



Java. Cloud. Leadership.

IcedTea and IcedTea-Web

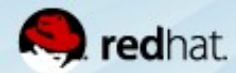
Andrew Overholt
Principal Software Engineer
Red Hat Canada
2011-11-03

- IcedTea
 - OpenJDK vs JDK
 - What?
 - Who?
 - Why?
 - Future
- IcedTea-Web
 - What?
 - History
 - Why?
 - Features
 - Future
- Questions

Persistent index will always show current point

Agenda

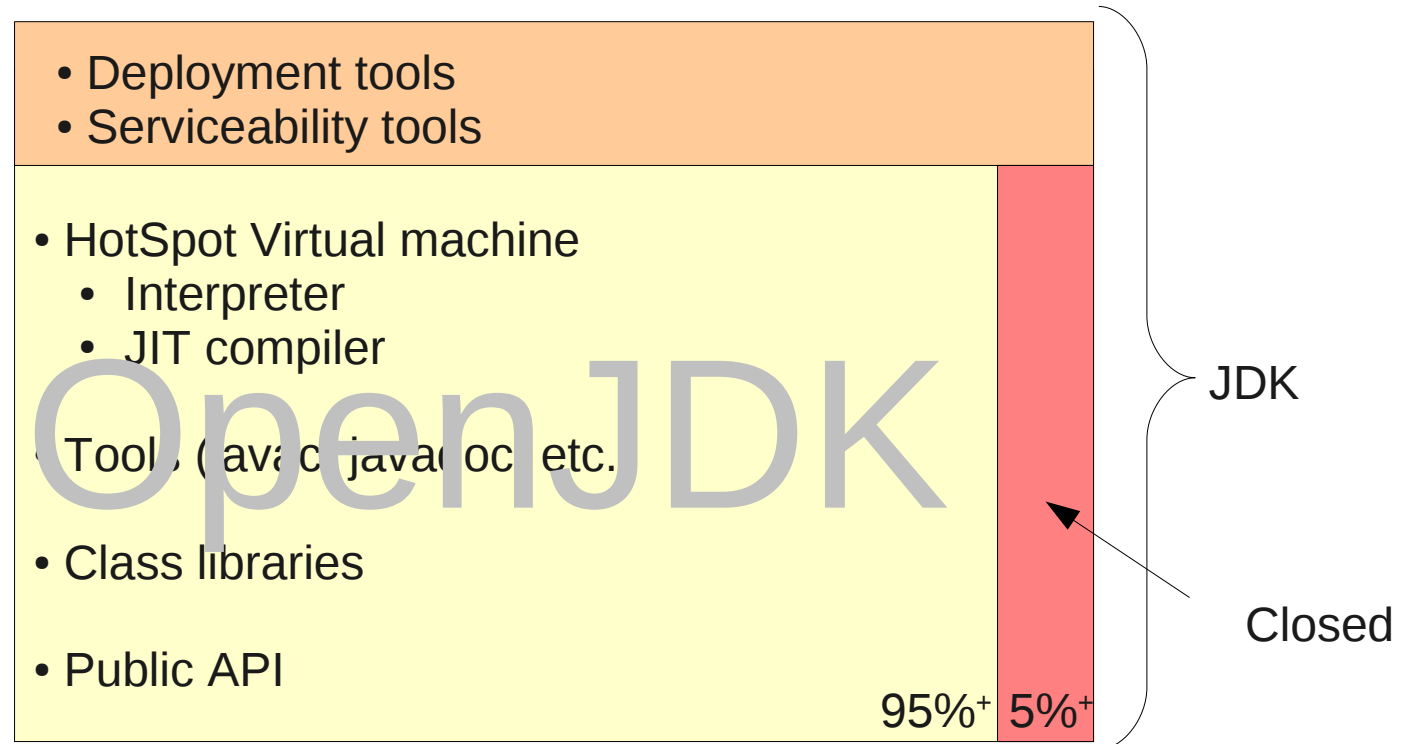
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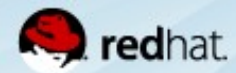
Java. Cloud. Leadership.

OpenJDK vs JDK

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⁺ Last heard, for OpenJDK7 and JDK7



What is IcedTea?

- IcedTea

- OpenJDK vs JDK
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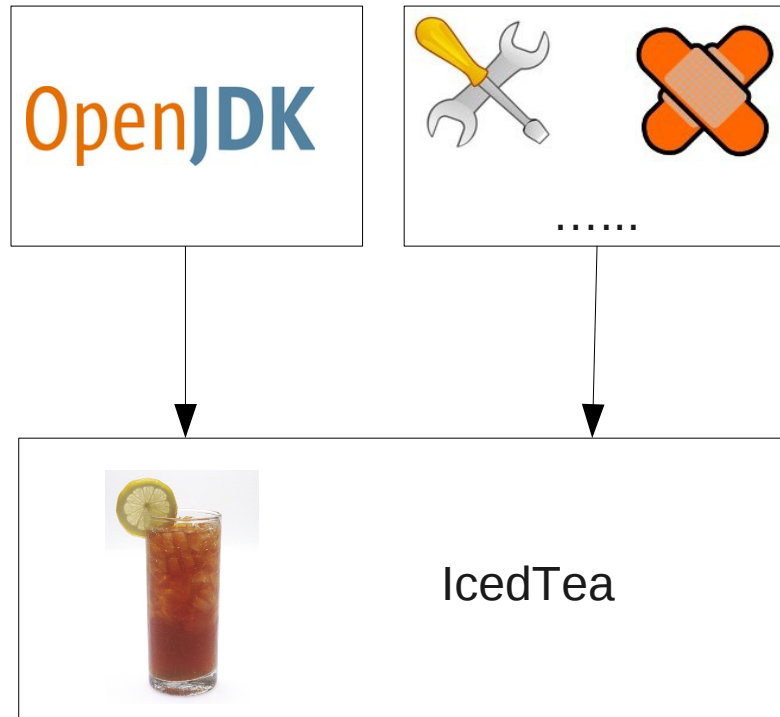
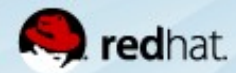


