

IBM Cloud Infrastructure Center 1.1.3 benefits include resizing and live migration for virtual machines

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At a glance

IBM Cloud^(R) Infrastructure Center 1.1.3 enhancements include support for the following:

- Resizing of virtual machines (VMs), which are based on IBM^(R) z/VM^(R) and Red Hat^(R) Enterprise Linux^(R) (RHEL) kernel-based virtual machine (KVM), through a command-line interface or API
- Live migration for RHEL KVM-based virtual machines from one host to another host with little or no downtime
- Improvements to volume and storage support, including booting from persistent storage, such as the IBM DS8000^(R) series
- RHEL 7.9 and RHEL 8.3 as guest operating systems

Overview

Cloud computing has become the standard use model for IT services, and a cloud infrastructure requires lifecycle management. In many cases, IT organizations are shifting workloads to a hybrid cloud architecture that blends an on-premises infrastructure with private and public cloud models.

The market is demanding new and better digital products and services, and the cloud model can help organizations meet this demand and get their goods and services to market faster. To help avoid the cost of deploying and managing the cloud becoming an issue, it is important to use tools with automation capabilities. The best tools are based on industry standards, can be easily integrated into the enterprise hybrid cloud environment, and leverage common skills for cloud management.

Cloud Infrastructure Center meets the demands of the hybrid cloud strategy by providing a ready-to-use solution for a consistent industry-standard user experience for the following:

- Advanced cloud infrastructure management, including on-premises cloud deployments of IBM z/VM and Red Hat KVM-based Linux VMs on IBM Z^(R) and LinuxONE
- Deployment of images of Linux operating systems plus applications that include Red Hat CoreOS as part of the Red Hat OpenShift^(R) Container Platform
- Integration capabilities to cloud management tools with built-in OpenStack-compatible APIs to provision and orchestrate cloud workloads

Cloud Infrastructure Center is part of the IBM hybrid cloud solution portfolio for IBM Z and LinuxONE.

Cloud Infrastructure Center 1.1.3 offers the following benefits:

- Improved administrator productivity and simplified lifecycle management of Linux VMs and related resource bindings on IBM Z and LinuxONE servers
- A consistent industry-standard experience that can:
 - Integrate with cloud management tools to provision and orchestrate cloud workloads
 - Instantiate, define, capture, and manage the lifecycle of VMs
 - Deploy images into VMs, including the deployment of Red Hat OpenShift clusters
- Support for multisite infrastructure management

Cloud Infrastructure Center 1.1.3 is built to require little or no training by users to manage virtual infrastructures. It has the same usage and skill requirements as similar infrastructure-as-a-service offerings on other platforms. Cloud administrators who integrate IBM Z into the enterprise hybrid cloud using the built-in APIs of Cloud Infrastructure Center do not need to possess specific IBM Z or LinuxONE skills.

Cloud Infrastructure Center follows a continuous delivery support model.

Key requirements

Cloud Infrastructure Center 1.1.3 requires an IBM Z or an IBM LinuxONE server.

Cloud Infrastructure Center 1.1.3 can be used as a host environment on z/VM or RHEL-based KVM.

For additional details, see the [Technical information](#) section.

Planned availability date

February 26, 2021

Description

Cloud Infrastructure Center 1.1.3 meets the demands of hybrid cloud by providing a ready-to-use solution for a consistent industry-standard cloud infrastructure management. This includes on-premises cloud deployments of z/VM and Red Hat KVM-based Linux VMs on IBM Z and LinuxONE.

