1928533 - SAP Applications on Microsoft Azure: Supported Products and Azure VM types

Version	137	**Type**	SAP Note
Language	English	**Master Language**	English
Priority	Recommendations / Additional Info	**Category**	Release planning information
Release Status	Released for Customer	**Released On**	08.07.2022
Component	BC-OP-NT-AZR (Windows on Microsoft Azure)		

Please find the original document at **https://launchpad.support.sap.com/#/notes/ 1928533**

Symptom

You would like to know, which SAP products, DB/OS combinations, and Azure VM types are supported in a Microsoft Azure VM Services (IaaS) environment.

Other Terms

Azure, Microsoft, Windows, Linux, SLES, RHEL, OL, IaaS, SQL Server, Public Cloud

Reason and Prerequisites

Microsoft Azure (including sovereign regions, for example Azure China) offers infrastructure services that can be utilized for deployment of SAP products. This note describes, which SAP products, DB/OS combinations and Azure VM types are currently supported.

Azure components/services, SAP products, or VM types not mentioned below are unsupported. This applies to both production systems as well as non-production systems, such as development systems, test systems, or QA systems. Support conditions valid for all public infrastructures can be found in SAP Note 1380654 .

Any conflicting sources are irrelevant.

Solution

For more information on Azure support prerequisites, see SAP Note 2015553 (SAP on Azure: Support prerequisites).

Considering SAP's PAM, the following operating systems are supported:

- Microsoft Windows Server 2008 R2, 2012 (R2), 2016, 2019 and 2022
- SUSE Linux Enterprise Server (SLES) 12 for SAP Applications and higher
- SUSE Linux Enterprise Server (SLES) 12 and higher (see SAP Note 3123142 for Kernel prerequisites)
- Red Hat Enterprise Linux 7 (RHEL 7) and higher*
- Red Hat Enterprise Linux 7 for SAP and higher*
- Red Hat Enterprise Linux 7 for SAP HANA and higher*
  * EXCEPTION: RHEL 8.0 is not supported, support for RHEL 8.x starts with RHEL 8.1. For details, see SAP Note 2871484 - SAP supported variants of Red Hat Enterprise Linux
- Oracle Linux 7 (OL7) and Oracle Linux 8 (OL8) - only in combination with Oracle DB

The following SAP products are supported on Microsoft Azure:

- **Applications running on the Application Server ABAP as part of SAP NetWeaver 7.0X:**
  - SAP Kernel 7.21 EXT (min. PL #622)
  - SAP Kernel 7.22 EXT (min. PL #112)
  - higher SAP Kernel versions
- **Applications running on the Application Server ABAP and/ or Java as part of SAP NetWeaver 7.1 or higher:**
  - SAP Kernel 7.21 EXT (min. PL #622)
  - SAP Kernel 7.22 EXT (min. PL #112)
- **Applications running on the Application Servers ABAP and/ or Java as part of SAP NetWeaver 7.4 or higher:**
  - SAP Kernel 7.45 (min. PL #111)
  - higher SAP Kernel versions
- **Applications running on the ABAP Platform 1809 or higher** (internal release 7.53)
  - SAP Kernel 7.73
  - higher SAP Kernel versions

Valid Application/DB combinations can be derived by applying the SAP Product Availability Matrix (PAM).

Windows Operating System

The following SAP products are also supported **on Windows**:

- SAP BusinessObjects Planning and Consolidation on NetWeaver (BPCNW)
- SAP BusinessObjects BI platform (see SAP Note 2145537)
- SAP BusinessObjects Data Services 4.2 (see SAP Note 2288344)
- TREX 7.10
- SAP Content Server with
  - SAP Content Server version 6.50 or higher
  - Microsoft IIS (Internet Information Server) version 8.0, 8.5 or 10.0
  - SAP MaxDB version 7.9
- SAP Financial Consolidation 10.1 SP06 Patch 01 and higher

The following RDBMS platforms are supported **on Windows**:

- Microsoft SQL Server 2008 R2 or higher
- SAP ASE 16.0 SP02 or higher
- IBM Db2 for Linux, UNIX, and Windows 10.5 or higher (see SAP Note 2233094)
- Oracle Database, for versions and restrictions see SAP Note 2039619
- SAP MaxDB version 7.9
- SAP liveCache: minimum requirement is SAP SCM 7.0 EhP2 with SAP liveCache 10.0 SP 33 (i.e. Build 100.33) or higher. We strongly recommend to use the latest SAP liveCache version compliant to the corresponding SAP SCM 7.0 EHP (see SAP Note 2074842).
  Note: SAP liveCache based on SAP MaxDB technology has to run on an Azure VM **solely dedicated to SAP liveCache** (that is, without any other application software running on this VM).

