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1.5 Kerberos (CablexChange) 5.0 :1.5.1

1.5.1 Available under license :

Kerberos Version 5, Release 1.5.1

Release Notes
The MIT Kerberos Team

Unpacking the Source Distribution

The source distribution of Kerberos 5 comes in a gzipped tarfile, krb5-1.5.1.tar.gz. Instructions on how to extract the entire distribution follow.

If you have the GNU tar program and gzip installed, you can simply do:

```
gtar xzpf krb5-1.5.1.tar.gz
```

If you don't have GNU tar, you will need to get the FSF gzip distribution and use gzcata:

```
gzcata krb5-1.5.1.tar.gz | tar xpf -
```

Both of these methods will extract the sources into krb5-1.5.1/src and the documentation into krb5-1.5.1/doc.

Building and Installing Kerberos 5

The first file you should look at is doc/install-guide.ps; it contains the notes for building and installing Kerberos 5. The info file krb5-install.info has the same information in info file format. You can view this using the GNU emacs info-mode, or by using the standalone info file viewer from the Free Software Foundation. This is also available as an HTML file, install.html.

Other good files to look at are admin-guide.ps and user-guide.ps, which contain the system administrator's guide, and the user's guide, respectively. They are also available as info files kerberos-admin.info and krb5-user.info, respectively. These files are

also available as HTML files.

If you are attempting to build under Windows, please see the `src/windows/README` file. Note that this release might not build under Windows currently.

Reporting Bugs

Please report any problems/bugs/comments using the `krb5-send-pr` program. The `krb5-send-pr` program will be installed in the `sbin` directory once you have successfully compiled and installed Kerberos V5 (or if you have installed one of our binary distributions).

If you are not able to use `krb5-send-pr` because you haven't been able to compile and install Kerberos V5 on any platform, you may send mail to `krb5-bugs@mit.edu`.

You may view bug reports by visiting

<http://krbdev.mit.edu/rt/>

and logging in as "guest" with password "guest".

Major changes in 1.5.1

The only significant change in `krb5-1.5.1` is to fix the security vulnerabilities described in MITKRB5-SA-2006-001, which are local privilege escalation vulnerabilities in applications running on Linux and AIX.

krb5-1.5.1 changes by ticket ID

Listed below are the RT tickets of bugs fixed in `krb5-1.5.1`. Please see

<http://krbdev.mit.edu/rt/NoAuth/krb5-1.5/fixed-1.5.1.html>

for a current listing with links to the complete tickets.

- 3904 fix uninitialized vars
- 3956 gssapi compilation errors on Windows
- 3971 broken configure test for `dlopen`
- 3998 Document `add_entry` in `ktutil` man page
- 4012 reverse test for `copy_oid_set` in `lib/gssapi/krb5/indicate_mechs.c`
- 4036 reject configure option for static libraries
- 4037 respect `LD_FLAGS` in NetBSD build

4063 gss_mech glue implementation should validate opaque pointer types
4088 gss_import_name can fail to call gssint_initialize_library()
4125 fix MITKRB5-SA-2006-001: multiple local privilege escalation
vulnerabilities
4137 ksu spuriously fails when exiting shell when ksu-ing to non-root
4168 clean up mkrel patchlevel.h editing etc.

Major changes in 1.5

Kerberos 5 Release 1.5 includes many significant changes to the Kerberos build system, to GSS-API, and to the Kerberos KDC and administration system. These changes build up infrastructure as part of our efforts to make Kerberos more extensible and flexible. While we are confident that these changes will improve Kerberos in the long run, significant code restructuring may introduce portability problems or change behavior in ways that break applications. It is always important to test a new version of critical security software like Kerberos before deploying it in your environment to confirm that the new version meets your environment's requirements. Because of the significant restructuring, it is more important than usual to perform this testing and to report problems you find.

Highlights of major changes include:

- * KDB abstraction layer, donated by Novell.
- * plug-in architecture, allowing for extension modules to be loaded at run-time.
- * multi-mechanism GSS-API implementation ("mechglue"), donated by Sun Microsystems
- * Simple and Protected GSS-API negotiation mechanism ("SPNEGO") implementation, donated by Sun Microsystems
- * Per-directory ChangeLog files have been deleted. Releases now include auto-generated revision history logs in the combined file doc/CHANGES.

Changes by ticket ID

Listed below are the RT tickets of bugs fixed in krb5-1.5. Please see

<http://krbdev.mit.edu/rt/NoAuth/krb5-1.5/fixed-1.5.html>

for a current listing with links to the complete tickets.

