

HP Helion Codar

Software Version 1.00



System and Software Support Matrix

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HP Helion Codar Software Setup

This document provides an overview of the setup requirements for HP Software Helion Codar Version 1.00. The HP HELION CODAR software package contains the following:

- HP Helion Codar Cloud Service Management Console (administrative and operational control interface)
- HP Helion Codar Cloud Controller (core solution software)
- HP Helion Codar Cloud Platform

HP Helion Codar Documentation

The HP Software Product Manuals website is at <https://softwaresupport.hp.com/>.

You need to sign-in or register to use this site. Use the **Search** function at the top of the page to find documentation, whitepapers, and other information sources.

For more information or to track updates for all HP Helion Codar documentation, refer to the *HP Helion Codar Documentation List*.

HP Helion Codar Integration Pack

HP Helion Codar is shipped with pre-developed content archives, which contain service designs and resource offerings that can be customized for your use. You can import and export this integrated “content” developed for specific HP Helion Codar applications and adapt it to your business needs. The out-of-the-box integrations shipped with this version of HP Helion Codar are stored in the CSAKit-42 folder.

You can also download integrations at the HP Live Network website: <https://www.www2.hp.com/>. Access to this site is restricted. HP customers must have an active HP support agreement ID (SAID) for HP Helion Codar and an HP Passport sign-in to access the data on this site. For more sample service designs and sample resource offerings, see your HP Professional Services Representative.

HP Helion Codar Application Server System Requirements

Hardware Requirements

Table 1. Hardware Requirements for the HP Helion Codar Application Server

	Without OO on the same server	With OO on the same server
CPU	4 CPU, 3.0 GHz per CPU	8 CPU, 3.0 GHz
RAM	8 GB	16 GB
Hard Drive	20 GB	20 GB

IMPORTANT – HP Helion Codar Deployment Guidelines

HP strongly recommends that you install the HP Helion Codar database server on a physical server, not on a virtual machine to get good response from Codar. If you choose to deploy the HP Helion Codar (one or more nodes with the Cloud Service Management Console) on a virtual machine, you must reserve CPU and memory resources exclusively for Codar, so that the product can function with reasonable throughput. Use the guidelines below for resource reservation for a Codar instance with the following load characteristics:

CPU: 4 CPUs, 3.0 GHz per CPU

Memory: 8 GB

This configuration for HP Helion Codar Application Server can support the following load:

- Six simultaneous provisioning requests
- 30 Subscriptions generated per hour
- Service components in design processed < 120 per hour
- Total REST API call-back from HP Operations Orchestration to HP Helion Codar for single VM provision of < 18

For higher loads, you may need a system with more hardware resources or additional Codar nodes in a cluster. Please refer to the HP Helion Codar Configuration Guides and High Availability Guides for additional details.

HP Helion Codar Software Coexistence Statement

HP Helion Codar executes as a web application in a JBoss application server container. HP Helion Codar is supported on either a physical server or virtual server.

Table 2. HP Helion Codar Coexistence Support

HP Helion Codar (non-FIPS mode)	HP Helion Codar is supported when running concurrently with other software products on the same physical or virtual server.
HP Helion Codar (FIPS mode)	When configured in a FIPS compliant mode, the JBoss application server must be dedicated to HP Helion Codar and the JRE instance referenced by HP Helion Codar must be exclusively dedicated.

HP Helion Codar IPv6 Support

HP Software is committed to providing support for the network Internet Protocol version 6 (IPv6) for our enterprise software products and solutions. HP Helion Codar supports installation on hosts implementing dual-stack (IPv4/IPv6) transport. HP Helion Codar can deploy Cloud Server Services using network Internet Protocol version 6 (IPv6).

Table 3. HP Helion Codar Network Transport Support

HP Helion Codar	HP Helion Codar is supported for installation on the platforms listed below when configured for dual IPv4/IPv6 transport. HP Helion Codar can communicate over both IPv4 and IPv6 transport. See HP Helion Codar Supported Platforms .
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HP Helion Codar Supported Platforms

NOTE: To use an Oracle database with HP CSA, you must download Oracle JDBC drivers:

- For Oracle 11g R2 JDBC drivers, go to:
<http://www.oracle.com/technetwork/database/enterprise-edition/jdbc-112010-090769.html>
- For Oracle 12c R1 JDBC drivers, go to:
<http://www.oracle.com/technetwork/database/features/jdbc/default-2280470.html>

HP Helion Codar requires **ojdbc6.jar** and **orai18n.jar** to be downloaded and stored in a common directory prior to product installation.

