

IBM Cloud for SAP Workloads

Pricing Document



Pricing Document

1.0 IBM Cloud Portal

IBM Cloud sometimes makes changes to offerings, included but not limited to: changing offering names, adding new offerings, removing existing offerings, adding or removing offering capabilities, changing costs per unit, changing units used to measure cost.

For further, updated information regarding all offerings, plus support and guidance on application running costs, contact your IBM representative or follow the link: <https://cloud.ibm.com/>

IBM Cloud provides a detailed cost estimator, and a down-to-the-penny cost calculator to help you plan for charges. You can check the actual cost after you build your apps through the IBM Cloud Dashboard. Where costs differ between this document and the IBM Cloud cost estimator tools, the tools should be considered to provide the correct price.

To calculate the cost of running an application on IBM Cloud, follow the link: <https://cloud.ibm.com/estimator>

*(**Please note:** these estimated prices will not include the 18% discount that are available to all UK Public Sector organisations – the prices in this document do include the 18% discount from list price.)*

There are the following billing options:

- **Pay-As-You-Go:** charged based on your use of provisioned Cloud compute and services
- **Subscription:** discounts are available based on a minimum monthly spending commitment and length of contract

1.1 Volume Discounts

Available subject to sizing and Statement of Work

1.2 Combination Discounts

The list prices provided below are discounted in accordance with the discount and terms agreed in the Memorandum of Understanding signed with Crown Commercial Service. This discount is a government wide discount calculated in January and July of each year and will increase from time to time depending upon the volume of Government purchases from IBM Cloud.

Please contact your IBM representative for further information on the current prevailing discount

1.3 Education Pricing

Available subject to sizing and Statement of Work.

1.4 Unit Based Pricing

This document provides a selection of servers certified to run SAP applications in IBM Cloud, London location, as of April 2024. For the full range, and for detailed pricing, please visit cloud.ibm.com.

Note: In the following tables, if a device is Hana certified, it may be assumed that it is also NetWeaver certified.

Virtual Server Instances for VPC (April 2024)

SAP NetWeaver

Profile	Type	vCPU	RAM	Instance Storage	SAPS
bx2-2x8	Balanced	2	8 GB		2,306
bx2d-2x8	Balanced	2	8 GB	1 x 75 GB	2,306
bx2-4x16	Balanced	4	16 GB		4,613
bx2d-4x16	Balanced	4	16 GB	1 x 150 GB	4,613
bx2-8x32	Balanced	8	32 GB		9,225
bx2d-8x32	Balanced	8	32 GB	1 x 300 GB	9,225
bx2-16x64	Balanced	16	64 GB		18,450
bx2d-16x64	Balanced	16	64 GB	1 x 600 GB	18,450
bx2-32x128	Balanced	32	128 GB		36,900
bx2d-32x128	Balanced	32	128 GB	2 x 600 GB	36,900
bx2-48x192	Balanced	48	192 GB		55,350
bx2d-48x192	Balanced	48	192 GB	2 x 900 GB	55,350
bx2-64x256	Balanced	64	256 GB		81,685

bx2d-64x256	Balanced	64	256 GB	2 x 1200 GB	81,685
bx2-96x384	Balanced	96	384 GB		122,528
bx2d-96x384	Balanced	96	384 GB	2 x 1800 GB	122,528
bx2-128x512	Balanced	128	512 GB		163,370
bx2d-128x512	Balanced	128	512 GB	2 x 2400 GB	163,370
cx2d-2x4	Compute	2	4 GB	1 x 75 GB	2,238
cx2d-4x8	Compute	4	8 GB	1 x 150 GB	4,475
cx2d-8x16	Compute	8	16 GB	1 x 300 GB	8,950
cx2d-16x32	Compute	16	32 GB	1 x 600 GB	17,900
cx2d-32x64	Compute	32	64 GB	2 x 600 GB	35,800
cx2d-48x96	Compute	48	96 GB	2 x 900 GB	53,700
cx2d-64x128	Compute	64	128 GB	2 x 1200 GB	71,600
cx2d-96x192	Compute	96	192 GB	2 x 1800 GB	107,400
cx2-128x256	Compute	128	256 GB		143,200
cx2d-128x256	Compute	128	256 GB	2 x 2400 GB	143,200
mx2-2x16	Memory	2	16 GB		2,571
mx2d-2x16	Memory	2	16 GB	1 x 75 GB	2,571
mx2-4x32	Memory	4	32 GB		5,141
mx2d-4x32	Memory	4	32 GB	1 x 150 GB	5,141
mx2-8x64	Memory	8	64 GB		10,283
mx2d-8x64	Memory	8	64 GB	1 x 300 GB	10,283
mx2-16x128	Memory	16	128 GB		20,565
mx2d-16x128	Memory	16	128 GB	1 x 600 GB	20,565
mx2-32x256	Memory	32	256 GB		41,130
mx2d-32x256	Memory	32	256 GB	2 x 600 GB	41,130
mx2-48x384	Memory	48	384 GB		56,970
mx2d-48x384	Memory	48	384 GB	2 x 900 GB	56,970
mx2-64x512	Memory	64	512 GB		81,015
mx2-96x768	Memory	96	768 GB		121,523
mx2-128x1024	Memory	128	1024 GB		162,030
vx2d-2x28	Very high memory	2	28 GB	1 x 60 GB	2,131
vx2d-4x56	Very high memory	4	56 GB	1 x 120 GB	4,262
vx2d-8x112	Very high memory	8	112 GB	1 x 240 GB	8,523
vx2d-16x224	Very high memory	16	224 GB	1 x 480 GB	17,046
vx2d-44x616	Very high memory	44	616 GB	1 x 1320 GB	46,875
vx2d-88x1232	Very high memory	88	1232 GB	2 x 1320 GB	93,750