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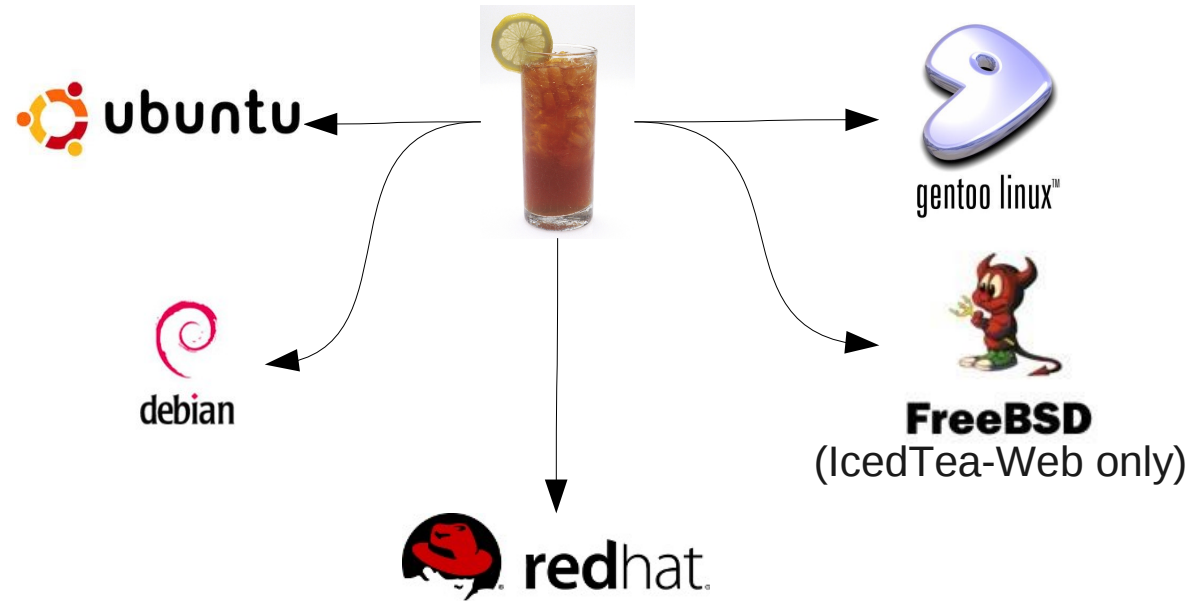
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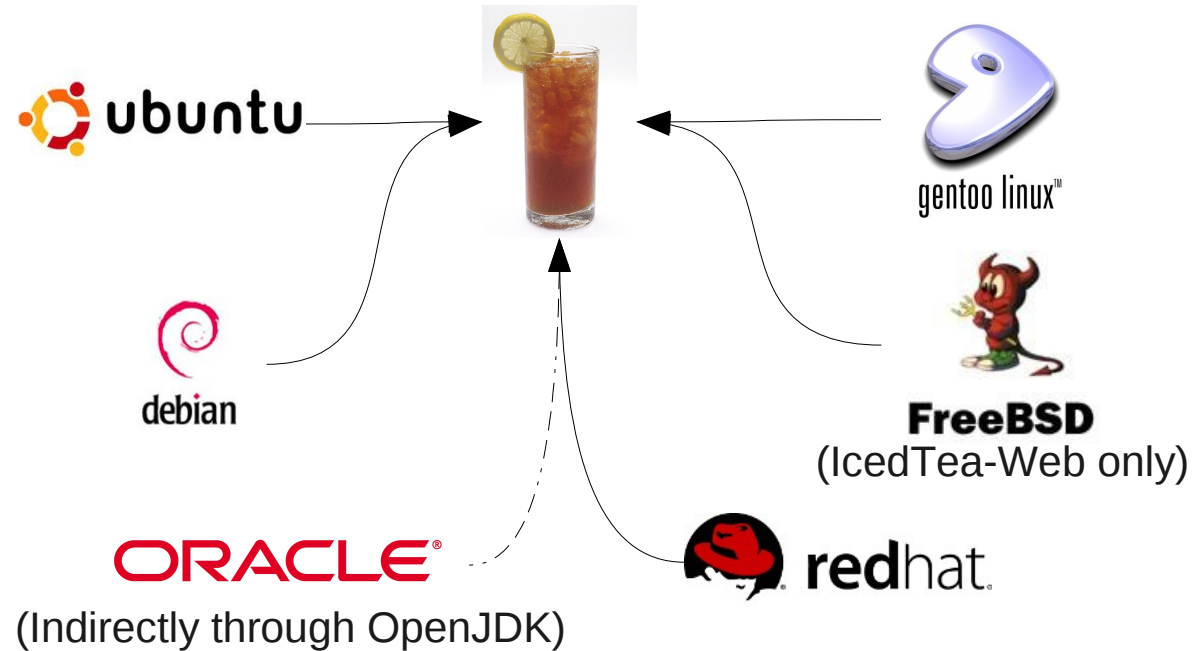
Some of the users...

- IcedTea
 - OpenJDK vs JDK
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Some of the contributors...

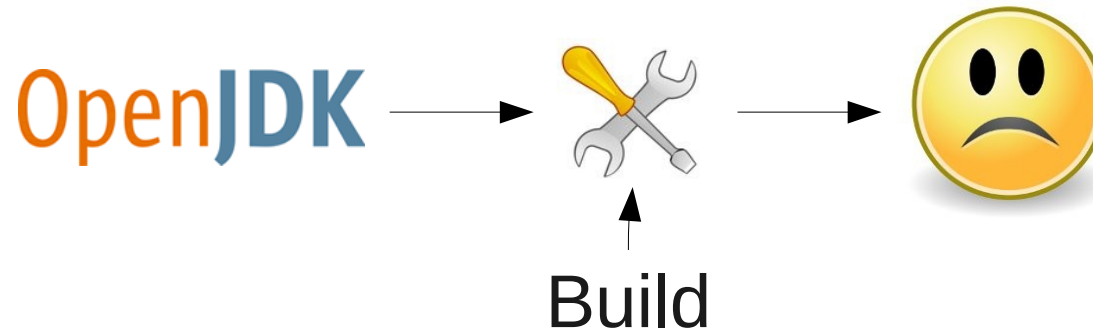
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Why was IcedTea created?

