

Oracle® Exadata

Licensing Information User's Guide



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Contents

Preface

Audience	i
Related Documents	i

1 Licensing Information

2 Restricted Licensing

2.1 Capacity-On-Demand	1
2.1.1 Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine	2
2.1.2 Monitoring Tool Requirement	3
2.2 Trusted Partitions	3

3 Third-Party Product Licenses

3.1 Third-Party Product Licenses for Oracle Exadata System Software	1
3.1.1 angus-mail - Oracle	3
3.1.2 The Apache Software License, Version 1.1	27
3.1.3 Bsafe (Bsafe Crypto-C.)	28
3.1.4 Berkeley Yacc (byacc)	28
3.1.5 Byte Code Engineering Library (BCEL)	28
3.1.6 Cryptix	29
3.1.7 Document Object Model (DOM)	30
3.1.8 esmi-ib-library - AMD	31
3.1.9 Expat	32
3.1.10 FastCGI Developer's Kit - Open Market, Inc. (Oracle Built)	32
3.1.11 InfoZip	33
3.1.12 Intel Integrated Performance Primitives Redistributables	34
3.1.13 IPMItool	35
3.1.14 isa-l	36
3.1.15 jackson-annotations - FasterXML, LLC	36
3.1.16 jackson-core - FasterXML, LLC	40
3.1.17 jackson-databind - FasterXML, LLC	44

3.1.18	jackson-dataformat-xml - FasterXML, LLC	50
3.1.19	jackson-jaxrs-base - FasterXML, LLC	56
3.1.20	jackson-jaxrs-json-provider - FasterXML, LLC	62
3.1.21	Jakarta Activation API (JAF) - Eclipse Foundation	69
3.1.22	Jakarta Bean Validation API - Eclipse Foundation	80
3.1.23	Jakarta Mail - Eclipse Foundation	84
3.1.24	Jakarta XML Binding RI (JAXB) - Eclipse Foundation	99
3.1.25	JavaScript Extension Toolkit (JET) - Oracle	112
3.1.26	Jetty - Eclipse Foundation	125
3.1.27	JSch - JCraft	135
3.1.28	JLex: A Lexical Analyzer Generator for Java	136
3.1.29	JLine - Marc Prud'hommeaux	136
3.1.30	jQuery - JS Foundation and other contributors	152
3.1.31	jQuery Timepicker - Jon Thornton	153
3.1.32	jQuery UI - jQuery Foundation and other contributors	154
3.1.33	keepalived - Alexandre Cassen	155
3.1.34	libuuid - Theodore Ts'o	165
3.1.35	Mesa 3-D graphics library	166
3.1.36	Micro Edition Suite (MES)	167
3.1.37	MiGLayout - MiG InfoCom AB	167
3.1.38	Mina SSHD - The Apache Software Foundation	167
3.1.39	Mina SSHD-common - The Apache Software Foundation	172
3.1.40	Mina SSHD-core - The Apache Software Foundation	185
3.1.41	Mina SSHD-scp - The Apache Software Foundation	193
3.1.42	Mina SSHD-sftp - The Apache Software Foundation	200
3.1.43	Nginx - Nginx	207
3.1.44	OpenSSL - OpenSSL Project	212
3.1.45	Oracle Linux	217
3.1.46	Ponder - Tegesoft	219
3.1.47	Python - Python Software Foundation	219
3.1.48	rapidxml - Boost Software	234
3.1.49	Rapid JSON - Milo Yip	235
3.1.50	rdma-core - Kernel.org	237
3.1.51	Regexp, Regular Expression Package	251
3.1.52	SAX	251
3.1.53	Selenium	252
3.1.54	SNMP4J - SNMP4J.org	252
3.1.55	snmp4j-agent	256
3.1.56	UnZip - Info-ZIP	259
3.1.57	W3C XML Schema Test Collection	260
3.2	Third-Party Product Licenses for Oracle Database	261

