

Oracle® Exadata Database Machine Licensing Information User's Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Preface

This document, which is part of the Program Documentation under the terms of your Oracle licensing agreement, is intended to help you understand the features, functionality, and options available for Oracle Programs.

If you have a question about your licensing needs, contact your Oracle sales representative, contact the License Management Services representative at <http://www.oracle.com/us/corporate/license-management-services/index.html>, or refer to the resources listed in “Related Documents” for more information.

- [Audience](#)
- [Documentation Accessibility](#)
- [Diversity and Inclusion](#)
- [Related Documents](#)
- [Conventions](#)

Audience

This book is intended for all purchasers of Oracle Exadata Database Machine.

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

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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Documents

For more information, see the following Oracle resources:

- *Oracle Exadata System Software User's Guide*
- *Oracle Exadata Database Machine System Overview*
- *Oracle Exadata Database Machine Installation and Configuration Guide*
- *Oracle Exadata Database Machine Maintenance Guide*
- *Oracle Exadata Database Machine Extending and Multi-Rack Cabling Guide*
- Licensing Information

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Licensing Information

The Oracle Exadata System Software license includes the use of Exadata Hybrid Columnar Compression along with other features documented in *Oracle Exadata System Software User's Guide*.

Oracle Advanced Compression Option must be licensed to enable flash cache compression. Refer to *Oracle Database Licensing Information User Manual* for additional information.

Oracle Database is licensed separately. Refer to *Oracle Database Licensing Information User Manual* for additional information.

Related Topics

- *Oracle Exadata System Software User's Guide*
- *Oracle Database Licensing Information User Manual*

2

Restricted Licensing

This chapter contains information about restricted licensing options for Oracle Exadata Database Machine.



Note:

The following options are complimentary and can be used in conjunction with each other.

- **Capacity-On-Demand**
You can reduce the number of active cores on your Exadata database servers to lower the initial software licensing cost, but this does not change the hardware cost.
- **Trusted Partitions**
Trusted Partitions allows you to use Oracle VM Servers or Oracle Linux KVM Servers to limit the required number of Oracle processor software licenses.

2.1 Capacity-On-Demand

You can reduce the number of active cores on your Exadata database servers to lower the initial software licensing cost, but this does not change the hardware cost.

Capacity-on-demand (CoD) refers to an Exadata database server that is installed with a subset of its cores disabled so that the database software license cost can be reduced. The reduction is implemented during software installation using Oracle Exadata Deployment Assistant (OEDA). The number of active cores can be increased at a later time, when more capacity is needed. Capacity-on-demand does not apply to Oracle Exadata storage server cores.

Capacity-on-demand may only be used to decrease the number of active cores during initial installation. After initial installation, the active core count may be increased, but not decreased. The only exception is when you are adding database servers to an Exadata configuration, and you are redistributing the active cores in order to maintain a balanced cluster configuration. In that case the total number of active cores across all database servers cannot decrease and the end state must comply with the capacity-on-demand restrictions.

For example, if you have an X8M-2 system with 96 active cores on two database servers and you add a third database server with only 24 active cores (for a new total of 120 cores), then you can distribute the 120 active cores across all three database servers (40 active cores on each database server). This requires reducing the active cores from 48 to 40 on each of the first two database servers, and installing the new database server with 40 active cores. The same number of active cores is recommended for all database servers in a cluster.

When you use capacity-on-demand in conjunction with virtual machines (VMs), the VM server (OVM Management Domain [Dom0] or KVM Host) reserves one core on each physical CPU. For example, on an X8M-2 database server with two physical CPUs and 32 active

cores, a maximum of 30 cores can be used by the VMs. The CPU cores reserved for the VM server do not require Oracle Database licenses.

It is your responsibility to acquire the required software licenses. For steps on how to increase the number of active cores, refer to *Oracle Exadata Database Machine Maintenance Guide*.

 **Tip:**

When you run Oracle Exadata Deployment Assistant (OEDA) to perform initial configuration of your Exadata system, you have to specify whether or not you are using capacity-on-demand, and if so, the number of cores that you want to activate on your system. Because it is not possible to decrease the number of active cores after installation, other than the exception case mentioned above, it is recommended that you review the licensing plan to make sure you specify the correct number of active cores in OEDA that you intend to license.

