

# **Oracle® Big Data Appliance**

Licensing Information User Manual

Release 4 (4.8)

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Describes licensing and support for Oracle Big Data Appliance.

Oracle Big Data Appliance Licensing Information User Manual, Release 4 (4.8)

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# Preface

This document identifies the licences for the software installed on Oracle Big Data Appliance.

## Audience

This document is intended for all owners of Oracle Big Data Appliance.

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

### Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

## Related Documents

For more information, see the Big Data documentation library at

<http://www.oracle.com/technetwork/database/bigdata-appliance/documentation/index.html>



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# Oracle Big Data Appliance Software Licensing

Oracle Big Data Appliance is an engineered system optimized for acquiring, organizing, and analyzing big data. It combines optimized hardware components with new software solutions to deliver a complete big data solution.

This chapter describes the licensing and technical support of software installed on Oracle Big Data Appliance. It contains these topics:

- [Big Data Appliance Software Installation](#)
- [Software Licensing](#)

## 1.1 Big Data Appliance Software Installation

Oracle Big Data Appliance software is installed in two stages:

- [Factory-Installed Image](#)
- [On-Site Software Installation](#)

### 1.1.1 Factory-Installed Image

The Oracle Linux operating system and various configuration utilities are factory-installed on Oracle Big Data Appliance servers. Your license to use them is included with your purchase of the appliance.

### 1.1.2 On-Site Software Installation

An Oracle Customer Service Representative downloads all applications software for Oracle Big Data Appliance. Some of this software is included in the Oracle Big Data Appliance licensing agreement, while other software is licensed separately.

You must specify whether to install separately licensed and optional software components when completing the Oracle Big Data Appliance Configuration Generation Utility.

## 1.2 Software Licensing

The software downloaded to Oracle Big Data Appliance is protected by these licenses:

- [Included Software](#)
- [Oracle Big Data SQL Licensing](#)
- [Oracle Big Data Connectors](#)

- [Oracle Big Data Spatial and Graph](#)
- [Separately Licensed Software](#)
- [Oracle Big Data Appliance Restrictions on Use as a Condition of Receiving Support](#)

### 1.2.1 Included Software

This section summarizes the licensing and support of software included with your purchase of Oracle Big Data Appliance. The licenses are only for use of the software on Oracle Big Data Appliance. You cannot move or copy the software to another system.

#### Operating System

Software	License	Support
Oracle Linux	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems

#### Integrated Software

Software	License	Support
Cloudera's Distribution including Apache Hadoop	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera BDR	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera Impala	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera Manager	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera Navigator	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera RTD	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Cloudera Search	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Apache Spark	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems

Software	License	Support
Apache Kafka	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems

### Other Software

Software	License	Support
Java HotSpot Virtual Machine	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
MySQL Enterprise Edition	Restricted use <sup>1</sup> See <a href="https://downloads.mysql.com/docs/licenses/mysqld-5.7-com-en.pdf">https://downloads.mysql.com/docs/licenses/mysqld-5.7-com-en.pdf</a> for licenses for included third-party software.	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Oracle NoSQL Database Community Edition	GNU Affero General Public License Version 3 (AGPLv3)	None.
Oracle R Distribution	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Oracle Perfect Balance (Oracle software for Oracle Big Data Appliance)	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems
Oracle DataSource for Apache Hadoop, formerly known as Oracle Table Access for Hadoop (Oracle software for Oracle Big Data Appliance and Oracle Big Data Connectors)	Perpetual for life of hardware	Oracle Premier Support for Systems or Oracle Premier Support for Operating Systems

<sup>1</sup> See the *Oracle Software License Agreement ("SLA") and Entitlement for Hardware Systems with Integrated Software Options*

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**Note:** The Oracle Big Data Appliance Enterprise Manager Plug-In can be installed and used on Oracle Big Data Appliance without additional licensing.

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## 1.2.2 Oracle Big Data SQL Licensing

The licensing for Oracle Big Data SQL is separate from the licensing for other Oracle products.

When you purchase a license for Oracle Big Data SQL, note the following:

- A separate license must be procured per disk per Hadoop cluster.
- All nodes within the Hadoop cluster that runs Oracle Big Data SQL must be licensed.
- All disks within every node that is part of a cluster running Oracle Big Data SQL must be licensed. Partial licensing within a node is not available. All nodes in the cluster are included.
- Only the Hadoop cluster side (Oracle Big Data Appliance, or other) of an Oracle Big Data SQL installation is licensed and no additional license is required for the database server side.
- Oracle Copy to Hadoop licensing is included.
- Oracle Super Cluster is not included.

### **Third Party Licensing for Oracle Shell for Hadoop Loaders**

Oracle Shell for Hadoop Loaders is included in the Oracle Big Data SQL installation bundle. The following are third-party projects contained in Oracle Shell for Hadoop Loaders.

- ANTLR 4.5.2
- JLine 2.13
- Apache Commons Exec 1.3
- Apache Commons CLI 1.3.1

**Unless otherwise specifically noted, or as required under the terms of the third party license (e.g., LGPL), the licenses and statements herein, including all statements regarding Apache-licensed code, are intended as notices only.**

## **1.2.3 Oracle Big Data Connectors**

The licensing for Oracle Big Data Connectors is separate from Oracle Big Data Appliance. You can install Oracle Big Data Connectors on a Hadoop cluster configured on either Oracle Big Data Appliance or commodity hardware.

When you purchase a license for Oracle Big Data Connectors, that license includes all of the following components:

- Oracle Loader for Hadoop
- A restricted use license of Oracle Data Integrator Enterprise Edition
- Oracle R Advanced Analytics for Hadoop
- Oracle SQL Connector for Hadoop Distributed File System
- Oracle XQuery for Hadoop
- Oracle DataSource for Apache Hadoop (formerly named Oracle Table Access for Hadoop)

Oracle Big Data Connectors must be licensed for all processors of a Hadoop cluster. When Oracle Big Data Connectors is installed on a single Hadoop cluster, it must be licensed on all processors. When Oracle Big Data Connectors is installed on multiple

Hadoop clusters, it must be licensed on all processors of the clusters where the connectors are used.

For example, you might configure Oracle Big Data Appliance with three, six-node Hadoop clusters:

- Cluster 1 uses the Oracle SQL Connector for HDFS component of Oracle Big Data Connectors.
- Cluster 2 uses the Oracle XQuery for Hadoop component of Oracle Big Data Connectors.
- Cluster 3 does not use any component of Oracle Big Data Connectors.

For this configuration, you must license Oracle Big Data Connectors for the processors on 12 nodes (clusters 1 and 2).

The individual components are available only as part of the Oracle Big Data Connectors license. The components are not licensed individually.

**Restricted Use License:** Oracle Data Integrator Enterprise Edition as part of Oracle Big Data Connectors is restricted for use on Oracle Big Data Appliance with Cloudera CDH targets or Oracle NoSQL Database targets residing on Oracle Big Data Appliance. Any usage of Oracle Data Integrator outside of Oracle Big Data Appliance requires a full license for Oracle Data Integrator Enterprise Edition.

## 1.2.4 Oracle Big Data Spatial and Graph

The licensing for Oracle Big Data Spatial and Graph is separate from Oracle Big Data Appliance. When you purchase a license for Oracle Big Data Spatial and Graph that license includes the following components:

- Spatial support for vector and raster services on Hadoop
- Property graph support for data access to Apache HBase and Oracle NoSQL Database with indexing, search, and parallel in-memory analytics services.
- Multimedia support for processing and analyzing video and image data in Hadoop.

The spatial, multimedia, and property graph components are available only as part of Oracle Big Data Spatial and Graph. The components are not licensed individually.

You can install Oracle Big Data Spatial and Graph on a Hadoop cluster configured on either Oracle Big Data Appliance or commodity hardware. Additionally, the property graph component can be installed on an Oracle NoSQL Database Enterprise Edition cluster or on Community Edition with Oracle NoSQL Database Community Support configured on Oracle Big Data Appliance or other supported hardware. The property graph component can also be installed on a non-Hadoop client system in order to access supported Hadoop and Oracle NoSQL Database clusters (with or without Hadoop) as database servers.

Oracle Big Data Spatial and Graph must be licensed for all processors of the Hadoop cluster and/or the Oracle NoSQL Database cluster on which it is installed. All processors of a client system must be licensed for Oracle Big Data Spatial and Graph as well.

For example, you might configure Oracle Big Data Appliance with two, six-node Hadoop clusters and one Oracle NoSQL Database cluster:

- Cluster 1 (Hadoop) uses the spatial services of Oracle Big Data Spatial and Graph.
- Cluster 2 (Hadoop) uses the property graph services of Oracle Big Data Spatial and Graph.
- Cluster 3 (Oracle NoSQL Database) uses the property graph services of Oracle Big Data Spatial and Graph.
- A client system also uses the property graph services of Oracle Big Data Spatial and Graph and accesses property graphs stored on Cluster 2 and/or Cluster 3.

For this configuration, you must license Oracle Big Data Spatial and Graph for the processors on 18 nodes (all three clusters) and on all processors of the client system.

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**Restricted Use:** To read data from Oracle Database “Two Table Format” directly into the Oracle Big Data Spatial and Graph In-Memory Analyst (PGX) requires the following licenses:

1. Oracle Big Data Spatial and Graph license on an Oracle Big Data Appliance,  
or,
  2. Oracle Big Data Spatial and Graph license on another supported configuration and a license for the Oracle Spatial and Graph option on the Oracle Database Enterprise Edition system.
- 
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## 1.2.5 Separately Licensed Software

This software requires a separate license:

- Oracle NoSQL Database Enterprise Edition  
See [http://docs.oracle.com/cd/E26161\\_02/html/AdminGuide/thirdpartylicenses.html](http://docs.oracle.com/cd/E26161_02/html/AdminGuide/thirdpartylicenses.html) for licensing for included third-party software.

## 1.2.6 Oracle Big Data Appliance Restrictions on Use as a Condition of Receiving Support

This section describes the restrictions on use of and modification to Oracle Big Data Appliance hardware and software that are conditions of your receiving support for the Oracle Big Data Appliance. These restrictions help to maintain a supportable hardware/software platform. Violating these restrictions can result in the loss of warranty and support.

Be sure to read and understand the restrictions under each of these categories:

- Hardware modifications
- Firmware updates
- Oracle Linux modifications
- Third-party software
- Changes to CDH (Cloudera’s Distribution including Apache Hadoop).



Contact Oracle Support if you have questions about these restrictions or about modifications to Oracle Big Data Appliance not discussed in this document.

### Restrictions on Hardware Modifications and Replacements

Customers may not modify or replace Oracle Big Data Appliance hardware, with one exception. They may replace the Cisco Ethernet switch that controls the administrative network. The replacement must provide Gigabit Ethernet and at least 48 ports. These are the options:

- 1U in-rack replacement in the Cisco 4948 slot
- 2U in-rack replacement with a TOR (Top Of Rack) switch that supports both 10 GbE (or 40 GbE) and 1 GbE. In racks without a KVM, the TOR can be installed in the empty slots 41 and 42. The Sun Network 10 GbE Switch 72p is recommended. Note that this particular substitution is not possible in Sun Fire X4270 M2-based racks, which have no empty slots.
- Out-of-rack connections from each node to an external switch or panel. The external device must provide two ports for each server node, plus one for each InfiniBand switch and PDU in the Oracle Big Data Appliance rack.

Oracle does not make any provision for these modifications in the Oracle Big Data Appliance Starter, Full, Factory Upgrade, or Field Upgrade rack configurations. Customers must provide their own replacement hardware, perform the replacement, and support the non-standard switch at their own expense

The Cisco 4948 switch has no purpose other than control of the administrative network and can be turned off and removed if replaced.

### Restrictions on Firmware Updates

Oracle Big Data Appliance hardware consists of “managed” and “non-managed” components. Firmware levels of managed components are regulated through Mammoth patches and are under tighter control than non-managed components

#### Firmware Updates for Managed Components

In general, customers may not update the firmware of the following Oracle Big Data Appliance managed components:

- Each server’s ILOM/BIOS
- InfiniBand host channel adapters (HCA)
- Disk controller host bus adapters (HBA)
- Hard drives (HDD)

Customers may update firmware ordinarily managed by Mammoth only in cases where the original component failed and was replaced. Customers can use the **bdaupdatefw** utility to bring the firmware level up to (but not beyond) the level of the original Oracle-supplied component. No other method is permitted.

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#### See Also:

*Oracle Big Data Appliance Owner’s Guide* for information about the **bdaupdatefw** utility

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#### Firmware Updates for Non-Managed Components

Customers may update firmware not managed by Mammoth. This includes firmware for the following components:

- Cisco 4948 Ethernet switch (both IOS and firmware)
- InfiniBand switches
- Power Distribution Units (PDUs)
- KVM switch and keyboard, monitor, mouse as needed (Sun Fire X4270 M2-based rack only).

For PDUs and InfiniBand switches, check MOS (My Oracle Support) Document 1528190.1 for supported firmware versions.

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**Note:** Ensure that InfiniBand firmware stays current with the officially-supported release levels provided in the MOS document 1528190.1.

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### Restrictions on Oracle Linux Modifications

- Customers may upgrade or update the Oracle Linux kernel, but the upgrade is restricted to a newer version of the same Oracle Linux UEK (Unbreakable Enterprise Kernel) that was shipped with the product. For example, in the case of the UEK2 kernel, updates to newer versions of UEK2 are acceptable. Customers must follow the update procedures provided in the document, [How To Upgrade a Kernel on BDA V4.2 and Higher/V4.1 \(Doc ID 2033797.1\)](#) in My Oracle Support.
- Customers may add official Oracle Linux modules. Oracle Big Data Appliance does not support installation of Linux modules from sources that are not official Oracle Linux repositories. Customers install modules from these sources at their own risk. In addition, Oracle cannot answer questions about such software (before or after installation), and cannot provide assistance if issues arise from installing and using it. If Oracle suspects that the cause of a failure is software from an unofficial source, then Oracle Support will refer the customer to the vendor of the software, or, may ask the customer to remove the software and then reproduce the failure without it.
- Customers may apply Oracle Linux patches obtained from official Oracle Linux sources. Customers are responsible for the application of Oracle Linux security fixes as well as any other available security fixes from official Oracle repositories. Go to MOS (My Oracle Support) for instructions.
- Changing the partition layout on disks of a node of an Oracle Big Data Appliance cluster is not supported.

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### Restrictions on Third-Party Software

Customers are responsible for supporting all software on Oracle Big Data Appliance that is not installed by Mammoth. On top of the Mammoth installation, customers may install third-party software that is not supported by Oracle (such as applications, application utilities, and services) with the same caveats that apply to Oracle Linux

modifications – support for such software and the consequences of installing and using it are the responsibility of the customer. This includes customer add-ons to components that are installed by Mammoth. In addition, third-party software installed on Oracle Big Data Appliance must comply with the following restrictions:

- Supports 64-bit Oracle Linux on Oracle Big Data Appliance.
- Is directly related to use of Oracle-supported “big data” software installed on the appliance, such as Cloudera's Distribution including Apache Hadoop (CDH) or Oracle NoSQL Database. Software packages that support the health of the system, such as data center monitoring tools, are also acceptable.
- Does not overwrite, update, replace, or invalidate Oracle Big Data Appliance software. See the documentation on the `bdchecksw` utility in the Oracle Big Data Appliance Owner's Guide for instructions on how to confirm post-installation integrity.
- Does not consume system resources to a degree that adversely affects the performance of Oracle Linux, CDH, or Oracle NoSQL Database.