3.3	Third-Party Product Licenses for Oracle Exadata Database Machine and Storage Expansion Rack Hardware	261
3.3.1	Third-Party Product Licenses for Exadata Database Server Hardware	261
3.3.2	Third-Party Product Licenses for Exadata Storage Server Hardware	262
3.3.3	Third-Party Product Licenses for Sun Datacenter InfiniBand Switch 36 Software	263
3.3.4	Third-Party Product Licenses for Oracle Flash Accelerator Cards	263
3.4	Third-Party Product Licenses for Java	263
3.5	Third-Party Product Licenses for SQLcl	263

Preface

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- [Audience](#)
- [Related Documents](#)

Audience

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

Related Documents

For more information, see the following Oracle resources:

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

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 Database and options are licensed separately. Refer to [Oracle AI Database Licensing Information User Manual](#) for additional information.
- Oracle Database In-Memory Option must be licensed to enable the following Exadata features: .
 - [In-Memory Columnar Caching on Storage Servers](#)
 - [In-Memory Columnar Speed JSON Query](#)
 - [Transparent Cross-Tier Scan](#)
- Oracle Exadata Storage Server Extended (XT) may be used for archival storage purposes without licensing Oracle Exadata System Software. When using XT storage without Oracle Exadata System Software:
 - Exadata Hybrid Columnar Compression (HCC) is enabled.
 - Other smart storage features, such as Exadata Smart Scan, are disabled.Optionally, you can procure Oracle Exadata System Software licenses and enable Exadata smart storage features on XT servers. See also [Enabling Smart Scan on Exadata Extended \(XT\) Storage Servers](#).
- Oracle Exadata System Software is bundled with Oracle SQLcl (SQL Developer Command Line), a command-line interface for Oracle AI Database. SQLcl is licensed solely under the [Oracle Free Use Terms and Conditions \(FUTC\)](#).

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 allow you to use virtual machines (VMs) to limit the required number of processor licenses for Oracle software on Oracle Exadata Database Machine.

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. During initial system configuration, you can set the number of active cores (within applicable limits) using Oracle Exadata Deployment Assistant (OEDA). The number of active cores can be increased at a later time, when more capacity is needed. However, after initial installation, the total active core count may only be increased, but not decreased. Capacity-on-demand does not apply to Oracle Exadata storage server cores.

After initial installation active cores may only be deactivated when you are adding database servers to an Exadata configuration and 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, consider an Exadata X10M system with 96 active cores on two database servers. If you want to add a third database server and increase the total core count to 120 cores, then you can reduce the number of active cores from 48 to 40 on each of the first two database servers, and install the new database server with 40 active cores.

Note

Oracle recommends that all database servers in a cluster have the same number of active cores.

If you use capacity-on-demand in conjunction with VMs, the VM server (OVM Management Domain [Dom0] or KVM Host) reserves one core on each physical CPU. For example, on an Exadata X9M-2 database server with two physical CPUs and a total of 64 CPU cores, a maximum of 62 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 must 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 total number of active cores after installation, it is recommended that you review your licensing plan to ensure that you specify the correct number of active cores that you intend to license and use.

- [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 all Eighth Rack configurations, the minimum number of cores that must be enabled is 8 per database server.
- For X11M-Z systems the minimum is 8 cores per database server.
- For other X5-2, X6-2, X7-2, X8-2, X8M-2, X9M-2, X10M, and X11M systems, the minimum number of cores that must be enabled is 14 per database server.
- 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 X4-2 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 X4-8 systems, the minimum number of cores that must be enabled is 48 per database server.
- Additional cores can be licensed and enabled in 2-core increments on two-socket servers (X4-2 and later), and in 8-core increments on eight-socket servers (X4-8 and later).
- 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.

- CPU oversubscription for KVM guests is not permitted when capacity-on-demand is used on Exadata X11M or X10M KVM hosts. CPU oversubscription is only allowed on Exadata X11M or X10M when all CPU cores are active on the KVM hosts.

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 Enterprise Manager.

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.