Cloud Infrastructure Center 1.1.3 delivers the following capabilities:

- Designed for easy provisioning of VM instances based on z/VM or RHEL-based KVM into an on-premises cloud using either a self-service portal that includes network and storage bindings or, optionally, image deployment or automated deployment using Terraform, CloudForms^(R), or Ansible^(R)
- Resizing of the z/VM and KVM-based VM through a command-line interface or API
- Support for live migration for KVM-based VMs from one host to another host without downtime
- Fast provisioning of virtual infrastructure to be consumed by Red Hat OpenShift
- Infrastructure provisioning that can be confined by workflow-driven policies, such as approval flows, expiration dates, or resource quotas

- Discovery and onboarding of preexisting VMs to be managed by Cloud Infrastructure Center 1.1.3
- Support for Lightweight Directory Access Protocol (LDAP) to meet enterprise identity mapping requirements
- Enablement of Fibre Channel Protocol (FCP) SCSI-only VMs and their automated configuration of I/O and network resources
- Support for KVM-based compute nodes to store data on software-defined storage (IBM Spectrum^(R) Scale, Network File System [NFS]), such as VM images
- Telemetry support through API to consume telemetry monitoring data
- Boot support for persistent storage from DS8000 series, IBM SAN Volume Controller [SVC], and IBM FlashSystem^(R) family (FS9200, FS9250, and others) for z/VM
- Attach and detach persistent storage volumes supported for KVM-based VMs from DS8000 series, SVC, and FlashSystem family
- Support for the definition of availability zones and collocation rules to place infrastructure resources, such as a VM, into a desired location with fine granularity and rule control that can span multiple sites
- Image management that includes VM image capture, catalogue, deployment, and multitenancy support
- Designed for easy integration into higher-level cloud automation and orchestration tools, such as IBM Cloud Pak^(R) for Multicloud Management, VMware^(R) vRealize Automation, Red Hat CloudForms, Red Hat Ansible, and Terraform
- Federation of an on-premises cloud with other Red Hat OpenStack clouds using Red Hat OpenStack-compatible APIs establishing a multiregion cloud
- Provisioning of VMs running Linux distributions from Red Hat, SUSE, and Canonical
- Deployment of Red Hat CoreOS as part of the Red Hat OpenShift Container Platform for z/VM
- Built to require no specific platform skills from the user and minimal platform skills from the administrator to accelerate cloud deployments

Accessibility by people with disabilities

Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Report Request](#) website.

Reference information

For information about IBM 's infrastructure for hybrid cloud see the [IBM IT infrastructure fuels hybrid cloud](#) and [4 ways to transform your mainframe for a hybrid cloud world](#) websites.

For information about Cloud Infrastructure Center, see:

- Software Announcement [A20-0596](#), dated October 6, 2020
- Software Announcement [A20-0215](#), dated April 14, 2020
- Software Announcement [A19-0785](#), dated December 3, 2019

For information about Cloud Pak for Data, see:

- Software Announcement [A20-0711](#), dated October 27, 2020
- Software Announcement [A20-0484](#), dated July 7, 2020
- Software Announcement [A20-0482](#), dated June 23, 2020
- Software Announcement [A20-0130](#), dated March 10, 2020
- Software Announcement [A19-0734](#), dated October 15, 2019

For information about Cloud Pak for Integration, see:

- Software Announcement [A20-0700](#), dated December 1, 2020
- Software Announcement [A20-0492](#), dated September 22, 2020
- Software Announcement [A20-0475](#), dated June 23, 2020
- Software Announcement [A20-0255](#), dated April 28, 2020

For information about Cloud Pak for Multicloud Management, see:

- Software Announcement [A20-0763](#), dated December 8, 2020
- Software Announcement [A20-0671](#), dated October 13, 2020
- Software Announcement [A20-0555](#), dated July 21, 2020
- Software Announcement [A20-0474](#), dated July 14, 2020
- Software Announcement [A20-0370](#), dated June 9, 2020
- Software Announcement [A20-0119](#), dated March 3, 2020

For information about Cloud Pak for Automation, see:

- Software Announcement [A20-0531](#), dated November 3, 2020
- Software Announcement [A20-0639](#), dated October 13, 2020
- Software Announcement [A19-0711](#), dated October 22, 2019
- Software Announcement [A19-0602](#), dated August 13, 2019
- Software Announcement [A19-0359](#), dated June 3, 2019
- Software Announcement [A19-0409](#), dated May 28, 2019
- Software Announcement [A19-0099](#), dated February 12, 2019

For information about IBM Red Hat Enterprise Linux on IBM Z, see Software Announcement [A20-0581](#), dated September 15, 2020.