#### **Regarding Storage of Non-HDFS Data**

Customers are not restricted from use of `/uNN` data partitions within nodes of a CDH cluster for their own non-HDFS data. However, the following caveats apply:

- Use of these partitions will reduce space available for HDFS data.
- These partitions are not mirrored or redundant. Any data stored is subject to data loss if a disk fails. This storage should be limited to non-HDFS data that is replicated or can be regenerated.
- Oracle recommends that you do not use `/u01` and `/u02` on the first three nodes of a cluster for heavy I/O workloads. These disks are used by critical HDFS and Zookeeper roles.

#### **Regarding use of the Oracle Big Data Appliance MySQL Installation**

The MySQL instance on Oracle Big Data Appliance is specifically intended for internal use by the appliance only. No support is provided for using it for other purposes and use of MySQL outside of the intended purpose may interfere with future updates to the software.

#### **Restrictions on Changes to CDH**

The following actions may interfere with CDH functionality and are therefore restricted.

- Moving CDH services from their Mammoth-installed locations.  
Customers may not move CDH services from one server to another using Cloudera Manager or any other means. These services, such as NameNode and JobTracker, must remain on the servers where they were installed by the Mammoth utility. The one exception to this rule is a move to recover from a node failure. Customers may use Mammoth node migration to move CDH services in this case.
- Installing Oracle NoSQL Database on HDFS nodes  
Customers may not de-allocate disk drives from HDFS for reallocation to Oracle NoSQL Database or for any other reason. Oracle does not support an installation of CDH where the HDFS drive configuration on the Oracle Big Data Appliance

has been modified by the customer. For more details on installing Oracle NoSQL Database on HDFS nodes, contact Oracle Support.

**Other Restrictions**

- Customers may not connect USB devices to Oracle Big Data Appliance servers except for the purposes documented in the Oracle Big Data Appliance Owner's Guide.
- Network ports on Big Data Appliance servers may not connect to external non-Sun servers using the Fibre Channel over Ethernet (FCoE) protocol. However, NFS and iSCSI connections to external non-Sun servers are supported.
- Customers may not connect third-party switching devices to the InfiniBand network. Only switches supported in Oracle Engineered Systems may be connected to the InfiniBand network. If you are not sure that a switch meets this requirement, contact Oracle Support.

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## Third-Party Licenses

This chapter contains licensing information about third-party products installed on Oracle Big Data Appliance. It contains the following topics:

- [Offer to Provide Source Code](#)
- [Cloudera Products](#)
- [Java HotSpot Virtual Machine](#)
- [MySQL Database Enterprise Edition](#)
- [Oracle Integrated Lights Out Manager \(ILOM\)](#)
- [Oracle Linux](#)
- [Oracle NoSQL Database](#)
- [Puppet](#)
- [Oracle R Distribution](#)
- [ROracle](#)
- [Scala](#)
- [Sun Datacenter InfiniBand Switch 36](#)
- [Sun Network QDR InfiniBand Gateway](#)

### 2.1 Offer to Provide Source Code

For third-party technology that you receive from Oracle in binary form, which is licensed under an open source license that gives you the right to receive the source code for that binary, you may be able to obtain a copy of the applicable source code by visiting:

<http://oss.oracle.com/systems-opensourcecode>

The source code for some software components of Oracle Big Data Appliance is readily available at the locations identified in [Table 2-1](#).

**Table 2-1** Location of Source Code

Software	Source Code Location
Cloudera's Distribution including Apache Hadoop	All Oracle Big Data Appliance servers in directory /opt/oss/src/CDH/

**Table 2-1 (Cont.) Location of Source Code**

<b>Software</b>	<b>Source Code Location</b>
Cloudera Manager	All Oracle Big Data Appliance servers in directory /opt/oss/src/ClouderaMgr/
Java HotSpot Virtual Machine	All Oracle Big Data Appliance servers in zip file /usr/java/jdk1.7.0_25/src.zip
MySQL Community Edition	<a href="http://dev.mysql.com/downloads/mysql/">http://dev.mysql.com/downloads/mysql/</a> MySQL Enterprise Edition is installed on Oracle Big Data Appliance. It is proprietary software protected by intellectual property laws. This link is to the source code for MySQL Community Edition, which is open source.
Open Source R	All Oracle Big Data Appliance servers in directory /opt/oss/src/OracleR/
Oracle Hardware Installation Assistant	<a href="http://oss.oracle.com/systems-opensourcecode/">http://oss.oracle.com/systems-opensourcecode/</a> Under Servers and Storage Systems, expand <b>X86 Servers and Blades</b> , and then select <b>Sun Server X4-2</b> , <b>Sun Server X3-2</b> , or <b>Sun Fire X4270 M2 Server</b> .
Oracle Integrated Lights Out Manager	<a href="http://oss.oracle.com/systems-opensourcecode/">http://oss.oracle.com/systems-opensourcecode/</a> Under Servers and Storage Systems, expand <b>x86 Servers and Blades</b> , and then select <b>Sun Server X4-2</b> , <b>Sun Server X3-2</b> , or <b>Sun Fire X4270 M2 Server</b> .
Oracle Linux	<a href="http://oss.oracle.com/ol6/">http://oss.oracle.com/ol6/</a>
Puppet	All Oracle Big Data Appliance servers in directory /opt/oss/src/puppet/
Sun Datacenter InfiniBand Switch 36	<a href="http://oss.oracle.com/systems-opensourcecode/">http://oss.oracle.com/systems-opensourcecode/</a> Expand Networking, and then select Sun Datacenter InfiniBand Switch 36.
Sun Network QDR InfiniBand Gateway	<a href="http://oss.oracle.com/systems-opensourcecode/">http://oss.oracle.com/systems-opensourcecode/</a> Expand Networking, and then select Sun Datacenter InfiniBand GW Switch.

If the source code for the technology was not provided with the binary or otherwise made available to you, you can also receive a copy of the source code on physical media by submitting a written request to:

**Oracle America, Inc.**

**Attn: Associate General Counsel**

**Development and Engineering Legal**

**500 Oracle Parkway, 10th Floor**

**Redwood Shores, CA 94065**

Or, you can send an email to Oracle using the following link:

[BDA-info@oracle.com](mailto:BDA-info@oracle.com)

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- The date you received the Oracle product
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We may charge you a fee to cover the cost of physical media and processing. Your request must be sent

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- JRobin 1.5.9 LGPL

You should have received the source code for the above programs. If not, you may obtain a copy as set forth in the "[Offer to Provide Source Code](#)".

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**See Also:**

[Cloudera Third-Party Licenses](#)

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Version 2.0, January 2004

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29 June 2007

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## 2.96 Automaton 1.11-1

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## 2.114 c3p0 0.9.1, 0.9.1.1

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## 2.117 cglib 2.1.3, 2.2, 2.2.2

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## 2.119 chill, chill java 0.3.1

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## 2.122 classworlds 1.1-alpha-2

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## 2.138 Colorbrewer 0.9.5

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## 2.139 ColVis 1.0.8

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## 2.142 config 1.0.2

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## 2.150 Data Mapper for Jackson 1.8.11, 1.8.8

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## 2.171 eaio:UUID 3.2.0

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## 2.174 Ehcache Core 2.4.3, 2.6.3

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## 2.175 elementtree 1.2.6, 1.2.7

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## 2.176 Enum 0.4.4

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## 2.179 fastutil 6.4.4

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## 2.194 gmetric4j 1.0.3

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## 2.224 HyperSQL 1.8.0.7, 1.8.0.10, 2.2.9, 2.3.1

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## **2.232 Jackson JSON library 1.0.1, 1.8.3, 1.8.8, 1.8.11, 1.9.12, 1.9.13, 1.9.2, 1.9.3, 2.0.4, 2.1.0, 2.2.2, 2.3.0, 2.3.1**

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## 2.247 Java API for RESTful Web Services 1.7.1, 1.8.11, 1.8.3, 1.8.8, 2.0-m10

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## 2.251 Java Servlet API 2.2.0, 2.5, 2.5, 3.0, 3.0.1

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## 2.265 jbcrypt 0.3m

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## 2.266 jblas 1.2.3

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## 2.267 JBoss Hibernate 4.2.2

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## 2.268 JBoss Logging Framework 3.1.0.GA, 3.1.1.GA

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## 2.272 JDO API 3.0.1

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## 2.273 JDOM 1.0, 1.1

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## 2.274 Jersey JSON library 1.4, 1.8, 1.9, 1.11

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## 2.275 JetS3t 0.6.1, 0.7.1, 0.9.0, 2.0.0

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## 2.276 Jettison 1.1, 1.3.1, 1.3.2

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## 2.277 Jetty Servlet API 1.2.0.v201112081803, 2.2.0.v201108011116, 2.5, 2.5-6.1.14, 6.1.14, 6.1.26, 7.6.0, 7.6.8.v20121106, 8.1.10.v20130312, 8.1.14, 8.1.17

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## 2.278 JLine Console Input Library jline 0.9.94, 2.10, 2.2

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## 2.280 Joda Time 1.6.2, 2.1, 2.2

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## 2.281 Jopt Simple 3.2, 4.3

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## 2.282 JPicker 1.1.6

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## 2.283 jQuery 1.2.3, 1.2.6, 1.4.2, 1.7.1, 1.7.2, 1.10.2, 1.8.2, 1.9.1, 2.0.2, 2.0.3

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## 2.287 jQuery DataTables Plugin 1.8.2, 1.9.4

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## 2.289 jQuery Flot

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## 2.290 jQuery Form Plugin 2.47

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## 2.291 jQuery Hashchange Plugin 1.3

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## 2.292 JQuery Interface Elements

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## 2.298 JQuery UI 1.8, 1.8.18, 1.8.23, 1.9.1

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## 2.302 jQuery UI Timepicker 1.1.1, 1.3

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## 2.304 JRuby Complete 1.6.5, 1.6.8

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## 2.305 JS-URL 1.7.5

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## 2.306 JSch 0.1.42, 0.1.48

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### 2.316 JUnit 4.10, 4.11, 4.8.1, 4.8.2

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## 2.318 Jython 2.5.2, 2.5.3

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## 2.320 Knockout Bootstrap 0.2.1

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## 2.337 LXML 2.2.2

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## 2.348 Metrics Core 2.1.2, 3.1.3, 2.2.0, 3.0.0, 3.0.1

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## 2.352 Mockito 1.8.5, 1.9.0

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## 2.355 moment.js 1.5.0, 1.7.0, 2.3.1

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## 2.356 MongoDB Java Driver 2.11.1

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## 2.360 MurmerHash3 Algorithm

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## 2.361 mustach.java view for spring3 0.9.3

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## 2.363 Mustache.js port for Java 0.8.10, 0.8.12

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## 2.369 Newtonsoft JSON .NET

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## 2.411 Prototype JavaScript Framework 1.4.0\_pre4

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## 2.413 Protocol Buffer Java API 2.4.0a, 2.4.1, 2.5.0

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## 2.433 PyYAML 3.09

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## 2.438 Reflect ASM 1.07

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## 2.439 Remote Tea Runtime 1.0.7

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## 2.440 Requests 2.0.0

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## 2.441 Requests Kerberos Authentication 0.3

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## 2.442 RequireJS 1.0.6, 2.0.1, 2.0.4, 2.0.5, 2.1.8

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## **2.443 RequireJS JSON Plugin 0.3.1**

Author: Miller Medeiros Version: 0.3.2 (2013/08/17)

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## 2.446 Sammy 0.7.1

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## 2.447 Saxon-HE 9.5.1-1, 9.5.1-4

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## 2.448 Scala Compiler and Library 2.10.3, 2.9.2

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## 2.449 ScalaTest 1.7.2

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## 2.452 Selenium 2.23.0, 2.25.0, 2.8.0

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17th December 1998

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## 2.455 Servlet Specification 2.5 API 6.1.14, 6.1.9

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*Simple JavaScript Inheritance* by John Resig <http://ejohn.org/>

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## 2.459 simpleJSON 2.1.2

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## 2.463 SLF4J 1.6.1, 1.6.4, 1.6.6, 1.7.2, 1.7.5

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## 2.464 SnakeYAML 1.1.0, 1.6, 1.8

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## 2.465 Snappy for Java 1.0.4.1, 1.0.5

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## 2.466 SnapTree 0.2.2

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## 2.473 Spring Framework 1.3.1, 3.2.1.RELEASE, 3.2.5, 3.0.6.RELEASE

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## 2.476 SQLparse 0.1.7

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## 2.478 sshj 0.8.0, 0.8.1

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## 2.479 StAX 1.0 API 1.0-2, 1.0.1

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## 2.480 StAX2 API Woodstox Implementation 3.1.1, 3.2.7, 4.2.0

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## 2.484 StumbleUpon Async HBase 1.3.1, 1.4.1

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## 2.488 tempus-fugit 1.1

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## 2.491 Threadpool 1.2.7

Title: Easy to use object-oriented thread pool framework

Author: Christopher Arndt

Version: 1.2.7

Date: 2009-10-07

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## 2.498 Underscore.js 1.4.4, 1.5.2

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## 2.511 Woodstox 3.2.7, 4.1.4, 4.2.0

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## 2.513 X-editable 1.4.3

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## 2.515 XML Compatibility Extensions for Jackson 1.7.1, 1.8.11, 1.8.3, 1.8.8

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## 2.516 XML Pull Parser 3 (xpp3) 1.1.4c

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## 2.522 zLib 1.2.3, 1.2.4

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- Martin Maechler
- Duncan Murdoch
- Paul Murrell
- Martyn Plummer
- Brian Ripley
- Deepayan Sarkar
- Duncan Temple Lang
- Luke Tierney
- Simon Urbanek

plus Heiner Schwarte up to October 1999 and Guido Masarotto up to June 2003.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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- a. Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

- c. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d. If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e. Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 2.544 Scala

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## Cloudera Third-Party Licenses

This chapter lists the third-party licenses for the Cloudera software installed on Oracle Big Data Appliance.

This chapter contains the following sections:

- [Cloudera's Distribution including Apache Hadoop](#)
- [Cloudera Manager](#)

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**See Also:**

Cloudera Third-Party Licenses at

<http://www.cloudera.com/content/cloudera-content/cloudera-docs/Licenses/Third-Party-Licenses/Third-Party-Licenses.html>

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### 3.1 Cloudera's Distribution including Apache Hadoop

[Table 3-1](#) lists the third-party licenses for CDH5 and associated Cloudera products.

