

CAST Storage Service - Deployment requirements

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 **Summary:** information to help you plan your **CAST Storage Service / PostgreSQL** installation.

Hardware

On-premise


Server type	Architecture	CPU	RAM	DISK	OS	Notes
Physical /virtual	64-bit	Minimum 2 processors: <ul style="list-style-type: none">• Intel Core i5, 2.6 GHz• Intel Xeon, 2.2 GHz Recommended 4 processors: <ul style="list-style-type: none">• Intel Core i7, 2.8 GHz• Intel Xeon, 2.6 GHz	32GB min	512GB (SSD recommended)	Windows or Linux	CAST highly recommends the use of PostgreSQL on a Linux instance as this consistently gives the best performance.


Cloud services

The following requirements are based on CAST's own testing for the analysis of a single "large Application", using [Amazon EC2 R5 Instances](#):

Minimum instance type	Volume Size	Volume Type	Minimum IOPS
<ul style="list-style-type: none">• r5.xlarge• r5d.xlarge	512GB	General purpose SSD (gp2) or Provisioned IOPS SSD (io1)	400

Supported Operating Systems

 Note that CAST highly recommends the use of a **Linux Operating System** to host a **PostgreSQL RDBMS**, instead of using the CAST Storage Service on a Windows operating system. PostgreSQL installed on Linux has consistently proven to provide better performance than CAST Storage Service installed on Windows.

Operating System	Supported	Supported by ref.	Deprecated support	Notes
Linux (all recent distributions)				See the following PostgreSQL documentation for more information: <ul style="list-style-type: none">• https://www.postgresql.org/docs/13/supported-platforms.html• https://www.postgresql.org/docs/12/supported-platforms.html• https://www.postgresql.org/docs/11/supported-platforms.html• https://www.postgresql.org/docs/10/supported-platforms.html• https://www.postgresql.org/docs/9.6/supported-platforms.html• https://www.postgresql.org/docs/9.2/supported-platforms.html

Microsoft Windows Server 2019	✓			Installations of Windows Server using only Server Core (i.e. without a GUI) are not supported.
Microsoft Windows 10	✓			
Microsoft Windows Server 2016	✓			Installations of Windows Server using only Server Core (i.e. without a GUI) are not supported.
Microsoft Windows 8.1	✓			
Microsoft Windows 7 SP1	✓			
Microsoft Windows Server 2012 R2 (Standard edition)		✓		Installations of Windows Server using only Server Core (i.e. without a GUI) are not supported.
Microsoft Windows Server 2012 (Standard edition)		✓		
Microsoft Windows 8		✓		
Microsoft Windows Server 2008 R2 SP1 (Standard edition)		✓		

Supported CAST Storage Service releases

CSS release	Bundled PostgreSQL release	Architecture	Default port no.	Supported	Supported by ref.	Deprecated support	AIP Core compatibility	Bundled with AIP	Notes
4.13.x	13.0	64bit	2284	✓			AIP Core 8.3.29	-	
3.0.1, 3.0.2, 3.0.3	9.6.11	64bit	2282	✓			AIP Core 8.2.6	-	
3.0.0	9.6	64bit	2282	✓			AIP Core 8.2.6	-	
2.0.7, 2.0.8	9.2.6	64bit	2280			✓	AIP Core 7.1.x	-	From release 2.0.7, CSS has been unbundled from CAST AIP and is provided as a standalone component.
2.0.0 - 2.0.6	9.2.6	64bit	2280			✓	AIP Core 7.1.x	AIP Core 7.1.x - 8.2.5	
1.0.x	8.4.5	32bit	2278	✗			AIP Core 7.0.x	AIP Core 7.0.x	

Supported PostgreSQL releases

CAST does not provide a custom installer for **Linux Operating Systems**, however, you can install the following official **PostgreSQL RDBMS** on to a 64bit Linux Operating System (supported by PostgreSQL) and use it as a storage host for CAST AIP:

PostgreSQL release	Supported	Supported by ref.	Deprecated support	Notes																	
13.x	✓			Support is available for PostgreSQL 12.x and 13.x (64bit) as storage , i.e. AIP schemas can be created on this version and analyses will run as expected. Some prerequisites do apply: <ul style="list-style-type: none"> Minimum required release of CAST AIP core: 8.3.23 Minimum required release of specific extensions - same as for PostgreSQL 10.x and 11.x - see below. 																	
12.x		✓																			
11.x	✓			Support is available for PostgreSQL 10.x and 11.x (64bit) as storage , i.e. AIP schemas can be created on these versions and analyses will run as expected. Some prerequisites do apply: <ul style="list-style-type: none"> Minimum required release of CAST AIP core: 8.3.16 Minimum required release of specific extensions: <table border="1" data-bbox="695 1675 1487 1967"> <thead> <tr> <th>Extension</th> <th>Package Name</th> <th>Version</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>JEE Analyzer extension</td> <td>com.castsoftware.jee</td> <td>1.0.19</td> <td rowspan="4">The required minimum releases of these extensions are delivered as "shipped extensions" in AIP 8.3.16.</td> </tr> <tr> <td>.NET Analyzer extension</td> <td>com.castsoftware.dotnet</td> <td>1.0.13</td> </tr> <tr> <td>SAP BusinessObjects Analyzer extension</td> <td>com.castsoftware.businessobject</td> <td>1.0.4 (LTS)</td> </tr> <tr> <td>C and Cpp Analyzer extension</td> <td>com.castsoftware.</td> <td>2.0.5-</td> </tr> </tbody> </table>	Extension	Package Name	Version	Notes	JEE Analyzer extension	com.castsoftware.jee	1.0.19	The required minimum releases of these extensions are delivered as " shipped extensions " in AIP 8.3.16 .	.NET Analyzer extension	com.castsoftware.dotnet	1.0.13	SAP BusinessObjects Analyzer extension	com.castsoftware.businessobject	1.0.4 (LTS)	C and Cpp Analyzer extension	com.castsoftware.	2.0.5-
Extension	Package Name	Version	Notes																		
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C and Cpp Analyzer extension	com.castsoftware.	2.0.5-																			

10.x		✓			cpp	funcr el	
					iOS - Objective-C Analyzer extension	com. castsoftware. cfamily	1.5.2- funcr el
9.6.11	✓			-			
9.2.x			✓	-			

CAST Storage Service/PostgreSQL running in encrypted SSL mode

Support is available for connecting to **CAST Storage Service/PostgreSQL instances running in encrypted SSL mode**. See [SSL encrypted mode configuration for CAST Storage Service and PostgreSQL](#):

CAST AIP core (any application provided with the CAST AIP "core" setup)	✓	8.3.24
CAST Architecture Checker (standalone)	✓	1.2.0-funcrel
CAST Dashboards	✓	2.0.0-beta1
CAST Imaging (for Source Code configuration)	✓	2.0.0-funcrel (when using Microsoft Windows traditional installer)
CAST AIP Console (AIP Node)	✓	1.17.0-funcrel
Sherlock (CAST Support tool)	✓	Sherlock delivered in AIP Core 8.3.25.

Official CAST AIP Extensions are compatible, however specific minimum releases are required:

JEE Analyzer extension	com.castsoftware.jee	1.0.28	The required minimum releases of these extensions are those that are delivered as "shipped extensions" in AIP 8.3.24 .
.NET Analyzer extension	com.castsoftware.dotnet	1.0.17	
SAP BusinessObjects Analyzer extension	com.castsoftware. businessobject	1.0.6 (LTS)	
C and Cpp Analyzer extension	com.castsoftware.cpp	2.1.0- funcrel	-
iOS - Objective-C Analyzer extension	com.castsoftware. cfamily	1.5.4- funcrel	-

Required ports

The following TCP ports must be opened on the server hosting CAST Storage Service/PostgreSQL:

CSS / PostgreSQL release	Listening Port
CSS 4.13.x	2284
CSS 3.0.x	2282
CSS 2.0.x	2280
PostgreSQL 10.x	Custom port (2282/2284 highly recommended)
PostgreSQL 9.6.11	Custom port (2282 highly recommended)
PostgreSQL 9.2.x	Custom port (2280 highly recommended)