SAP supports Windows virtual machines that are created using the classic deployment model and Azure Resource Manager. However, the use of Azure Resource Manager is recommended.

Linux Operating Systems

The following SAP products are also supported **on Linux:**

- SAP BusinessObjects BI platform (see SAP Note 2145537)
- SAP BusinessObjects Data Services 4.2 (see SAP Note 2288344)
- SAP Content Server with
  - SAP Content Server version 6.50 or higher
  - Apache version 2.2.x or higher
  - SAP MaxDB version 7.9
- SAP TREX 7.10 on SLES and RHEL

The following RDBMS platforms are supported **on SLES and RHEL**:

- SAP HANA 1.0 SP12 and higher, SAP HANA 2.0
  - on Microsoft Azure Large Instance Types as described in SAP Note 2316233.
  - on Microsoft Azure Infrastructure as a Service IaaS (Azure Virtual Machines) as listed on the SAP HANA Hardware Directory.
- SAP ASE 16.0 SP02 or higher
- IBM Db2 for Linux, UNIX, and Windows 10.5 or higher (see SAP Note 2233094)
- SAP MaxDB version 7.9.09.05 or higher
- SAP liveCache: minimum requirement is SAP SCM 7.0 EhP4 with SAP liveCache 10.0 SP 34 (i.e. Build 100.34) or higher. We strongly recommend to use the latest SAP liveCache version compliant to the corresponding SAP SCM 7.0 EHP (see SAP Note 2074842).
  Note: SAP liveCache based on SAP MaxDB technology has to run on an Azure VM **solely dedicated to SAP liveCache** (that is, without any other application software running on this VM).

The following RDBMS platform is supported **on Oracle Linux**:

- Oracle Database, for versions and restrictions see SAP Note 2039619

SAP only supports Linux virtual machines that are created using the Azure Resource Manager. The classic deployment model is not supported for Linux virtual machines.

Supported Azure VM types for SAP products on Windows and Linux

For non-HANA RDBMS platforms, the following Azure VM types (server sizes) are supported in 2-tier or 3-tier configurations and can be used as application servers and standalone database servers.

For A- and D series VMs, SAP database files can be stored on Standard Storage or any higher quality storage types. All other VM series are not supported with SAP database files on Standard Storage or Standard SSD Storage.

The capacity of IaaS VMs were sized according to publicly available standard benchmarks (see https://www.sap.com/dmc/exp/2018-benchmark-directory/#/sd).

VM Series	VM Type	VM Size	2-Tier SAPS	Remark
A-series	Standard_A5	2 vCPU, 14 GiB	1,500	The A8 – A11 VMs are planned for retirement on March 2021. For more information, see https://docs.microsoft.com/azure/virtual-machines/sizes-previous-gen
	Standard_A6	4 vCPU, 28 GiB	3,000	
	Standard_A7	8	6,000	

		vCPU, 56 GiB		
	Standard_A8 / Standard_A10	8 vCPU, 56 GiB	11,000	
	Standard_A9 / Standard_A11	16 vCPU, 112 GiB	22,000	
D-series	Standard_D11	2 vCPU, 14 GiB	2,325	
	Standard_D12	4 vCPU, 28 GiB	4,650	
	Standard_D13	8 vCPU, 56 GiB	9,300	
	Standard_D14	16 vCPU, 112 GiB	18,600	
DS-series	Standard_DS11	2 vCPU, 14 GiB	2,325	
	Standard_DS12	4 vCPU, 28 GiB	4,650	
	Standard_DS13	8 vCPU, 56 GiB	9,300	
	Standard_DS14	16 vCPU, 112 GiB	18,600	
DSv2-series	Standard_DS11_v2	2 vCPU, 14 GiB	3,530	
	Standard_DS12_v2	4 vCPU, 28 GiB	6,680	
	Standard_DS13_v2	8 vCPU, 56 GiB	12,300	
	Standard_DS14_v2	16	24,180	