**Table 3-1 CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Annotation 1.0	1	Apache 2.0	<a href="http://geronimo.apache.org/">http://geronimo.apache.org/</a>
Ant Contrib 1.0b3	1.0b3	Apache 1.1, See notes about Apache 2.0	<a href="http://ant-contrib.sourceforge.net/">http://ant-contrib.sourceforge.net/</a>
ANTLR	2.7.7	ANTLR 2 Public Domain License	<a href="http://www.antlr2.org/">http://www.antlr2.org/</a>
ANTLR	3.4	BSD-3	<a href="http://www.antlr.org/">http://www.antlr.org/</a>
ANTLR ST4 4.0.4		BSD	<a href="http://www.stringtemplate.org">http://www.stringtemplate.org</a>
AOP Alliance	1	Public Domain	<a href="http://aopalliance.sourceforge.net/">http://aopalliance.sourceforge.net/</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Apache Ant 1.8.1	1.8.1	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/org/apache/ant/">http://mirrors.ibiblio.org/maven2/org/apache/ant/</a> <a href="http://ant.apache.org/">http://ant.apache.org/</a>
Apache Ant Core	1.9.1	Apache 2.0	<a href="http://ant.apache.org/">http://ant.apache.org/</a>
Apache Ant tasks for Python 1.3	1.3	Apache 2.0	<a href="https://code.google.com/p/pyanttasks/">https://code.google.com/p/pyanttasks/</a>
Apache Avro		Apache 2.0	<a href="http://avro.apache.org">http://avro.apache.org</a>
Apache Bigtop		Apache 2.0	<a href="https://github.com/apache/bigtop">https://github.com/apache/bigtop</a>
Apache Calcite 1.0.0	1.0.0	Apache 2.0	<a href="https://github.com/apache/incubator-calcite/tree/master/linq4j/src/main/java/org/apache/calcite/linq4j">https://github.com/apache/incubator-calcite/tree/master/linq4j/src/main/java/org/apache/calcite/linq4j</a>
Apache Commons BeanUtils	1.8.0	Apache 2.0	<a href="http://commons.apache.org/proper/commons-beanutils/">http://commons.apache.org/proper/commons-beanutils/</a>
Apache Commons CLI 1.2	1.2	Apache 2.0	<a href="http://commons.apache.org/proper/commons-cli/">http://commons.apache.org/proper/commons-cli/</a>
Apache Commons Codec 1.4	1.4	Apache 2.0	<a href="http://commons.apache.org/proper/commons-digester/">http://commons.apache.org/proper/commons-digester/</a>
Apache Commons Collections 3.2.1	3.2.1	Apache 2.0	<a href="http://commons.apache.org/proper/commons-collections/">http://commons.apache.org/proper/commons-collections/</a>
Apache Commons Compiler 2.7.6	2.7.6	BSD	<a href="https://github.com/codehaus/janino">https://github.com/codehaus/janino</a>
Apache Commons Compress 1.4.1	1.4.1	Apache 2.0	<a href="http://commons.apache.org/proper/commons-compress/">http://commons.apache.org/proper/commons-compress/</a>
Apache Commons Configuration 1.6	1.6	Apache 2.0	<a href="http://commons.apache.org/proper/commons-configuration/">http://commons.apache.org/proper/commons-configuration/</a>
Apache Commons Daemon 1.0.13	1.0.13	Apache 2.0	<a href="http://commons.apache.org/proper/commons-daemon/">http://commons.apache.org/proper/commons-daemon/</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Apache Commons DBCP 1.4	1.4	Apache 2.0	<a href="http://commons.apache.org/proper/commons-dbcp/">http://commons.apache.org/proper/commons-dbcp/</a>
Apache Commons Digester 1.8	1.8	Apache 2.0	<a href="http://commons.apache.org/proper/commons-digester/">http://commons.apache.org/proper/commons-digester/</a>
Apache Commons EL 1.0	1	Apache 1.1	<a href="http://commons.apache.org/proper/commons-el/">http://commons.apache.org/proper/commons-el/</a>
Apache Commons Exec	1.1	Apache 2.0	<a href="http://commons.apache.org/exec/">http://commons.apache.org/exec/</a>
Apache Commons HttpClient 3.1	3.1	Apache 2.0	<a href="http://hc.apache.org/httpclient-3.x/">http://hc.apache.org/httpclient-3.x/</a>
Apache Commons IO 2.4	2.4	Apache 2.0	<a href="http://commons.apache.org/proper/commons-io/">http://commons.apache.org/proper/commons-io/</a>
Apache Commons Lang 2.6	2.6	Apache 2.0	<a href="http://commons.apache.org/proper/commons-lang/">http://commons.apache.org/proper/commons-lang/</a>
Apache Commons Logging 1.1.3	1.1.3	Apache 2.0	<a href="http://commons.apache.org/logging/">http://commons.apache.org/logging/</a> , <a href="http://commons.apache.org/logging/">http://commons.apache.org/logging/</a> , <a href="http://commons.apache.org/proper/commons-logging/">http://commons.apache.org/proper/commons-logging/</a>
Apache Commons Math3 3.1.1	3.1.1	Apache 2.0	<a href="http://commons.apache.org/math/">http://commons.apache.org/math/</a>
Apache Commons Net 3.1	3.1	Apache 2.0	<a href="http://commons.apache.org/net/">http://commons.apache.org/net/</a>
Apache Commons Pool 1.5.4	1.5.4	Apache 2.0	<a href="http://jakarta.apache.org/commons/pool/">http://jakarta.apache.org/commons/pool/</a>
Apache Commons VFS2	2	Apache 2.0	<a href="http://commons.apache.org/proper/commons-vfs/">http://commons.apache.org/proper/commons-vfs/</a>
Apache Crunch		Apache 2.0	<a href="https://github.com/apache/crunch">https://github.com/apache/crunch</a>
Apache Curator 2.7.1	2.7.1	Apache 2.0	<a href="http://curator.apache.org/curator-client/">http://curator.apache.org/curator-client/</a>
Apache Directory API All	1.0.0-M20	Apache 2.0	<a href="https://directory.apache.org/api/">https://directory.apache.org/api/</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Apache Flume		Apache 2.0	<a href="https://flume.apache.org/">https://flume.apache.org/</a>
Apache FTPLet 1.0.0	1.0.0	Apache 2.0	<a href="https://mina.apache.org/ftpserver-project/ftplet.html">https://mina.apache.org/ftpserver-project/ftplet.html</a>
Apache Geronimo Java EE Specification APIs	1.1.1	Apache 2.0	<a href="http://geronimo.apache.org/">http://geronimo.apache.org/</a>
Apache Hadoop		Apache 2.0	<a href="https://hadoop.apache.org/">https://hadoop.apache.org/</a>
Apache HBase		Apache 2.0	<a href="http://hbase.apache.org">http://hbase.apache.org</a>
Apache Hive		Apache 2.0	<a href="http://hive.apache.org">http://hive.apache.org</a>
Apache HttpCore 4.2.5	4.2.5	Apache 2.0	<a href="http://hc.apache.org/httpcomponents-core-ga">http://hc.apache.org/httpcomponents-core-ga</a>
Apache Jakarta ORO 2.0.8	2.0.8	Apache 1.1	<a href="http://jakarta.apache.org/oro/">http://jakarta.apache.org/oro/</a>
Apache Log4j	1.2.9	Apache 1.1	<a href="http://www.logging.apache.org/log4j/">http://www.logging.apache.org/log4j/</a>
Apache Log4j	1.2.16,1.2.17	Apache 2.0	<a href="http://www.logging.apache.org/log4j/">http://www.logging.apache.org/log4j/</a>
Apache Lucene/Solr		Apache 2.0	<a href="http://lucene.apache.org/solr/">http://lucene.apache.org/solr/</a>
Apache Mahout		Apache 2.0	<a href="http://mahout.apache.org">http://mahout.apache.org</a>
Apache Mina Core 2.0.0	2.0.0	Apache 2.0	<a href="https://mina.apache.org/">https://mina.apache.org/</a>
Apache MINA Core 2.0.0 M5	2.0.0	Apache 2.0	<a href="https://mina.apache.org/">https://mina.apache.org/</a>
Apache Oozie		Apache 2.0	<a href="https://github.com/apache/oozie">https://github.com/apache/oozie</a>
Apache Parquet MR		Apache 2.0	<a href="https://github.com/apache/parquet-mr">https://github.com/apache/parquet-mr</a>
Apache Pig		Apache 2.0	<a href="https://pig.apache.org/">https://pig.apache.org/</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Apache Sentry		Apache 2.0	<a href="https://sentry.incubator.apache.org/">https://sentry.incubator.apache.org/</a>
Apache Sentry		Apache 2.0	<a href="https://sentry.incubator.apache.org/">https://sentry.incubator.apache.org/</a>
Apache Shiro :: Core 1.2.1	1.2.1	Apache 2.0	<a href="https://shiro.apache.org">https://shiro.apache.org</a>
Apache Spark		Apache 2.0	<a href="https://spark.apache.org/">https://spark.apache.org/</a>
Apache Sqoop		Apache 2.0	<a href="http://sqoop.apache.org/">http://sqoop.apache.org/</a>
Apache Thrift		Apache 2.0	<a href="http://thrift.apache.org">http://thrift.apache.org</a>
Apache Thrift 0.9.0	0.9.0	Apache 2.0	<a href="http://thrift.apache.org">http://thrift.apache.org</a>
Apache Tomcat		Apache 2.0	<a href="https://tomcat.apache.org/index.html">https://tomcat.apache.org/index.html</a>
Apache Velocity	1.5.1.7	Apache 2.0	<a href="http://velocity.apache.org">http://velocity.apache.org</a>
Apache Whirr		Apache 2.0	<a href="http://whirr.apache.org">http://whirr.apache.org</a>
Apache Zookeeper		Apache 2.0	<a href="https://zookeeper.apache.org/">https://zookeeper.apache.org/</a>
ApacheDS 2.0.0 M15	2.0.0	Apache 2.0	<a href="https://directory.apache.org/apacheds/">https://directory.apache.org/apacheds/</a>
ASM 3.0	3	BSD-3	<a href="http://asm.ow2.org/">http://asm.ow2.org/</a>
atinject 1	1	Apache 2.0	<a href="http://code.google.com/p/atinject/">http://code.google.com/p/atinject/</a>
BoneCP :: Core Library	0.8.0, 0.7.0	Apache 2.0	<a href="http://jolbox.com/">http://jolbox.com/</a>
Bootplus		GPL v2.0 or Apache 2.0	<a href="http://aozora.github.io/bootplus/">http://aozora.github.io/bootplus/</a>
bootstrap-slider		MIT	<a href="https://github.com/seiyria/bootstrap-slider">https://github.com/seiyria/bootstrap-slider</a>
Bouncy Castle	15-140	Bouncy Castle License	<a href="http://www.bouncycastle.org/">http://www.bouncycastle.org/</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
CA Bundle	2.6.0	MPL v2.0	
Cloudera CDH Package		Apache 2.0	<a href="https://github.com/cloudera/cdh-package">https://github.com/cloudera/cdh-package</a>
Cloudera Hue		Apache 2.0	<a href="http://gethue.com/">http://gethue.com/</a>
Cloudera Impala		Apache 2.0	<a href="http://www.cloudera.com/content/cloudera/en/products-and-services/cdh/impala.html">http://www.cloudera.com/content/cloudera/en/products-and-services/cdh/impala.html</a>
Cloudera llama		Apache 2.0	<a href="http://cloudera.github.io/llama/">http://cloudera.github.io/llama/</a>
Cloudera modified Boost Multiprecision Library		Boost Software License 1.0	<a href="http://www.boost.org">http://www.boost.org</a>
Cloudera Search		Apache 2.0	<a href="https://github.com/cloudera/search">https://github.com/cloudera/search</a>
Code adapted from Stackoverflow		CC BY-SA-3.0, See notes about similar code	<a href="http://stackoverflow.com/questions/10982717/get-html-without-header-with-boostasio">http://stackoverflow.com/questions/10982717/get-html-without-header-with-boostasio</a>
Code based on lzop (GPL v2.0+)		GPL v2.0+	<a href="http://www.lzop.org/">http://www.lzop.org/</a>
Code from StackOverflow Article		CC BY SA 3.0	<a href="http://stackoverflow.com/questions/59895/can-a-bash-script-tell-what-directory-its-stored-in%5C">http://stackoverflow.com/questions/59895/can-a-bash-script-tell-what-directory-its-stored-in%5C</a>
CodeMirror		MIT	<a href="https://codemirror.net/">https://codemirror.net/</a>
ColVis 1.0.8	1.0.8	GPL v2.0 or BSD-3	<a href="https://github.com/DataTables/ColVis">https://github.com/DataTables/ColVis</a>
ctypes 1.0.2	1.0.2	MIT	<a href="https://pypi.python.org/pypi/ctypes?">https://pypi.python.org/pypi/ctypes?</a>
Data Mapper for Jackson 1.8.8	1.8.8	Apache 2.0	<a href="http://jackson.codehaus.org">http://jackson.codehaus.org</a>
DataFu		Apache 2.0	<a href="https://github.com/cloudera/datafu">https://github.com/cloudera/datafu</a>
DataNucleus Core 3.2.2	3.2.2	Apache 2.0	<a href="http://www.datanucleus.org">http://www.datanucleus.org</a>