- [Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine](#)
Capacity-on-demand is available for Exadata Database Machine, starting with X4-2 systems.
- [Monitoring Tool Requirement](#)
To use the capacity-on-demand feature, the Exadata system must be running an approved monitoring tool so that the number of active cores can be validated.

2.1.1 Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine

Capacity-on-demand is available for Exadata Database Machine, starting with X4-2 systems.

Note the following restrictions regarding capacity-on-demand:

- For X5-2, X6-2, X7-2, X8-2, X8M-2, and X9M-2 systems, the minimum number of cores that must be enabled is 14 per database server. Note that for Eighth Rack configurations the minimum is 8 cores per database server.
- For X4-2 systems, the minimum number of cores that must be enabled is 12 per database server. The X4-2 Eighth Rack configuration cannot use capacity-on-demand.
- For X5-8, X6-8, X7-8, X8-8, X8M-8, and X9M-8 systems, the minimum number of cores that must be enabled is 56 per database server.
- For X4-8 systems, the minimum number of cores that must be enabled is 48 per database server.
- Additional cores are increased in 2-core increments per database server on X4-2 and later two-socket systems, and in 8-core increments on X4-8 and later eight-socket systems.
- Within the same Exadata system, each database server can be licensed to a different number of cores, but each server in the same cluster should have the

same number of active cores to accommodate a cluster fail over without significant performance impact.

Related Topics

- [Increasing the Number of Active Cores on Database Servers](#)

2.1.2 Monitoring Tool Requirement

To use the capacity-on-demand feature, the Exadata system must be running an approved monitoring tool so that the number of active cores can be validated.

The monitoring tool must be installed within three months of installation. To meet this requirement, you can do any of the following:

- Purchase the Oracle technical support services necessary to enable eligibility for Oracle Platinum Services, and then continuously maintain those services.
- Install, and then continuously utilize Oracle Configuration Manager in connected mode.
- Install, and then continuously utilize Oracle Enterprise Manager in either connected or disconnected mode.

For running Oracle Enterprise Manager in disconnected mode, the base installation collects appropriate information from the server system, including the number of active cores. No add-on packs need to be purchased. The rules for using Oracle Enterprise Manager are the same as those that apply to Oracle Trusted Partitions. This is the only method that allows for disconnected mode.

Related Topics

- [Oracle Platinum Services web page](#)
- [Oracle Platinum Services Policies](#)
- [Oracle Configuration Manager Installation and Administration Guide](#)
- [Oracle Configuration Manager Quick Start Guide \(My Oracle Support Doc ID 728988.5\)](#)
- [Oracle Hardware and Systems Support policies](#)
- [Oracle Exadata Technical Support policies](#)
- [Trusted Partitions](#)

Trusted Partitions allows you to use Oracle VM Servers or Oracle Linux KVM Servers to limit the required number of Oracle processor software licenses.

2.2 Trusted Partitions

Trusted Partitions allows you to use Oracle VM Servers or Oracle Linux KVM Servers to limit the required number of Oracle processor software licenses.

Trusted Partitions are only supported on 2-socket Exadata database servers. Because virtualization is not supported on 8-socket Oracle Exadata database servers, Trusted Partition licensing is not available on those servers.

When you use Trusted Partitions any Oracle software running in a VM only needs to be licensed for the number of cores assigned to that VM, subject to a minimum core requirement equal to Capacity on Demand. For example, consider an X8M-2 Quarter Rack database server that runs two databases, each in a 12-core VM, for a total of 24 licensed cores (the minimum is 14). Both databases also run options for Oracle Real Application Clusters (Oracle

RAC) and Oracle Partitioning. The second database also runs the Oracle Advanced Security option. The required licensing must include 24 cores (12 processor licenses) of Oracle Database Enterprise Edition, Oracle RAC and Oracle Partitioning, and 12 cores (6 processor licenses) of Oracle Advanced Security option.

Oracle's Trusted Partitioning policy requires Oracle Enterprise Manager.

For purposes of licensing Oracle programs in a Trusted Partition, note the following:

- Two virtual CPUs (vCPUs) are counted as equivalent to a physical core.
- With the core factor of 0.5, one Oracle program processor license allows you to use 2 physical cores.

To use Trusted Partition on Oracle Exadata systems, you must be running Oracle Exadata System Software 12.1.2.1.0 or later.

The following table shows the licensing requirements and examples for Oracle Trusted Partitions for Oracle Exadata systems.