		vCPU, 112 GiB		
	Standard_DS15_v2	20 vCPU, 140 GiB	30,430	
Dsv3-series	Standard_D2s_v3	2 vCPU, 8 GiB	2,178	CPU hyperthreading enabled on the hypervisor layer
	Standard_D4s_v3	4 vCPU, 16 GiB	4,355	
	Standard_D8s_v3	8 vCPU, 32 GiB	8,710	
	Standard_D16s_v3	16 vCPU, 64 GiB	17,420	
	Standard_D32s_v3	32 vCPU, 128 GiB	34,840	
	Standard_D48s_v3	48 vCPU, 192 GiB	52,224	
	Standard_D64s_v3	64 vCPU, 256 GiB	69,680	
Easv4-series	Standard_E2as_v4	2 vCPU, 16 GiB	3,022	
	Standard_E4as_v4	4 vCPU, 32 GiB	6,044	
	Standard_E8as_v4	8 vCPU, 64 GiB	12,088	
	Standard_E16as_v4	16 vCPU, 128 GiB	24,175	
	Standard_E20as_v4	20 vCPU, 160 GiB	30,219	
	Standard_E32as_v4	32 vCPU,	48,350	

		256 GiB		
	Standard_E48as_v4	48 vCPU, 384 GiB	72,525	
	Standard_E64as_v4	64 vCPU, 512 GiB	96,700	
	Standard_E96as_v4	96 vCPU, 672 GiB	135,080	
Dasv4-series	Standard_D2as_v4	2 vCPU, 8 GiB	3,022	
	Standard_D4as_v4	4 vCPU, 16 GiB	6,044	
	Standard_D8as_v4	8 vCPU, 32 GiB	12,088	
	Standard_D16as_v4	16 vCPU, 64 GiB	24,175	
	Standard_D32as_v4	32 vCPU, 128 GiB	48,350	
	Standard_D48as_v4	48 vCPU, 192 GiB	72,525	
	Standard_D64as_v4	64 vCPU, 256 GiB	96,700	
	Standard_D96as_v4	96 vCPU, 384 GiB	135,080	
Esv3-series	Standard_E2s_v3	2 vCPU, 16 GiB	2,178	
	Standard_E4s_v3	4 vCPU, 32 GiB	4,355	
	Standard_E8-4s_v3	4 vCPU, 64	4,378	

		GiB		
	Standard_E8s_v3	8 vCPU, 64 GiB	8,710	
	Standard_E16s_v3	16 vCPU, 128 GiB	17,420	
	Standard_E20s_v3	20 vCPU, 160 GiB	21,775	
	Standard_E32s_v3	32 vCPU, 256 GiB	34,840	
	Standard_E48s_v3	48 vCPU, 384 GiB	52,512	
	Standard_E64is_v3	64 vCPU, 432 GiB	70,050	
	Standard_E64s_v3	64 vCPU, 432 GiB	70,050	
Ddsv4-series	Standard_D2ds_v4	2 vCPU, 8 GiB	3,142	
	Standard_D4ds_v4	4 vCPU, 16 GiB	6,284	
	Standard_D8ds_v4	8 vCPU, 32 GiB	12,569	
	Standard_D16ds_v4	16 vCPU, 64 GiB	25,138	
	Standard_D32ds_v4	32 vCPU, 128 GiB	50,275	
	Standard_D48ds_v4	48 vCPU, 192 GiB	75,413	
	Standard_D64ds_v4	64 vCPU, 256 GiB	100,550	

