NAME

krb5_pwcheck, kadm5_setup_passwd_quality_check, kadm5_add_passwd_quality_verifier, kadm5_check_password_quality - Heimdal warning and error functions

LIBRARY

Kerberos 5 Library (libkadm5srv, -lkadm5srv)

SYNOPSIS

```
#include <kadm5-protos.h>
#include <kadm5-pwcheck.h>
```

void

```
kadm5_setup_passwd_quality_check(krb5_context context, const char *check_library, const char *check_function);
```

krb5_error_code

kadm5_add_passwd_quality_verifier(krb5_context context, const char *check_library);

const char *

kadm5_check_password_quality(krb5_context context, krb5_principal principal, krb5_data *pwd_data);

int

(*kadm5_passwd_quality_check_func)(krb5_context context, krb5_principal principal, krb5_data *password, const char *tuning, char *message, size_t length);

DESCRIPTION

These functions perform the quality check for the heimdal database library.

There are two versions of the shared object API; the old version (0) is deprecated, but still supported. The new version (1) supports multiple password quality checking policies in the same shared object. See below for details.

The password quality checker will run all policies that are configured by the user. If any policy rejects the password, the password will be rejected.

Policy names are of the form 'module-name:policy-name' or, if the the policy name is unique enough, just 'policy-name'.

IMPLEMENTING A PASSWORD OUALITY CHECKING SHARED OBJECT

(This refers to the version 1 API only.)

Module shared objects may conveniently be compiled and linked with libtool(1). An object needs to export a symbol called 'kadm5_password_verifier' of the type *struct kadm5_pw_policy_verifier*.

Its *name* and *vendor* fields should contain the obvious information. *name* must match the 'module-name' portion of the policy name (the part before the colon), if the policy name contains a colon, or the policy will not be run. *version* should be KADM5_PASSWD_VERSION_V1.

funcs contains an array of struct kadm5_pw_policy_check_func structures that is terminated with an entry whose name component is NULL. The name field of the array must match the 'policy-name' portion of a policy name (the part after the colon, or the complete policy name if there is no colon) specified by the user or the policy will not be run. The func fields of the array elements are functions that are exported by the module to be called to check the password. They get the following arguments: the Kerberos context, principal, password, a tuning parameter, and a pointer to a message buffer and its length. The tuning parameter for the quality check function is currently always NULL. If the password is acceptable, the function returns zero. Otherwise it returns non-zero and fills in the message buffer with an appropriate explanation.

RUNNING THE CHECKS

kadm5_setup_passwd_quality_check sets up type 0 checks. It sets up all type 0 checks defined in krb5.conf(5) if called with the last two arguments null.

kadm5_add_passwd_quality_verifier sets up type 1 checks. It sets up all type 1 tests defined in krb5.conf(5) if called with a null second argument. **kadm5_check_password_quality** runs the checks in the order in which they are defined in krb5.conf(5) and the order in which they occur in a module's *funcs* array until one returns non-zero.

SEE ALSO

libtool(1), krb5(3), krb5.conf(5)