- IcedTea
 - OpenJDK vs JDK
 - What?
 - Who?
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- IcedTea-Web
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(For the first release...)

Image sources:
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To fix the build...

- IcedTea
 - OpenJDK vs JDK
 - What?
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 - Future
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Image sources:
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To fill what's missing...

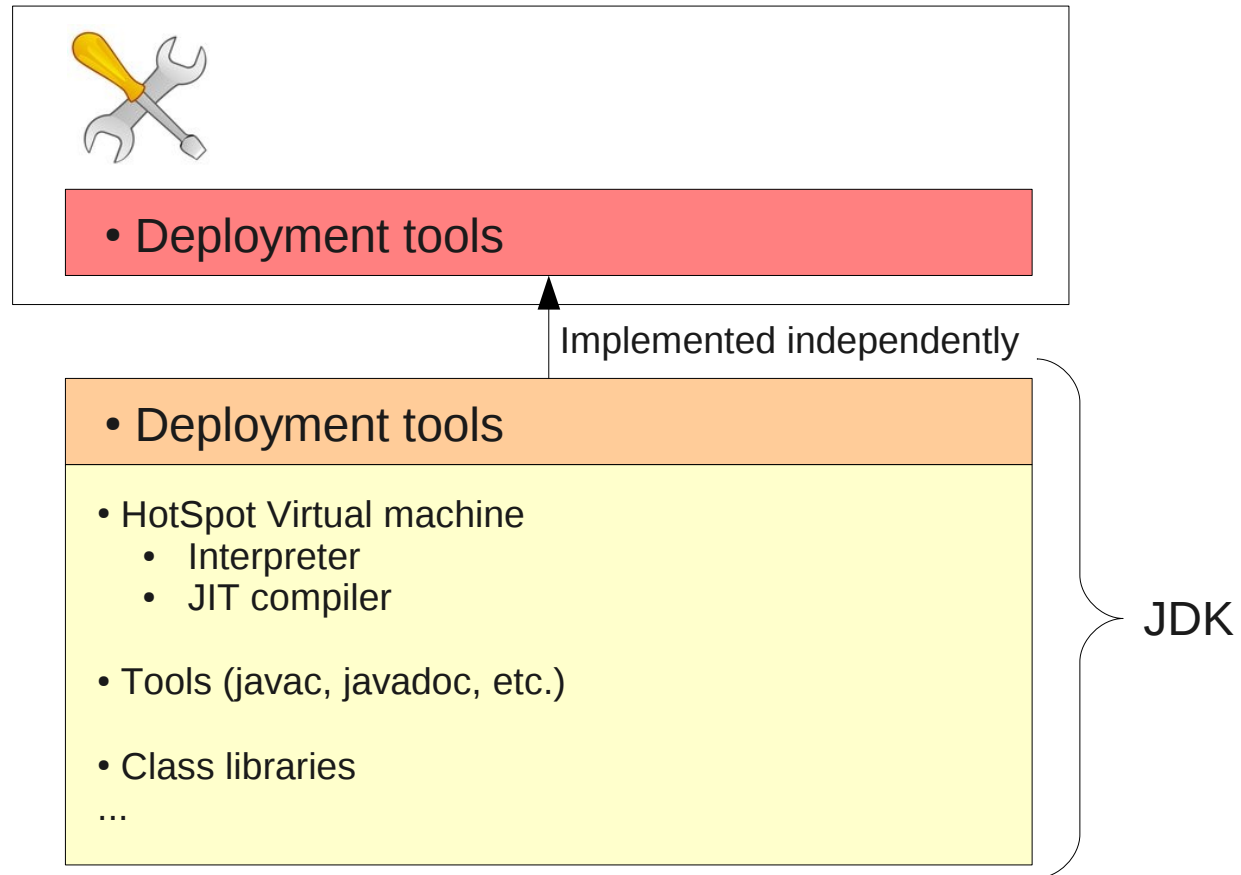
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To back patch fixes...

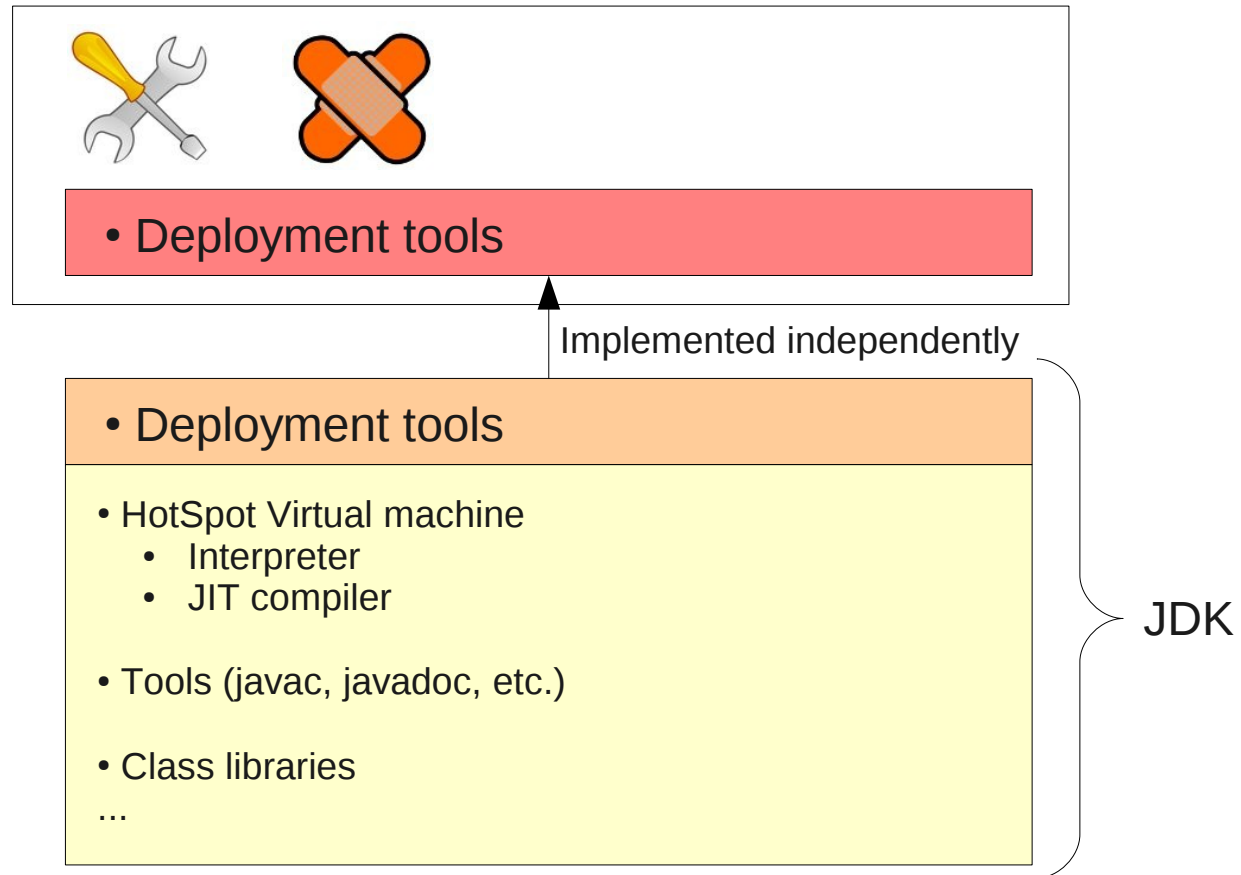
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To support additional architectures...