Oracle Exadata System	Oracle Trusted Partition Licensing Requirements
X6-2 and later two-socket servers	<p>Minimum number of cores that must be licensed for an Eighth Rack system: 8 physical cores per compute node</p> <p>Minimum number of cores that must be licensed for all other configurations: 14 physical cores per compute node</p> <p>Example:</p> <p>Oracle Exadata Database Machine X8M-2 Quarter Rack has 2 compute nodes, each with two 24 core processors, for a total of 48 licensable physical cores per compute node.</p> <p>At least 7 Oracle software processor licenses (equivalent to 14 physical cores based on the current core factor of 0.5) per compute node must be licensed. Since the quarter rack has 2 compute nodes, this means at least 14 Oracle software processor licenses must be licensed.</p> <p>28 cores allow the customer to run 56 virtual CPUs (vCPUs).</p>
X2-2 to X5-2	<p>Minimum number of cores that must be licensed: 40% of the physical cores</p> <p>Example:</p> <p>Oracle Exadata Database Machine X5-2 Quarter Rack has 4 processors with 18 cores each, for a total of 72 licensable physical cores.</p> <p>At least 14 Oracle software processor licenses (equivalent to 28 physical cores based on the current core factor of 0.5) must be licensed.</p> <p>28 cores allow the customer to run 56 vCPUs.</p>

Related Topics

- [How to configure Trusted Partitioning. \(My Oracle Support Doc ID 2814712.1\)](#)
- [Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine](#)
Capacity-on-demand is available for Exadata Database Machine, starting with X4-2 systems.
- [Oracle Partitioning Policy](#)

3

Third-Party Product Licenses

This chapter contains the licenses for the third-party products that are included with Oracle Exadata Database Machine.

- [Third-Party Product Licenses for Oracle Exadata System Software](#)
This section contains the licenses for the third-party products included with Oracle Exadata System Software.
- [Third-Party Product Licenses for Oracle Database](#)
- [Third-Party Product Licenses for Oracle Exadata Database Machine and Storage Expansion Rack Hardware](#)
- [Third-Party Product Licenses for Java](#)

3.1 Third-Party Product Licenses for Oracle Exadata System Software

This section contains the licenses for the third-party products included with Oracle Exadata System Software.

- [The Apache Software License, Version 1.1](#)
- [Bsafe \(Bsafe Crypto-C.\)](#)
- [Byacc, v. 1.15 and earlier](#)
- [Byte Code Engineering Library \(BCEL\) v. 5](#)
- [Cryptix](#)
- [Document Object Model \(DOM\) v. Level 3](#)
- [Expat, v 2.2.0](#)
- [FastCGI Developer's Kit, v. 2.4.2 \(Open Market, Inc.\)](#)
- [InfoZip, v. 5.51](#)
- [Intel Integrated Performance Primitives Redistributables, v. 2020.0.166 \(Intel\)](#)
- [IPMItool, v1.8.15](#)
- [isa-l, v. 2.28 \(Intel\)](#)
- [jackson-annotations, v. 2.14.0-rc1 \(FasterXML, LLC\)](#)
- [jackson-annotations, v. 2.13.1 \(FasterXML, LLC\)](#)
- [jackson-annotations, v. 2.11.2 \(FasterXML, LLC\)](#)
- [jackson-core, v. 2.14.0-rc1 \(FasterXML, LLC\)](#)
- [jackson-core, v. 2.13.1 \(FasterXML, LLC\)](#)
- [jackson-core, v. 2.11.2 \(FasterXML, LLC\)](#)
- [jackson-databind, v. 2.14.0-rc1 \(FasterXML, LLC\)](#)