**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Django Authentication Using LDAP 1.2.0	1.2.0	BSD-2	<a href="https://pythonhosted.org/django-auth-ldap/">https://pythonhosted.org/django-auth-ldap/</a>
DropzoneJS		MIT	<a href="http://www.dropzonejs.com/">http://www.dropzonejs.com/</a>
Eclipse Plugin	2.5.0.v201103041518	Apache 2.0	<a href="http://www.eclipse.org/">http://www.eclipse.org/</a>
Eclipse Plugin - Jetty	6.1.26.clouder.a.4	EPL v1.0 or Apache2.0, See Notes	<a href="http://www.eclipse.org/jetty/">http://www.eclipse.org/jetty/</a>
Ehcache Core 2.4.4	2.4.4	Apache 2.0	<a href="http://ehcache.org">http://ehcache.org</a>
ElementTree 1.2.6	1.2.6	MIT-style	<a href="http://effbot.org/downloads/#elementtree">http://effbot.org/downloads/#elementtree</a>
File heapq.py from Python		Python License	<a href="http://svn.python.org/projects/python/tags/r27a4/Lib/heapq.py">http://svn.python.org/projects/python/tags/r27a4/Lib/heapq.py</a>
File Valgrind.h from Valgrind		BSD-Style, See Notes about GPL	<a href="http://valgrind.org/">http://valgrind.org/</a>
Files from Cloudera		Apache 2.0	
Files Generated by Doxygen		Tool is GPL, Output Likely None	<a href="http://www.stack.nl/~dimitri/doxygen/">http://www.stack.nl/~dimitri/doxygen/</a>
Files with Copyright Cloudera		Most files are Apache 2.0, See License	
Findbugs Annotations under Apache License	1.3.9-1	Apache 2.0	<a href="http://stephenc.github.com/findbugs-annotations">http://stephenc.github.com/findbugs-annotations</a>
Glassfish Jasper	2.1-6.1, 14	CDDL 1.0	<a href="http://mirrors.ibiblio.org/maven2/org/mortbay/jetty/jsp-2.1">http://mirrors.ibiblio.org/maven2/org/mortbay/jetty/jsp-2.1</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Glassfish Jasper API	2.1-6.1 , 14	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/org/mortbay/jetty/jsp-api-2.1">http://mirrors.ibiblio.org/maven2/org/mortbay/jetty/jsp-api-2.1</a>
Google Guice - Core Library 3.0	3	Apache 2.0	<a href="https://github.com/google/guice">https://github.com/google/guice</a>
Groovy 2.1.6	2.1.6	Apache 2.0	<a href="http://groovy.codehaus.org/">http://groovy.codehaus.org/</a>
Gson 2.2.4	2.2.4	Apache 2.0	<a href="https://github.com/google/gson">https://github.com/google/gson</a>
Guava Libraries	11.0.2 , 12.0.1 , 14.0.1	Apache 2.0	<a href="http://code.google.com/p/guava-libraries/">http://code.google.com/p/guava-libraries/</a>
guppy 0.1.10	0.1.10	MIT	<a href="https://pypi.python.org/pypi/guppy/0.1.10">https://pypi.python.org/pypi/guppy/0.1.10</a>
Hadoop Examples		Apache 2.0	<a href="https://hadoop.apache.org/docs/r1.2.1/api/overview-summary.html">https://hadoop.apache.org/docs/r1.2.1/api/overview-summary.html</a>
Hadoop-Gpl-Compression (GPL v3.0+)		GPL v3.0+	<a href="https://code.google.com/a/apache-extras.org/p/hadoop-gpl-compression/">https://code.google.com/a/apache-extras.org/p/hadoop-gpl-compression/</a>
Hamcrest	1.3,1.1	BSD-3	<a href="http://code.google.com/p/hamcrest/">http://code.google.com/p/hamcrest/</a>
hbase-indexer		Apache 2.0	<a href="https://github.com/NGDATA/hbase-indexer">https://github.com/NGDATA/hbase-indexer</a>
HSQldb	1.8.0.10 , 2.0.0	BSD-3	<a href="http://hsqldb.org/">http://hsqldb.org/</a>
Htrace Core 3.0.4	3.0.4	Apache 2.0	<a href="https://github.com/cloudera/htrace">https://github.com/cloudera/htrace</a>
HttpClient 4.2.5	4.2.5	Apache 2.0	<a href="http://hc.apache.org/httpcomponents-client">http://hc.apache.org/httpcomponents-client</a>
HttpLib2	2.0.8	MIT	<a href="https://code.google.com/p/httpLib2/">https://code.google.com/p/httpLib2/</a>
Interface	2.1.2	GPL or MIT	<a href="http://interface.eyecon.ro/">http://interface.eyecon.ro/</a>
Ivy 2.0.0-rc2	2.0.0	Apache 2.0	<a href="http://ant.apache.org/ivy/">http://ant.apache.org/ivy/</a> , <a href="http://mirrors.ibiblio.org/maven2/org/apache/ivy/ivy">http://mirrors.ibiblio.org/maven2/org/apache/ivy/ivy</a>
Jackson 1.8.8	1.8.8	Apache 2.0	<a href="http://jackson.codehaus.org">http://jackson.codehaus.org</a>
Jackson Annotations	2.2.2	Apache 2.0	<a href="http://wiki.fasterxml.com/JacksonHome">http://wiki.fasterxml.com/JacksonHome</a>
Jackson Databind	2.2.2	Apache 2.0	<a href="http://wiki.fasterxml.com/JacksonHome">http://wiki.fasterxml.com/JacksonHome</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Jackson JAX-RS JSON Provider	1.9.2	Apache 2.0	<a href="https://github.com/FasterXML/jackson-jaxrs-providers">https://github.com/FasterXML/jackson-jaxrs-providers</a>
Jackson JSON Processor	1.9.2	Apache 2.0	<a href="http://jackson.codehaus.org/">http://jackson.codehaus.org/</a>
Janino 2.7.6	2.7.6	BSD	<a href="http://janino.net">http://janino.net</a>
JAR Files from Apache Commons	3.1.1, 1.1.3, 3.1	Apache 1.1 or Apache 2.0	
Jar Jar Links 1.1	1.1	Apache 2.0	<a href="http://jarjar.googlecode.com/">http://jarjar.googlecode.com/</a>
jasper-compiler 5.5.23	5.5.23	Apache 2.0	<a href="https://tomcat.apache.org/tomcat-5.5-doc/changelog.html">https://tomcat.apache.org/tomcat-5.5-doc/changelog.html</a>
jasper-runtime 5.5.23	5.5.23	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/tomcat/jasper-runtime">http://mirrors.ibiblio.org/maven2/tomcat/jasper-runtime</a>
Java Diff		LGPL v2.1	<a href="http://javadiff.sourceforge.net/">http://javadiff.sourceforge.net/</a>
Java Multiline String		Public Domain, See License	<a href="http://www.adrianwalker.org/2011/12/java-multiline-string.html">http://www.adrianwalker.org/2011/12/java-multiline-string.html</a>
Java Servlet API	2.5	CDDL 1.0, See Notes	<a href="http://www.oracle.com/technetwork/java/index-jsp-135475.html">http://www.oracle.com/technetwork/java/index-jsp-135475.html</a>
Java Transaction API	1.1	CDDL 1.0	<a href="http://www.oracle.com/technetwork/java/javaee/tech/jta-138684.html">http://www.oracle.com/technetwork/java/javaee/tech/jta-138684.html</a>
java-xmlbuilder 0.4	0.4	Apache 2.0	<a href="http://code.google.com/p/java-xmlbuilder/">http://code.google.com/p/java-xmlbuilder/</a>
JavaBeans Activation Framework 1.1	1.1	CDDL 1.0	<a href="http://www.oracle.com/technetwork/java/javase/downloads/index-135046.html">http://www.oracle.com/technetwork/java/javase/downloads/index-135046.html</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
JavaMail API	1.4.1	GPL v2.0 with Classpath Exception or CDDL v1.0	<a href="https://glassfish.dev.java.net/javaee5/mail/">https://glassfish.dev.java.net/javaee5/mail/</a>
JavaServer Pages Specification 2.1	2.1		<a href="http://mirrors.ibiblio.org/maven2/javax/servlet/jsp/jsp-api">http://mirrors.ibiblio.org/maven2/javax/servlet/jsp/jsp-api</a> , <a href="https://java.net/projects/jsp">https://java.net/projects/jsp</a>
JAX-RS provider	1.8.8	Apache 2.0	<a href="http://jackson.codehaus.org">http://jackson.codehaus.org</a>
JAXB API	2.1, 2.2.2	GPL v2.0 w/ Classpath or CDDL v1.0, Possibly Commercial	<a href="https://jaxb.java.net/">https://jaxb.java.net/</a>
JAXB IMPL 2.2.3-1	2.1, 2.2.2	GPL v2.0 w/ Classpath Exception or CDDL v1.1	<a href="https://jaxb.dev.java.net/">https://jaxb.dev.java.net/</a>
JCodings 1.0.8	1.0.8	MIT	<a href="http://mirrors.ibiblio.org/maven2/org/jruby/jcodings/jcodings">http://mirrors.ibiblio.org/maven2/org/jruby/jcodings/jcodings</a>
JDO API 3.0.1	3.0.1	Apache 2.0	<a href="http://db.apache.org/jdo">http://db.apache.org/jdo</a>
Jersey	1.9	GPL v2.0 w/ Classpath Exception or CDDL v1.1	<a href="http://mirrors.ibiblio.org/maven2/com/sun/jersey/jersey-core">http://mirrors.ibiblio.org/maven2/com/sun/jersey/jersey-core</a>
Jets3t	0.9.0, 0.6.1	Apache 2.0	<a href="http://www.jets3t.org/">http://www.jets3t.org/</a>
Jettison 1.1	1.1	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/org/codehaus/jettison/jettison">http://mirrors.ibiblio.org/maven2/org/codehaus/jettison/jettison</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Jettison 1.3.3	1.3.3	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/org/codehaus/jettison/jettison">http://mirrors.ibiblio.org/maven2/org/codehaus/jettison/jettison</a> , <a href="https://svn.codehaus.org/jettison/tags/">https://svn.codehaus.org/jettison/tags/</a>
JHighlight	1	LGPL v2.1+ or CDDL 1.0	<a href="https://github.com/codelibs/jhighlight">https://github.com/codelibs/jhighlight</a>
JLine 2.11.0	2.11.0	BSD	<a href="http://jline.sourceforge.net">http://jline.sourceforge.net</a> , <a href="http://mirrors.ibiblio.org/maven2/jline/jline">http://mirrors.ibiblio.org/maven2/jline/jline</a>
jQuery	1.4.2	GPL 2 or MIT, See Notes	<a href="http://jquery.com/">http://jquery.com/</a>
jQuery	1.10.2	MIT, See Notes	<a href="http://jquery.com/">http://jquery.com/</a>
jQuery 1.7.1	1.7.1	GPL or MIT	<a href="http://jquery.com/">http://jquery.com/</a>
jQuery Autocomplete		GPL or MIT or Apache 2.0	<a href="https://github.com/dyve/jquery-autocomplete">https://github.com/dyve/jquery-autocomplete</a>
jQuery Autocomplete		GPL or MIT	<a href="https://github.com/dyve/jquery-autocomplete">https://github.com/dyve/jquery-autocomplete</a>
jQuery BGIFrame	1.5.0	GPL or MIT	<a href="https://github.com/brandonaaron/bgiframe">https://github.com/brandonaaron/bgiframe</a>
jQuery BlockUI 2.39	2.39	GPL or MIT	<a href="http://malsup.com/jquery/block/">http://malsup.com/jquery/block/</a>
jQuery Cookie Plugin		GPL v2.0 or MIT	<a href="https://github.com/carhartl/jquery-cookie">https://github.com/carhartl/jquery-cookie</a>
jQuery DataTables	1.8.2	GPL v2.0 or BSD	<a href="https://datatables.net/">https://datatables.net/</a>
jQuery Form Plugin	2.47	GPL or MIT	<a href="http://malsup.com/jquery/form/">http://malsup.com/jquery/form/</a>
jQuery Hotkeys Plugin		GPL v2.0 or MIT	<a href="https://github.com/jeresig/jquery.hotkeys">https://github.com/jeresig/jquery.hotkeys</a>
jQuery Timepicker		GPL v2.0 or MIT	<a href="http://trentrichardson.com/examples/timepicker/">http://trentrichardson.com/examples/timepicker/</a>
jQuery Total Storage	1.1.2	GPL or MIT	<a href="https://github.com/Upstatement/jquery-total-storage">https://github.com/Upstatement/jquery-total-storage</a>
jQuery UI	1.8.14	GPL v2.0 or MIT	<a href="http://jqueryui.com/">http://jqueryui.com/</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
JSch 0.1.42	0.1.42	BSD	<a href="http://mirrors.ibiblio.org/maven2/com/jcraft/jsch/">http://mirrors.ibiblio.org/maven2/com/jcraft/jsch/</a> , <a href="http://www.jcraft.com/jsch/">http://www.jcraft.com/jsch/</a>
JSON.simple	1.1	Apache 2.0	<a href="http://code.google.com/p/json-simple/">http://code.google.com/p/json-simple/</a>
JSR305 Implementation	jsr305-3.0.0	BSD-3, See Notes	<a href="https://code.google.com/p/jsr-305/">https://code.google.com/p/jsr-305/</a>
jsTree	1.0-rc1	GPL or MIT	<a href="http://www.jstree.com/">http://www.jstree.com/</a>
JToaster 1.0.4	1.0.4	Apache 2.0	<a href="http://jtoaster.sourceforge.net">http://jtoaster.sourceforge.net</a>
JUnit	4.1.1	EPL 1.0, See Notes	<a href="http://www.junit.org">http://www.junit.org</a>
juniversalchardet	1.0.3	GPL v2.0+ or LGPL v2.1+, or MPL 1.1	<a href="https://code.google.com/p/juniversalchardet/">https://code.google.com/p/juniversalchardet/</a>
kazoo 2.0	2	Apache 2.0	<a href="https://github.com/python-zk/kazoo">https://github.com/python-zk/kazoo</a>
kerberos 1.1.1	1.1.1	MIT	<a href="https://pypi.python.org/pypi/kerberos/1.1.1">https://pypi.python.org/pypi/kerberos/1.1.1</a>
KFS 0.2.2	0.2.2	Apache 2.0	<a href="https://code.google.com/p/kosmosfs/">https://code.google.com/p/kosmosfs/</a>
Kimbie CSS		CC BY-SA 4.0 Unported	<a href="https://github.com/idleberg/Kimbie-Rainbow">https://github.com/idleberg/Kimbie-Rainbow</a>
Kite		Apache 2.0	<a href="http://kitesdk.org/docs/current/">http://kitesdk.org/docs/current/</a>
Leveldbjni 1.8	1.8	BSD-3	<a href="http://fusesource.com/">http://fusesource.com/</a>
Libfb303 0.9.2	0.9.2	Apache 2.0	<a href="http://thrift.apache.org">http://thrift.apache.org</a>
Log Redactor 1.0.2	1.0.2	Apache 2.0	<a href="https://github.com/cloudera/logredactor">https://github.com/cloudera/logredactor</a>
log4net		Apache 2.0	<a href="http://logging.apache.org/log4net/">http://logging.apache.org/log4net/</a>
markupsafe 0.9.3	0.9.3	BSD-3	<a href="https://github.com/mitsuhiko/markupsafe">https://github.com/mitsuhiko/markupsafe</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Maven SCM API 1.4	1.4	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/org/apache/maven/scm/maven-scm-api">http://mirrors.ibiblio.org/maven2/org/apache/maven/scm/maven-scm-api</a>
Maven SCM Subversion Provider	1.4	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/org/apache/maven/scm/maven-scm-provider-svnexe">http://mirrors.ibiblio.org/maven2/org/apache/maven/scm/maven-scm-provider-svnexe</a>
Maven SCM Subversion Provider	1.4	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/org/apache/maven/scm/maven-scm-provider-svn-commons">http://mirrors.ibiblio.org/maven2/org/apache/maven/scm/maven-scm-provider-svn-commons</a>
Metrics 3.0.2	3.0.2	Apache 2.0	<a href="http://metrics.codahale.com">http://metrics.codahale.com</a>
Metrics Core 3.0.1	3.0.1	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/com/codahale/metrics/metrics-core">http://mirrors.ibiblio.org/maven2/com/codahale/metrics/metrics-core</a>
Metrics Core Library 2.2.0	2.2.0	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/com/yammer/metrics/metrics-core">http://mirrors.ibiblio.org/maven2/com/yammer/metrics/metrics-core</a> , <a href="https://github.com/dropwizard/metrics">https://github.com/dropwizard/metrics</a>
Mockito 1.8.5	1.8.5	MIT, See license about other licenses	<a href="http://mockito.goolecode.com">http://mockito.goolecode.com</a> , <a href="http://www.mockito.org">http://www.mockito.org</a>
Netscape security libraries - cacerts		GPL v2.0 or LGPL v2.1 or MPL v1.1	
opencsv	2.3	Apache 2.0	<a href="http://opencsv.sf.net">http://opencsv.sf.net</a>
OpenLDAP 2.4.25	2.4.25	OpenLD AP Public License v2.8	<a href="http://www.openldap.org/">http://www.openldap.org/</a>
PAM module for python		MIT	<a href="http://atlee.ca/software/pam/">http://atlee.ca/software/pam/</a>
ParaNamer Core	2.3	BSD	<a href="https://github.com/paul-hammant/paranamer">https://github.com/paul-hammant/paranamer</a>
Parquet		Apache 2.0	<a href="https://github.com/Parquet/parquet-format">https://github.com/Parquet/parquet-format</a> OR <a href="https://github.com/apache/parquet-format">https://github.com/apache/parquet-format</a> OR <a href="http://parquet.apache.org/">http://parquet.apache.org/</a>
parquet-python		Apache 2.0	<a href="https://github.com/jcrobak/parquet-python">https://github.com/jcrobak/parquet-python</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Pentaho Aggdesigner Algorithm 5.1.5-jhyde	5.1.5	Apache 2.0	<a href="http://www.pentaho.com/">http://www.pentaho.com/</a>
Plexus Common Utilities 1.5.6	1.5.6	Apache 2.0	<a href="http://mirrors.ibiblio.org/maven2/org/codehaus/plexus/plexus-utils">http://mirrors.ibiblio.org/maven2/org/codehaus/plexus/plexus-utils</a> , <a href="http://plexus.codehaus.org/plexus-utils">http://plexus.codehaus.org/plexus-utils</a>
PostgreSQL JDBC Driver	9.0-801.jdbc4	BSD-3	<a href="http://jdbc.postgresql.org/">http://jdbc.postgresql.org/</a>
Protocol Buffer Java API 2.5.0	2.5.0	BSD-3	<a href="http://code.google.com/p/protobuf">http://code.google.com/p/protobuf</a>
Pygments 1.3.1	1.3.1	BSD-2	<a href="http://pygments.org/">http://pygments.org/</a>
pyOpenSSL		Apache 2.0	<a href="https://github.com/pyca/pyopenssl">https://github.com/pyca/pyopenssl</a>
pysqlite		zlib/ libpng License	<a href="https://pypi.python.org/pypi/pysqlite">https://pypi.python.org/pypi/pysqlite</a>
python-ldap 2.3.13	2.3.13	Python-style License	<a href="https://pypi.python.org/pypi/python-ldap/2.3.13">https://pypi.python.org/pypi/python-ldap/2.3.13</a>
python-sqlparse 0.1.14	0.1.14	BSD-3	<a href="https://github.com/andialbrecht/sqlparse">https://github.com/andialbrecht/sqlparse</a>
pytidylib 0.2.1	0.2.1	MIT	<a href="https://pypi.python.org/pypi/pytidylib/0.2.1">https://pypi.python.org/pypi/pytidylib/0.2.1</a>
pytz 2014.10	2014.1	ZPL or MIT	<a href="https://pypi.python.org/pypi/pytz/2014.10">https://pypi.python.org/pypi/pytz/2014.10</a>
QuickLZ (GPL v1.0 or GPL v2.0 or Commercial)		GPL v1.0 or GPL v2.0 or Commercial	<a href="http://www.quicklz.com/">http://www.quicklz.com/</a>
rapidjson 0.11	0.11	MIT	A fast JSON parser/generator for C++ with both SAX/DOM style API
Regexp 1.3	1.3	Apache v1.1	<a href="http://mirrors.ibiblio.org/maven2/regexp/regexp">http://mirrors.ibiblio.org/maven2/regexp/regexp</a>
requests 2.6.0	2.6.0	Apache 2.0	<a href="https://pypi.python.org/pypi/requests">https://pypi.python.org/pypi/requests</a>
requests-kerberos 0.6.1	0.6.1	MIT	<a href="https://github.com/requests/requests-kerberos">https://github.com/requests/requests-kerberos</a>



