

2414097 - SAP Applications on IBM Cloud: Supported DB/OS and IBM Cloud Bare Metal Server Types

Version	16	Type	SAP Note
Language	English	Master Language	English
Priority	Recommendations / Additional Info	Category	Installation information
Release Status	Released for Customer	Released On	24.10.2018
Component	BC-OP-LNX-IBM (Linux on IBM Hardware)		

Please find the original document at <https://launchpad.support.sap.com/#/notes/2414097>

Symptom

You would like to know, which SAP products, DB/OS combinations, virtualization technology and IBM Cloud server types are supported in an IBM Cloud IaaS environment [formerly known as IBM SoftLayer or IBM Bluemix].

Other Terms

IBM, Bluemix, SoftLayer, IBM Cloud, IBM DB2 LUW, Linux, Red Hat, RHEL, Windows Server, Microsoft SQL Server, VMware, ESXi, IaaS, Public Cloud

Reason and Prerequisites

IBM Cloud offers bare metal servers and infrastructure services that can be utilized for the deployment of SAP products. This note describes, which SAP products, DB/OS combinations, virtualization technology and IBM Cloud server types are currently supported.

Solution

For more information on IBM Cloud support prerequisites, see SAP note [2414820](#) (SAP on IBM Cloud: Support prerequisites).

IBM Cloud offers various bare metal servers being certified for operating SAP NetWeaver and SAP applications based on SAP NetWeaver. These servers can be ordered with a preinstalled operating system or with a preinstalled VMware ESXi hypervisor. Only these preinstalled configurations are supported for SAP deployments.

The following SAP products are supported on IBM Cloud on physical and VMware virtualized environments:

- **Applications running on the Application Server ABAP as part of SAP NetWeaver 7.0X:**
 - SAP Kernel 7.21 EXT (min. PL #600)
 - SAP Kernel 7.22 EXT (min. PL #100)
 - 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 #600)
 - SAP Kernel 7.22 EXT (min. PL #100)
 - higher SAP Kernel versions
- **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 #100)
- SAP Kernel 7.49 (min. PL #100)
- higher SAP Kernel versions

The following RDBMS platforms are supported:

- IBM DB2 for LUW version 10.5 or higher
- Microsoft Server SQL 2014 or higher
- SAP HANA

See the detailed server specifications in the IaaS Platform section of the Certified and Supported [SAP HANA Directory](#)

The following operating systems are supported:

- Red Hat Enterprise Linux 6 (RHEL6) or higher
- SUSE Linux Enterprise Server 12 SP2 for SAP Applications or higher
- Windows Server 2012 R2 and 2016

Valid DB/OS combinations for these Applications can be derived by consulting the SAP Product Availability Matrix ([PAM](#)).

Only with respect to the supported RDBMS and OS versions mentioned above running in guest VMs, the following virtualization technology is supported:

- VMware ESXi 6.0 and higher, see detailed info in SAP Notes [1409608](#) and [1122387](#)

IBM Cloud provides a preinstalled unmanaged hypervisor environment for virtualization, where the end customers maintain full control over their virtualized environment. Customers are responsible for patching the hypervisor to ensure that its version matches with a version supported by SAP. IBM Cloud will make major release updates available, but will not force customers to patch or update.

To achieve a hypervisor configuration which fulfills SAP's support requirements, customers have to adapt its configuration accordingly. For the configuration of VMware ESXi, see SAP Note [2161991](#) (VMware vSphere configuration guidelines).

SAP Business Objects

For the support of support of SAP BusinessObjects Business Intelligence suite on IBM Cloud see SAP Note [2279688](#).

SAP Business One

SAP Business One (B1), version **for SQL Server** according to the [Hardware Requirements Guide](#).

Supported IBM Cloud bare metal server types for SAP products

For non-HANA RDBMS platforms, the following IBM Cloud bare metal server types (server sizes) are supported in 2-tier or 3-tier configurations and can be used as application servers and standalone database servers. They were sized according to publicly available standard benchmarks (see <https://www.sap.com/about/benchmark/appbm/cloud.html>).

Server type	CPU	Server Size	SAPS
Bl.S1.NW32	1 * Haswell E3-1270 v3	4 CPU, 32 GB	10980
Bl.S1.NW128	2 * Haswell E5-2690 v3	24 CPU, 128 GB	54130

Bl.S1.NW256	2 * Haswell E5-2690 v3	24 CPU, 256 GB	55020
Bl.S1.NW512	2 * Broadwell E5-2690 v4	28 CPU, 512 GB	65520
Bl.S3.NW32	1 * KabyLake E3-1270 v6	4 CPU, 32 GB	11970
Bl.S3.NW64	1 * KabyLake E3-1270 v6	4 CPU, 64 GB	12750
Bl.S3.NW192	2 * Skylake Gold 6140	36 CPU, 192 GB	78850
Bl.S3.NW384	2 * Skylake Gold 6140	36 CPU, 384 GB	79430
Bl.S3.SW768	2 * Skylake Gold 6140	36 CPU, 768 GB	79630

For HANA platforms provided by IBM Cloud, see [Certified IaaS Platforms](#) on the SAP HANA Certified and Supported Hardware Directory.

For further information, e.g. how to get started, please consult <https://console.bluemix.net/docs/infrastructure/sap-netweaver/sap-index.html#getting-started>.

Other Components

Component	Description
BC-OP-NT-IBM	Windows on IBM platform

This document refers to

SAP Note/KBA	Title
84855	Windows Server, Linux, and UNIX: Certified hardware
2414820	SAP on IBM Cloud: Support prerequisites
2279688	Support of SAP BusinessObjects BI platform on IBM Cloud
2161991	VMware vSphere configuration guidelines
171380	Released IBM hardware (Intel processors) and IBM cloud services offers
1409608	Virtualization on Windows
1122387	Linux: SAP Support in virtualized environments

This document is referenced by

SAP Note/KBA	Title
1380654	SAP support in public cloud environments
1409608	Virtualization on Windows
2414820	SAP on IBM Cloud: Support prerequisites
1122387	Linux: SAP Support in virtualized environments