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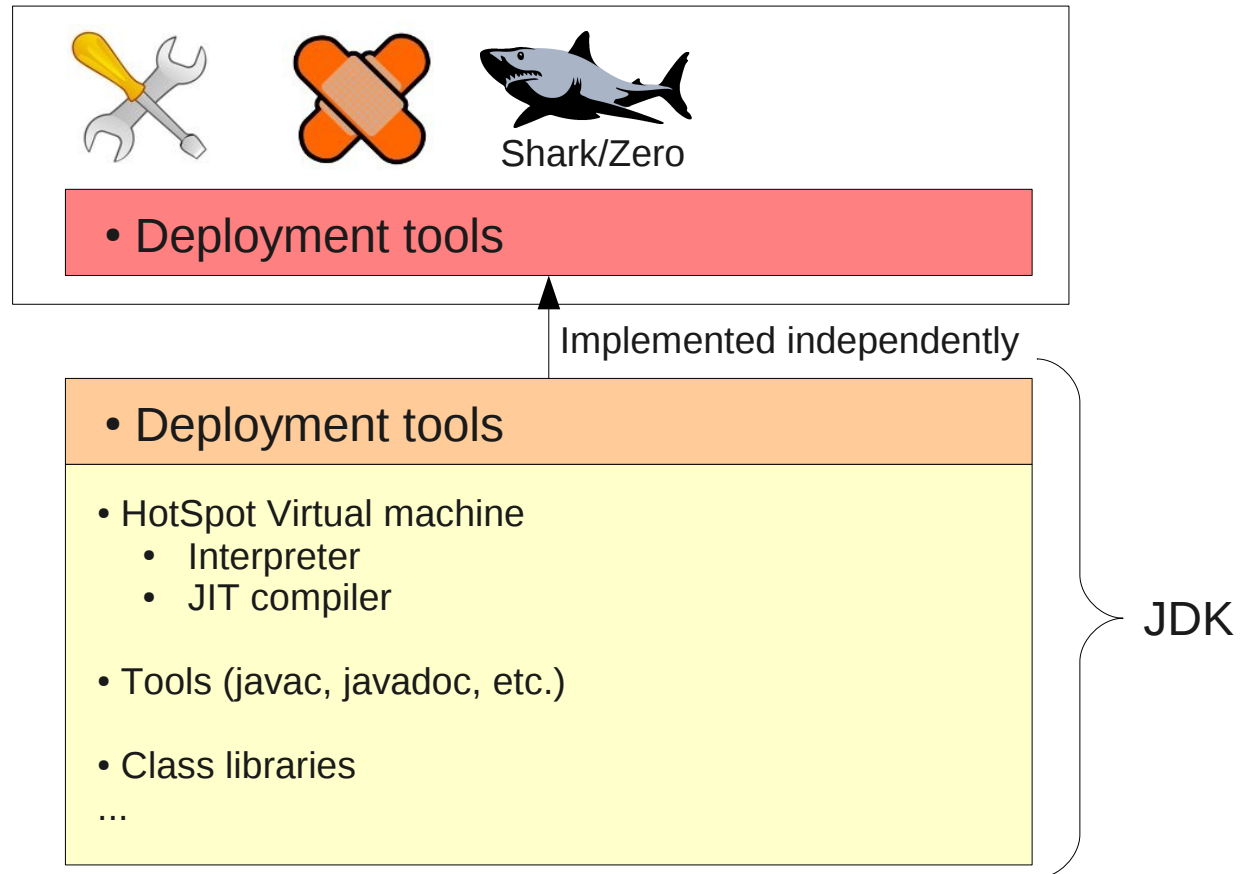
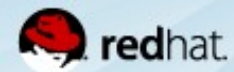


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To support additional tools...

