

## i Note

In addition to the hardware and software requirements listed here, make sure that you also consult the hardware and software requirements provided by IBM at http://www.ibm.com/support/docview.wss?uid=swg27038033  $\not\! P$ .

If you are planning to install an SAP BW system with BLU Acceleration, note that the hardware and software requirements for BLU Acceleration are higher than those listed in this section. Therefore, make sure that you read the *Hardware and Software Requirements for BLU Acceleration* chapter in the SAP BW Administration Guide (see Online Information from SAP).

## i Note

- The listed values are sufficient for development systems or quality assurance systems but not for production systems.
- If you install several SAP instances on one host, you need to add up the requirements.
- If you install multiple SAP systems in one Failover Cluster, make sure that together with your hardware partner you have set up the correct sizing for your system configuration.
- For up-to-date information on the released and supported operating system versions for your SAP product and database, see the Product Availability Matrix (PAM) at:

http://support.sap.com/pam/

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Hardware Requirement	Requirement	How to Check
linimum disk pace	<ul> <li>Central services instance (SCS) (not including paging file):     5 GB (x64)     8 GB (IA64)</li> <li>ABAP central services instance (ASCS) (not including paging file):     5 GB (x64)     8 GB (IA64)     • In addition, you require 4 GB (x64), or 8 GB (IA64) per additional platform.     • If you install the ASCS instance with an integrated SAP Web Dispatcher, for the installation as such you require at least 1 GB of hard disk space in addition. For production use of the SAP Web Dispatcher, you need to reserve at least 5 GB.     • If you install an SAP Gateway with the ASCS instance, you require at least 1 GB of hard disk space in addition.     • Up to 2 GB for each usage type or software unit you want to install.     • Database instance     For more information about the required disk space, see SAP Note 1707362         i Note     For safety reasons (system failure), the file systems must be distributed physically over several disks, or RAID-technology must be used.      · High Availability only: Enqueue replication server instance (ERS) (not including paging file):     5 GB (x64)     8 GB (IA64)     • Primary application server instance (not including paging file):     5 GB (x64)     8 GB (IA64)     • In addition you require 4 GB (x64), or 8 GB (IA64) per additional platform.     • Up to 2 GB for each usage type or software unit you want to install.     • Additional application server instance (not including paging file):     2.5 GB (x64)</li> </ul>	To check disk space:  • Windows Server 2012 (R2) and higher:  1. Open PowerShell in elevated mode, and enter the following command:  get-volume  2. Check the value SizeRemaining of the disk you want to install on.  • Windows Server 2008 (R2):  1. Choose Start > All  Programs > Administrative  Tools > Storage > Computer  Management > Disk Management.  2. Right-click the drive and choose Propertie

Minimum RAM	SAP Host Agent:  256 MB  Temporary disk space for every required installation medium that you have to copy to a local hard disk:  Up to 6 GB  All instances, except SAP Host Agent:  6 GB  If you install the ASCS instance with an integrated SAP Web Dispatcher, see SAP Note 2007212  for memory consumption in productive use.  SAP Host Agent:  0.5 GB	To check RAM:  • Windows Server 2012 (R2) and higher:  Open PowerShell in elevated mode, and enter the following command:  Get-WmiObject Win32_ComputerSystem  • Windows Server 2008 (R2):  Choose Start > Control Panel > System .  i Note  If System is not visible, change View by: from
Paging file size	For more information, see SAP Note 1518419	Category into Large icons.  To check paging file size:  Windows Server 2012 (R2) and higher: For more information, see Checking and Changing the Paging File Settings on Windows Server 2012 (R2)  Windows Server 2008 (R2):  1. Choose Start > Control Panel > System.  i Note If System is not visible, change View by: from Category into Large icons.  2. Choose Advanced system settings.  3. In section Performance, select Settings > Advanced.  4. If required, in section Virtual memory, choose Change.  i Note Do not select Automatically managed paging file size for all drives.  i Note High Availability only: You must adjust the size of the paging file on all cluster nodes.
Processing units	For application server instances and database instances:  The number of physical or virtual processing units usable by the operating system image must be equal to or greater than 2.  For an ASCS instance and SCS instance running on a separate host: One physical or virtual processing unit usable by the operating system image might be sufficient.  Examples of processing units are processor cores or hardware threads (multithreading).  In a virtualized environment, ensure that adequate processor resources are available to support the workloads of the running SAP systems.	
Suitable		

## Software Requirements

Software Requirement	Requirement	How to Check
Windows operating system	64-bit version of one of the following Windows Server Editions:     Windows Server 2012 (R2) and higher:	To check your Windows version:  • Windows Server 2012 (R2) and higher:
10.2	Windows Server Standard Edition	Open PowerShell in elevated mode, and enter the following command:

	Windows Server Datacenter Edition     Windows Server 2008 (R2):     Windows Server Standard Edition     Windows Server Enterprise Edition     Windows Server Datacenter Edition      Windows Server Datacenter Edition      Windows Server 2008 (R2) for Itanium-based systems editions is not supported. For more information about Db2-specific software requirements, see the IBM Web page Db2 for Linux UNIX, and Windows − System Requirements at http://www.ibm.com/software/data/db2/udb/sysreqs.html      ∴      Caution For up-to-date information on the released and supported operating system versions for your SAP product and database, see the Product Availability Matrix (PAM) at http://support.sap.com/pam     ∴      Caution Make sure that you install the English language pack so that your support requests can be handled quickly.	Get-WmiObject Win32_OperatingSyst   select caption  • Windows Server 2008 (R2):  1. Choose Start > All Programs > Accessories > Comma Prompt  2. Enter the command winver  i Note  • You must add the operating system feature Failover Clustering on all cluster nodes.
Database	For any version of Windows Server, you need the latest supported service pack      Database instance:	
software	IBM Db2 for Linux, UNIX, and Windows  The database software is automatically installed by SAP's installer, the Software Provisioning Manager.  Primary application server instance / additional application server instance: Db2 CLI Driver / Db2 JDBC Driver (automatically installed by the installer)  For more information about supported Fix Packs, see SAP Note 101809	
	For up-to-date information on the released and supported database versions for your SAP product and database, see the Product Availability Matrix (PAM) at http://support.sap.com/pam.	
	<ul> <li>⚠ Caution</li> <li>For the installation of your SAP system, only the English version of IBM Db2 is supported.</li> <li>You must only use the Db2 software provided on the SAP installation media.</li> </ul>	
SAP kernel releases and versions	SAP kernel 7.40 and higher: IP Multicast Configuration  Make sure that you have applied the operating system patches required for IP Multicast Configuration.  For more information, see SAP Note 1931675	For more information about release and roadmap information for the kernel versions, and how this relates to SAP NetWeaver support packages - including important notes on downward compatibility and release dates - see SAP Note 1969546
Windows regional settings	English (United States) must be set by default. For more information about localized Windows versions, see SAP Note 362379  You can install additional languages but the default setting for new users must always be English (United States).	Choose Start > Control Panel > Clock, Language and Region > Language .
Minimum Web Browser	Make sure that you have at least one of the following web browsers installed on the host where you run the installer GUI:  • Microsoft Internet Explorer 11 or higher  • Microsoft Edge  • Mozilla Firefox  • Google Chrome	Choose Start > Control Panel > Programs and Features .

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