**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Require.js 1.0.6	1.0.6	MIT or BSD	<a href="http://requirejs.org/">http://requirejs.org/</a>
Select2		GPL v2.0 or Apache 2.0	<a href="https://github.com/select2/select2">https://github.com/select2/select2</a>
Servlet Specification 2.5 API	2.5-6.1. 14	CDDL v1.0	<a href="http://jetty.mortbay.org">http://jetty.mortbay.org</a> , <a href="http://mirrors.ibiblio.org/maven2/org/mortbay/jetty/servlet-api-2.5">http://mirrors.ibiblio.org/maven2/org/mortbay/jetty/servlet-api-2.5</a>
simplejson		MIT	<a href="https://pypi.python.org/pypi/simplejson/">https://pypi.python.org/pypi/simplejson/</a>
six 1.9.0	1.9.0	MIT	<a href="https://pypi.python.org/pypi/six">https://pypi.python.org/pypi/six</a>
SLF4J		MIT	<a href="http://www.slf4j.org/">http://www.slf4j.org/</a>
SLF4J Bridging legacy APIs	1.7.5	MIT	<a href="http://www.slf4j.org/legacy.html">http://www.slf4j.org/legacy.html</a>
snappy 1.0.5	1.0.5	BSD-3	<a href="https://code.google.com/p/snappy/">https://code.google.com/p/snappy/</a>
Snappy Java 1.0.4.1	1.0.4.1	Apache 2.0	<a href="http://xerial.org/snappy-java/">http://xerial.org/snappy-java/</a>
squeasel by Sergey Lyubka		MIT	
ssl 1.15 [bundled with Cloudera Hue]	1.15	Python License	<a href="https://pypi.python.org/pypi/ssl/1.15">https://pypi.python.org/pypi/ssl/1.15</a>
StAX	1.0.2	Possibly GPL unversio ned, Possibly CDDL 1.0	<a href="http://www.jcp.org/en/jsr/detail?id=173">http://www.jcp.org/en/jsr/detail?id=173</a>
StAX API 1.0.1	1.0.1	Apache 2.0	<a href="http://stax.codehaus.org/">http://stax.codehaus.org/</a>
String Template 3.2.1	3.2.1	BSD-3	<a href="http://www.stringtemplate.org/">http://www.stringtemplate.org/</a>
TableTools 2.1.4	2.1.4	GPL v2.0 or BSD-3	<a href="https://github.com/DataTables/TableTools">https://github.com/DataTables/TableTools</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Tablib [bundled with Cloudera Hue]		MIT	<a href="http://tablib.readthedocs.org/en/latest/development/">http://tablib.readthedocs.org/en/latest/development/</a>
Taglib [Bundled with Cloudera Hue]		MIT	<a href="https://github.com/kennethreitz/tablib">https://github.com/kennethreitz/tablib</a>
tempus-fugit	1.1	Apache 2.0	<a href="http://code.google.com/p/tempus-fugit/">http://code.google.com/p/tempus-fugit/</a>
The Netty Project	3.6.2	Apache 2.0	<a href="http://www.jboss.org/netty/">http://www.jboss.org/netty/</a>
The Netty Project 3.6.2	3.6.2	Apache 2.0	<a href="http://netty.io/">http://netty.io/</a>
Thrift 0.9.1 [bundled with Cloudera Hue]	0.9.1	Apache 2.0	<a href="https://www.apache.org/dist/thrift/0.9.1/">https://www.apache.org/dist/thrift/0.9.1/</a>
urllib2_kerberos 0.1.6	0.6.1	Apache 2.0	<a href="https://pypi.python.org/pypi/urllib2_kerberos/">https://pypi.python.org/pypi/urllib2_kerberos/</a>
wadl- resourcedoc- doclet	1.4	GPL v2.0 with Classpath Exception or CDDL v1.1	<a href="http://mirrors.ibiblio.org/maven2/com/sun/jersey/contribs/wadl-resourcedoc-doclet">http://mirrors.ibiblio.org/maven2/com/sun/jersey/contribs/wadl-resourcedoc-doclet</a>
Xerces		Apache 2.0	<a href="https://xerces.apache.org/xerces-j/">https://xerces.apache.org/xerces-j/</a>
Xerces2 Java Parser		GPL v2.0+ with Special Exception	
Xerces2 Java Parser	2.9.1	Apache 2.0	<a href="http://xerces.apache.org/xerces2-j/">http://xerces.apache.org/xerces2-j/</a> , <a href="http://xerces.apache.org/xerces2-j/">http://xerces.apache.org/xerces2-j/</a>
XML Commons External Components	1.3.04	Apache 2.0	<a href="http://xml.apache.org/commons/#external">http://xml.apache.org/commons/#external</a> , <a href="http://xml.apache.org/commons/components/external/">http://xml.apache.org/commons/components/external/</a>

**Table 3-1 (Cont.) CDH5 Third-Party Software Licenses**

Product	Version	License	Source URL
Xml Compatibility extensions	1.8.8	Apache 2.0	<a href="http://jackson.codehaus.org">http://jackson.codehaus.org</a>
Xmlenc Library 0.52	0.52	BSD	<a href="http://xmlenc.sourceforge.net">http://xmlenc.sourceforge.net</a>
XZ for Java	1	Public Domain, See Notes about GPL	<a href="http://tukaani.org/xz/java.html">http://tukaani.org/xz/java.html</a>

## 3.2 Cloudera Manager

Table 3-2 lists the third-party software licenses for Cloudera Manager 5.

**Table 3-2 Cloudera Manager 5 Third-Party Software Licenses**

Project	Version	License	Source URL
ace-builds		BSD	
Apache Avro	2	Apache 2.0	<a href="https://github.com/ajaxorg/ace-builds">https://github.com/ajaxorg/ace-builds</a>
Apache Avro 1.6.3	1.6.3	Apache 2.0, See Notes LGPL v2.1-jboss-logging	<a href="http://avro.apache.org">http://avro.apache.org</a>
Apache Hadoop		Apache 2.0	<a href="http://avro.apache.org">http://avro.apache.org</a>
Apache Hbase	2	Apache 2.0	<a href="http://hadoop.apache.org/">http://hadoop.apache.org/</a>
Apache Hive		Apache 2.0	<a href="http://hbase.apache.org">http://hbase.apache.org</a>
Apache Log4j	1.2.17	Apache 2.0	<a href="http://hive.apache.org">http://hive.apache.org</a>
Apache Lucene/Solr		Apache 2.0	<a href="http://www.logging.apache.org/log4j/">http://www.logging.apache.org/log4j/</a>
Apache Whirr		Apache 2.0	<a href="http://lucene.apache.org/solr/">http://lucene.apache.org/solr/</a>
argparse 1.1	1.1	Apache 2.0	<a href="http://whirr.apache.org">http://whirr.apache.org</a>
Backbone.js 1.9.2	0.9.2	MIT	<a href="https://code.google.com/p/argparse/">https://code.google.com/p/argparse/</a>
Beaker 1.5.4	1.5.4	BSD-3	<a href="https://github.com/jashkenas/backbone/">https://github.com/jashkenas/backbone/</a>

**Table 3-2 (Cont.) Cloudera Manager 5 Third-Party Software Licenses**

Project	Version	License	Source URL
Bootstrap Multiselect 0.9.8	0.9.8	Apache 2.0 or BSD-3	<a href="http://beaker.readthedocs.org/en/latest/">http://beaker.readthedocs.org/en/latest/</a>
Bouncy Castle	15-140	Bouncy Castle License	<a href="https://github.com/davidstutz/bootstrap-multiselect">https://github.com/davidstutz/bootstrap-multiselect</a>
CherryPy 3.2.2	3.2.2	BSD-3	<a href="http://www.bouncycastle.org/">http://www.bouncycastle.org/</a>
Cloudera Impala		Apache 2.0	<a href="http://www.cloudera.com/content/cloudera/en/products-and-services/cdh/impala.html">http://www.cloudera.com/content/cloudera/en/products-and-services/cdh/impala.html</a>
Data-Driven Documents		BSD-3	
Deep Equality of Python Structures by Samuel Webster Sutch		MIT	<a href="http://d3js.org/">http://d3js.org/</a>
Dependency on GNU libgcj 4.7.2	4.7.2	GPL with libgcc exception, See notes about references	<a href="https://gcc.gnu.org/java/">https://gcc.gnu.org/java/</a>
elementtree 1.2.7	1.2.7	MIT Style	<a href="https://web.archive.org/web/20141013065641/http://ssutch.org/deep-equality-of-python-structures/">https://web.archive.org/web/20141013065641/http://ssutch.org/deep-equality-of-python-structures/</a>
Files containing sprintf() for JavaScript 0.7-beta1		BSD-3	<a href="http://effbot.org/zone/element-index.htm">http://effbot.org/zone/element-index.htm</a>
Files from Selenium		Apache 2.0	<a href="https://github.com/alexei/sprintf.js">https://github.com/alexei/sprintf.js</a>
Files generated by Swagger		Apache 2.0	<a href="https://code.google.com/p/selenium/">https://code.google.com/p/selenium/</a>
flashcanvas		MIT	<a href="http://swagger.io/">http://swagger.io/</a>
FlashCanvas Pro		Commercial or MIT with restrictions	<a href="http://flashcanvas.net/">http://flashcanvas.net/</a>
FlashCanvas Pro (See License)		See License	<a href="http://flashcanvas.net/">http://flashcanvas.net/</a>

**Table 3-2 (Cont.) Cloudera Manager 5 Third-Party Software Licenses**

Project	Version	License	Source URL
gridster.js 0.5.2	0.5.2	MIT	<a href="https://code.google.com/p/flashcanvas/">https://code.google.com/p/flashcanvas/</a>
guppy 0.1.10	0.1.10	MIT	<a href="http://gridster.net/">http://gridster.net/</a>
Handlebars 1.0.0	1.0.0	MIT	<a href="http://guppy-pe.sourceforge.net/">http://guppy-pe.sourceforge.net/</a>
highlight.js 7.3	7.3	BSD-3	<a href="http://handlebarsjs.com/">http://handlebarsjs.com/</a>
HTML 5 Shiv	0.23	GPL v2.0 or MIT	<a href="http://html5shim.googlecode.com/svn/trunk/html5.js">http://html5shim.googlecode.com/svn/trunk/html5.js</a>
Interface	2.1.2	GPL or MIT	<a href="http://interface.eyecon.ro/">http://interface.eyecon.ro/</a>
ipython 0.12.1	0.12.1	BSD	<a href="https://github.com/isagalaev/highlight.js/tree/7.3">https://github.com/isagalaev/highlight.js/tree/7.3</a>
Jasmine	1.3.1	MIT	<a href="http://ipython.org/">http://ipython.org/</a>
jasmine-ajax		MIT	<a href="https://github.com/jasmine/jasmine">https://github.com/jasmine/jasmine</a>
JavaSE/JDK (Oracle BCLA)	6,7	Oracle BCLA	<a href="http://www.oracle.com/technetwork/java/javase/terms/license/index.html">http://www.oracle.com/technetwork/java/javase/terms/license/index.html</a>
jPicker	1.1.6	MIT	<a href="http://github.com/pivotal/jasmine-ajax">http://github.com/pivotal/jasmine-ajax</a>
jQuery	1.4.2	GPL 2 or MIT	<a href="http://jquery.com/">http://jquery.com/</a>
jQuery	1.10.2	MIT	<a href="https://code.google.com/p/jpicker/">https://code.google.com/p/jpicker/</a>
jquery.inputmask	3.0.56	MIT	<a href="https://web.archive.org/web/20130330023329/http://labs.wondergroup.com/demos/mini-ui/index.html">https://web.archive.org/web/20130330023329/http://labs.wondergroup.com/demos/mini-ui/index.html</a>
jQuery 1.8.0	1.8.2	MIT	<a href="http://jquery.com/">http://jquery.com/</a>
jQuery BBQ		GPL or MIT	<a href="http://benalman.com/projects/jquery-bbq-plugin/">http://benalman.com/projects/jquery-bbq-plugin/</a>