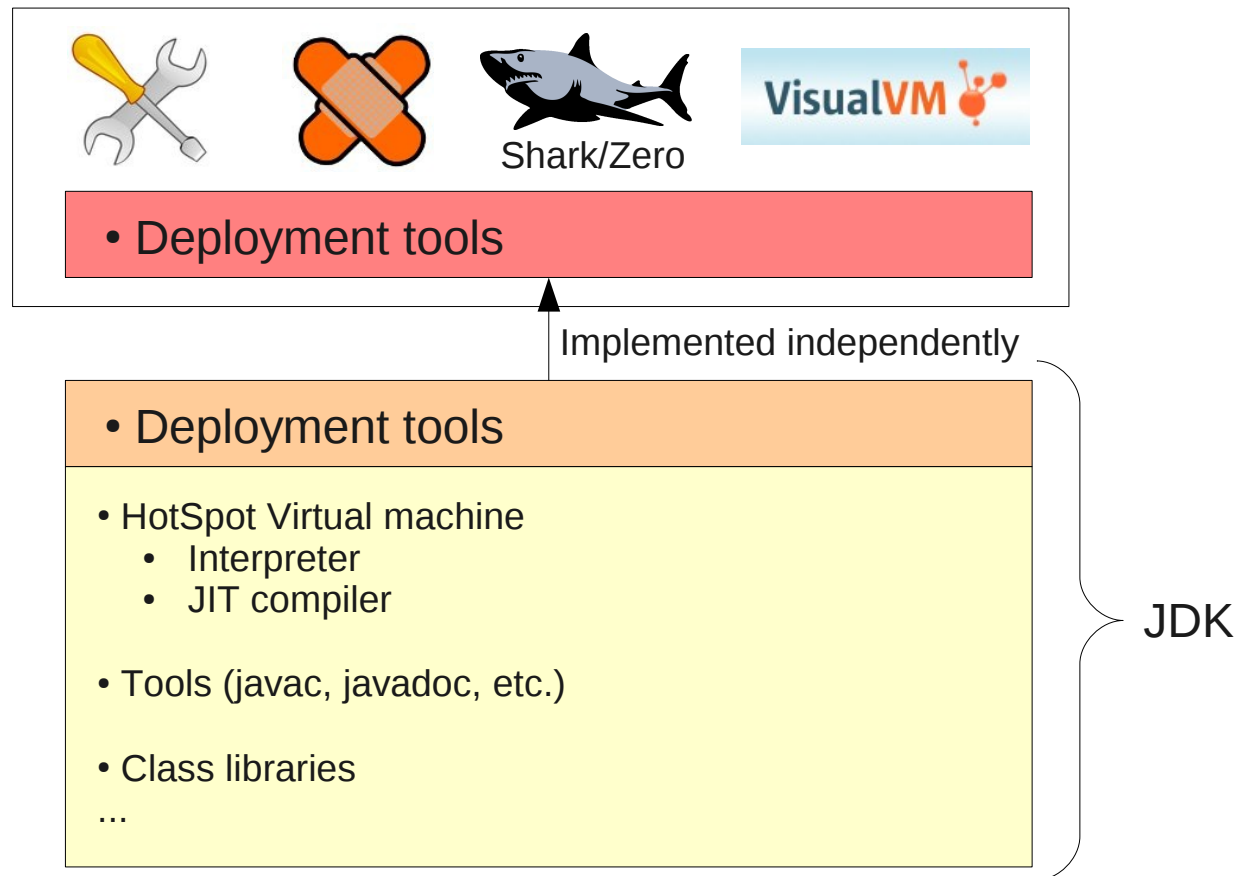
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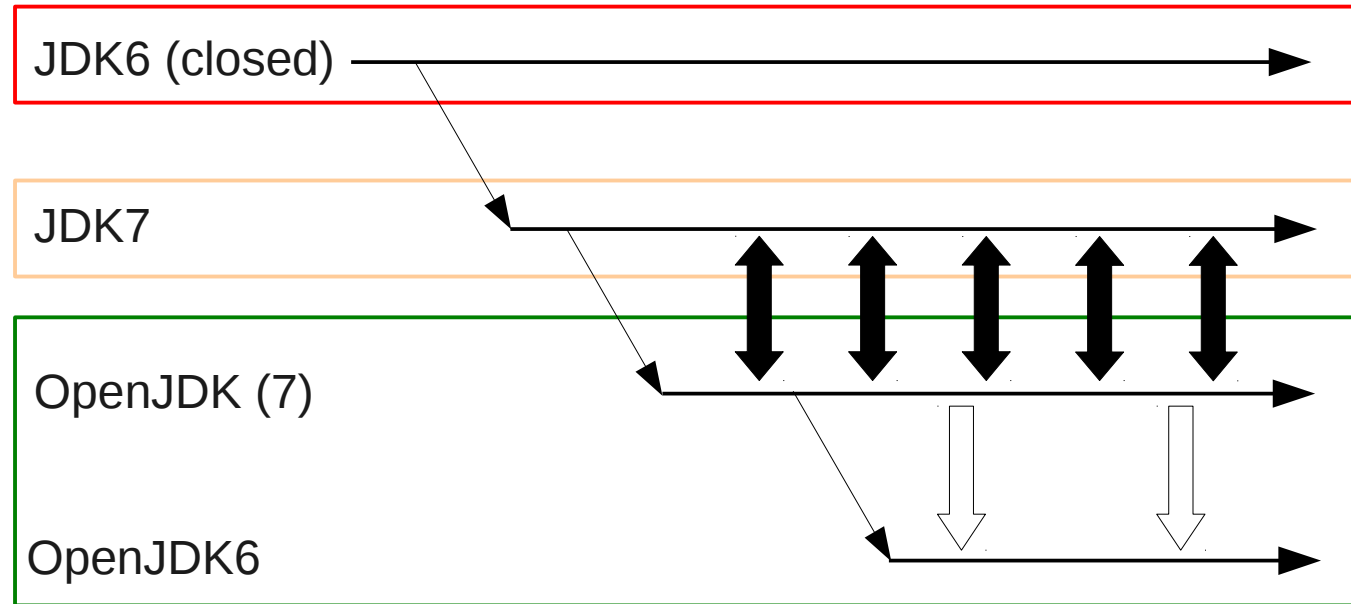
- What?
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To keep OpenJDK6 up-to-date

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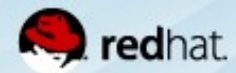


- Proprietary
- Semi-open (Development in open + some proprietary patches)
- Open