Table 4. Microsoft Windows 2008 R2 Standalone

	Supported	Recommended *
Operating System	Microsoft Windows 2008 R2 64-bit	Microsoft Windows 2008 R2 SP1 Enterprise 64-bit
Middleware	Oracle JRE 7 OpenJDK JRE 7	OpenJDK JRE 7
Microsoft SQL Database	Microsoft SQL Server 2008 R2	Microsoft Enterprise SQL Server 2008 R2 SP2
	Microsoft SQL Server 2012	Microsoft Enterprise SQL Server 2012 SP2
Oracle Database	Oracle 11g R2 Standard Edition Oracle 11g R2 Enterprise Edition Oracle 11g R2 Enterprise RAC Oracle 12c R1 Standard Edition Oracle 12c R1 Enterprise Edition Oracle 12c R1 Enterprise RAC	Oracle 12c R1 Enterprise Standalone
Postgres Database	PostgreSQL Server 9. x 64-bit	

* Recommended indicates the specific software version used for solution testing by HP Helion Codar.

Table 5. Microsoft Windows 2012 R2 Standalone

	Supported	Recommended *
Operating System	Microsoft Windows Server 2012 R2 Standard	Microsoft Windows Server 2012 R2 Standard
	.NET Framework v3.5	.NET Framework v3.5
Middleware	Oracle JRE 7	OpenJDK JRE 7
	OpenJDK JRE 7	
Microsoft SQL Database	Microsoft SQL Server 2012	Microsoft Enterprise SQL Server 2012 SP2
Oracle Database	Oracle 11g R2 Standard Edition	Oracle 12c R1 Enterprise Standalone
	Oracle 11g R2 Enterprise Edition	
	Oracle 11g R2 Enterprise RAC	
	Oracle 12c R1 Standard Edition	
	Oracle 12c R1 Enterprise Edition	
	Oracle 12c R1 Enterprise RAC	
Postgres Database	PostgreSQL Server 9. x 64-bit	

* Recommended indicates the specific software version used for solution testing by HP Helion Codar.

Table 6. Microsoft Windows 2008 R2 High Availability

	Supported	Recommended *
Operating System	Microsoft Windows 2008 R2 SP1 Enterprise 64-bit	Microsoft Windows 2008 R2 SP1 Enterprise 64-bit
Middleware	JBoss Application Clustering	
	Oracle JRE 7	OpenJDK JRE 7
	OpenJDK JRE 7	
	F5 BIG IP LTM 11.31	F5 BIG IP LTM 11.31
	Apache HTTP server version httpd - 2.2	
Microsoft SQL Database	Microsoft Enterprise SQL Server 2008 R2 SP2, 2012 (Always On) and 2014	Microsoft Enterprise SQL Server 2008 R2 SP2
Oracle Database	Oracle Database 11g R2 Enterprise RAC	
	Oracle Database 12c R1 Enterprise RAC	

* Recommended indicates the specific software version used for solution testing by HP Helion Codar.

Table 7. Microsoft Windows 2012 R2 High Availability

	Supported	Recommended *
Operating System	Microsoft Windows Server 2012 R2 Standard	Microsoft Windows Server 2012 R2 Standard
	.NET Framework v3.5	.NET Framework v3.5
Middleware	JBoss Application Clustering	
	Oracle JRE 7	OpenJDK JRE 7
	OpenJDK JRE 7	
	F5 BIG IP LTM 11.31	F5 BIG IP LTM 11.31
	Apache HTTP server version httpd - 2.2	

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Microsoft SQL Database	Microsoft SQL Server 2012	Microsoft Enterprise SQL Server (Always On) 2012 SP2
Oracle Database	Oracle Database11g R2 Enterprise RAC Oracle Database12c R1 Enterprise RAC	

* Recommended indicates the specific software version used for solution testing by HP Helion Codar.

Table 8. Microsoft Windows 2008 R2 FIPS 140-2

	Supported	Recommended*
Operating System	Microsoft Windows 2008 R2 64-bit	Microsoft Windows 2008 R2 SP2 Enterprise 64-bit
Middleware	Oracle JRE 7	
	Java Cryptography Extension (JCE) Unlimited Jurisdiction Policy Files 7	
	IPv6 Endpoint Configuration	
Microsoft SQL Database	Microsoft SQL Server 2008 R2	Microsoft Enterprise SQL Server 2012 SP2
	Microsoft SQL Server 2012	

* Recommended indicates the specific software version used for solution testing by HP Helion Codar.