**Table 3-2 (Cont.) Cloudera Manager 5 Third-Party Software Licenses**

Project	Version	License	Source URL
jQuery DataTables 1.8.2	1.8.2	GPL v2.0 or BSD	<a href="https://datatables.net/">https://datatables.net/</a>
jQuery hashchange event		GPL or MIT	<a href="http://benalman.com/projects/jquery-hashchange-plugin/">http://benalman.com/projects/jquery-hashchange-plugin/</a>
jQuery Layout 1.4.3	1.4.3	GPL or MIT	<a href="http://plugins.jquery.com/layout/">http://plugins.jquery.com/layout/</a>
jQuery Migrate	1.2.1	MIT	<a href="http://jquery.com/">http://jquery.com/</a>
JQuery Splitter Plugin	0.14.0	LGPL v3.0+	<a href="https://github.com/jcubic/jquery.splitter">https://github.com/jcubic/jquery.splitter</a>
jQuery Timepicker		GPL v2.0 or MIT	<a href="http://trentrichardson.com/examples/timepicker/">http://trentrichardson.com/examples/timepicker/</a>
jQuery Tokeninput	1.6.1	GPL or MIT	<a href="http://loopj.com/jquery-tokeninput/">http://loopj.com/jquery-tokeninput/</a>
jQuery treeTable	2.3.0	GPL v2.0 or MIT	<a href="http://ludo.cubicphuse.nl/jquery-treetable/">http://ludo.cubicphuse.nl/jquery-treetable/</a>
jQuery UI	1.8.18 , 1.8.16, 1.8.24 , 1.8.14	GPL v2.0 or MIT	<a href="http://jqueryui.com/">http://jqueryui.com/</a>
jQuery UI	1.10.3	MIT	<a href="https://github.com/jquery/jquery-migrate">https://github.com/jquery/jquery-migrate</a>
jQuery UI Bootstrap	0.23	GPL v2.0 or MIT	<a href="https://github.com/jquery-ui-bootstrap/jquery-ui-bootstrap">https://github.com/jquery-ui-bootstrap/jquery-ui-bootstrap</a> or <a href="http://web.archive.org/web/20130411045003/http://addyosmani.github.io/jquery-ui-bootstrap/">http://web.archive.org/web/20130411045003/http://addyosmani.github.io/jquery-ui-bootstrap/</a>
jQuery-UI-Date-Range-Picker	1.8.7	GPL or MIT	<a href="https://github.com/filamentgroup/jQuery-UI-Date-Range-Picker">https://github.com/filamentgroup/jQuery-UI-Date-Range-Picker</a>
jQuery UI Slider Access	0.3	GPL or MIT	<a href="http://trentrichardson.com/examples/jQuery-SliderAccess/">http://trentrichardson.com/examples/jQuery-SliderAccess/</a>
jQuery Validation Plugin 1.8.1	1.8.1	GPL or MIT	<a href="http://jqueryvalidation.org/documentation">http://jqueryvalidation.org/documentation</a>

**Table 3-2 (Cont.) Cloudera Manager 5 Third-Party Software Licenses**

Project	Version	License	Source URL
jQuery Wiggle		MIT	<a href="http://jqueryui.com/">http://jqueryui.com/</a>
kerberos 1.1.1	1.1.1	Apache 2.0	<a href="https://github.com/RobinHerbots/jquery.inputmask">https://github.com/RobinHerbots/jquery.inputmask</a>
knockout-bootstrap	0.2.1	MIT	<a href="http://billpull.com/knockout-bootstrap/">http://billpull.com/knockout-bootstrap/</a>
Knockout JavaScript	2.2.1	MIT	<a href="http://knockoutjs.com/">http://knockoutjs.com/</a>
LessJS	1.3.3	Apache 2.0	<a href="http://lesscss.org/">http://lesscss.org/</a>
libtorrent		BSD	<a href="http://www.libtorrent.org/">http://www.libtorrent.org/</a>
lunr	0.2.0	MIT	<a href="http://lunrjs.com/">http://lunrjs.com/</a>
M2Crypto 1.0	1	BSD-Style	<a href="http://chandlerproject.org/Projects/MeTooCrypto">http://chandlerproject.org/Projects/MeTooCrypto</a>
Mako 0.3.4	0.3.4	MIT	<a href="http://www.makotemplates.org/">http://www.makotemplates.org/</a>
MarkupSafe 0.11	0.11	BSD-3	<a href="https://pypi.python.org/pypi/MarkupSafe">https://pypi.python.org/pypi/MarkupSafe</a>
meld3 0.6.7 (Zope Public License)	0.6.7	Zope Public License	<a href="http://www.plope.com/software/meld3/">http://www.plope.com/software/meld3/</a>
mock 0.8.0	0.8.0	BSD-2	<a href="http://www.voidspace.org.uk/python/mock/">http://www.voidspace.org.uk/python/mock/</a>
Modernizr	2.6.2	MIT	<a href="http://modernizr.com/">http://modernizr.com/</a>
MomentJS		MIT	<a href="http://momentjs.com">http://momentjs.com</a>
multiprocessing 2.6.2.1	2.6.2.1	BSD-3	<a href="https://code.google.com/p/python-multiprocessing/">https://code.google.com/p/python-multiprocessing/</a>
netifaces 0.8	0.8	MIT	<a href="http://alastairs-place.net/projects/netifaces/">http://alastairs-place.net/projects/netifaces/</a>
psutil 2.1.3	2.1.3	BSD-3	<a href="https://github.com/giampaolo/psutil">https://github.com/giampaolo/psutil</a>
pubsub.js		MIT	<a href="https://github.com/federico-lox/pubsub.js">https://github.com/federico-lox/pubsub.js</a>

**Table 3-2 (Cont.) Cloudera Manager 5 Third-Party Software Licenses**

Project	Version	License	Source URL
Pyinotify 0.9.3	0.9.3	MIT	<a href="https://github.com/sebm/pyinotify">https://github.com/sebm/pyinotify</a>
python-daemonize		MIT	<a href="https://pypi.python.org/pypi/daemonize/">https://pypi.python.org/pypi/daemonize/</a>
Python-Markdown	1.5a	GPL or BSD	<a href="https://pypi.python.org/pypi/Markdown">https://pypi.python.org/pypi/Markdown</a>
python-requests		Apache 2.0	<a href="http://docs.python-requests.org/en/master/user/intro/#apache2-license">http://docs.python-requests.org/en/master/user/intro/#apache2-license</a>
QUnit		GPL or MIT	<a href="http://qunitjs.com/">http://qunitjs.com/</a>
requirejs	2.1.15	BSD or MIT	<a href="https://www.nuget.org/packages/RequireJS">https://www.nuget.org/packages/RequireJS</a>
RequireJS	2.1.15, 2.0.5	BSD-3 or MIT	<a href="http://requirejs.org/">http://requirejs.org/</a>
RequireJS plugins by Miller Medeiros	0.3.1	MIT	<a href="https://github.com/millermedeiros/requirejs-plugins/">https://github.com/millermedeiros/requirejs-plugins/</a>
Reset CSS	v2.0   20110126	Public Domain	<a href="http://meyerweb.com/eric/tools/css/reset/">http://meyerweb.com/eric/tools/css/reset/</a>
Rickshaw		MIT	<a href="http://code.shutterstock.com/rickshaw/">http://code.shutterstock.com/rickshaw/</a>
Select2	3.5.1	GPL v2.0 or Apache 2.0	<a href="https://github.com/select2/select2">https://github.com/select2/select2</a>
selectize 0.11.2	0.11.2	Apache 2.0	<a href="http://spmjs.io/package/selectize/0.11.2">http://spmjs.io/package/selectize/0.11.2</a>
simplejson 2.1.2	2.1.2	MIT	<a href="http://undefined.org/python/#simplejson">http://undefined.org/python/#simplejson</a>
Sizzle	1.8.0	GPL 2 or BSD-3 or MIT	<a href="http://sizzlejs.com/">http://sizzlejs.com/</a>
spin.js 2.0.1	2.0.1	MIT	<a href="http://fgnass.github.io/spin.js/">http://fgnass.github.io/spin.js/</a>
Spinner icon from ajaxload.info (WTFPL)		WTFPL	<a href="http://ajaxload.info/">http://ajaxload.info/</a>
Swagger UI		Apache 2.0	<a href="https://github.com/swagger-api/swagger-ui">https://github.com/swagger-api/swagger-ui</a>



**Table 3-2 (Cont.) Cloudera Manager 5 Third-Party Software Licenses**

Project	Version	License	Source URL
threadpool 1.2.7	1.2.7	MIT	<a href="http://chrisarndt.de/projects/threadpool/">http://chrisarndt.de/projects/threadpool/</a>
Thrift Python Software Library 0.7.0	0.7.0	Apache 2.0	
ttorrent		Apache 2.0	<a href="https://github.com/mpetazzoni/ttorrent">https://github.com/mpetazzoni/ttorrent</a>
Twitter Bootstrap 2.3.0/2.3.2	2.3.0, 2.3.2	Apache 2.0	<a href="http://twitter.github.io/bootstrap/">http://twitter.github.io/bootstrap/</a>
Twitter Bootstrap 4.3.0	4.3.0	MIT	<a href="http://twitter.github.io/bootstrap/">http://twitter.github.io/bootstrap/</a>
typeahead.js	0.10.2	MIT	<a href="https://github.com/twitter/typeahead.js">https://github.com/twitter/typeahead.js</a>
UnderscoreJS	1.6.0, 1.3.3 and 1.5.2	MIT	<a href="http://underscorejs.org/">http://underscorejs.org/</a>
urllib2_kerberos 0.1.6	0.1.16	Apache 2.0	<a href="http://web.archive.org/web/20090316061906/http://limedav.com/hg/urllib2_kerberos/">http://web.archive.org/web/20090316061906/http://limedav.com/hg/urllib2_kerberos/</a>
uuid 1.30 (Python Software License)	1.3	Python Software License	<a href="http://zesty.ca/python/uuid.html">http://zesty.ca/python/uuid.html</a>
Websanova	1.7.5	GPL or MIT	<a href="https://github.com/websanova/js-url">https://github.com/websanova/js-url</a>
Webshims Lib by Alexander Farkas	2.2	MIT	<a href="https://github.com/aFarkas/webshim">https://github.com/aFarkas/webshim</a>
Wijmo	1.5.0	GPL v2.0 or MIT	<a href="http://wijmo.com/">http://wijmo.com/</a>
YUI Compressor	2.4.6	BSD	<a href="http://yuicompressor.codeplex.com/">http://yuicompressor.codeplex.com/</a>
zClip	1.1.1	MIT	<a href="http://steamdev.com/zclip/">http://steamdev.com/zclip/</a>
ZeroClipboard	v2.2.0-beta.1	MIT	<a href="http://zeroclipboard.org/">http://zeroclipboard.org/</a>

### 3.3 Cloudera Key Trustee

The following are third-party software projects used with the Cloudera Key Trustee and its subcomponents. Not all of these projects are distributed with the software.

