to the caller.

```
#include <krb5.h>

int
getcred(krb5_context context, krb5_ccache id, krb5_creds **creds)
{
  krb5_error_code ret;
  krb5_creds in;

  ret = krb5_parse_name(context, "client@EXAMPLE.COM",
                            &in.client);
  if (ret)
        krb5_err(context, 1, ret, "krb5_parse_name");

  ret = krb5_parse_name(context, "host/server.example.com@EXAMPLE.COM",
                            &in.server);
  if (ret)
        krb5_err(context, 1, ret, "krb5_parse_name");

  ret = krb5_get_credentials(context, 0, id, &in, creds);
  if (ret)
        krb5_err(context, 1, ret, "krb5_get_credentials");

  return 0;
```

}

SEE ALSO
krb5(3), krb5_get_forwarded_creds(3), krb5.conf(5)