GMS Common PI3 Open Source Release  
Bill of Materials

(does not include infrastructure and environment tools)

Related/Auxiliary Software/Co-Requisite Software:   
*(Not distributed with your code)*

* (Apache License 2.0 AND Eclipse Public License 1.0) – Jetty : Asynchronous HTTP Client Version: 9.4.6.v20170531
* (Apache License 2.0 AND Eclipse Public License 1.0) – Jetty : Servlet Handling Version: 9.4.6.v20170531
* (Apache License 2.0 AND Eclipse Public License 1.0) – Jetty : Websocket : API Version: 9.4.6.v20170531
* (Apache License 2.0 AND Eclipse Public License 1.0) – Jetty : Websocket : Client Version: 9.4.6.v20170531
* (Apache License 2.0 AND Eclipse Public License 1.0) – Jetty : Websocket : Common Version: 9.4.6.v20170531
* (Apache License 2.0 AND Eclipse Public License 1.0) – Jetty : Websocket : Server Version: 9.4.6.v20170531
* (Apache License 2.0 AND Eclipse Public License 1.0) – Jetty : Websocket : Servlet Interface Version: 9.4.6.v20170531
* (Apache License 2.0 AND Eclipse Public License 1.0) – Jetty: Java based HTTP, Servlet, SPDY, WebSocket Server Version: 9.4.6.v20170531
* (Apache License 2.0 OR GNU Lesser General Public License v2.1 or later OR Mozilla Public License 1.1) – Javassist Version: 3.20.0-GA
* (Common Development and Distribution License 1.0 AND GNU General Public License v2.0 w/Classpath exception) – Transaction 1.1 API Version: 1.0.1.Final
* (GNU General Public License v2.0 or later AND GNU Lesser General Public License v2.1 or later AND Eclipse Public License 1.0) – jnr-posix Version: 3.0.27
* (GNU Lesser General Public License v2.1 or later OR Eclipse Public License 1.0) – c3p0:JDBC DataSources/Resource Pools Version: 0.9.5.2
* (GNU Lesser General Public License v2.1 or later OR Eclipse Public License 1.0) – mchange-commons-java Version: 0.2.11
* (Sun GPL With Classpath Exception v2.0 AND Common Development and Distribution License 1.1) – Java Architecture for XML Binding Version: 2.3.0
* (Sun GPL With Classpath Exception v2.0 OR Common Development and Distribution License 1.1) – Java Servlet API Version: 3.1.0
* ANTLR Software Rights Notice – ANTLR Version: 2.7.7
* Apache License 2.0 – Apache Commons Configuration Version: 1.8
* Apache License 2.0 – Apache Commons Lang Version: 2.6
* Apache License 2.0 – Apache Commons Lang Version: 3.6
* Apache License 2.0 – Apache Commons Logging Version: 1.1.1
* Apache License 2.0 – Apache Commons Logging Version: 1.1.3
* Apache License 2.0 – Apache ServiceMix : Bundles : dom4j Version: 1.6.1\_4
* Apache License 2.0 – archaius-core Version: 0.7.6
* Apache License 2.0 – Byte Buddy Version: 1.6.14
* Apache License 2.0 – Component Runtime : Starter Server Version: 1.0.1
* Apache License 2.0 – Converter: Moshi Version: 2.3.0
* Apache License 2.0 – DataStax Java Driver for Apache Cassandra - Core Version: 3.4.0
* Apache License 2.0 – DataStax Java Driver for Apache Cassandra - Extras Version: 3.3.2
* Apache License 2.0 – EqualsVerifier Version: 2.3.3
* Apache License 2.0 – EqualsVerifier Version: 2.4.6
* Apache License 2.0 – error-prone annotations Version: 2.0.18
* Apache License 2.0 – FindBugs jsr305 Version: 3.0.1
* Apache License 2.0 – Guava: Google Core Libraries for Java Version: 23
* Apache License 2.0 – J2ObjC Annotations Version: 1.1
* Apache License 2.0 – jackson-annotations Version: 2.9.0
* Apache License 2.0 – jackson-core Version: 2.9.3
* Apache License 2.0 – jackson-core Version: 2.9.6
* Apache License 2.0 – jackson-databind Version: 2.9.3
* Apache License 2.0 – jackson-databind Version: 2.9.6
* Apache License 2.0 – jackson-dataformat-msgpack Version: 0.8.14
* Apache License 2.0 – Jackson-datatype-jdk8 Version: 2.9.3
* Apache License 2.0 – Jackson-datatype-jdk8 Version: 2.9.6
* Apache License 2.0 – Jackson-Datatype-JSR310 Version: 2.9.3
* Apache License 2.0 – Jackson-Datatype-JSR310 Version: 2.9.6
* Apache License 2.0 – Java Annotation Indexer Version: 2.0.3.Final
* Apache License 2.0 – java-classmate Version: 1.3.0
* Apache License 2.0 – JBoss Logging 3 Version: 3.3.0.Final
* Apache License 2.0 – jffi - Java Foreign Function Interface Version: 1.2.10
* Apache License 2.0 – jnr-constants Version: 0.9.0
* Apache License 2.0 – jnr-ffi Version: 2.0.7
* Apache License 2.0 – Log4J API Version: 2.8.2
* Apache License 2.0 – Log4J Core Version: 2.8.2
* Apache License 2.0 – Metrics Core Version: 3.2.2
* Apache License 2.0 – Moshi Version: 1.4.0
* Apache License 2.0 – msgpack-core Version: 0.8.14
* Apache License 2.0 – Netty Project Version: 4.0.47.Final
* Apache License 2.0 – OkHttp Version: 3.8.1
* Apache License 2.0 – OkHttp Logging Interceptor Version: 3.8.1
* Apache License 2.0 – OkIO Version: 1.13.0
* Apache License 2.0 – Retrofit Version: 2.3.0
* Apache License 2.0 – SLF4J Binding Version: 2.8.2
* Apache License 2.0 – spark-java Version: 2.7.1
* Apache License 2.0 – Spring Initializr : Generator Version: 0.5.0.RELEASE
* BSD 2-clause "Simplified" License – PostgreSQL JDBC Driver Version: 42.1.4
* BSD 3-clause "New" or "Revised" License – ASM Version: 5.0.3
* Common Development and Distribution License 1.0 – Java EE Transaction API Version: 1.1
* dom4j License (BSD 2.0 +) – dom4j: flexible XML framework for Java Version: 1.6.1
* Eclipse Public License 1.0 – Hibernate JPA 2.1 API Version: 1.0.0.Final
* GNU Lesser General Public License v2.1 or later – Android - platform - prebuilts - tools Version: android-4.1.1\_r1
* GNU Lesser General Public License v2.1 or later – Hibernate Version: 5.2.12
* GNU Lesser General Public License v2.1 or later – Hibernate Commons Annotations Version: 5.0.1.Final
* ISC License – ptrpov Version: 1.0.0
* MIT License – Animal Sniffer Annotations Version: 1.14
* MIT License – influxdb java bindings Version: 2.7
* MIT License – jnr-x86asm Version: 1.0.2
* MIT License – SLF4J API Module Version: 1.7.24
* MIT License – SLF4J API Module Version: 1.7.25

# Hardware Requirements:

* Commodity server environment, 32 cores, 16 GB RAM, 200 GB storage