581 verify_krb_v4_tgt is not 64-bit clean
 856 patch to add shared library support for BSD/OS 4
 1245 source tree not 64-bit clean
 1288 v4 ticket file format incompatibilities
 1431 fix errno.h references for cygwin
 1434 use win32 rename solution in rcache for cygwin
 1988 profile library fails to handle space in front of comments
 2577 [Russ Allbery] Bug#250966: /usr/sbin/klogind: Authorization
 behavior not fully documented
 2615 Fwd: Patch for telnet / telnetd to avoid crashes when used
 with MS kdc and PAC field
 2628 Cygwin build patches
 2648 [Russ Allbery] Bug#262192: libkrb53: krb_get_pw_in_tkt
 problems with AFS keys
 2712 whitespace patch for src/kdc/kerberos_v4.c
 2759 fake-getaddrinfo.h incorrectly checks for gethostbyname_r errors
 2761 move getaddrinfo hacks into support lib for easier maintenance
 2763 file ccache should be held open while scanning for credentials
 2786 dead code in init_common() causes malloc(0)
 2791 hooks for recording statistics on locking behavior
 2807 Add VERSIONRC branding to krb5 support dll
 2855 Possible thread safety issue in lib/krb5/os/def_realm.c
 2856 Need a function to clone krb5_context structs for thread safe apps
 2863 windows klist won't link
 2880 fix calling convention for thread support fns
 2882 Windows 2003 SP1 ktpass.exe generate keytab files fail to load with 1.4
 2886 krb5_do_preauth could attempt to free NULL pointer
 2931 implement SPNEGO
 2932 implement multi-mech GSSAPI
 2933 plug-in architecture
 2936 supplementary error strings
 2959 profile library should check high-resolution timestamps if available
 2979 threaded test program built even with thread support disabled
 3008 Incorrect cross-references in man pages
 3010 Minor path and service man page fixes
 3011 krb5-config should never return -I/usr/include
 3013 Man pages for fakeka and krb524init
 3014 texinfo variable fixes, info dir entries
 3030 Bug report: Kinit has no suport for addresses in
 credentials. Kinit -a is not enabled.
 3065 Implement RFC 3961 PRF
 3086 [Sergio Gelato] Bug#311977: libkrb53: gss_init_sec_context
 sometimes fails to initialise output_token
 3088 don't always require support library when building with sun cc
 3122 fixes for AIX 5.2 select() and IPv4/IPv6 issues
 3129 shlib build problems on HP-UX 10.20 with gcc-3.4.3
 3233 kuserok needs to check for uid 99 on Mac OS X

3252 Tru64 compilation fails after k5-int.h/krb5.h changes
 3266 Include errno.h in kdc/kerberos_v4.c
 3268 kprop should fall back on port 754 rather than failing
 3269 telnet help should connect to a host named help
 3308 kadmin.local is killed due to segmentation fault when
 principal name argument is missing.
 3332 don't destroy uninitialized rcache mutex in error cases
 3358 krb5 doesn't build when pthread_mutexattr_setrobust_np is
 defined but not declared
 3364 plugins should be thread-safe
 3415 Windows 64-bit support
 3416 tweak kdb interface for thread safety
 3417 move/add thread support to support lib
 3423 Add support for utmps interface on HP/UX 11.23
 3426 trunk builds without thread support are not working
 3434 sizeof type should be checked at compile time, not configure time
 3438 enhancement: report errno when generic I/O errors happen in kinit
 3445 args to ctype.h macros should be cast to unsigned char, not int
 3466 ioctl header portability fixes for telnet on GNU/kFreeBSD
 3467 Allow GSS_C_NO_OID in krb5_gss_canon_name
 3468 udp_preference_limit typo in krb5.conf man page
 3490 getpwnam_r status checked incorrectly
 3502 Cannot acquire initiator cred using gss_acquire_cred with
 explicit name on Windows
 3512 updates to NSIS installer for KFW
 3521 Add configurable Build value to File and Product versions for Windows
 3549 library double-free with an empty keytab
 3607 clients/ksu/setenv.c doesn't build on Solaris
 3620 use strerror_r
 3668 Prototype for krb5_c_prf missing const
 3671 shsUpdate should take an unsigned int for length
 3675 unsigned/signed int warnings in krb5_context variables.
 3687 initialize cc_version to 0 not NULL
 3688 Added CoreFoundation bundle plugin support
 3689 build kadm5 headers in generate-files-mac target
 3690 build rpc includes in generate-files-mac target.
 3697 kadmin hangs indefinitely when admin princ has escaped chars
 3706 ipv4+ipv6 messages can trip up KDC replay detection
 3714 fix incorrect padata memory allocation in send_tgs.c
 3716 Plugin search algorithm should take lists of name and directories
 3719 fix bug in flag checking in libdb2 mpool code
 3724 need to export kadm5_set_use_password_server
 3736 Cleanup a number of cast away from const warnings in gssapi
 3739 vsnprintf not present on windows
 3746 krb5_cc_gen_new memory implementation doesn't create a new ccache
 3761 combine kdc.conf, krb5.conf data in KDC programs
 3783 install headers into include/krb5
 3790 memory leak in GSSAPI credential releasing code