Related Topics

- [Oracle Platinum Services web page](#)
- [Oracle Platinum Services Policies](#)
- [Oracle Hardware and Systems Support policies](#)
- [Oracle Exadata Technical Support policies](#)
- [Trusted Partitions](#)
Trusted Partitions allow you to use virtual machines (VMs) to limit the required number of processor licenses for Oracle software on Oracle Exadata Database Machine.
- [Oracle Enterprise Manager 12c,13c Monitoring Exadata Capacity-On-Demand Licensing in disconnected mode \(My Oracle Support Doc ID KB571945\)](#)

2.2 Trusted Partitions

Trusted Partitions allow you to use virtual machines (VMs) to limit the required number of processor licenses for Oracle software on Oracle Exadata Database Machine.

Note

Trusted Partitions are supported only on 2-socket Exadata database servers. Because virtualization is not supported on 8-socket Exadata database servers, Trusted Partitions are not available for 8-socket Exadata systems.

On Oracle Exadata Database Machine, you can use a virtual machine (VM) as a Trusted Partition. In this case, any Oracle software running in the VM needs to be licensed according to the CPU resources used by the VM.

When licensing Oracle programs in a Trusted Partition, two virtual CPUs (vCPUs) are counted as equivalent to one physical CPU core. Also, under Oracle processor licensing rules, one

processor license covers two physical CPU cores. Therefore, one processor license is required to cover every four VM vCPUs.

Each Exadata database server is also subject to a minimum licensing requirement for Oracle Database Enterprise Edition, which is equivalent to the minimum number of active cores for capacity-on-demand. The minimum licensing requirement does not apply to other Oracle software, such as database options and Enterprise Manager packs, which are licensed according to usage.

For example, consider an Exadata X10M system with two database servers. Each database server contains two physical CPUs with a total of 192 physical CPU cores. Furthermore, assume that the system runs 2 databases (D1 and D2) in separate VM clusters with the following characteristics:

- Both databases use Oracle Database Enterprise Edition with the Oracle Real Application Clusters (Oracle RAC) and Oracle Partitioning options.
- D2 also uses the Oracle Advanced Security option.
- On each server, D1 runs in a VM that uses 32 vCPUs, and D2 runs in another VM that uses 24 vCPUs.

In this case, using Trusted Partitions, Oracle Database Enterprise Edition, Oracle Real Application Clusters (Oracle RAC), and Oracle Partitioning must be licensed for 112 vCPUs (2 servers, each with 32 vCPUs + 24 vCPUs), which requires 28 processor licenses for each software item.

Also, the Oracle Advanced Security option used by D2 must be licensed for 48 vCPUs (2 servers, each with 24 vCPUs), which requires 12 processor licenses.

To use Trusted Partitions on Oracle Exadata Database Machine, you must be running Oracle Exadata System Software 12.1.2.1.0 or later, and you must continually use Oracle Enterprise Manager to monitor the system and verify the configuration.

Related Topics

- [Oracle Partitioning Policy](#)
- [Restrictions for Capacity-On-Demand on Oracle Exadata Database Machine](#)
Capacity-on-demand is available for Exadata Database Machine, starting with X4-2 systems.
- [Configure Enterprise Manager Trusted Partitioning for PCA and Exadata \(My Oracle Support Doc ID KB447970\)](#)

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](#)
- [Third-Party Product Licenses for SQLcl](#)

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.