For information about Red Hat OpenShift Container Platform and IBM Cloud Paks on Linux on IBM Z and IBM LinuxONE platforms, see Software Announcement

[A19-0797](#), dated October 22, 2019.

For information about z/VM 7.2, see:

- Software Announcement [A20-0486](#), dated August 4, 2020
- Software Announcement [A20-0140](#), dated April 14, 2020

For information about z/VM 7.1, see:

- Software Announcement [A18-0805](#), dated October 16, 2018
- Software Announcement [A18-0477](#), dated August 7, 2018
- Software Announcement [A18-0230](#), dated April 10, 2018

For information about z15™, see

- Hardware Announcement [A20-0504](#), dated August 4, 2020
- Hardware Announcement [A20-0050](#), dated April 14, 2020
- Hardware Announcement [A20-0075](#), dated January 14, 2020
- Hardware Announcement [A19-0846](#), dated November 26, 2019
- Hardware Announcement [A19-0283](#), dated September 12, 2019

For information about LinuxONE III, see:

- Hardware Announcement [A20-0509](#), dated August 4, 2020

- Hardware Announcement [A20-0076](#), dated April 14, 2020
- Hardware Announcement [A20-0075](#), dated January 14, 2020
- Hardware Announcement [A19-0225](#), dated September 12, 2019

For information about z14, see:

- Hardware Announcement [A18-0610](#), dated October 2, 2018
- Hardware Announcement [A17-0866](#), dated November 28, 2017
- Hardware Announcement [A17-0392](#), dated July 17, 2017

For information about Emperor II, see:

- Hardware Announcement [A17-0866](#), dated November 28, 2017
- Hardware Announcement [A17-0572](#), dated September 12, 2017

For information about z14 Model ZR1, see:

- Hardware Announcement [A18-0610](#), dated October 2, 2018
- Hardware Announcement [A18-0133](#), dated April 10, 2018

For information about LinuxONE Rockhopper II, see:

- Hardware Announcement [A18-0630](#), dated October 2, 2018
- Hardware Announcement [A18-0133](#), dated April 10, 2018

Program number

Program number	VRM	Program name
5635-015	1.1.3	IBM Cloud Infrastructure Center Per Virtual Server
5635-016	1.1.0	IBM Cloud Infrastructure Center Per Virtual Server S&S
5635-017	1.1.3	IBM Cloud Infrastructure Center Per Engine
5635-018	1.1.0	IBM Cloud Infrastructure Center Per Engine S&S

Note: Per Engine equates with Per Core.

Program number	Subscription and support program number
5635-015	5635-016
5635-017	5635-018

Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers can be found on the [IBM Training and Skills](#) website.

Call IBM training at 800-IBM-TEACH (426-8322) for catalogues, schedules, and enrollments.

Specific product education on z/OS^(R) Cloud Broker is available on [IBM Knowledge Center](#).

Offering Information

Product information is available on the [IBM Offering Information](#) website.

Publications

Technical documentation will be available in [IBM Knowledge Center](#) on February 26, 2021.

Services

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of the lab-based software services team and the business consulting, project management, and infrastructure expertise of the IBM Global Services team. Also, IBM extends the reach of IBM Software Services through IBM Business Partners to provide an extensive portfolio of capabilities. IBM provides the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services, contact your Lab Services Sales or Delivery Leader.