D(d)sv5-series	Standard_D2(d)s_v5	2 vCPU, 8 GiB	3,405	Only usage of Azure Gen2 VM format is supported Minimum OS: - Windows Server 2012 R2 and higher - SLES 12 SP4 and higher - Red Hat Enterprise Linux 7.6 and higher - Oracle Linux 7.7 and higher Base VHD minimum size supported for VMs without temp disk Standard_Dsv5: 128GB CPU hyperthreading enabled on the hypervisor layer
	Standard_D4(d)s_v5	4 vCPU, 16 GiB	6,810	
	Standard_D8(d)s_v5	8 vCPU, 32 GiB	13,621	
	Standard_D16(d)s_v5	16 vCPU, 64 GiB	27,242	
	Standard_D32(d)s_v5	32 vCPU, 128 GiB	54,483	
	Standard_D48(d)s_v5	48 vCPU, 196 GiB	81,725	
	Standard_D64(d)s_v5	64 vCPU, 256 GiB	108,967	
	Standard_D96(d)s_v5	96 vCPU, 384 GiB	163,450	
Da(d)sv5-series	Standard_D2a(d)s_v5	2 vCPU, 8 GiB	3,070	Only usage of Azure Gen2 VM format is supported Minimum OS: - Windows Server 2012 R2 and higher - SLES 12 SP4 and higher - Red Hat Enterprise Linux 7.7 and higher - Oracle Linux 7.7 and higher Base VHD minimum size supported for Standard_Das_v5 VMs: 128GB
	Standard_D4a(d)s_v5	4 vCPU, 16 GiB	6,140	
	Standard_D8a(d)s_v5	8 vCPU, 32 GiB	12,281	
	Standard_D16a(d)s_v5	16 vCPU, 64 GiB	25,562	
	Standard_D32a(d)s_v5	32 vCPU, 128 GiB	49,123	
	Standard_D48a(d)s_v5	48 vCPU, 196 GiB	73,685	
	Standard_D64a(d)s_v5	64 vCPU,	98,247	

		256 GiB		
	Standard_D96a(d)s_v5	96 vCPU, 384 GiB	147,370	
Edsv4-series	Standard_E2ds_v4	2 vCPU, 16 GiB	3,142	CPU hyperthreading enabled on the hypervisor layer
	Standard_E4ds_v4	4 vCPU, 32 GiB	6,284	
	Standard_E8ds_v4	8 vCPU, 64 GiB	12,569	
	Standard_E16ds_v4	16 vCPU, 128 GiB	25,138	
	Standard_E20ds_v4	20 vCPU, 160 GiB	31,422	
	Standard_E32ds_v4	32 vCPU, 256 GiB	50,275	
	Standard_E48ds_v4	48 vCPU, 384 GiB	75,413	
	Standard_E64ds_v4	64 vCPU, 504 GiB	100,550	
E(d)sv5-series	Standard_E2(d)s_v5	2 vCPU, 16 GiB	3,405	Only usage of Azure Gen2 VM format is supported Minimum OS: - Windows Server 2012 R2 and higher - SLES 12 SP4 and higher - Red Hat Enterprise Linux 7.6 and higher - Oracle Linux 7.7 and higher Base VHD minimum size supported for VMs without temp disk Standard_Esv5: 128GB CPU hyperthreading enabled on the hypervisor layer
	Standard_E4(d)s_v5	4 vCPU, 32 GiB	6,810	
	Standard_E8(d)s_v5	8 vCPU, 64 GiB	13,621	
	Standard_E16(d)s_v5	16 vCPU, 128 GiB	27,242	
	Standard_E20(d)s_v5	20 vCPU,	34,052	

		160 GiB		
	Standard_E32(d)s_v5	32 vCPU, 256 GiB	54,483	
	Standard_E48(d)s_v5	48 vCPU, 384 GiB	81,725	
	Standard_E64(d)s_v5	64 vCPU, 512 GiB	108,967	
	Standard_E96(d)s_v5	96 vCPU, 672 GiB	163,450	
Ea(d)sv5-series	Standard_E2a(d)s_v5	2 vCPU, 16 GiB	3,070	Only usage of Azure Gen2 VM format is supported Minimum OS: - Windows Server 2012 R2 and higher - SLES 12 SP4 and higher - Red Hat Enterprise Linux 7.7 and higher - Oracle Linux 7.7 and higher Base VHD minimum size supported for Standard_Eas_v5 VMs: 128GB
	Standard_E4a(d)s_v5	4 vCPU, 32 GiB	6,140	
	Standard_E8a(d)s_v5	8 vCPU, 64 GiB	12,281	
	Standard_E16a(d)s_v5	16 vCPU, 128 GiB	24,562	
	Standard_E20a(d)s_v5	20 vCPU, 160 GiB	30,702	
	Standard_E32a(d)s_v5	32 vCPU, 256 GiB	49,123	
	Standard_E48a(d)s_v5	48 vCPU, 384 GiB	73,685	
	Standard_E64a(d)s_v5	64 vCPU, 512 GiB	98,247	
	Standard_E96a(d)s_v5	96 vCPU, 672 GiB	147,370	
GS-series	Standard_GS1	2 vCPU,	3,580	