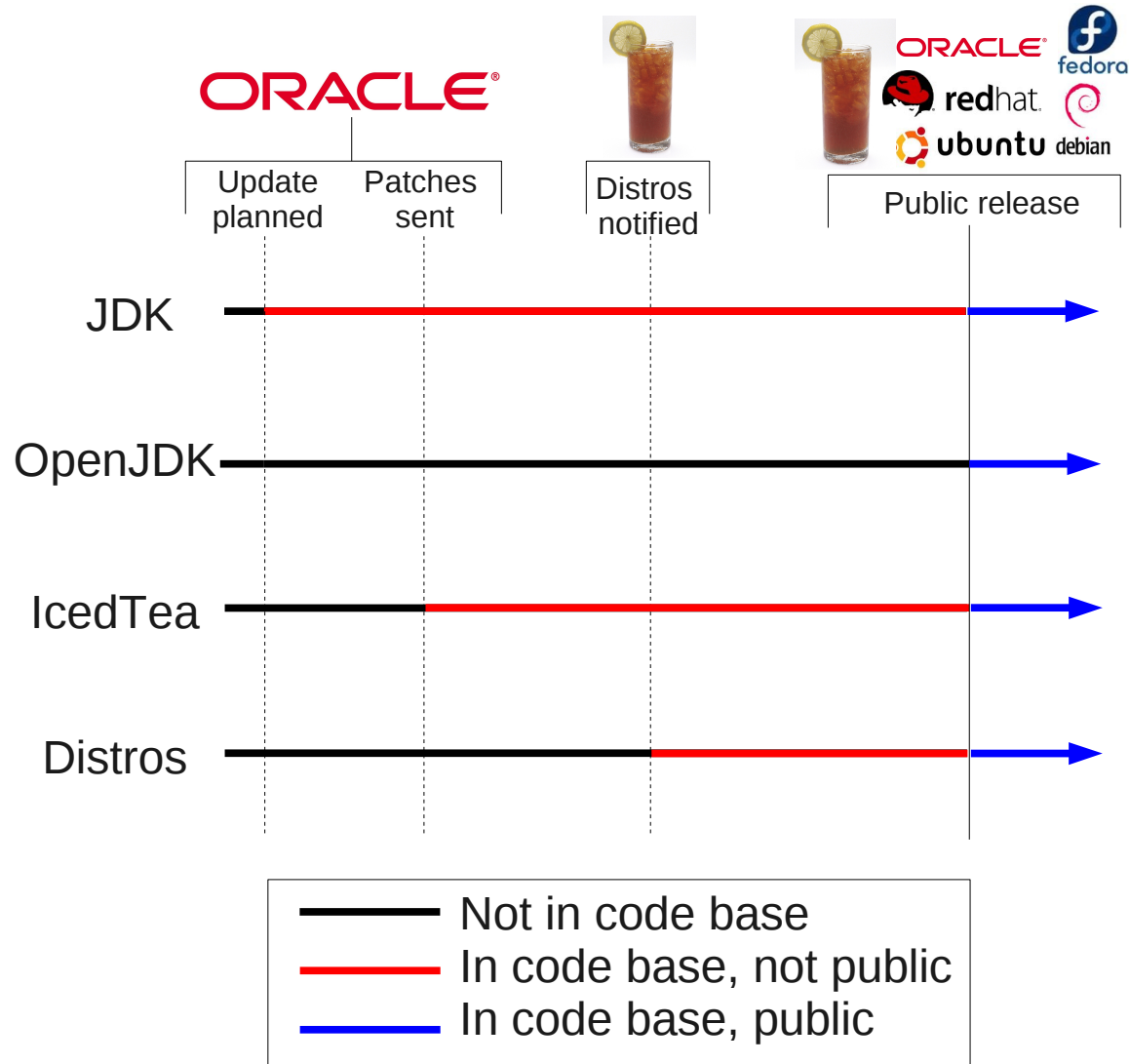
OpenJDK6 involvement

- IcedTea
 - OpenJDK vs JDK
 - What?
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- OpenJDK7 → OpenJDK6
- Majority of the OpenJDK6 commits are backports
- Red Hat is the primary backporter
- IcedTea-Web
 - What?
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Co-ordinated security