Technical information

Specified operating environment

Hardware requirements

Cloud Infrastructure Center 1.1.3 is supported on the following hardware platforms:

- z15 (all models)
- z14 (all models)
- z13
- z13s
- LinuxONE III
- LinuxONE Emperor II
- LinuxONE Emperor I
- LinuxONE Rockhopper II
- LinuxONE Rockhopper I

Software requirements

Cloud Infrastructure Center 1.1.3 requires the following software:

- As a managed hypervisor:
 - z/VM 7.2, z/VM 7.1, or KVM as part of RHEL 8.2
- As a host environment on z/VM or KVM:
 - RHEL 8.2
- As a deployable guest operating system instance on z/VM:
 - RHEL 7.7, 7.8, 7.9, 8.1, 8.2, or 8.3
 - Red Hat CoreOS 4.4, or later
 - SLES 15 SP1 or 15 SP2
 - Ubuntu 20.04
- As a deployable guest operating system instance on KVM:

- RHEL 7.7, 7.8, 7.9, 8.1, 8.2, or 8.3

Note: For a list of supported RHEL releases for the respective hardware platforms, see the individual IBM hardware announcements in the [Reference information](#) section.

Detailed software requirements for Cloud Infrastructure Center will be available in [IBM Knowledge Center](#) on February 26, 2021.

IBM Support

[IBM Support](#) is your gateway to technical support tools and resources that are designed to help you save time and simplify support. IBM Support can help you find answers to questions, download fixes, troubleshoot, submit and track problem cases, and build skills. Learn and stay informed about the transformation of IBM Support, including new tools, new processes, and new capabilities, by going to the [IBM Support Insider](#).

Planning information

Packaging

Cloud Infrastructure Center Per Virtual Server (5635-015) is packaged as follows:

Deliverable	Form number	Medium
Cloud Infrastructure Center Licensed Code	LCD8-2802-03	Electronic
Cloud Infrastructure Center Licensed Code DVD	LCD8-2801-03	Physical
Cloud Infrastructure Center License Information	GC13-5802-03	Electronic
Cloud Infrastructure Center License Information CD	LC28-3021-03	Electronic Physical
Cloud Infrastructure Center README	GI13-5801-03	Electronic Physical

Cloud Infrastructure Center Per Engine (5635-017) is packaged as follows:

Deliverable	Form number	Medium
Cloud Infrastructure Center Licensed Code	LCD8-2815-01	Electronic
Cloud Infrastructure Center Licensed Code DVD	LCD8-2812-01	Physical
Cloud Infrastructure Center License Information	GC13-5803-01	Electronic
Cloud Infrastructure Center License Information CD	LC28-3022-01	Electronic Physical
Cloud Infrastructure Center README	GI13-5802-01	Electronic Physical

IBM recommends internet delivery from [Shopz](#). However, if you still require physical media, you can choose DVD. Contact your IBM representative or IBM Business Partner.

Security, auditability, and control

Cloud Infrastructure Center uses the security and auditability features of the host operating system software.

The client is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

Consult your IBM representative.

Ordering Cloud Infrastructure Center through the internet

Shopz provides an easy way to plan and order this offering. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). You can also contact your IBM representative or IBM Business Partner to handle your order using the traditional IBM ordering process. For more details and availability, see the [Shopz](#) website.

Cloud Infrastructure Center is eligible for internet delivery using the Shopz website and is planned to be available at the general availability. of Cloud Infrastructure Center.

Charge metric

The charge metrics for these licensed programs can be found in the following License Information documents:

Program identifier	License Information document title	License Information document number
5635-015	IBM Cloud Infrastructure Center Per Virtual Server	L-HKAG-BX2B9Y
5635-017	IBM Cloud Infrastructure Center Per Engine	L-HKAG-BUD3JJ

Select your language of choice and scroll down to the Charge Metrics section.

Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

Basic license

Ordering information is unchanged. See Software Announcement [A20-0596](#), dated October 6, 2020.

To order, specify the program ID number and the appropriate license or charge option. To suppress shipment of media, select the license-only option in CFSW.

Program name: IBM Cloud Infrastructure Center Per Virtual Server

Program ID: 5635-015

Entitlement identifier	Description	License option/Pricing metric
S018GG2	IBM Cloud Infrastructure Center Per Virtual Server	Use-Based License One-Time Charge Per Virtual Server
		MultiVersion Measurement - No Charge Per Virtual Server
Orderable supply ID	Language	
S018GG3	US English	

IBM recommends internet delivery. However, if you still require physical media, you can choose DVD.