		28 GiB		
	Standard_GS2	4 vCPU, 56 GiB	6,900	
	Standard_GS3	8 vCPU, 112 GiB	11,870	
	Standard_GS4	16 vCPU, 224 GiB	22,680	
	Standard_GS5	32 vCPU, 448 GiB	41,670	
M-series	Standard_M8ms	8 vCPU, 219 GiB	8,616	CPU hyperthreading enabled on the hypervisor layer. Supported OS versions: Windows Server 2016 and 2019 SLES 12 SP3 and higher Red Hat Enterprise Linux 7.3 and higher Oracle Linux 7.3 and higher
	Standard_M16ms	16 vCPU, 438 GiB	17,232	
	Standard_M32ts	32 vCPU, 192 GiB	33,670	
	Standard_M32ls	32 vCPU, 256 GiB	33,670	
	Standard_M32ms	32 vCPU, 875 GiB	34,465	
	Standard_M64ls	64 vCPU, 512 GiB	66,600	
	Standard_M64s	64 vCPU, 1024 GiB	67,315	
	Standard_M64ms	64 vCPU, 1792 GiB	68,930	
	Standard_M128s	128 vCPU, 2048 GiB	134,630	
	Standard_M128ms	128 vCPU,	134,630	

		3892 GiB		
Mv2-series	Standard_M208s_v2	208 vCPU, 2.85 TiB	259,950	CPU hyperthreading enabled on the hypervisor layer. Supported OS versions: Windows Server 2019 SLES 12 SP4 and higher Red Hat Enterprise Linux 7.6 and higher Oracle Linux 7.7 and higher
	Standard_M208ms_v2	208 vCPU, 5.7 TiB	259,950	
	Standard_M416s_v2	416 vCPU, 5.7 TiB	488,230	
	Standard_M416ms_v2	416 vCPU, 11.4 TiB	488,230	
Msv2-series	Standard_M32ms_v2	32 vCPU, 875 GiB	42,711	CPU hyperthreading enabled on the hypervisor layer. Supported OS versions: Windows Server 2019 SLES 12 SP4 and higher Red Hat Enterprise Linux 7.6 and higher Oracle Linux 7.7 and higher Base VHD minimum size supported is: 128GB For Windows guest OS Registry Key described in SAP Note #2553235 is required to be applied
	Standard_M64s_v2	64 vCPU, 1024 GiB	85,432	
	Standard_M64ms_v2	64 vCPU, 1792 GiB	85,432	
	Standard_M128s_v2	128 vCPU, 2048 GiB	170,846	
	Standard_M128ms_v2	128 vCPU, 3892 GiB	170,846	
	Standard_M192is_v2	192 vCPU, 2048 GiB	256,750	
	Standard_M192ims_v2	192 vCPU, 4096 GiB	256,750	
Mdsv2-series	Standard_M32dms_v2	32 vCPU, 875 GiB	42,711	CPU hyperthreading enabled on the hypervisor layer. Supported OS versions: Windows Server 2019 SLES 12 SP4 and higher Red Hat Enterprise Linux 7.6 and higher Oracle Linux 7.7 and higher
	Standard_M64ds_v2	64 vCPU, 1024 GiB	85,432	
	Standard_M64dms_v2	64 vCPU,	85,432	

		1792 GiB		
	Standard_M128ds_v2	128 vCPU, 2048 GiB	170,846	
	Standard_M128dms_v2	128 vCPU, 3892 GiB	170,846	
	Standard_M192ids_v2	192 vCPU, 2048 GiB	256,750	
	Standard_M192idms_v2	192 vCPU, 4096 GiB	256,750	

Microsoft Azure is offering **Constrained vCPU capable VM sizes** with a reduced number of vCPUs.
The vCPU count can be constrained to one half or one quarter of the original VM size. These new VM sizes have a suffix that specifies the number of active vCPUs.

