Java 9 Status tracking

r1720196 | markt | 2015-12-15 18:05:45 +0100 (Tue, 15 Dec 2015) | 1 line Minor hack to get the unit tests passing on Java 9.

JarScanner requires more careful review in light of Java 9 modules.

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r1692896 | markt | 2015-07-27 17:18:49 +0200 (Mon, 27 Jul 2015) | 1 line Add Java 9 support for JSPs

Back-ported for 8.5.x and 8.0.x. Can't back-port for 7.0.x as ECJ that supports Java 9 doesn't run on Java 6. Need to decide how to handle this.

Resolved

| r1809434 rjung 2017-09-23 16:45:48 +0200 (Sat, 23 Sep 2017) 3 lines Use the correct path when loading the JVMlogging.properties file for Java 9. |
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| Already back-ported. |
| r1806973 markt 2017-09-01 17:04:45 +0200 (Fri, 01 Sep 2017) 1 line Java 9 allows us to be more selective with the JRE memory leak protection. |
| Back-ports complete |
| r1806932 markt 2017-09-01 13:10:37 +0200 (Fri, 01 Sep 2017) 1 line Update comment. We now have features that depend on Java 9. |
| Only applied to trunk. |
| r1800617 markt 2017-07-03 12:19:46 +0200 (Mon, 03 Jul 2017) 1 line Add necessary Java 9 configuration options to the startup scripts to prevent warnings being generated on web application stop. |
| Back-ports complete |
| r1800614 markt 2017-07-03 11:48:01 +0200 (Mon, 03 Jul 2017) 1 line Restore the local definition of the web service annotations since the JRE provided versions are deprecated and Java 9 does not provide them by default |
| Not back-ported as this change reverted a previous change. |
| *r1791050 markt 2017-04-12 00:36:01 +0200 (Wed, 12 Apr 2017) 1 line Refactoring in preparation for Java 9. Refactor to avoid using some methods that will be deprecated in Java 9 onwards. |
| Back-ports complete |
| r1791028 markt 2017-04-11 23:16:04 +0200 (Tue, 11 Apr 2017) 1 line Refactoring in preparation for Java 9. Refactor to avoid using some methods that will be deprecated in Java 9 onwards. |
| Back-ports complete |
| r1791027 markt 2017-04-11 22:40:36 +0200 (Tue, 11 Apr 2017) 1 line Refactoring in preparation for Java 9. Refactor to avoid using some methods that will be deprecated in Java 9 onwards. |
| Back-ports complete |
| r1791036 markt 2017-04-11 23:40:13 ±0200 (Tue, 11 Apr 2017) 1 line |