vx2d-144x2016	Very high memory	144	2016 GB	2 x 2160 GB	153,410
vx2d-176x2464	Very high memory	176	2464 GB	2 x 2640 GB	187,500
ux2d-2x56	Ultra high memory	2	56 GB	1 x 60 GB	2,156
ux2d-4x112	Ultra high memory	4	112 GB	1 x 120 GB	4,312
ux2d-8x224	Ultra high memory	8	224 GB	1 x 240 GB	8,623
ux2d-16x448	Ultra high memory	16	448 GB	1 x 480 GB	17,246
ux2d-36x1008	Ultra high memory	36	1008 GB	1 x 1080 GB	38,803
ux2d-48x1344	Ultra high memory	48	1344 GB	2 x 720 GB	51,737
ux2d-72x2016	Ultra high memory	72	2016 GB	2 x 1080 GB	77,606
ux2d-100x2800	Ultra high memory	100	2800 GB	2 x 1500 GB	107,785
ux2d-200x5600	Ultra high memory	200	5600 GB	2 x 3000 GB	215,570

SAP HANA

Profile	Type	vCPU	RAM	Instance Storage	SAPS
mx2-16x128	Memory	16	128 GB		20565
mx2d-16x128	Memory	16	128 GB	1 x 600 GB	20565
mx2-32x256	Memory	32	256 GB		41130
mx2d-32x256	Memory	32	256 GB	2 x 600 GB	41130
mx2-48x384	Memory	48	384 GB		56970
mx2d-48x384	Memory	48	384 GB	2 x 900 GB	56970
vx2d-16x224	Very high memory	16	224 GB	1 x 480 GB	17046
vx2d-44x616	Very high memory	44	616 GB	1 x 1320 GB	46875
vx2d-88x1232	Very high memory	88	1232 GB	2 x 1320 GB	93750
vx2d-144x2016	Very high memory	144	2016 GB	2 x 2160 GB	153410
vx2d-176x2464	Very high memory	176	2464 GB	2 x 2640 GB	187500
ux2d-8x224	Ultra high memory	8	224 GB	1 x 240 GB	8623
ux2d-16x448	Ultra high memory	16	448 GB	1 x 480 GB	17246

ux2d-36x1008	Ultra high memory	36	1008 GB	1 x 1080 GB	38803
ux2d-48x1344	Ultra high memory	48	1344 GB	2 x 720 GB	51737
ux2d-72x2016	Ultra high memory	72	2016 GB	2 x 1080 GB	77606
ux2d-100x2800	Ultra high memory	100	2800 GB	2 x 1500 GB	107785
ux2d-200x5600	Ultra high memory	200	5600 GB	2 x 3000 GB	215570

Bare Metal Servers for VPC

Profile	Type	vCPU	Cores	RAM	Bandwidth	Local Disk
bx2-metal-96x384	Balanced	96	48	384 GB	100 Gbps	1 x 960 GB
bx2d-metal-96x384	Balanced	96	48	384 GB	100 Gbps	1 x 960 GB, 8 x 3200 GB
cx2-metal-96x192	Compute	96	48	192 GB	100 Gbps	1 x 960 GB
cx2d-metal-96x192	Compute	96	48	192 GB	100 Gbps	1 x 960 GB, 8 x 3200 GB
mx2-metal-96x768	Memory	96	48	768 GB	100 Gbps	1 x 960 GB
mx2d-metal-96x768	Memory	96	48	768 GB	100 Gbps	1 x 960 GB, 8 x 3200 GB