You can use these VM sizes for SAP workload as well if the VM size is derivated from one of the VM types listed above.

The number of SAPS can be calculated with following formula:

> *SAPS of constrained VM = (SAPS of non-constrained VM * Constrained VM vCPU Number) / Non-constrained VM vCPU Number*

Generic Remarks:

- Support for Azure Standard Storage is limited. See SAP Note 2015553 and https://docs.microsoft.com/en-us/azure/virtual-machines/windows/disks-types.
- Not all supported Azure VM types may be available in all regions. For a detailed description of Azure VM types and their regional availability, see http://azure.microsoft.com/en-us/pricing/details/virtual-machines or https://www.azure.cn/en-us/pricing/
- Any of the supported Azure VM types can be used as the (A)SCS and/or Dialog instance(s).
- It is NOT supported using the feature "Nested Virtualization", available on different Azure VM types in combination with SAP software.
- Classic virtual machines will be retired by March 1, 2023. These virtual machines need to be migrated to Azure Resource Manager. For more information, see https://docs.microsoft.com/azure/virtual-machines/classic-vm-deprecation

!!! Important: The VM types listed in the following table are not designed to use Azure Premium Storage. Thus, these VM Types are supported for SAP NetWeaver (A)SCS and SAP NetWeaver application server/dialog instances **only**

VM Series	VM Type	VM Size	2-Tier SAPS	Remark
Dv2-series	Standard_D11_v2	2 vCPU, 14 GiB	3,530	no SAP Database Instance support!

	Standard_D12_v2	4 vCPU, 28 GiB	6,680	
	Standard_D13_v2	8 vCPU, 56 GiB	12,300	
	Standard_D14_v2	16 vCPU, 112 GiB	24,180	
	Standard_D15_v2	20 vCPU, 140 GiB	30,430	
Dv3-series	Standard_D2_v3	2 vCPU, 8 GiB	2,178	
	Standard_D4_v3	4 vCPU, 16 GiB	4,355	
	Standard_D8_v3	8 vCPU, 32 GiB	8,710	
	Standard_D16_v3	16 vCPU, 64 GiB	17,420	
	Standard_D32_v3	32 vCPU, 128 GiB	34,840	
	Standard_D64_v3	64 vCPU, 256 GiB	69,680	
Ev3-series	Standard_E2_v3	2 vCPU, 16 GiB	2,178	
	Standard_E4_v3	4 vCPU, 32 GiB	4,355	
	Standard_E8_v3	8 vCPU, 64 GiB	8,710	
	Standard_E16_v3	16 vCPU, 128 GiB	17,420	
	Standard_E32_v3	32 vCPU, 256 GiB	34,840	
	Standard_E64_v3	64 vCPU, 432 GiB	70,050	
G-series	Standard_G1	2 vCPU, 28 GiB	3,580	
	Standard_G2	4 vCPU, 56 GiB	6,900	
	Standard_G3	8 vCPU, 112 GiB	11,870	
	Standard_G4	16 vCPU, 224 GiB	22,680	
	Standard_G5	32 vCPU, 448 GiB	41,670	

High Availability

The following HA solutions have been tested by Microsoft and the HA software

vendor in combination with SAP software. The best practice using these products on Azure is documented by Microsoft.

- Microsoft supports Windows Server Failover Cluster in Azure virtual machines with Azure Shared Disks and replication for non-shared storage. For more information, see https://support.microsoft.com/en-us/kb/2721672. Whereas SAP does not test its applications with replication for non-shared storage, Microsoft guarantees full transparency of this technology for SAP applications. Therefore, you can operate SAP applications following the guidelines on how to set up HA configurations for SAP NetWeaver applications on Azure. Read the Azure Virtual Machines high availability guides for SAP NetWeaver for more information:

  https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/sap-high-availability-guide-wsfc-shared-disk (SIOS Datakeeper usages requires support through SIOS)

  https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/sap-high-availability-guide-wsfc-file-share

  https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/high-availability-guide-windows-netapp-files-smb

  In case of any issues, refer directly to Microsoft support.