**Table 3-3 Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
zNcrypt Kernel Module	3.x	GPL2	<a href="https://github.com/clouderasecurity/zncrypt-deployment">https://github.com/clouderasecurity/zncrypt-deployment</a>
Ecryptfs		GPL2	<a href="https://git.kernel.org/cgit/linux/kernel/git/tyhicks/ecryptfs.git">https://git.kernel.org/cgit/linux/kernel/git/tyhicks/ecryptfs.git</a>
Keyutils		GPL2 or later	<a href="http://people.redhat.com/~dhowells/keyutils/keyutils-1.5.9.tar.bz2">http://people.redhat.com/~dhowells/keyutils/keyutils-1.5.9.tar.bz2</a>
OpenSSL		OpenSSL	<a href="https://github.com/openssl/openssl">https://github.com/openssl/openssl</a>
cJSON		MIT	<a href="http://sourceforge.net/projects/cjson/files/latest/download">http://sourceforge.net/projects/cjson/files/latest/download</a>
cryptsetup		GPL2	<a href="https://github.com/mbroz/cryptsetup">https://github.com/mbroz/cryptsetup</a>
autopep8		Public Domain	<a href="https://pypi.python.org/pypi/autopep8/">https://pypi.python.org/pypi/autopep8/</a>
cffib		MIT	<a href="https://bitbucket.org/cffi/cffi">https://bitbucket.org/cffi/cffi</a>
ecdsa		MIT	<a href="https://github.com/warner/python-ecdsa">https://github.com/warner/python-ecdsa</a>
flake8		MIT	<a href="https://pypi.python.org/pypi/flake8">https://pypi.python.org/pypi/flake8</a>
itsdangerous		BSD	<a href="https://pypi.python.org/pypi/itsdangerous/0.23">https://pypi.python.org/pypi/itsdangerous/0.23</a>
jinjia2		BSD	<a href="http://jinjia.pocoo.org/">http://jinjia.pocoo.org/</a>
mccabe		MIT	<a href="https://pypi.python.org/pypi/mccabe">https://pypi.python.org/pypi/mccabe</a>
MarkupSafe		BSD	<a href="https://github.com/mitsuhiko/markupsafe">https://github.com/mitsuhiko/markupsafe</a>
nose		LGPL	<a href="https://github.com/nose-devs/nose/">https://github.com/nose-devs/nose/</a>
ordereddict		MIT	<a href="https://pypi.python.org/pypi/ordereddict">https://pypi.python.org/pypi/ordereddict</a>
pep8		MIT	<a href="https://pypi.python.org/pypi/pep8">https://pypi.python.org/pypi/pep8</a>
postgresql93-server		MIT	<a href="http://rpmfind.net/linux/rpm2html/search.php?query=postgresql93-server">http://rpmfind.net/linux/rpm2html/search.php?query=postgresql93-server</a>
postgresql93		MIT	<a href="http://www.postgresql.org/">http://www.postgresql.org/</a>
psutil		BSD	<a href="https://code.google.com/p/psutil/source/checkout">https://code.google.com/p/psutil/source/checkout</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
py-bcrypt		BSD	<a href="https://pypi.python.org/pypi/py-bcrypt/">https://pypi.python.org/pypi/py-bcrypt/</a>
python-flask		BSD3	<a href="http://flask.pocoo.org/">http://flask.pocoo.org/</a>
python-magic		MIT	<a href="https://pypi.python.org/pypi/python-magic">https://pypi.python.org/pypi/python-magic</a>
filemagic		Apache	<a href="https://pypi.python.org/pypi/filemagic/1.6">https://pypi.python.org/pypi/filemagic/1.6</a>
python-sqlalchemy		MIT	<a href="http://www.sqlalchemy.org/download.html">http://www.sqlalchemy.org/download.html</a>
pycparser		BSD	<a href="https://pypi.python.org/pypi/pycparser">https://pypi.python.org/pypi/pycparser</a>
pycrypto		Public Domain	<a href="https://pypi.python.org/pypi/pycrypto">https://pypi.python.org/pypi/pycrypto</a>
pyflakes		MIT	<a href="https://pypi.python.org/pypi/pyflakes">https://pypi.python.org/pypi/pyflakes</a>
python-cherrypy		BSD	<a href="https://bitbucket.org/cherrypy/cherrypy/src">https://bitbucket.org/cherrypy/cherrypy/src</a>
python-paste		MIT	<a href="http://pythonpaste.org/download/index.html">http://pythonpaste.org/download/index.html</a>
python-requests		Apache 2	<a href="https://pypi.python.org/pypi/requests">https://pypi.python.org/pypi/requests</a>
python-pycurl		cURL	<a href="https://pypi.python.org/pypi/pycurl">https://pypi.python.org/pypi/pycurl</a>
python-pycurl		LGPL	<a href="https://pypi.python.org/pypi/pycurl">https://pypi.python.org/pypi/pycurl</a>
python-pycurl		XMIT	<a href="https://pypi.python.org/pypi/pycurl">https://pypi.python.org/pypi/pycurl</a>
python-tz		MIT	<a href="https://pypi.python.org/pypi/pytz/">https://pypi.python.org/pypi/pytz/</a>
python-tz		ZPL	<a href="https://pypi.python.org/pypi/pytz/">https://pypi.python.org/pypi/pytz/</a>
python		PSF	<a href="https://www.python.org/downloads/source/">https://www.python.org/downloads/source/</a>
python-psycopg2		LGPL 3	<a href="https://pypi.python.org/pypi/psycopg2">https://pypi.python.org/pypi/psycopg2</a>
python-openssl		Apache 2	<a href="https://pypi.python.org/pypi/pyOpenSSL">https://pypi.python.org/pypi/pyOpenSSL</a>
python-argparse		Python license	<a href="https://pypi.python.org/pypi/argparse">https://pypi.python.org/pypi/argparse</a>
python-m2crypto		BSD	<a href="https://pypi.python.org/pypi/M2Crypto">https://pypi.python.org/pypi/M2Crypto</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
wsgiref		ZPL	<a href="https://pypi.python.org/pypi/wsgiref">https://pypi.python.org/pypi/wsgiref</a>
uuid-runtime		GPL 2	<a href="https://packages.debian.org/sid/uuid-runtime">https://packages.debian.org/sid/uuid-runtime</a>
openssl		OpenSSL	<a href="https://github.com/openssl/openssl">https://github.com/openssl/openssl</a>
gnupg2   gnupg		GPL 3	<a href="https://www.gnupg.org/download/index.html">https://www.gnupg.org/download/index.html</a>
openssl-blacklist		GPL 3	<a href="https://packages.debian.org/source/sid/openssl-blacklist">https://packages.debian.org/source/sid/openssl-blacklist</a>
gnutls-bin		LGPL	<a href="ftp://ftp.gnutls.org/gcrypt/gnutls/">ftp://ftp.gnutls.org/gcrypt/gnutls/</a>
pgbouncer		BSD	<a href="http://pgfoundry.org/projects/pgbouncer">http://pgfoundry.org/projects/pgbouncer</a>
libsasl2-2		Carnegie Mellon	<a href="https://launchpad.net/ubuntu/precise/i386/libsasl2-2">https://launchpad.net/ubuntu/precise/i386/libsasl2-2</a>
libsasl2-modules		Carnegie Mellon	<a href="https://launchpad.net/ubuntu/precise/i386/libsasl2-modules">https://launchpad.net/ubuntu/precise/i386/libsasl2-modules</a>
run-one		GPL3	<a href="https://launchpad.net/ubuntu/+source/run-one">https://launchpad.net/ubuntu/+source/run-one</a>
sasl2-bin		Carnegie Mellon	<a href="https://launchpad.net/ubuntu/precise/i386/sasl2-bin">https://launchpad.net/ubuntu/precise/i386/sasl2-bin</a>
upstart		GPL2	<a href="http://upstart.ubuntu.com/download.html">http://upstart.ubuntu.com/download.html</a>
hibernate-validator-annotation-processor		Apache 2	<a href="https://github.com/hibernate/hibernate-validator/tree/master/annotation-processor">https://github.com/hibernate/hibernate-validator/tree/master/annotation-processor</a>
Additional rpm dependencies that are not distributed			
apache2		Apache 2	<a href="http://httpd.apache.org/download.cgi">http://httpd.apache.org/download.cgi</a>
cyrus-sasl-plain		Apache 2	<a href="https://cyrusimap.org/mediawiki/index.php/Downloads#SASL_Library">https://cyrusimap.org/mediawiki/index.php/Downloads#SASL_Library</a>
gnutls-utils		LGPL	<a href="ftp://ftp.gnutls.org/gcrypt/gnutls/">ftp://ftp.gnutls.org/gcrypt/gnutls/</a>
openssh-clients		MIT	<a href="http://rpmfind.net/linux/rpm2html/search.php?query=openssh-clients">http://rpmfind.net/linux/rpm2html/search.php?query=openssh-clients</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
python-setuptools		ZPL / PSF	<a href="https://pypi.python.org/pypi/setuptools">https://pypi.python.org/pypi/ setuptools</a>
libapache2-mod-wsgi		Apache 2	<a href="http://packages.ubuntu.com/precise/libapache2-mod-wsgi">http://packages.ubuntu.com/ precise/libapache2-mod-wsgi</a>
openDKIM		openD KIM	<a href="http://sourceforge.net/projects/opendkim/files/">http://sourceforge.net/projects/ opendkim/files/</a>
opendkim-tools		openD KIM	<a href="http://sourceforge.net/projects/opendkim/files/">http://sourceforge.net/projects/ opendkim/files/</a>
postfix		IPL	<a href="http://www.postfix.org/download.html">http://www.postfix.org/ download.html</a>
com.beust jcommander, commons-codec, commons- collections, commons-io, commons-lang, httpcomponents httpclient, httpcomponents httpcore		Apache 2	<a href="https://github.com/cbeust/jcommander">https://github.com/cbeust/ jcommander</a>
org.json 20070829		JSON.o rg License	<a href="https://github.com/douglascrockford/JSON-java">https://github.com/ douglascrockford/JSON-java</a>
org.slf4j slf4j-api 1.6.6		MIT	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
Key Trustee C-API Libraries			
gpgme		LGPL	<a href="https://www.gnupg.org/(it)/download/index.html#gpgme">https://www.gnupg.org/(it)/ download/index.html#gpgme</a>
zNcrypt Kernel Module	3.x	GPL2	<a href="https://github.com/clouderasecurity/zncrypt-deployment">https://github.com/ clouderasecurity/zncrypt-deployment</a>
Encryptfs		GPL2	<a href="https://git.kernel.org/cgit/linux/kernel/git/tyhicks/encryptfs.git">https://git.kernel.org/cgit/linux/ kernel/git/tyhicks/encryptfs.git</a>
Keyutils		GPL2 or later	<a href="http://people.redhat.com/~dhowells/keyutils/keyutils-1.5.9.tar.bz2">http://people.redhat.com/ ~dhowells/keyutils/ keyutils-1.5.9.tar.bz2</a>
OpenSSL		OpenS SL	<a href="https://github.com/openssl/openssl">https://github.com/openssl/openssl</a>
cJSON		MIT	<a href="http://sourceforge.net/projects/cjson/files/latest/download">http://sourceforge.net/projects/ cjson/files/latest/download</a>
cryptsetup		GPL2	<a href="https://github.com/mbroz/cryptsetup">https://github.com/mbroz/ cryptsetup</a>
Key Trustee Server	—	—	—
autopep		Public Domai n	<a href="https://pypi.python.org/pypi/autopep8/">https://pypi.python.org/pypi/ autopep8/</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
cfffi		MIT	<a href="https://bitbucket.org/cffi/cffi">https://bitbucket.org/cffi/cffi</a>
ecdsa		MIT	<a href="https://github.com/warner/python-ecdsa">https://github.com/warner/python-ecdsa</a>
flake8		MIT	<a href="https://pypi.python.org/pypi/flake8">https://pypi.python.org/pypi/flake8</a>
itsdangerous		BSD	<a href="https://pypi.python.org/pypi/itsdangerous/0.23">https://pypi.python.org/pypi/itsdangerous/0.23</a>
jinja2		BSD	<a href="http://jinja.pocoo.org/">http://jinja.pocoo.org/</a>
mccabe		MIT	<a href="https://pypi.python.org/pypi/mccabe">https://pypi.python.org/pypi/mccabe</a>
MarkupSafe		BSD	<a href="https://github.com/mitsuhiko/markupsafe">https://github.com/mitsuhiko/markupsafe</a>
nose		LGPL	<a href="https://github.com/nose-devs/nose/">https://github.com/nose-devs/nose/</a>
ordereddict		MIT	<a href="https://pypi.python.org/pypi/ordereddict">https://pypi.python.org/pypi/ordereddict</a>
pep8		MIT	<a href="https://pypi.python.org/pypi/pep8">https://pypi.python.org/pypi/pep8</a>
postgresql93-server		MIT	<a href="http://rpmfind.net/linux/rpm2html/search.php?query=postgresql93-server">http://rpmfind.net/linux/rpm2html/search.php?query=postgresql93-server</a>
postgresql93		MIT	<a href="http://www.postgresql.org/">http://www.postgresql.org/</a>
psutil		BSD	<a href="https://code.google.com/p/psutil/source/checkout">https://code.google.com/p/psutil/source/checkout</a>
py-bcrypt		BSD	<a href="https://pypi.python.org/pypi/py-bcrypt/">https://pypi.python.org/pypi/py-bcrypt/</a>
python-flask		BSD3	<a href="http://flask.pocoo.org/">http://flask.pocoo.org/</a>
python-magic		MIT	<a href="https://pypi.python.org/pypi/python-magic">https://pypi.python.org/pypi/python-magic</a>
filemagic		Apache	<a href="https://pypi.python.org/pypi/filemagic/1.6">https://pypi.python.org/pypi/filemagic/1.6</a>
python-sqlalchemy		MIT	<a href="http://www.sqlalchemy.org/download.html">http://www.sqlalchemy.org/download.html</a>
pycparser		BSD	<a href="https://pypi.python.org/pypi/pycparser">https://pypi.python.org/pypi/pycparser</a>
pycrypto		Public Domain	<a href="https://pypi.python.org/pypi/pycrypto">https://pypi.python.org/pypi/pycrypto</a>
pyflakes		MIT	<a href="https://pypi.python.org/pypi/pyflakes">https://pypi.python.org/pypi/pyflakes</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
python-cherrypy		BSD	<a href="https://bitbucket.org/cherrypy/cherrypy/src">https://bitbucket.org/cherrypy/cherrypy/src</a>
python-paste		MIT	<a href="http://pythonpaste.org/download/index.html">http://pythonpaste.org/download/index.html</a>
python-requests		Apache 2	<a href="https://pypi.python.org/pypi/requests">https://pypi.python.org/pypi/requests</a>
python-pycurl		cURL	<a href="https://pypi.python.org/pypi/pycurl">https://pypi.python.org/pypi/pycurl</a>
python-pycurl		LGPL	<a href="https://pypi.python.org/pypi/pycurl">https://pypi.python.org/pypi/pycurl</a>
python-pycurl		XMIT	<a href="https://pypi.python.org/pypi/pycurl">https://pypi.python.org/pypi/pycurl</a>
python-tz		MIT	<a href="https://pypi.python.org/pypi/pytz/">https://pypi.python.org/pypi/pytz/</a>
python-tz		ZPL	<a href="https://pypi.python.org/pypi/pytz/">https://pypi.python.org/pypi/pytz/</a>
python		PSF	<a href="https://www.python.org/downloads/source/">https://www.python.org/downloads/source/</a>
python-psycopg2		LGPL 3	<a href="https://pypi.python.org/pypi/psycopg2">https://pypi.python.org/pypi/psycopg2</a>
python-openssl		Apache 2	<a href="https://pypi.python.org/pypi/pyOpenSSL">https://pypi.python.org/pypi/pyOpenSSL</a>
python-argparse		Python license	<a href="https://pypi.python.org/pypi/argparse">https://pypi.python.org/pypi/argparse</a>
python-m2crypto		BSD	<a href="https://pypi.python.org/pypi/M2Crypto">https://pypi.python.org/pypi/M2Crypto</a>
wsgiref		ZPL	<a href="https://pypi.python.org/pypi/wsgiref">https://pypi.python.org/pypi/wsgiref</a>
uuid-runtime		GPL 2	<a href="https://packages.debian.org/sid/uuid-runtime">https://packages.debian.org/sid/uuid-runtime</a>
openssl		OpenSSL	<a href="https://github.com/openssl/openssl">https://github.com/openssl/openssl</a>
gnupg2   gnupg		GPL 3	<a href="https://www.gnupg.org/download/index.html">https://www.gnupg.org/download/index.html</a>
openssl-blacklist		GPL 3	<a href="https://packages.debian.org/source/sid/openssl-blacklist">https://packages.debian.org/source/sid/openssl-blacklist</a>
gnutls-bin		LGPL	<a href="ftp://ftp.gnutls.org/gcrypt/gnutls/">ftp://ftp.gnutls.org/gcrypt/gnutls/</a>
pgbouncer		BSD	<a href="http://pgfoundry.org/projects/pgbouncer">http://pgfoundry.org/projects/pgbouncer</a>
libsasl2-2		Carnegie Mellon	<a href="https://launchpad.net/ubuntu/precise/i386/libsasl2-2">https://launchpad.net/ubuntu/precise/i386/libsasl2-2</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
libsasl2-modules		Carnegie Mellon	<a href="https://launchpad.net/ubuntu/precise/i386/libsasl2-modules">https://launchpad.net/ubuntu/precise/i386/libsasl2-modules</a>
run-one		GPL3	<a href="https://launchpad.net/ubuntu/+source/run-one">https://launchpad.net/ubuntu/+source/run-one</a>
sasl2-bin		Carnegie Mellon	<a href="https://launchpad.net/ubuntu/precise/i386/sasl2-bin">https://launchpad.net/ubuntu/precise/i386/sasl2-bin</a>
upstart		GPL2	<a href="http://upstart.ubuntu.com/download.html">http://upstart.ubuntu.com/download.html</a>
hibernate-validator-annotation-processor		Apache 2	<a href="https://github.com/hibernate/hibernate-validator/tree/master/annotation-processor">https://github.com/hibernate/hibernate-validator/tree/master/annotation-processor</a>
Additional rpm dependencies that are not distributed			
apache2		Apache 2	<a href="http://httpd.apache.org/download.cgi">http://httpd.apache.org/download.cgi</a>
cyrus-sasl-plain		Apache 2	<a href="https://cyrusimap.org/mediawiki/index.php/Downloads#SASL_Library">https://cyrusimap.org/mediawiki/index.php/Downloads#SASL_Library</a>
gnutls-utils		LGPL	<a href="ftp://ftp.gnutls.org/gcrypt/gnutls/">ftp://ftp.gnutls.org/gcrypt/gnutls/</a>
openssh-clients		MIT	<a href="http://rpmfind.net/linux/rpm2html/search.php?query=openssh-clients">http://rpmfind.net/linux/rpm2html/search.php?query=openssh-clients</a>
python-setuptools		ZPL / PSF	<a href="https://pypi.python.org/pypi/setuptools">https://pypi.python.org/pypi/setuptools</a>
libapache2-mod-wsgi		Apache 2	<a href="http://packages.ubuntu.com/precise/libapache2-mod-wsgi">http://packages.ubuntu.com/precise/libapache2-mod-wsgi</a>
openDKIM		openDKIM	<a href="http://sourceforge.net/projects/opendkim/files/">http://sourceforge.net/projects/opendkim/files/</a>
opendkim-tools		openDKIM	<a href="http://sourceforge.net/projects/opendkim/files/">http://sourceforge.net/projects/opendkim/files/</a>
postfix		IPL	<a href="http://www.postfix.org/download.html">http://www.postfix.org/download.html</a>
com.beust jcommander, commons-codec, commons-collections, commons-io, commons-lang, httpcomponents httpclient, httpcomponents httpcore		Apache 2	<a href="https://github.com/cbeust/jcommander">https://github.com/cbeust/jcommander</a>
org.json 20070829		JSON.org License	<a href="https://github.com/douglascrockford/JSON-java">https://github.com/douglascrockford/JSON-java</a>