Java 8 and Java 9 friendly alternative

Back-ported to 8.5.x but no further as encoding detector has not been back-ported further. r1791032 | markt | 2017-04-11 23:34:50 +0200 (Tue, 11 Apr 2017) | 1 line Revert the Java 9 change that breaks in Java 8 Back-ported to 8.5.x but no further as encoding detector has not been back-ported further. *r1782857 | markt | 2017-02-13 21:39:14 +0100 (Mon, 13 Feb 2017) | 3 lines Java 9 support for annotation scanningBased on:http://cr.openjdk.java.net/~mr/jigsaw/spec/lang-vm.html#jigsaw-2.6 r1779545 | markt | 2017-01-20 01:12:16 +0100 (Fri, 20 Jan 2017) | 2 lines Adding ALPN support for JSSE with Java 9Enable ALPN and also, therefore, HTTP/2 for the NIO and NIO2 HTTP connectors when using the JSSE implementation for TLS when running on Java 9. Back-ported to 8.5.x but not further since 8.0.x and earlier do not support/require ALPN. r1779313 | markt | 2017-01-18 12:23:17 +0100 (Wed, 18 Jan 2017) | 1 line ws police (I need to configure my Java 9 dev environment correctly) Related to ALPN and handled as part of those back-ports. r1778603 | markt | 2017-01-13 15:42:01 +0100 (Fri, 13 Jan 2017) | 2 lines Adding ALPN support for JSSE with Java 9Add some plumbing to exposed the client requested application protocols to the method that configures the SSLEngine Back-ported to 8.5.x but not further since 8.0.x and earlier do not support/require ALPN. r1778575 | markt | 2017-01-13 13:50:01 +0100 (Fri, 13 Jan 2017) | 2 lines Adding ALPN support for JSSE with Java 9Expand the data extracted from the TLS client hello to include the client requested ALPN names. Back-ported to 8.5.x but not further since 8.0.x and earlier do not support/require ALPN. *r1766822 | markt | 2016-10-27 15:59:41 +0200 (Thu, 27 Oct 2016) | 2 lines ThreadLocal leak detection is now hitting Java 9 module issues. Catch the error and provide a useful error message if this happens. Back-ports complete. r1779932 | markt | 2017-01-23 15:16:32 +0100 (Mon, 23 Jan 2017) | 2 lines Remove unused code, effectively reverting 1779370 and 1779612. Java 9 is now handled in other branch of if/else. Back-ported to 8.5.x but no further as cleaner has not been back-ported further. ______ r1779622 | remm | 2017-01-20 14:09:56 +0100 (Fri, 20 Jan 2017) | 1 line Restore Java 9 direct byte buffer cleanup code, for now. The last way to access it is through the private Unsafe singleton, which will likely stop working at some point Back-ported to 8.5.x but no further as cleaner has not been back-ported further. r1779612 | markt | 2017-01-20 12:58:51 +0100 (Fri, 20 Jan 2017) | 1 line Log message that includes command line option required when running on Java 9 Back-ported to 8.5.x but no further as cleaner has not been back-ported further. r1779370 | markt | 2017-01-18 19:46:27 +0100 (Wed, 18 Jan 2017) | 1 line Java 9 can throw a Java 9 specific exception here (InaccessibleObjectException) so tweak the handling

Back-ported to 8.5.x but no further as cleaner has not been back-ported further.

| *r1762753 remm 2016-09-29 12:20:27 +0200 (Thu, 29 Sep 2016) 1 line Java 9 compatibility for direct ByteBuffer cleaner. |
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| Back-ported to 8.5.x but no further as cleaner has not been back-ported further. |
| *r1758556 markt 2016-08-31 11:09:47 +0200 (Wed, 31 Aug 2016) 1 line The latest Java 9 early access builds have fixed some more memory leaks. |
| Back-ports complete |
| *r1744323 markt 2016-05-17 22:36:54 +0200 (Tue, 17 May 2016) 1 line Make checking for RMI Target memory leaks optional and log a warning if running on Java 9 without the necessary command line options |
| Back-ports complete |
| r1744149 markt 2016-05-16 23:36:39 +0200 (Mon, 16 May 2016) 1 line Tomcat needs to know if it is running on Java 9 since the reflection used by the RMI memory leak detection will break unless the right command line option is specified. |
| Back-ports complete |
| |
| Back-ports complete |
| r1705771 markt 2015-09-28 22:45:08 +0200 (Mon, 28 Sep 2015) 1 line No need for LogManager when using stop. Can't use the Tomcat config anyway since that would resut in two processes trying to write to the same file. This was also causing an ugly stack trace on stop with Java 9 as it tried to find a logging configuration to use. |
| No longer an issue after r1809434 and back-ports |
| |
| Building with Java 9 generates warnings for Tomcat 8.0.x. 7.0.x always uses Java 7 for Javadoc. Added to optional further work. |
| r1653475 markt 2015-01-21 11:39:59 +0100 (Wed, 21 Jan 2015) 1 line Remove use of java.endorsed.dirs since causes errors when starting with Java 9. Users that need to can still use this via setenv.sh |

Not back-ported because Rainer has provided an improved fix for this (which has been back-ported)

Optional additional tasks

Fix Javadoc warnings when building with Java 9 for all versions.

Refactor Tomact 7 build so Java 7 or later is used fro all parts if available.

Backport direct byte buffer clean-up to 8.0.x and 7.0.x