NOTES

- HP Helion Codar Supports SSL connections to either MSSQL or Oracle databases. For FIPS configurations with strong encryption enabled, HP Helion Codar supports SSL connections to MSSQL databases only.
- HP Helion Codar supports the configuration of IPv6 endpoints for communication with both the Marketplace Portal and the HP Cloud Service Management Console.

Table 9. Microsoft Windows 2012 R2 FIPS 140-2

	Supported	Recommended*
Operating System	Microsoft Windows Server 2012 R2 Standard	Microsoft Windows Server 2012 R2 Standard
	.NET Framework v3.5	.NET Framework v3.5
Middleware	Oracle JRE 8 under One Model review	
	Java Cryptography Extension (JCE) Unlimited Jurisdiction Policy Files 7	
	IPv6 Endpoint Configuration	
	Microsoft SQL Server 2012	Microsoft Enterprise SQL Server 2012 SP2

* Recommended indicates the specific software version used for solution testing by HP Helion Codar.

NOTES

- HP Helion Codar Supports SSL connections to either MSSQL or Oracle databases. For FIPS configurations with strong encryption enabled, HP Helion Codar supports SSL connections to MSSQL databases only.
- HP Helion Codar supports the configuration of IPv6 endpoints for communication with both the Marketplace Portal and the HP Cloud Service Management Console.

Table 10. Ubuntu Linux

	Supported	Recommended *
Operating System	Ubuntu Linux 12.04 LTS 64-bit or higher	Ubuntu Linux 14.04 LTS 64-bit
	Oracle JRE 7 OpenJDK JRE 7	OpenJDK JRE 7
Microsoft SQL Database	Microsoft SQL Server 2008 R2	
	Microsoft SQL Server 2012	
Oracle Database	Oracle 11g R2 Standard Standalone Oracle 11g R2 Enterprise Standalone	
Postgres Database	PostgreSQL Server 9. x 64-bit	PostgreSQL Server 9.2.4 64-bit

* Recommended indicates the specific software version used for solution testing by HP Helion Codar.

Table 11. Red Hat Enterprise Linux (RHEL)

	Supported	Recommended *
Operating System	RHEL 6.3 or above 64-bit	RHEL 6.5 64-bit
Middleware	Oracle JRE 7 OpenJDK JRE 7	OpenJDK JRE 7
Microsoft SQL Database	Microsoft SQL Server 2008 R2 Microsoft SQL Server 2012	Microsoft Enterprise SQL Server 2008 R2 SP2 Microsoft Enterprise SQL Server 2012 SP2
Oracle Database	Oracle Database 11g R2 Standard Edition Oracle Database 11g R2 Enterprise Edition Oracle Database 11g R2 Enterprise Edition Oracle Database 12c R1 Standard Edition Oracle Database 12c R1 Enterprise Edition Oracle Database 12c R1 Enterprise RAC	Oracle 12c R1 Enterprise Standalone
Postgres Database	PostgreSQL Server 9. x 64-bit	PostgreSQL Server 9.2.4 64-bit

* Recommended indicates the specific software version used for solution testing by HP Helion Codar.

Table 12. RHEL High Availability

	Supported	Recommended*
Operating System	RHEL 6. 3 or above 64-bit	RHEL 6.5 64-bit
Middleware	JBoss Application Clustering	
	Oracle JRE 7 OpenJDK JRE 7	OpenJDK JRE 7
	F5 BIG IP LTM 11.31	F5 BIG IP LTM 11.31
	Apache HTTP server version httpd - 2. 4.10 mod_cluster version 1.2.6	
Microsoft SQL Database	Microsoft Enterprise SQL Server 2008 R2 SP2	
Oracle Database	Oracle 11g R2 Enterprise RAC Oracle 12c R1 Enterprise RAC	
Postgres Database	PostgreSQL Server 9. x 64-bit	PostgreSQL Server 9.2.4 64-bit

* Recommended indicates the specific software version used for solution testing by HP Helion Codar.

Browser Support

Supported Browsers

- Microsoft® Internet Explorer 10 or higher
Requires <http://support.microsoft.com/kb/2496898> to be installed on the browser machine for displaying the Indian currency sign in proper format.
- Google Chrome 31 or higher
- Mozilla Firefox 26 or higher

Additional Browser Support Information

For HP Cloud Service Management Console only: Requires Adobe Flash Player 12 or higher.

