

# Insecurity News

## ■ Kerberos

Kerberos is a networked authentication system that uses a trusted third party (a KDC) to authenticate clients and servers against each other.

Several double-free bugs were found in the Kerberos 5 KDC and libraries. A remote attacker could potentially exploit these flaws to execute arbitrary code. The Common Vulnerabilities and Exposures project (<http://cve.mitre.org>) has assigned the names CAN-2004-0642 and CAN-2004-0643 to these issues. A double-free bug was also found in the krb524 server (CAN-2004-0772).

An infinite loop bug was found in the Kerberos 5 ASN.1 decoder library. A remote attacker who knows about this bug may be able to trigger this flaw and cause a denial of service attack within the Kerberos network. The Common Vulnerabilities and Exposures project has

assigned the name CAN-2004-0644 to this issue.

When attempting to contact a KDC, the Kerberos libraries will iterate through the list of configured servers, attempting to contact each in turn. If one of the servers becomes unresponsive, the client will time out and contact the next configured server. When the library attempts to contact the next KDC, the entire process is repeated. For applications that must contact a KDC several times, the accumulated time spent waiting can become significant.

All users of krb5 should install updates that address these issues. ■

*Mandrake reference: MDKSA-2004:088*

*Debian reference: DSA-543-1*

*Gentoo reference: GLSA 200409-09 / mit-krb5*

*Red Hat reference: RHSA-2004:350-12*

## ■ zlib

zlib is a widely used data compression library. Programs linked against it include most desktop applications as well as servers such as Apache and OpenSSH.

The *inflate* function of zlib handles certain input data incorrectly, which could lead to a denial of service condition for programs using it with untrusted data. Whether the vulnerability can be exploited locally or remotely depends on the application using it.

zlib versions older than version 1.2 are not affected. There is no known workaround. After applying the update all programs linked against libz must be restarted. ■

*Mandrake reference: MDKSA-2004:090*

*SuSE reference: SUSE-SA:2004:028*

## ■ Qt

Qt is a software toolkit that simplifies the task of writing and maintaining GUI (Graphical User Interface) applications for the X Window System.

During a security audit, Chris Evans discovered a heap overflow in the BMP image decoder in Qt versions prior to 3.3.3. An attacker could use this vulnerability to create a carefully crafted BMP file in such a way that it would cause an application linked with Qt to crash or possibly execute arbitrary code when the file was opened by a victim. The Common Vulnerabilities and Exposures project has assigned the name CAN-2004-0691 to this issue.

Additionally, various flaws were discovered in the GIF, XPM, and JPEG decoders in Qt versions prior to 3.3.3. An attacker could create a carefully crafted image file that could cause an application linked against Qt to crash when the file was opened. The Common Vulnerabilities and Exposures project has assigned the names CAN-2004-0692 and CAN-2004-0693 to these issues.

Users of Qt should update to these updated packages that contain backported patches. ■

*Mandrake reference: MDKSA-2004:085*

*SuSE reference: SUSE-SA:2004:027*

*Slackware reference: SSA:2004-236-01*

*Debian reference: DSA-542-1 qt -- unsanitised input*

*Red Hat reference: RHSA-2004:414-19*

## Security Posture of Major Distributions

| Distributor | Security Sources   | Comments  |
|-------------|--|---|
| Debian      | Info: <a href="http://www.debian.org/security/">http://www.debian.org/security/</a><br>List: <a href="http://lists.debian.org/debian-security-announce/">http://lists.debian.org/debian-security-announce/</a> Reference: DSA-... 1)   | The current Debian security advisories are included on the homepage. Advisories are provided as HTML pages with links to the patches. The security advisory also contains a reference to the mailing list.  |
| Gentoo      | Info: <a href="http://www.gentoo.org/security/en/glsa/index.xml">http://www.gentoo.org/security/en/glsa/index.xml</a><br>Forum: <a href="http://forums.gentoo.org/">http://forums.gentoo.org/</a><br>List: <a href="http://www.gentoo.org/main/en/lists.xml">http://www.gentoo.org/main/en/lists.xml</a> Reference: GLSA: ... 1) | The current security advisories for Gentoo are listed on the Gentoo security site linked off the homepage. Advisories are provided as HTML pages with the coding to emerge the corrected versions.  |
| Mandrake    | Info: <a href="http://www.mandrakesecure.net">http://www.mandrakesecure.net</a><br>List: <a href="http://www.mandrakesecure.net/en/mlist.php">http://www.mandrakesecure.net/en/mlist.php</a> Reference: MDKSA-... 1)   | MandrakeSoft runs its own Web site on security topics. Among other things, it includes security advisories and references to the mailing lists. The advisories are HTML pages, but there are no links to the patches.   |
| Red Hat     | Info: <a href="http://www.redhat.com/errata/">http://www.redhat.com/errata/</a><br>List: <a href="http://www.redhat.com/mailling-lists/">http://www.redhat.com/mailling-lists/</a> Reference: RHSA-... 1)  | Red Hat files security advisories as so-called Errata: Issues for each Red Hat Linux version are then grouped. The security advisories are provided in the form of an HTML page with links to patches.  |
| Slackware   | Info: <a href="http://www.slackware.com/security/">http://www.slackware.com/security/</a> List: <a href="http://www.slackware.com/lists/(slackware-security)">http://www.slackware.com/lists/(slackware-security)</a> Reference: [slackware-security] ... 1)   | The start page contains links to the security mailing list archive. No additional information on Slackware security is available.   |
| Suse        | Info: <a href="http://www.suse.de/uk/private/support/security/">http://www.suse.de/uk/private/support/security/</a> Patches: <a href="http://www.suse.de/uk/private/download/updates/">http://www.suse.de/uk/private/download/updates/</a><br>List: suse-security-announce<br>Reference: SUSE-SA ... 1)                          | There is no longer a link to the security page after changes to the Web site. It contains information on the mailing list and the advisories. The security patches for the individual Suse Linux versions are shown in red on the general updates site. A short description of the vulnerability the patch resolves is provided |

1) All distributors indicate security mails in the subject line.