Bare Metal Servers – Classic

Profile	Cores	RAM	Storage Type
BI.S4.NW384 (VMware)	32	384 GB	Up to 12 Drives
BI.S4.NW768 (VMware)	40	768 GB	Up to 12 Drives
BI.S4.H2.1500 Appliance	56	1536 GB	5 Drives
BI.S4.H4.3000 Appliance	112	3072 GB	7 Drives
BI.S3.NW32 (OS Options)	4	32 GB	Up to 4 Drives
BI.S3.NW64 (OS Options)	4	64 GB	Up to 4 Drives
BI.S4.H2.384 Appliance	32	384 GB	7 Drives
BI.S4.H2.192 (boot only)	32	192 GB	2 Drives
BI.S4.H2.192 (Appliance)	32	192 GB	5 Drives
BI.S4.H2.384 (boot only)	32	384 GB	2 Drives
BI.S4.NW192 (OS Options)	32	192 GB	Up to 12 Drives
BI.S4.NW384 (OS Options)	32	384 GB	Up to 12 Drives
BI.S4.NW192 (VMware)	32	192 GB	Up to 12 Drives
BI.S4.H2.192 (VMware)	32	192 GB	Up to 12 Drives
BI.S4.H2.384 (VMware)	36	768 GB	Up to 12 Drives

BI.S3.NW768 (VMware)	36	384 GB	Up to 12 Drives
BI.S3.NW384 (VMware)	36	192 GB	Up to 12 Drives
BI.S3.NW192 (VMware)	36	768 GB	Up to 12 Drives
BI.S3.NW768 (OS Options)	36	384 GB	Up to 12 Drives
BI.S3.NW84 (OS Options)	36	192 GB	Up to 12 Drives
BI.S3.NW192 (OS Options)	36	768 GB	7 Drives
BI.S3.H2.768	40	768 GB	7 Drives
BI.S4.H2.768 (Appliance)	40	768 GB	2 Drives
BI.S4.H2.768 (boot only)	40	768 GB	Up to 12 Drives
BI.S4.NW768 (OS Options)	36	192 GB	Up to 12 Drives
BI.S3.H2.192 (VMware)	36	384 GB	Up to 12 Drives
BI.S3.H2.384 (VMware)	36	768 GB	Up to 12 Drives
BI.S3.H2.768 (VMware)	40	768 GB	Up to 12 Drives
BI.S4.H2.768 (VMware)	96	2048 GB	Up to 24 Drives
BI.S4A.NW2000 (OS Options)	96	4096 GB	Up to 24 Drives
BI.S4A.NW4000 (OS Options)	48	768 GB	7 Drives
BI.S4.H2.768 v2 Appliance	48	768 GB	Up to 12 Drives
BI.S4.NW768_v2 (OS Options)	48	768 GB	Up to 12 Drives
BI.S4.NW768_v2 (VMware)	56	3072 GB	7 Drives
BI.S4.H2.3000 Appliance	56	3072 GB	2 Drives
BI.S4.H2.3000 (boot only)	56	1536 GB	2 Drives
BI.S4.H2.1500 (boot only)	56	768 GB	12 Drives
BI.S4.H2.768GB RAM + 3TB Persistent Memory	56	768 GB	10 Drives
BI.S4.H2.768GB RAM + 1.5TB Persistent Memory	56	1536 GB	10 Drives
BI.S4.H2.1.5TB RAM + 3TB Persistent Memory	56	1536 GB	12 Drives
BI.S4.H2.1.5TB RAM + 1.5 TB Persistent Memory	56	384 GB	10 Drives
BI.S4.H2.384GB RAM + 1.5TB Persistent Memory	56	1536 GB	Up to 12 Drives
BI.S4.NW1500 (VMware)	56	3072 GB	Up to 12 Drives
BI.S4.NW3000 (VMware)	56	1536 GB	Up to 12 Drives
BI.S4.H2.1500 (VMware)	56	3072 GB	Up to 12 Drives
BI.S4.H2.3000 (VMware)	112	6144 GB	2 Drives
BI.S4.H4.6000 (boot only)	112	3072 GB	2 Drives
BI.S4.H4.3000 (boot only)	112	6144 GB	7 Drives
BI.S4.H4.6000 Appliance	112	6144 GB	Up to 24 Drives
BI.S4.H4.6000 (VMware)	112	3072 GB	Up to 24 Drives
BI.S4.H4.3000 (VMware)	112	768 GB	14 Drives
BI.S4.H4.768GB RAM + 3TB Persistent Memory	112	3072 GB	14 Drives
BI.S4.H4.3TB RAM + 6TB Persistent Memory	112	1536 GB	14 Drives
BI.S4.H4.1.5TB RAM + 6TB Persistent Memory	112	3072 GB	12 Drives
BI.S4.H4.3TB RAM + 3TB Persistent Memory	112	1536 GB	10 Drives
BI.S4.H4.1.5TB RAM + 3TB Persistent Memory	224	6144 GB	2 Drives