- [jackson-databind, v. 2.13.2.2 \(FasterXML, LLC\)](#)
- [jackson-databind, v. 2.11.2 \(FasterXML, LLC\)](#)
- [jackson-dataformat-xml, v. 2.10.2 and v. 2.10.3 \(FasterXML, LLC\)](#)
- [jackson-jaxrs-base, v. 2.10.3 \(FasterXML, LLC\)](#)
- [jackson-jaxrs-json-provider, v. 2.10.3 \(FasterXML, LLC\)](#)
- [Jakarta Bean Validation API, v. 2.0.2 \(Eclipse Foundation\)](#)
- [Jakarta Mail, v. 1.6.7 \(Oracle\)](#)
- [Jakarta Mail, v. 1.6.5 \(Oracle\)](#)
- [JavaScript Extension Toolkit \(JET\), v. 13.1.0 \(Oracle\)](#)
- [JavaScript Extension Toolkit \(JET\), v. 11.1.5 \(Oracle\)](#)
- [JavaScript Extension Toolkit \(JET\), v. 11.0.0 \(Oracle\)](#)
- [JavaScript Extension Toolkit \(JET\), v. 9.2.0 \(Oracle\)](#)
- [JavaScript Extension Toolkit \(JET\), v. 8.3.0 \(Oracle\)](#)
- [JavaScript Extension Toolkit \(JET\), v. 7.2.0 \(Oracle\)](#)
- [JavaScript Extension Toolkit \(JET\) 6.2.0 License](#)
- [JavaScript Extension Toolkit \(JET\) v. 5.0.0 and 5.2.0](#)
- [JavaScript Extension Toolkit \(JET\) v. 3.0.0, 3.1.0](#)
- [JavaScript Extension Toolkit \(JET\) v. 2.0.2, 2.1.0, 2.2.0](#)
- [Jetty, v. 9.4.49.V20220914 \(Eclipse Foundation\)](#)
- [Jetty, v. 9.4.48.v20220622 \(Eclipse Foundation\)](#)
- [Jetty, v. 9.4.46.v20220331 \(Eclipse Foundation\)](#)
- [Jetty, v. 9.4.45.v20220203 \(Eclipse Foundation\)](#)
- [Jetty, v. 9.4.44.v20210927 \(Eclipse Foundation\)](#)
- [Jetty, v. 9.4.43.V20210629 \(Eclipse Foundation\)](#)
- [Jetty, v. 9.4.42.v20210604 \(Eclipse Foundation\)](#)
- [Jetty, v. 9.4.40.v20210413 \(Eclipse Foundation\)](#)
- [Jetty, v. 9.4.39.v20210325 \(Eclipse Foundation\)](#)
- [Jetty, v. 9.4.38.v20210224 \(Eclipse Foundation\)](#)
- [Jetty, v. 9.4.26 \(Eclipse Foundation\)](#)
- [JSch, v. 0.1.55 \(JCraft\)](#)
- [JSch, v. 0.1.54](#)
- [JSch, v. 0.1.50 and v. 0.1.44](#)
- [JLex: A Lexical Analyzer Generator for Java v. 1.2.5](#)
- [JLine, v. 3.21.0 \(Marc Prud'hommeaux\)](#)
- [JLine, v. 3.14.1 \(Marc Prud'hommeaux\)](#)
- [JLine, v. 3.14.0 \(Marc Prud'hommeaux\)](#)
- [JLine, v. 3.12.1 \(Marc Prud'hommeaux\)](#)

- JLine, v. 3.11.0
- JLine, v. 2.13
- jQuery, v. 3.5.1 (JS Foundation and other contributors)
- jQuery, v. 3.1.0, 3.1.1
- jQuery, v. 2.1.3
- jQuery Timepicker, v. 1.13.11 (Jon Thornton)
- jQuery UI, v. 1.12.1 e7a10c7 (jQuery)
- jQuery UI, v. 1.12.0, 1.12.1
- jQuery UI, v. 1.11.4
- keepalived, v. 1.3.5-19 (Alexandre Cassen)
- libuuid, v. 2.23.2-65.0.1 (Theodore Ts'o)
- Mesa 3-D graphics library v. 5
- Micro Edition Suite (MES)
- MiGLayout, v. 3.7.1, v. 5.2, and v. 5.3 (MiG InfoCom AB)
- Mina SSHD, v. 2.8.0 (The Apache Software Foundation)
- Mina SSHD, v. 2.7.0 (The Apache Software Foundation)
- Mina SSHD, v. 2.5.1 (The Apache Software Foundation)
- nginx, v. 1.18.0-3.0.1 (Igor Sysoev; Nginx)
- ngx, v. 1.17.9 (Ngix)
- OpenSSL, v. 1.0.2k-25 (OpenSSL Project)
- Oracle Linux
- Ponder, v. 2.1.1 (Tegesoft)
- rapidxml, v. 1.13 (Boost Software)
- Rapid JSON, v. 1.1.0-47b837e (Milo Yip)
- rdma-core, v. 34.0-1.0.5 (Kernel.org)
- rdma-core, v. 17.1-1.0.7 (Kernel.org)
- Regexp, Regular Expression Package v. 1.2
- SAX v. 2.0.1
- Selenium, v. 3.14
- Selenium, v. 3.4.0
- SNMP4J, v. 2.8.14 (SNMP4J.org)
- SNMP4J, v. 2.8.7 (SNMP4J.org)
- SNMP4J, v. 2.8.4 (SNMP4J.org)
- SNMP4J, v. 2.6.2 and 2.7.0 (SNMP4J.org)
- snmp4j-agent, v. 2.5.8 and Prior Releases
- UnZip, v. 6.0-24 (Info-ZIP)
- W3C XML Schema Test Collection v. 1.16.2