- IcedTea
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Current structure

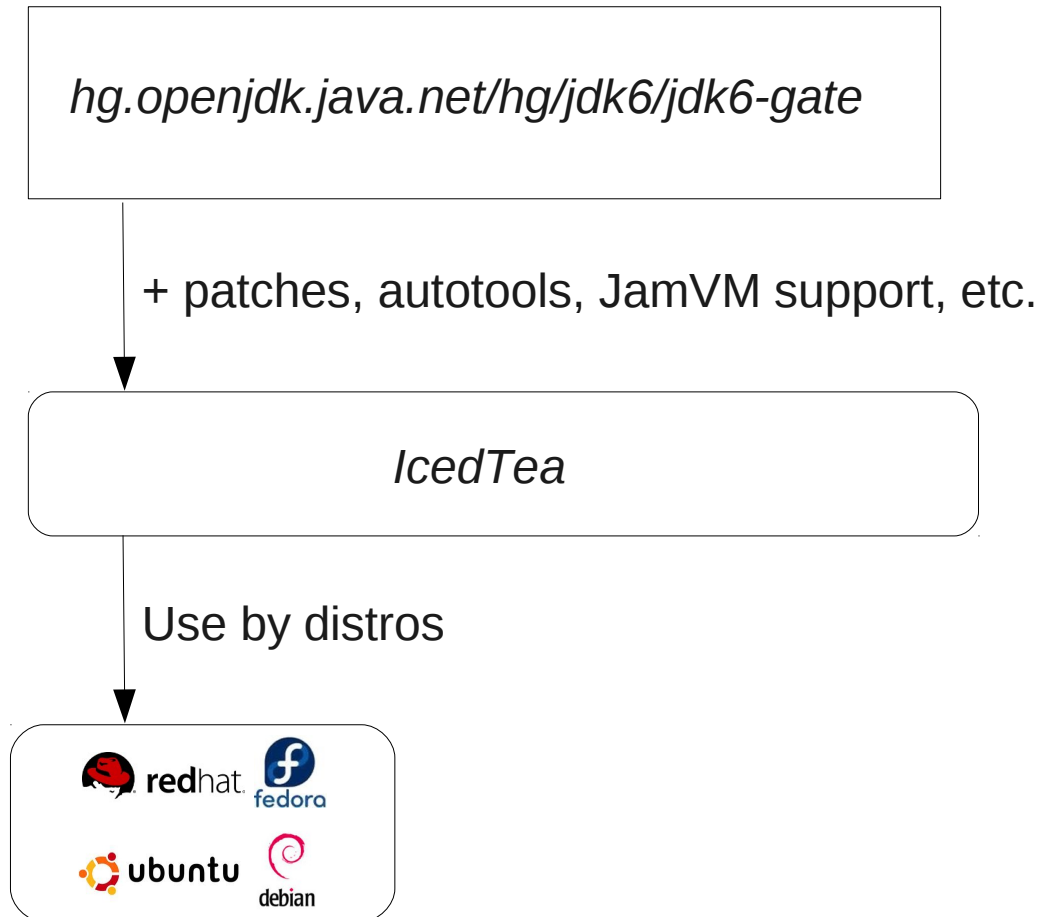
- IcedTea

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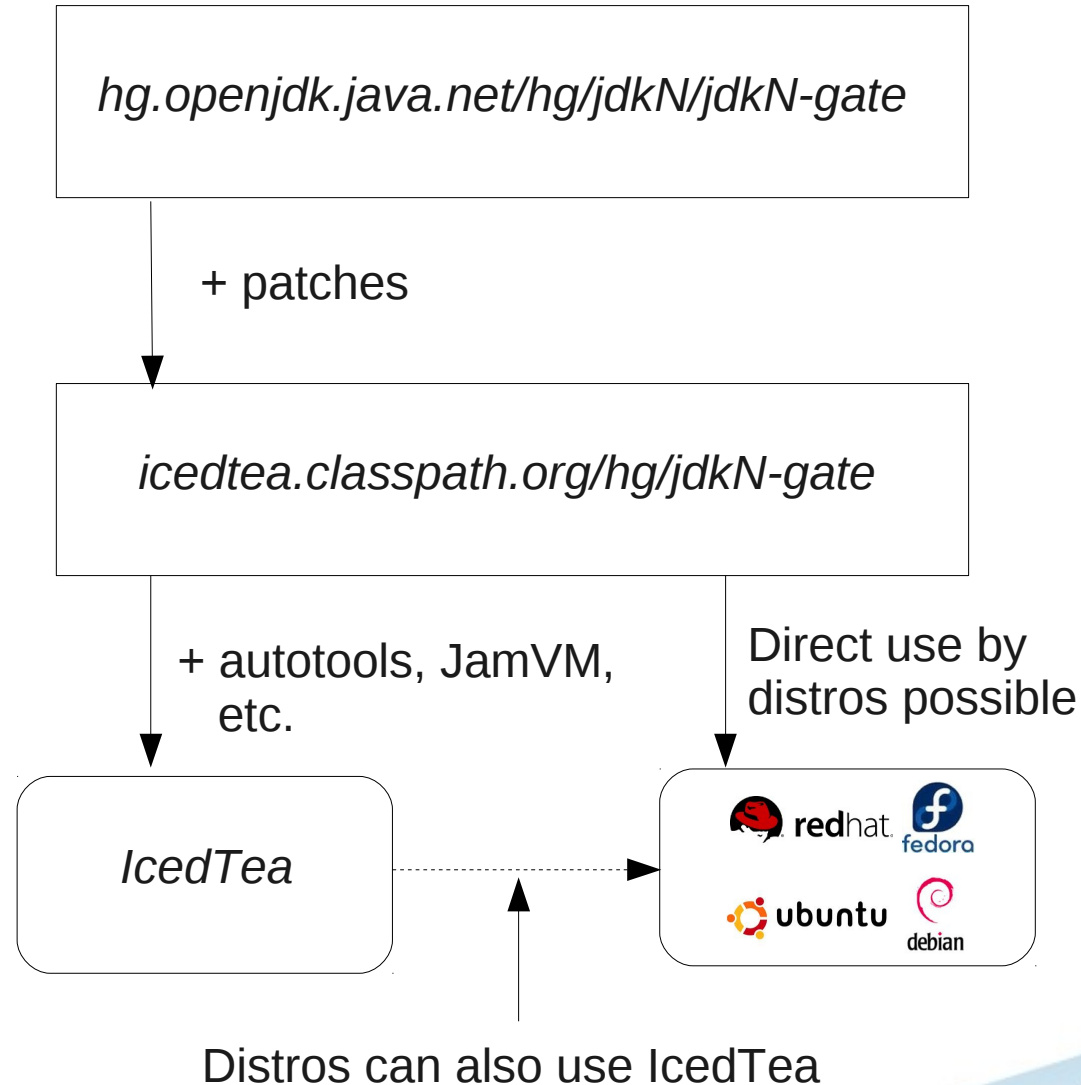
- What?
- History
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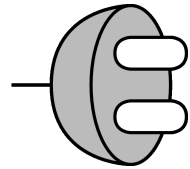
Future

- IcedTea
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IcedTea-Web

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Web Browser Plug-in



Web Start (javaws)



Settings tool (itweb-settings)

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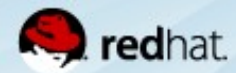
Why is this needed?

- IcedTea
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“this software may not be modified, decompiled or reverse engineered”

- paraphrased from the BCL⁺

⁺ BCL is the Binary Code License under which the proprietary JDK is released



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Fully Open Source

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GPL



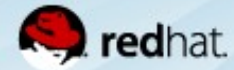
+

Classpath Exception

+ *GPL* stands for **GNU General Public License**

+⁺ *LGPL* stands for **GNU Lesser General Public License**

Image source: <http://www.gnu.org/graphics/official%20gnu.svg>



plug-in features

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JavaScript

Full LiveConnect support (with testsuite to ensure adherence)

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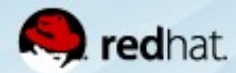
plug-in features

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... (anything that supports NPAPI) ...

Multi-browser support



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plug-in features

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... and any others where Shark/Zero will work ...