- [angus-mail - Oracle](#)
- [The Apache Software License, Version 1.1](#)
- [Bsafe \(Bsafe Crypto-C.\)](#)
- [Berkeley Yacc \(byacc\)](#)
- [Byte Code Engineering Library \(BCEL\)](#)
- [Cryptix](#)
- [Document Object Model \(DOM\)](#)
- [esmi-ib-library - AMD](#)
- [Expat](#)
- [FastCGI Developer's Kit - Open Market, Inc. \(Oracle Built\)](#)
- [InfoZip](#)
- [Intel Integrated Performance Primitives Redistributables](#)
- [IPMItool](#)
- [isa-l](#)
- [jackson-annotations - FasterXML, LLC](#)
- [jackson-core - FasterXML, LLC](#)
- [jackson-databind - FasterXML, LLC](#)
- [jackson-dataformat-xml - FasterXML, LLC](#)

- [jackson-jaxrs-base - FasterXML, LLC](#)
- [jackson-jaxrs-json-provider - FasterXML, LLC](#)
- [Jakarta Activation API \(JAF\) - Eclipse Foundation](#)
- [Jakarta Bean Validation API - Eclipse Foundation](#)
- [Jakarta Mail - Eclipse Foundation](#)
- [Jakarta XML Binding RI \(JAXB\) - Eclipse Foundation](#)
- [JavaScript Extension Toolkit \(JET\) - Oracle](#)
- [Jetty - Eclipse Foundation](#)
- [JSch - JCraft](#)
- [JLex: A Lexical Analyzer Generator for Java](#)
- [JLine - Marc Prud'hommeaux](#)
- [jQuery - JS Foundation and other contributors](#)
- [jQuery Timepicker - Jon Thornton](#)
- [jQuery UI - jQuery Foundation and other contributors](#)
- [keepalived - Alexandre Cassen](#)
- [libuuid - Theodore Ts'o](#)
- [Mesa 3-D graphics library](#)
- [Micro Edition Suite \(MES\)](#)
- [MiGLayout - MiG InfoCom AB](#)
- [Mina SSHD - The Apache Software Foundation](#)
- [Mina SSHD-common - The Apache Software Foundation](#)
- [Mina SSHD-core - The Apache Software Foundation](#)
- [Mina SSHD-scp - The Apache Software Foundation](#)
- [Mina SSHD-sftp - The Apache Software Foundation](#)
- [Nginx - Nginx](#)
- [OpenSSL - OpenSSL Project](#)
- [Oracle Linux](#)
- [Ponder - Tegesoft](#)
- [Python - Python Software Foundation](#)
- [rapidxml - Boost Software](#)
- [Rapid JSON - Milo Yip](#)
- [rdma-core - Kernel.org](#)
- [Regexp, Regular Expression Package](#)
- [SAX](#)
- [Selenium](#)
- [SNMP4J - SNMP4J.org](#)
- [snmp4j-agent](#)
- [UnZip - Info-ZIP](#)

- [W3C XML Schema Test Collection](#)

3.1.1 angus-mail - Oracle

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

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Mark Adler
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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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/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
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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
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 */
```

```
/* inflate.c -- zlib decompression
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 */
```

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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== Name of dependency

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- * org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies are EPL and CDDL 1.0.

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

The following dependencies are CDDL + GPLv2 with classpath exception.

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

- * jakarta.servlet:jakarta.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

The following dependencies are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

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

The following dependencies are ASL2 licensed.

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

The following dependencies are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- * 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
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- * org.eclipse.jetty.toolchain:jetty-schemas

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3.1.28 JLex: A Lexical Analyzer Generator for Java

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3.1.29 JLine - Marc Prud'hommeaux

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Fourth Party dependencies
net.java.dev.jna » jna

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Fourth Party dependencies

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org.slf4j: slf4j-api
org.slf4j: slf4j-jdk14
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com.google.code.findbugs » jcip-annotations

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3.1.31 jQuery Timepicker - Jon Thornton

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3.1.33 keepalived - Alexandre Cassen

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The README.md also had licensing information:
keepalived: Loadbalancing & High-Availability

```
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```

```

logo=lgtm&logoWidth=18)](https://lgtm.com/projects/g/acassen/keepalived/context:cpp)
[![Total alerts](https://img.shields.io/lgtm/alerts/g/acassen/keepalived.svg?
logo=lgtm&logoWidth=18)](https://lgtm.com/projects/g/acassen/keepalived/alerts/)
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keepalived)
[![Twitter Follow](https://img.shields.io/twitter/url/http/shields.io.svg?
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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/*
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 *            <www.linuxvirtualserver.org>. It monitor & manipulate
 *            a loadbalanced server pool using multi-layer checks.
 *
 * Part:      DNS checker
 *
 * Author:     Masanobu Yasui, <yasui-m@klab.com>
 *            Masaya Yamamoto, <yamamoto-ma@klab.com>
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```