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3.1.2 Bsafe (Bsafe Crypto-C.)

Vendor: RSA

Version: 6.3.2.2

3.1.3 Byacc, v. 1.15 and earlier

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3.1.7 Expat, v 2.2.0

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3.1.9 InfoZip, v. 5.51

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3.1.10 Intel Integrated Performance Primitives Redistributables, v. 2020.0.166 (Intel)

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

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   Jean-loup Gailly          Mark Adler
   jloup@gzip.org           madler@alumni.caltech.edu

   The data format used by the zlib library is described by RFCs (Request for
   Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
   (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

```
/* Adler32.c -- compute the Adler-32 checksum of a data stream
 * Copyright (C) 1995-2011, 2016 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

```
/* CRC32.c -- compute the CRC-32 of a data stream
 * Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
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 *
 * Thanks to Rodney Brown for his contribution of faster
 * CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
 * tables for updating the shift register in one step with three exclusive-ors
 * instead of four steps with four exclusive-ors.  This results in about a
 * factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
 */
```

```
/* deflate.c -- compress data using the deflation algorithm
 * Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */
```

```
/* inflate.c -- zlib decompression
 * Copyright (C) 1995-2016 Mark Adler
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 */
```

3.1.11 IPMItool, v1.8.15

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3.1.12 isa-l, v. 2.28 (Intel)

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3.1.13 jackson-annotations, v. 2.14.0-rc1 (FasterXML, LLC)

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3.1.14 jackson-annotations, v. 2.13.1 (FasterXML, LLC)

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3.1.15 jackson-annotations, v. 2.11.2 (FasterXML, LLC)

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3.1.16 jackson-core, v. 2.14.0-rc1 (FasterXML, LLC)

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3.1.18 jackson-core, v. 2.11.2 (FasterXML, LLC)

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3.1.19 jackson-databind, v. 2.14.0-rc1 (FasterXML, LLC)

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```
[INFO] --- maven-dependency-plugin:3.1.2:tree (default-cli) @ jackson-databind ---
[INFO] com.fasterxml.jackson.core:jackson-databind:bundle:2.13.2.2
[INFO] +- com.fasterxml.jackson.core:jackson-annotations:jar:2.13.2:compile
[INFO] +- com.fasterxml.jackson.core:jackson-core:jar:2.13.2:compile
[INFO] +- org.powermock:powermock-core:jar:2.0.0:test
[INFO] | +- org.powermock:powermock-reflect:jar:2.0.0:test
[INFO] | | \- org.objenesis:objenesis:jar:3.0.1:test
[INFO] | +- org.javassist:javassist:jar:3.24.0-GA:test
[INFO] | +- net.bytebuddy:byte-buddy:jar:1.9.3:test
[INFO] | \- net.bytebuddy:byte-buddy-agent:jar:1.9.3:test
[INFO] +- org.powermock:powermock-module-junit4:jar:2.0.0:test
[INFO] | +- org.powermock:powermock-module-junit4-common:jar:2.0.0:test
[INFO] | \- org.hamcrest:hamcrest-core:jar:1.3:test
[INFO] +- org.powermock:powermock-api-mockito2:jar:2.0.0:test
[INFO] | +- org.powermock:powermock-api-support:jar:2.0.0:test
[INFO] | \- org.mockito:mockito-core:jar:2.23.0:test
[INFO] +- javax.measure:jsr-275:jar:0.9.1:test
[INFO] \- junit:junit:jar:4.13.1:test
```

3.1.21 jackson-databind, v. 2.11.2 (FasterXML, LLC)