Extended architecture support

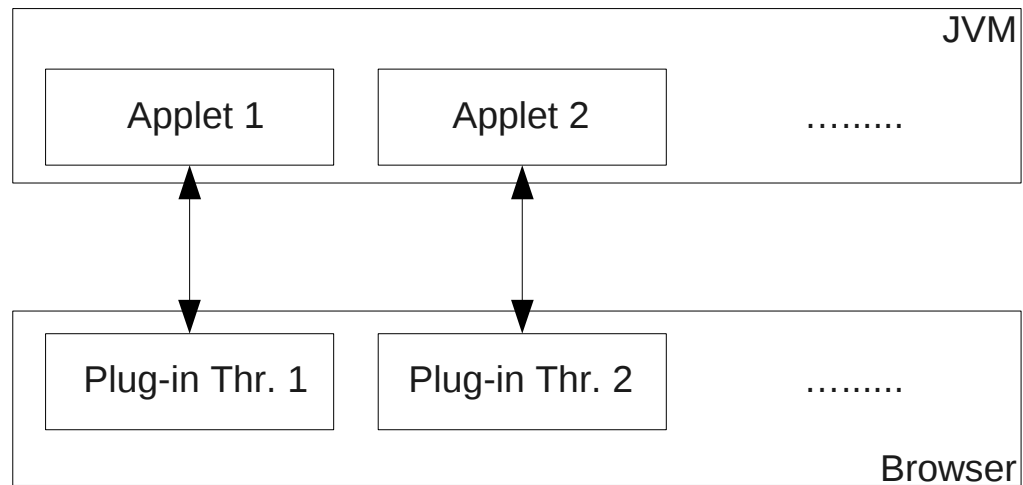
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plug-in features

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Single JVM design

'javaws' features

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... and any others where Shark/Zero will work ...

Extended architecture support

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'javaws' features

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Headless (command-line) support

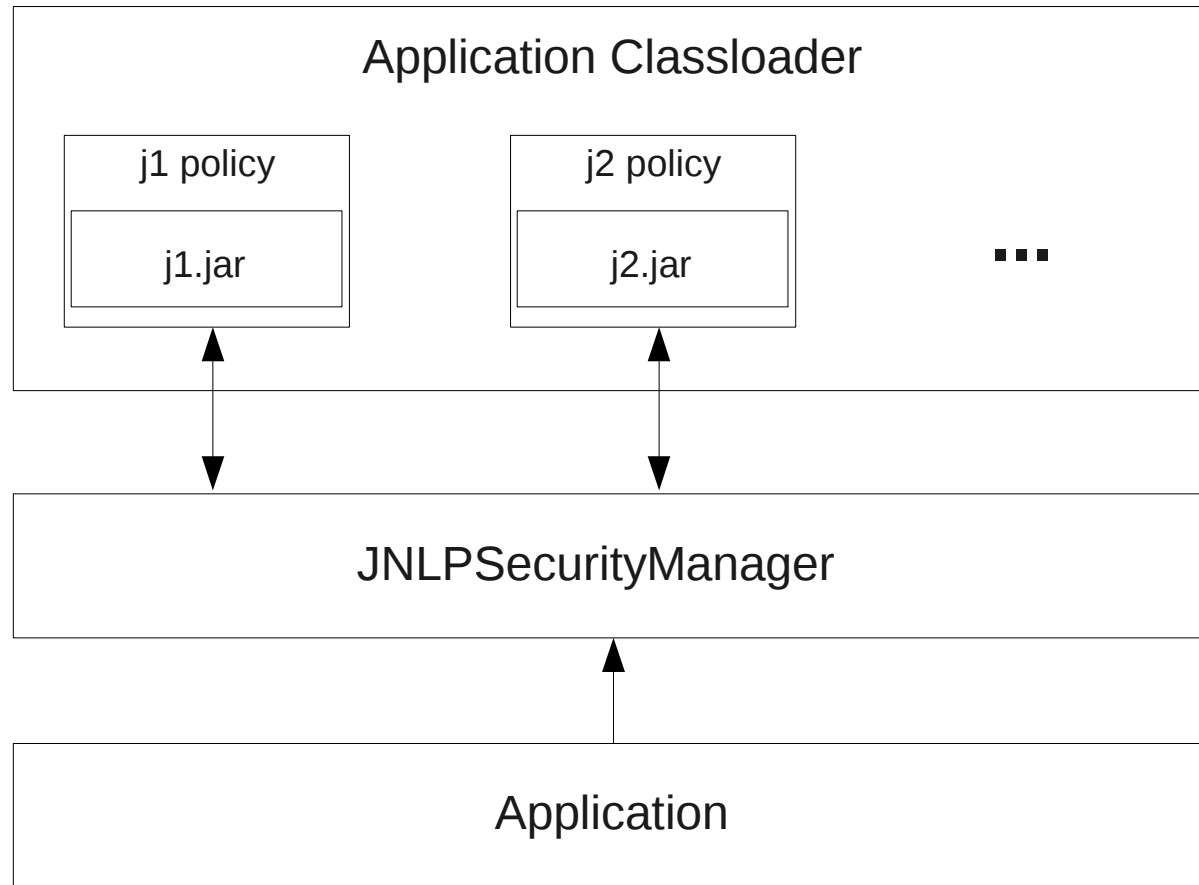
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'javaws' features

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Per-jar policy, even with jnlp hrefs



'itweb-settings' features

- IcedTea

- OpenJDK vs JDK
- What?
- Who?
- Why?
- Future



Certificate management



Proxy configuration

- IcedTea-Web

- What?
- History
- Why?
- Features
- Future



Cache management

- Questions



Security configuration

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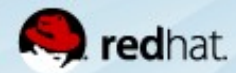


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Future

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- Full LWJGL support
- JNLP_HREF support
- Per site security policies configurable via GUI
- Cache management improvements



Questions?

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 - Why ?
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 - History
 - Why?
 - Features
 - Future
 - Demos
- Questions

Contact:

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Blog: <http://dbhole.wordpress.com>

IcedTea: <http://icedtea.classpath.org/>

IcedTea-Web: <http://icedtea.classpath.org/wiki/IcedTea-Web>

