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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

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```
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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
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Ty Coon, President of Vice
```

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1.4 Kerberos (CablexChange) 5.0 :1.5.1

1.4.1 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 gzcat:

```
gzcat 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](mailto: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/fixes-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 LDFLAGS 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/fixes-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 -l/usr/include  
3013 Man pages for fakeka and krb524init  
3014 texinfo variable fixes, info dir entries  
3030 Bug report: Kinit has no support 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 HPUX 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\_etypes 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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----

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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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-----

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\* krb5\_copy\_keyblock()  
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