```

*/
=====
Dependency on ipset-libs 7.1-1
=====

```

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```
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3.1.34 libuuid - Theodore Ts'o

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core Mesa code include/GL/gl.h Brian Paul Mesa

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

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----- Subcomponents -----

org.apache.sshd » sshd-core
org.apache.sshd » sshd-common
org.apache.sshd » sshd-mina
org.apache.sshd » sshd-sftp

=====
== NAME OF Subcomponent 1 : sshd-core
.
== License Type : Apache 2.0

== NAME OF Subcomponent 2 : sshd-common
.
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== NAME OF Subcomponent 3 : sshd-mina
.
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.
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=====
===== 4th party Dependencies =====

FOURTH-PARTY DEPENDENCY #1 NAME: mina-core

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Dependency #3

NAME: JCL-OVER-SLF4J

=====

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Top Level Component : Mina sshd-common

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History and License

History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <https://www.zope.org/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit

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Release

Derived from

Year

Owner

GPL compatible?

0.9.0 thru 1.2

n/a

1991-1995

CWI

yes

1.3 thru 1.5.2

1.2

1995-1999

CNRI

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1.6

1.5.2

2000

CNRI

no

2.0

1.6

2000

BeOpen.com

no

1.6.1

1.6

2001

CNRI

no

2.1

2.0+1.6.1

2001

PSF

no

2.0.1

2.0+1.6.1

2001

PSF

yes

2.1.1

2.1+2.0.1

2001

PSF

yes

2.1.2

2.1.1

2002

PSF

yes

2.1.3

2.1.2

2002

PSF

yes

2.2 and above

2.1.1

2001-now

PSF

yes

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphhash24/little)

djb (supercop/crypto_auth/siphhash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

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```

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3.1.55 snmp4j-agent

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To view the Sun Server X3-2L (X4270 M3) third-party product licenses, refer to [Sun Server X3-2L Program Documentation Third Party Licenses and Notices](#).

To view the X4270 M2 server third-party product licenses, refer to [Sun Fire X4170 M2/X4270 M2 Server Program Documentation Third Party Licenses and Notices](#).

3.3.3 Third-Party Product Licenses for Sun Datacenter InfiniBand Switch 36 Software

To view the Sun Datacenter InfiniBand Switch 36 software third-party licenses, refer to [Licensing Information User Manual Sun Datacenter InfiniBand Switch 36 Firmware Version 2.2](#).

3.3.4 Third-Party Product Licenses for Oracle Flash Accelerator Cards

Refer to the appropriate documentation for the hardware you are using.

- Sun Flash Accelerator F40 PCIe Card: View the third-party product licenses in [Sun Flash Accelerator F40 PCIe Card Program Documentation Third Party Licenses and Notices](#).
- Sun Flash Accelerator F80 PCIe Card: View the third-party product licenses in [Sun Flash Accelerator F80 PCIe Card Program Documentation Third Party Licenses and Notices](#).

3.4 Third-Party Product Licenses for Java

For the licenses for the third-party products included with JDK and JRE refer to [Licensing Information User Manual - Oracle Java SE and Oracle Java Embedded Products](#).

3.5 Third-Party Product Licenses for SQLcl

Oracle Exadata System Software is bundled with Oracle SQLcl (SQL Developer Command Line), a command-line interface for Oracle AI Database. SQLcl is licensed solely under the [Oracle Free Use Terms and Conditions \(FUTC\)](#). Additionally, for licensing information about third-party products included with SQLcl, see [Third-Party License Information](#) in *Oracle SQLcl User's Guide*.