TOP LEVEL COMPONENT NAMES: com.fasterxml.jackson.core:jackson-databind
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3.1.22 jackson-dataformat-xml, v. 2.10.2 and v. 2.10.3 (FasterXML, LLC)

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Knockout Fast Foreach

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3.1.29 JavaScript Extension Toolkit (JET), v. 11.1.5 (Oracle)

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expression-eval - v2.0.0

<https://github.com/donmccurdy/expression-eval>

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jsep - v0.3.4
<https://github.com/sony/jsep>
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HammerJS - v2.0.8 - 2016-04-22
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RequireJS il8n 2.0.2
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jQuery UI - v1.12.1 - 2015-03-18
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JS Signals
Author: Miller Medeiros
Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS text 2.0.15
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RequireJS 2.3.6

<http://github.com/jrburke/requirejs>

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Knockout JavaScript library v3.5.1

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Preact - v10.5.13

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3.1.30 JavaScript Extension Toolkit (JET), v. 11.0.0 (Oracle)

Oracle JET 11.0.0

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expression-eval - v2.0.0

<https://github.com/donmccurdy/expression-eval>
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jsep - v0.3.4
<https://github.com/sony/jsep>
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HammerJS - v2.0.8 - 2016-04-22
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Normalize.scss

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RequireJS i18n 2.0.2

<http://github.com/requirejs/i18n> for details

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jQuery UI - v1.12.1 - 2015-03-18
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jQuery JavaScript Library v3.6.0

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JS Signals <<http://millermedeiros.github.com/js-signals/>>

Author: Miller Medeiros

Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS text 2.0.15
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RequireJS 2.3.6
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Preact - v10.5.13

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3.1.31 JavaScript Extension Toolkit (JET), v. 9.2.0 (Oracle)

Oracle JET 9.2.0

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expression-eval - v2.0.0
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jsep - v0.3.4
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petit-dom - v0.2.2

<https://github.com/yelouafi/petit-dom>

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webcomponents/custom-elements - v1.1.2

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require-css - v0.1.10
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Hammer.JS - v2.0.8 - 2016-04-22
<http://hammerjs.github.io/>
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Normalize.scss

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RequireJS i18n 2.0.2

<http://github.com/requirejs/i18n> for details

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ES6-Promise

<https://github.com/stefanpenner/es6-promise>

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jQuery UI - v1.12.1 - 2015-03-18

<http://jqueryui.com>

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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jQuery JavaScript Library v3.5.1