3791 memory leak in gss_krb5_set_allowable_enctypes error path
 3825 krb5int_get_plugin_dir_data() uses + instead of * in realloc
 3826 memory leaks in krb5kdc due to not freeing error messages
 3854 CCAPI krb4int_save_credentials_addr should match prototype
 3866 gld --as-needed not portable enough
 3879 Update texinfo.tex
 3888 ftpd's getline conflicts with current glibc headers
 3898 Export gss_inquire_mechs_for_name for KFW
 3899 Export krb5_gss_register_acceptor_identity in KFW
 3900 update config.guess and config.sub
 3902 g_userok.c has implicit declaration of strlen
 3903 various kadm5 files need string.h
 3905 warning fixes for spnego
 3909 Plugins need to use RTLD_GROUP when available, but definitely
 not RTLD_GLOBAL
 3910 fix parallel builds for libgss
 3911 getaddrinfo code uses vars outside of storage duration
 3918 fix warnings for lib/gssapi/mechglue/g_initialize.c
 3920 cease export of krb5_gss_*
 3921 remove unimplemented/unused mechglue functions
 3922 mkrel should update patchlevel.h prior to reconf
 3923 implement RFC4120 behavior on TCP requests with high bit set in length
 3924 the krb5_get_server_rcache routine frees already freed memory
 in error path
 3925 krb5_get_profile should reflect profile in the supplied context
 3927 fix signedness warnings in spnego_mech.c
 3928 fix typo in MS_BUG_TEST case in krb5_gss_glue.c
 3940 Disable MSLSA: ccache in WOW64 on pre-Vista Beta 2 systems
 3942 make gssint_get_mechanism match prototype
 3944 write svn log output when building release
 3945 mkrel should only generate doc/CHANGES for checkouts
 3948 Windows: fix krb5.h generation
 3949 fix plugin.c to compile on Windows
 3950 autoconf 2.60 compatibility
 3951 remove unused dlopen code in lib/gssapi/mechglue/g_initialize.c
 3952 fix calling convention for krb5 error-message routines,
 document usage of krb5_get_error_message
 3953 t_std_conf references private function due to explicit linking
 of init_os_ctx.o
 3954 remove mechglue gss_config's gssint_userok and pname_to_uid
 3957 remove unused lib/gssapi/mechglue/g_utils.c
 3959 re-order inclusions in spnego_mech.c to avoid breaking system headers
 3962 krb5_get_server_rcache double free
 3964 "kdb5_util load" to existing db doesn't work, needed for kpropd
 3968 fix memory leak in mechglue/g_init_sec_ctx.c
 3970 test kdb5_util dump/load functionality in dejagnu
 3972 make gss_unwrap match prototype
 3974 work around failure to load into nonexistent db

Known bugs by ticket ID:

Listed below are the RT tickets for known bugs in krb5-1.5. Please see

<http://krbdev.mit.edu/rt/NoAuth/krb5-1.5/bugs-1.5.html>

for an up-to-date list, including links to the complete tickets.

3947 allow multiple calls to `krb5_get_error_message` to retrieve message

3956 gssapi compilation errors on Windows

3973 `kdb5_util` load now fails if db doesn't exist [workaround]

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src/lib/gssapi, including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inq_context.c
lib/gssapi/mechglue/g_inq_cred.c
lib/gssapi/mechglue/g_inq_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h

lib/gssapi/spnego/spnego_mech.c

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Thanks to Sun Microsystems for donating their implementations of mechglue and SPNEGO.

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Raeburn, Jon Rochlis, Jeff Schiller, Jen Selby, Brad Thompson, Harry Tsai, Ted Ts'o, Marshall Vale, Tom Yu.

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