- SUSE Linux Enterprise Server for SAP Applications
  SUSE and Microsoft support the SUSE Linux Enterprise Server for SAP Applications based cluster for HANA System Replication and SAP NetWeaver ASCS. For more information, read SAP Note 2513384, https://docs.microsoft.com/azure/virtual-machines/workloads/sap/sap-hana-high-availability and https://docs.microsoft.com/azure/virtual-machines/workloads/sap/high-availability-guide-suse

- Red Hat Enterprise Linux HA Add-On
  Red Hat and Microsoft support the Red Hat Enterprise Linux HA Add-On for HANA System Replication and SAP NetWeaver ASCS. For more information, read SAP Note 2694118, https://docs.microsoft.com/azure/virtual-machines/workloads/sap/sap-hana-high-availability-rhel and https://docs.microsoft.com/azure/virtual-machines/workloads/sap/high-availability-guide-rhel

Microsoft does not provide support for solutions deviating from the best practices documented by Microsoft.

Support of other 3rd party software solutions not documented by Microsoft is in the responsibility of the respective 3rd party software vendor. For Azure Support check the SAP Notes of the respective 3rd party software vendor.

Other Components

Component	Description
BC-OP-LNX-AZR	Linux on Microsoft Azure

This document refers to

SAP Note/KBA	Title
2133194	Can IQ run in a virtual or cloud environment? - SAP IQ 16.x
3123142	Microsoft Azure - Change SLES Kernel from azure to default
2999679	Indexserver Crash in DataRecovery::LoggerImpl::disableLogRetentionForSe gments()
2871484	SAP supported variants of Red Hat Enterprise Linux
2694118	Red Hat Enterprise Linux HA Add-On on Azure
2628775	Log Segment Consistency Check During Log Backup
2553235	High Paging on Windows Server 2012 or higher affecting overall performance
2513384	SUSE Linux Enterprise Server for SAP Applications on Microsoft Azure
2316233	SAP HANA on Microsoft Azure (Large Instances)
2288344	EIM Applications on Microsoft Azure
2243692	Linux on Microsoft Azure (IaaS) VM: SAP license issues
2233094	DB6: SAP Applications on Azure Using IBM DB2 for Linux, UNIX, and Windows - Additional Information
2191498	SAP on Linux with Azure: Enhanced Monitoring
2145537	Support of SAP BusinessObjects BI platform on Microsoft Azure
2074842	Matrix of liveCache Versions for SCM 7.02 and Later
2039619	SAP Applications on Microsoft Azure using the Oracle Database: Supported Products and Versions
2015553	SAP on Microsoft Azure: Support prerequisites
1861714	Support Details for Microsoft Failover Cluster Support on SAP NetWeaver Systems
1552925	Linux: High Availability Cluster Solutions
1380654	SAP support in IaaS environments
1102124	SAPOSCOL on Linux: Enhanced function

This document is referenced by

SAP Note/KBA	Title
2134316	Can SAP ASE run in a cloud environment? - SAP ASE
2191498	SAP on Linux with Azure: Enhanced Monitoring
3143497	SAP Systems on Windows Server 2022
3123142	Microsoft Azure - Change SLES Kernel from azure to default
3013602	SAP Content Server in IaaS environments
2912040	SAP ASE on Microsoft Azure: Documentation by Microsoft
1999351	Troubleshooting Azure Enhanced Monitoring for SAP
2814271	SAP HANA Backup fails on Azure with Checksum Error
2743751	Troubleshooting SAP ASCS/SCS Instance High Availability in Azure with Azure Internal Load Balancer
2731110	Support of Network Virtual Appliances (NVA) for SAP on Azure
2729475	HWCCT Failed with Error "Hypervisor is not supported" on Azure VMs certified for SAP HANA
2694118	Red Hat Enterprise Linux HA Add-On on Azure
2588867	How to protect against speculative execution vulnerabilities on Microsoft Azure?
2513384	SUSE Linux Enterprise Server for SAP Applications on Microsoft Azure
2369910	SAP Software on Linux: General information
2367194	Use of Azure Premium SSD Storage for SAP DBMS Instance
2327159	SAP NetWeaver License Behavior in Virtual and Cloud Environments
2178632	Key Monitoring Metrics for SAP on Microsoft Azure
2035875	Windows on Microsoft Azure: Adaption of your SAP License
2039619	SAP Applications on Microsoft Azure using the Oracle Database: Supported Products and Versions
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