BI.S4.H8.6000 (boot only)	224	12288 GB	11 Drives
BI.S4.H8.12000 Appliance	224	6144 GB	7 Drives
BI.S4.H8.6000 Appliance	224	6144 GB	Up to 24 Drives
BI.S4.H8.6000 (VMware)	224	1536 GB	14 Drives
BI.S4.H8.1.5TB RAM + 6TB Persistent Memory	224	6144 GB	14 Drives
BI.S4.H8.6TB RAM + 12TB Persistent Memory	224	6144 GB	14 Drives
BI.S4.H8.6TB RAM + 6TB Persistent Memory	224	3072 GB	14 Drives
BI.S4.H8.3TB RAM + 12TB Persistent Memory	224	3072 GB	14 Drives

Power Systems Virtual Server

The IBM Power Virtual Server are available with fully adjustable CPU Cores and Memory (RAM GB). It is permitted to define a custom size of the IBM Power Virtual Server to use for SAP NetWeaver, in accordance with existing SAP NetWeaver or SAP AnyDB for IBM Power Systems best practices and guidance from SAP.

For SAP applications the following virtual server configurations are supported. Given SAP NetWeaver instance sizing is flexible, it must follow the standard SAP sizing guidelines:

Type	SAPS per CPU Core	SAPS per CPU Thread
S922	5,570	696.25
E980	6,000	750

For Hana use in production the following instances are pre-defined and tested, running on an E980:-

Profile	Cores	RAM
ush1-4x128	4	128
ush1-4x512	4	512
umh-4x960	4	960
mh1-8x1440	8	1,440
mh1-10x1800	10	1,800

bh1-16x1600	16	1,600
umh1-16x3840	16	3,840
mh1-25x4500	25	4,500
bh1-30x3000	30	3,000
mh1-50x9000	50	9,000
ch1-60x3000	60	3,000
bh1-60x6000	60	6,000
umh-60x14400	60	14,400
mh1-80x14400	80	14,400
ch1-100x5000	100	5,000
mh1-125x-22500	125	22,500
ch1-140x7000	140	7,000
bh1-140x14000	140	14,000

Operating System - options available include:

- Red Hat Enterprise Linux for SAP HANA Versions 7.x – 9.x
- Red Hat Enterprise Linux for SAP Applications Versions 7.x – 9.x
- SUSE Linux Enterprise Server for SAP HANA Versions 12 SPx, 15 SPx
- SUSE Linux Enterprise Server for SAP Applications. Versions 12 SPx, 15 SPx

Storage & Networking Options

To assist your project's planning phase, IBM Cloud Docs (IBM Cloud® for SAP portfolio section) includes the following design considerations:

Storage:

<https://cloud.ibm.com/docs/sap?topic=sap-storage-design-considerations>

Networking:

<https://cloud.ibm.com/docs/sap?topic=sap-networking-design-considerations>

1.5 Sector Pricing

Available subject to sizing and Statement of Work.

1.6 Resourced Based Pricing

Separate pricing will be available for operational resource, depending upon requirements.

IBM will convert the U.S. Dollars charges using an exchange rate as required by law or based upon a Bloomberg daily spot rate on the business day prior to the date IBM prepares your bill in your local currency.

The exchange rate used to calculate your monthly bill may differ over time. If the exchange rate fluctuates this will affect the £UKP price shown. The representative local currency amounts shown here were calculated using an exchange rate of **£GBP 0.7865 / \$USD**.

There may be additional charges for connectivity (PSN, ALI/RLI), Data Halls and Accreditation. Any such pricing for these dependent activities will be detailed during the initial project design phase.

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Further pricing and information can be found at <https://cloud.ibm.com/catalog>



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