



Security Considerations And Software Integrity

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The Problem

- Java is considered the most vulnerable, downloaded software.
- The primary problem is the execution of malicious Java software
 - Malicious software can be automatically downloaded and executed by a web browser just by visiting a web site if the web browser has Java enabled.

http://www.securelist.com/en/analysis/204792310/Kaspersky_Lab_Report_Java_under_attack_the_evolution_of_exploits_in_2012_2013

Solutions

- Prevent execution of automatically downloaded software
 - Most easily accomplished by disabling Java in your web browsers
- Use only non-malicious software.
 - Software should be digitally signed by the vendor and you need to verify the signature.
 - *Assume* or verify the integrity of the vendor's product.

Disabling Java in Browsers

- To disable Java in Windows and Microsoft IE
 - <http://support.microsoft.com/kb/2751647>
- To disable Java in Firefox
 - <https://support.mozilla.org/en-US/kb/How%20to%20turn%20off%20Java%20applets>
 - You also need to delete any “Helper” application for file suffix “.jnlp”

Use the Latest Version of Java

- Java vulnerabilities are continuously being addressed and software improvements made and new vulnerabilities are continually being discovered.
- Be sure to periodically check for the latest version or configure Java for automatic updates
- <http://www.java.com>

About Eightolives Java Software

- Eightolives software are Java applications that run on your desktop not in your browser
- Eightolives Java software is compiled with the latest version of Oracle's Java with its associated libraries.
- You install Eightolives Java applications on your computer
- Eightolives installation files are digitally signed using Gnu Privacy Guard (gpg) and a Public key

Software Integrity

- The EightolivesInstall downloads are digitally signed. The corresponding digital signatures can also be downloaded when you download the software.
- The eightolives Public Key is downloadable from http://www.eightolives.com/eightolives_key.gpg
- You can use Gnu Privacy Guard (gpg) to verify the signature.
- If you use eightolives' Go, the eightolives application launcher, with Gnu gpg installed, Go will automatically verify signatures for all eightolives downloads
- Software is also available on CD or USB Stick which avoids use of the Internet during install

For more information

- Visit <http://www.eightolives.com>
- For the latest Java download, visit <http://www.java.com>
- For more information on GnuPrivacyGuard (gpg) visit <http://www.gnupg.org>