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JS Signals

Author: Miller Medeiros

Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS text 2.0.15

<http://github.com/requirejs/text>

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RequireJS 2.3.6
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* Update: 2014-03-24 13:14
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* http://jqueryui.com
* Includes: core.js, widget.js, mouse.js, position.js, draggable.js,
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/*!
* jQuery JavaScript Library v2.2.3
* http://jquery.com/
*
* Includes Sizzle.js
```

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3.1.36 JavaScript Extension Toolkit (JET) v. 3.0.0, 3.1.0

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=== Knockout.js 3.4.0 ===

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=== Knockout Mapping plugin v2.4.1 ===

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=== knockout-amd-helpers 0.7.3 ===

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=== Normalize.css ===

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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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=== Select2.js ===

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=== ES6-Promise v1.0.0 ===

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=== jQuery UI - v1.11.4 ===

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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/*! Hammer.JS - v2.0.4 - 2014-09-28

* <http://hammerjs.github.io/>

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3.1.37 JavaScript Extension Toolkit (JET) v. 2.0.2, 2.1.0, 2.2.0

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=== Knockout.js 3.4.0 ===

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=== Knockout Mapping plugin v2.4.1 ===

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=== knockout-amd-helpers 0.7.3 ===

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=== Normalize.css ===

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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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=== ES6-Promise v1.0.0 ===

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=== jQuery UI - v1.11.4 ===

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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=== RequireJS text 2.0.12 ===

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/*! Hammer.JS - v2.0.4 - 2014-09-28

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*

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* java.sun.security.ssl

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* org.ow2.asm:asm

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* org.apache.tomcat:tomcat-jasper
* org.apache.tomcat:tomcat-juli
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* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-api
* org.apache.tomcat:tomcat-util-scan
* org.apache.tomcat:tomcat-util
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* org.apache.tomcat:tomcat-jasper-el
* org.apache.tomcat:tomcat-el-api

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* org.apache.tomcat:tomcat-el-api
* org.apache.tomcat:tomcat-jasper-el
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* org.apache.tomcat:tomcat-util-scan
* org.apache.tomcat:tomcat-util
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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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3.1.49 JSch, v. 0.1.55 (JCraft)

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3.1.50 JSch, v. 0.1.54

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3.1.51 JSch, v. 0.1.50 and v. 0.1.44

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3.1.53 JLine, v. 3.21.0 (Marc Prud'hommeaux)

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4th Party Dependency

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org.fusesource.jansi version 1.18
 org.apache.sshd 2.1 to 2.4
 org.apache.felix.gogo.runtime 1.1.2
 org.apache.felix.gogo.jline 1.1.4

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3.1.54 JLine, v. 3.14.1 (Marc Prud'hommeaux)

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3.1.55 JLine, v. 3.14.0 (Marc Prud'hommeaux)

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org.fusesource.jansi version 1.18
org.apache.sshd 2.1 to 2.4
org.apache.felix.gogo.runtime 1.1.2
org.apache.felix.gogo.jline 1.1.4

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3.1.56 JLine, v. 3.12.1 (Marc Prud'hommeaux)

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4th Party Dependency

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org.fusesource.jansi version 1.17.1

org.apache.sshd 2.1 to 3

org.apache.felix.gogo.runtime 1.1.2

org.apache.felix.gogo.jline 1.1.4

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3.1.58 JLine, v. 2.13

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3.1.60 jQuery, v. 3.1.0, 3.1.1

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3.1.62 jQuery Timepicker, v. 1.13.11 (Jon Thornton)

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3.1.64 jQuery UI, v. 1.12.0, 1.12.1

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3.1.66 keepalived, v. 1.3.5-19 (Alexandre Cassen)

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=====
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style=social&label=Follow)] (https://twitter.com/keepalived)
The main goal of this project is to provide simple and robust facilities for
loadbalancing and high-availability to Linux system and Linux based
infrastructures. Loadbalancing framework relies on well-known and widely
used Linux Virtual Server (IPVS) kernel module providing Layer4 loadbalancing.
Keepalived implements a set of checkers to dynamically and adaptively maintain
and manage loadbalanced server pool according their health. On the other hand
high-availability is achieved by the Virtual Router Redundancy Protocol (VRRP).
VRRP is a fundamental brick for router failover. In addition, Keepalived
implements a set of hooks to the VRRP finite state machine providing low-level
and high-speed protocol interactions. In order to offer fastest network
failure detection, Keepalived implements the Bidirectional Forwarding Detection
(BFD) protocol. VRRP state transition can take into account BFD hints to drive
fast state transition. Keepalived frameworks can be used independently or all
together to provide resilient infrastructures.
Keepalived implementation is based on an I/O multiplexer to handle a
strong multi-threading framework. All the events process use this I/O
multiplexer.
To build keepalived from the git source tree, you will need to have
autoconf, automake and various libraries installed. See the INSTALL
file for details of what needs to be installed and what needs to be
executed before building keepalived.
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*
* Part: DNS checker
*

```

```

* Author: Masanobu Yasui, <yasui-m@klab.com>
* Masaya Yamamoto, <yamamoto-ma@klab.com>
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3.1.67 libuuid, v. 2.23.2-65.0.1 (Theodore Ts'o)

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3.1.68 Mesa 3-D graphics library v. 5

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GLX driver include/GL/glx.h Brian Paul Mesa

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3.1.79 rapidxml, v. 1.13 (Boost Software)

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3.1.80 Rapid JSON, v. 1.1.0-47b837e (Milo Yip)

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3.1.81 rdma-core, v. 34.0-1.0.5 (Kernel.org)

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3.1.82 rdma-core, v. 17.1-1.0.7 (Kernel.org)

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3.1.83 Regexp, Regular Expression Package v. 1.2

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3.1.85 Selenium, v. 3.14

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3.1.87 SNMP4J, v. 2.8.14 (SNMP4J.org)

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3.1.91 snmp4j-agent, v. 2.5.8 and Prior Releases

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3.1.92 UnZip, v. 6.0-24 (Info-ZIP)

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- [Third-Party Product Licenses for Exadata Storage Server Hardware](#)
- [Third-Party Product Licenses for Sun Datacenter InfiniBand Switch 36 Software](#)
- [Third-Party Product Licenses for Oracle Flash Accelerator Cards](#)

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