Screen Resolution

The minimum recommended screen resolution for the HP Helion Codar Management Console is 1280x1024.

HP Integrated Process Execution Engine (HP Operations Orchestration)

IMPORTANT: HP Helion Codar 1.00 requires HP Operations Orchestration 10.20 to support new capabilities, such as topology service designs.

For content pack requirements, go to: [HP Operations Orchestration Support Requirements](#).

Table 13. HP Operations Orchestration Support

Product	Supported	Recommended *
HP Operations Orchestration Platform and HP OO Studio	10.20	10.20

* Recommended indicates the specific software version used for solution testing by HP Helion Codar.

HP Cloud Service Automation Upgrade

HP Cloud Service Automation is available for upgrade from an HP Helion Codar installation, working with existing HP Helion Codar functionality to facilitate consumer experience through MPP Elements of the Clouds Service Automation core value proposition include the following:

- Sequence Based Modeling
- Infrastructure as Service (IaaS)
- Consumer experience through MPP
- Various other integrations such as vPV, XS, or ArcSight

The following license types are available:

- HP Helion Codar permanent license only.
- HP CSA permanent license only.

If you install HP CSA, you must add an HP CSA license first; if you install HP Helion Codar, you must install an HP Helion Codar license first. After you apply a base license, you can add an upgrade license, if desired.

For more information, refer to the HP Cloud Service Automation System and Software Support Matrix and other documentation available at <https://softwaresupport.hp.com/>

Integration Pack Compatibility

The integrations below have been demonstrated with HP Helion Codar 1.00 and are supported by the corresponding product teams. Please review each product's release notes and contact the appropriate HP product support team for details.

Table 14. Solution Versions for the HP Helion Codar Integration Pack

Product	Supported	Recommended ⁽¹⁾
Amazon Web Services (AWS)	Supported	
Chef Server ⁽²⁾	11.0.11 or above	11.0.11
Docker	1.1.2 and 1.2.0.	1.20
Jenkins	1.55x	1.554
HP Helion Public Cloud	Supported	
HP Server Automation Premium Edition (SAVA)	10.x	10.10
HP Server Automation (HP SA) Ultimate Edition	10.x	10.20 with DMA 10.21
HP SiteScope	11.x	11.24.2
VMware vCenter Operations Manager ⁽³⁾	4.x, 5.x	5.5

(1) Recommended indicates the specific software version used for solution testing by HP Helion Codar.

(2) Chef Server can be downloaded from <http://www.getchef.com/chef/install/>. HP Helion Codar 1.00 integration with Chef is supported on a Chef server installed on Ubuntu 12.04 and CentOS 6.4. HP Helion Codar supports deployment of Chef Cookbooks and recipes on VMs running the CentOS or Ubuntu operating systems.

(3) HP Helion Codar 1.00 leverages the following features in VMware vCenter:

- Applying a customization specification when cloning a template
- Using a customization specification

Reference Websites and Downloads

Table 15. For more information and download locations

Table 17. For More Information and Download Locations

Product	Support Matrix and System Requirements	For More Information	Downloads
Adobe Flash Player		Flash Player Development Center	
Amazon Web Services (AWS)		AWS Documentation	
Chef Server		Chef documents	
Docker		Docker website	
HP Cloud Service Automation (HP CSA)	HP Software Support	HP Software Support	Go to HP Live Network for downloads provided in addition to out-of-box content.
HP Helion Codar	This document		
HP Helion Public Cloud		HP Helion Public Cloud overview	
HP Operations Orchestration (HP OO)	HP Software Support	HP Software Support	Go to HP Live Network for downloads provided in addition to out-of-box content.
HP Server Automation Premium Edition (SAVA)			
HP Server Automation (HP SA) Ultimate Edition			
HP SiteScope			
VMware vCenter Operations Manager		VMware vCenter Operations Manager Documentation	

HP Operations Orchestration Support Requirements

Table 16. HP Operations Orchestration content

OO Release	Content Pack
10.20	oo10-base-cp-1.1.1
	oo10-cloud-cp-1.1.0
	oo10-hp-solutions-cp-1.1.2
	oo10-virtualization-cp-1.1.0

For More Information

To access other toolkits to design and extend cloud services running on HP CloudSystem, go to <http://www.hp.com/go/csdevelopers>.

For more information about HP CloudSystem, visit <http://www.hp.com/go/cloudsystem>

HP software product documentation can be found at <https://softwaresupport.hp.com/>

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