**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
org.slf4j slf4j-api	1.6.6	MIT	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
Key Trustee C-API Libraries			
gpgme		LGPL	<a href="https://www.gnupg.org/(it)/download/index.html#gpgme">https://www.gnupg.org/(it)/download/index.html#gpgme</a>
cURL		MIT	<a href="http://curl.haxx.se/download.html">http://curl.haxx.se/download.html</a>
openssl		OpenSSL	<a href="https://github.com/openssl/openssl">https://github.com/openssl/openssl</a>
cURL		MIT	<a href="http://curl.haxx.se/download.html">http://curl.haxx.se/download.html</a>
openssl		OpenSSL	<a href="https://github.com/openssl/openssl">https://github.com/openssl/openssl</a>
Key HSM			
bcprov-jdk16-1.46		MIT	<a href="http://repo1.maven.org/maven2/org/bouncycastle/bcprov-jdk16/1.46/bcprov-jdk16-1.46-sources.jar">http://repo1.maven.org/maven2/org/bouncycastle/bcprov-jdk16/1.46/bcprov-jdk16-1.46-sources.jar</a>
spring-web		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-web/">https://github.com/spring-projects/spring-framework/tree/master/spring-web/</a>
spring-aop		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-aop/">https://github.com/spring-projects/spring-framework/tree/master/spring-aop/</a>
spring-beans		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-beans/">https://github.com/spring-projects/spring-framework/tree/master/spring-beans/</a>
spring-boot		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot/">https://github.com/spring-projects/spring-boot/tree/master/spring-boot/</a>
spring-boot-autoconfigure		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot-autoconfigure/">https://github.com/spring-projects/spring-boot/tree/master/spring-boot-autoconfigure/</a>
spring-boot-starter		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter/">https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter/</a>
spring-boot-starter-logging		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-logging/">https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-logging/</a>
spring-boot-starter-tomcat		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-tomcat/">https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-tomcat/</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
spring-boot-starter-web		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-web/">https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-web/</a>
spring-core		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-core/">https://github.com/spring-projects/spring-framework/tree/master/spring-core/</a>
spring-expression		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-expression/">https://github.com/spring-projects/spring-framework/tree/master/spring-expression/</a>
spring-context		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-context/">https://github.com/spring-projects/spring-framework/tree/master/spring-context/</a>
spring-web		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-web/">https://github.com/spring-projects/spring-framework/tree/master/spring-web/</a>
spring-webmvc		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-webmvc/">https://github.com/spring-projects/spring-framework/tree/master/spring-webmvc/</a>
aopalliance-1.0		Public	<a href="http://sourceforge.net/projects/aopalliance/">http://sourceforge.net/projects/aopalliance/</a>
hamcrest		MIT	<a href="https://code.google.com/p/hamcrest/downloads/list">https://code.google.com/p/hamcrest/downloads/list</a>
jackson-annotations		Apache 2	<a href="https://github.com/FasterXML/jackson-annotations">https://github.com/FasterXML/jackson-annotations</a>
jackson-core		Apache 2	<a href="https://github.com/FasterXML/jackson-core">https://github.com/FasterXML/jackson-core</a>
jackson-databind		Apache 2	<a href="https://github.com/FasterXML/jackson-databind">https://github.com/FasterXML/jackson-databind</a>
jcl-over-slf4j		EPL	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
jul-to-slf4j		EPL	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
log4j-over-slf4j		EPL	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
logback-classic		EPL	<a href="http://logback.qos.ch/download.html">http://logback.qos.ch/download.html</a>
logback-core		EPL	<a href="http://logback.qos.ch/download.html">http://logback.qos.ch/download.html</a>
slf4j-api		MIT	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
jcl-over-slf4j		MIT	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
jul-to-slf4j		MIT	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
tomcat-embed-core		Apache 2	<a href="http://mvnrepository.com/artifact/org.apache.tomcat.embed">http://mvnrepository.com/artifact/org.apache.tomcat.embed</a>
tomcat-embed-jasper		Apache 2	<a href="http://mvnrepository.com/artifact/org.apache.tomcat.embed">http://mvnrepository.com/artifact/org.apache.tomcat.embed</a>
tomcat-embed-logging-juli		Apache 2	<a href="http://mvnrepository.com/artifact/org.apache.tomcat.embed">http://mvnrepository.com/artifact/org.apache.tomcat.embed</a>
zTrustee Open Source			
python-flask		BSD3	<a href="http://flask.pocoo.org/">http://flask.pocoo.org/</a>
python-magic		MIT	<a href="https://pypi.python.org/pypi/python-magic">https://pypi.python.org/pypi/python-magic</a>
filemagic		Apache	<a href="https://pypi.python.org/pypi/filemagic/1.6">https://pypi.python.org/pypi/filemagic/1.6</a>
python-sqlalchemy		MIT	<a href="http://www.sqlalchemy.org/download.html">http://www.sqlalchemy.org/download.html</a>
python-requests		Apache 2	<a href="https://pypi.python.org/pypi/requests">https://pypi.python.org/pypi/requests</a>
python-pycurl		cURL	<a href="https://pypi.python.org/pypi/pycurl">https://pypi.python.org/pypi/pycurl</a>
python-pycurl		LGPL	<a href="https://pypi.python.org/pypi/pycurl">https://pypi.python.org/pypi/pycurl</a>
python-pycurl		XMIT	<a href="https://pypi.python.org/pypi/pycurl">https://pypi.python.org/pypi/pycurl</a>
python-tz		MIT	<a href="https://pypi.python.org/pypi/pytz/">https://pypi.python.org/pypi/pytz/</a>
python-tz		ZPL	<a href="https://pypi.python.org/pypi/pytz/">https://pypi.python.org/pypi/pytz/</a>
python-openssl		Apache 2	<a href="https://pypi.python.org/pypi/pyOpenSSL">https://pypi.python.org/pypi/pyOpenSSL</a>
python-argparse		Python license	<a href="https://pypi.python.org/pypi/argparse">https://pypi.python.org/pypi/argparse</a>
python-m2crypto		BSD	<a href="https://pypi.python.org/pypi/M2Crypto">https://pypi.python.org/pypi/M2Crypto</a>
uuid-runtime		GPL 2	<a href="https://packages.debian.org/sid/uuid-runtime">https://packages.debian.org/sid/uuid-runtime</a>
openssl		OpenSSL	<a href="https://github.com/openssl/openssl">https://github.com/openssl/openssl</a>
gnupg2   gnupg		GPL 3	<a href="https://www.gnupg.org/download/index.html">https://www.gnupg.org/download/index.html</a>
openssl-blacklist		GPL 3	<a href="https://packages.debian.org/source/sid/openssl">https://packages.debian.org/source/sid/openssl</a>
gnutls-bin		LGPL	<a href="ftp://ftp.gnutls.org/gcrypt/gnutls/">ftp://ftp.gnutls.org/gcrypt/gnutls/</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
python		PSF	<a href="https://www.python.org/downloads/source/">https://www.python.org/downloads/source/</a>
python-psycopg2		LGPL 3	<a href="https://pypi.python.org/pypi/psycopg2">https://pypi.python.org/pypi/psycopg2</a>
pgbouncer		BSD	<a href="http://pgfoundry.org/projects/pgbouncer">http://pgfoundry.org/projects/pgbouncer</a>
apache2		Apache 2	<a href="http://httpd.apache.org/download.cgi">http://httpd.apache.org/download.cgi</a>
libapache2-mod-wsgi		Apache 2	<a href="http://packages.ubuntu.com/precise/libapache2-mod-wsgi">http://packages.ubuntu.com/precise/libapache2-mod-wsgi</a>
libsasl2-2		Carnegie Mellon	<a href="https://launchpad.net/ubuntu/precise/i386/libsasl2-2">https://launchpad.net/ubuntu/precise/i386/libsasl2-2</a>
libsasl2-modules		Carnegie Mellon	<a href="https://launchpad.net/ubuntu/precise/i386/libsasl2-modules">https://launchpad.net/ubuntu/precise/i386/libsasl2-modules</a>
run-one		GPL3	<a href="https://launchpad.net/ubuntu/+source/run-one">https://launchpad.net/ubuntu/+source/run-one</a>
sasl2-bin		Carnegie Mellon	<a href="https://launchpad.net/ubuntu/precise/i386/sasl2-bin">https://launchpad.net/ubuntu/precise/i386/sasl2-bin</a>
openDKIM		openDKIM	<a href="http://sourceforge.net/projects/opendkim/files/">http://sourceforge.net/projects/opendkim/files/</a>
opendkim-tools		openDKIM	<a href="http://sourceforge.net/projects/opendkim/files/">http://sourceforge.net/projects/opendkim/files/</a>
postfix		IPL	<a href="http://www.postfix.org/download.html">http://www.postfix.org/download.html</a>
upstart		GPL2	<a href="http://upstart.ubuntu.com/download.html">http://upstart.ubuntu.com/download.html</a>
zTrustee Java Libraries			
com.beust jcommander, commons-codec, commons-collections, commons-io, commons-lang, httpcomponents httpClient, httpcomponents httpcore		Apache 2	<a href="https://github.com/cbeust/jcommander">https://github.com/cbeust/jcommander</a>
org.json 20070829		JSON.org License	<a href="https://github.com/douglascrockford/JSON-java">https://github.com/douglascrockford/JSON-java</a>
org.slf4j slf4j-api 1.6.6		MIT	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
zTrustee C-API Libraries			
gpgme		LGPL	<a href="https://www.gnupg.org/(it)/download/index.html#gpgme">https://www.gnupg.org/(it)/download/index.html#gpgme</a>
cURL		MIT	<a href="http://curl.haxx.se/download.html">http://curl.haxx.se/download.html</a>
openssl		OpenSSL	<a href="https://github.com/openssl/openssl">https://github.com/openssl/openssl</a>
zHSM			
bcprov-jdk16-1.46		MIT	<a href="http://repo1.maven.org/maven2/org/bouncycastle/bcprov-jdk16/1.46/bcprov-jdk16-1.46-sources.jar">http://repo1.maven.org/maven2/org/bouncycastle/bcprov-jdk16/1.46/bcprov-jdk16-1.46-sources.jar</a>
spring-web		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-web/">https://github.com/spring-projects/spring-framework/tree/master/spring-web/</a>
spring-aop		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-aop/">https://github.com/spring-projects/spring-framework/tree/master/spring-aop/</a>
spring-beans		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-beans/">https://github.com/spring-projects/spring-framework/tree/master/spring-beans/</a>
spring-boot		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot/">https://github.com/spring-projects/spring-boot/tree/master/spring-boot/</a>
spring-boot-autoconfigure		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot-autoconfigure/">https://github.com/spring-projects/spring-boot/tree/master/spring-boot-autoconfigure/</a>
spring-boot-starter		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter">https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter</a>
spring-boot-starter-logging		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-logging">https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-logging</a>
spring-boot-starter-tomcat		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-tomcat/">https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-tomcat/</a>
spring-boot-starter-web		Apache 2	<a href="https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-web">https://github.com/spring-projects/spring-boot/tree/master/spring-boot-starters/spring-boot-starter-web</a>
spring-core		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-core/">https://github.com/spring-projects/spring-framework/tree/master/spring-core/</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

Project	Version	License	Source
spring-expression		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-expression/">https://github.com/spring-projects/spring-framework/tree/master/spring-expression/</a>
spring-context		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-context/">https://github.com/spring-projects/spring-framework/tree/master/spring-context/</a>
spring-web		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-web/">https://github.com/spring-projects/spring-framework/tree/master/spring-web/</a>
spring-webmvc		Apache 2	<a href="https://github.com/spring-projects/spring-framework/tree/master/spring-webmvc/">https://github.com/spring-projects/spring-framework/tree/master/spring-webmvc/</a>
aopalliance-1.0		Public	<a href="http://sourceforge.net/projects/aopalliance/">http://sourceforge.net/projects/aopalliance/</a>
hamcrest		MIT	<a href="https://code.google.com/p/hamcrest/downloads/list">https://code.google.com/p/hamcrest/downloads/list</a>
jackson-annotations		Apache 2	<a href="https://github.com/FasterXML/jackson-annotations">https://github.com/FasterXML/jackson-annotations</a>
jackson-core		Apache 2	<a href="https://github.com/FasterXML/jackson-core">https://github.com/FasterXML/jackson-core</a>
jackson-databind		Apache 2	<a href="https://github.com/FasterXML/jackson-databind">https://github.com/FasterXML/jackson-databind</a>
jcl-over-slf4j		EPL	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
jul-to-slf4j		EPL	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
log4j-over-slf4j		EPL	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
logback-classic		EPL	<a href="http://logback.qos.ch/download.html">http://logback.qos.ch/download.html</a>
logback-core		EPL	<a href="http://logback.qos.ch/download.html">http://logback.qos.ch/download.html</a>
slf4j-api		MIT	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
jcl-over-slf4j		MIT	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
jul-to-slf4j		MIT	<a href="http://www.slf4j.org/download.html">http://www.slf4j.org/download.html</a>
tomcat-embed-core		Apache 2	<a href="http://mvnrepository.com/artifact/org.apache.tomcat.embed">http://mvnrepository.com/artifact/org.apache.tomcat.embed</a>
tomcat-embed-jasper		Apache 2	<a href="http://mvnrepository.com/artifact/org.apache.tomcat.embed">http://mvnrepository.com/artifact/org.apache.tomcat.embed</a>
tomcat-embed-logging-juli		Apache 2	<a href="http://mvnrepository.com/artifact/org.apache.tomcat.embed">http://mvnrepository.com/artifact/org.apache.tomcat.embed</a>

**Table 3-3 (Cont.) Cloudera Key Trustee Third-Party Components**

<b>Project</b>	<b>Version</b>	<b>License</b>	<b>Source</b>
ecj-4.3.1.jar		EPL	<a href="http://mvnrepository.com/artifact/org.eclipse.jdt.core.compiler/ecj">http://mvnrepository.com/artifact/org.eclipse.jdt.core.compiler/ecj</a>





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