**Program name: IBM Cloud Infrastructure Center Per Virtual Server
Subscription and Support (S&S)**

Program ID: 5635-016

Entitlement identifier	Description	License option/Pricing metric
S018GG5	IBM Cloud Infrastructure Center Per Virtual Server S&S	SW Subscription and Support Annual Support Charge Per Virtual Server
		Multi-Version Measurement S&S No Charge Per Virtual Server
		Decline Subscription and Support No Charge Per Virtual Server
Orderable supply ID	Language	
S018GG6	US English	

Program name: IBM Cloud Infrastructure Center Per Engine

Program ID: 5635-017

Entitlement identifier	Description	License option/Pricing metric
S018J3H	IBM Cloud Infrastructure Center Per Engine	Use-Based License One-Time Charge Per Engine
		MultiVersion Measurement - No Charge Per Engine
Orderable supply ID	Language	
S018J3J	US English	

IBM recommends internet delivery. However, if you still require physical media, you can choose DVD.

Program name: IBM Cloud Infrastructure Center Per Engine Subscription and Support (S&S)

Program ID: 5635-018

Entitlement identifier	Description	License option/Pricing metric
S018J3L	IBM Cloud Infrastructure Center Per Engine S&S	SW Subscription and Support Annual Support Charge Per Engine
		Multi-Version Measurement S&S No Charge Per Engine
		Decline Subscription and Support No Charge Per Engine
Orderable supply ID	Language	
S018J3M	US English	

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage^(R) Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Software Maintenance

The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require client signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

This program is licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

License Information number

The following License Information documents apply to the offerings in this announcement:

Program identifier	License Information document title	License Information document number
5635-015	IBM Cloud Infrastructure Center Per Virtual Server	L-HKAG-BX2B9Y
5635-017	IBM Cloud Infrastructure Center Per Engine	L-HKAG-BUD3JJ

Select your language of choice. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, see the [IBM Support Guide](#).

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program technical support

Technical support of a program product version or release will be available for a minimum of two years from the planned availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect.

This technical support allows you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program. Software Subscription and Support

(Software Maintenance) also provides you with access to versions, releases, and updates (continuous delivery releases, Long Term Support Releases or fixes) of the program. You will be notified, through an announcement letter, of discontinuance of support with six months' notice.

No extension of support beyond the discontinuance date is available for this offering.

For additional information on the IBM Software Support Lifecycle Policy, see the [IBM Software Support Lifecycle Policy](#) website.

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

No

Usage restrictions

Yes

For any usage restrictions, see the License Information document listed in this [Terms and conditions](#) section.

Software Subscription and Support applies

Yes. During the Software Subscription and Support period, for the unmodified portion of a program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the program and documentation.
- Technical assistance: A reasonable amount of remote assistance by telephone or electronically to address suspected program defects. Technical assistance is available from the IBM support centre in the organization's geography.

Additional details regarding Technical Assistance, which includes IBM contact information, are provided in the [IBM Support Guide](#).

Software Subscription and Support does not include assistance for:

- The design and development of applications.
- Your use of programs in other than their specified operating environment.
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance.

Software Subscription and Support is provided only if the program is within its support timeframe as specified in the Software Support Lifecycle policy for the program.

For operating system software, the revised IBM Operational Support Services - Support Line offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, go to the [Supported product list](#) website.

IBM Operational Support Services - Support Line

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution clients.

Academic use allowance

Academic use allowance: Yes

Statement of good security practices

IT system security involves protecting systems and information through intrusion prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

Important: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

Prices

Registered external clients and IBM Business Partners can access [IBMLink](#) to view pricing information.

Specify "Price type," "Search type," and "Search value," then click "Search."

Note: Enter program number in the "Search value."

You can also contact your local IBM representative or IBM Business Partner for the applicable charges.

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Note: Shipments will begin after the planned availability date.

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