

IBM zCX Foundation for Red Hat OpenShift 1.1 is designed for clients who require OpenShift on IBM z/OS

Table of contents

1 Overview	4 Publications
1 Key requirements	6 Technical information
1 Planned availability date	7 Ordering information
2 Description	9 Terms and conditions
3 Statement of general direction	12 Prices
4 Program number	12 Regional availability

Overview

Red Hat^(R) OpenShift^(R) is an enterprise-ready Kubernetes container platform built for clients who are pursuing an open hybrid cloud strategy. It provides a consistent application platform to manage hybrid cloud, multicloud, and edge deployments. Red Hat OpenShift running on IBM^(R) z/OS^(R), using IBM z/OS Container Extensions (zCX), enables clients to integrate containerized Linux^(R) on IBM Z applications and software within z/OS. This gives clients the ability to co-locate applications and workloads that have an affinity for z/OS by bringing those applications and workloads closer to z/OS applications and data without a separately provisioned Linux server.

The availability of Red Hat OpenShift on z/OS with zCX enables a strong union between z/OS and the container orchestration benefits of Red Hat OpenShift. This enables clients to take advantage of the Red Hat OpenShift Container Platform and exploit z/OS qualities of service (QoS), such as scalability, availability, integrated disaster recovery, backup, workload management, and integration with z/OS security.

IBM zCX Foundation for Red Hat OpenShift 1.1 provides installation tooling, runtime capability on z/OS, and entitlement to the Red Hat OpenShift Container Platform.

Key requirements

zCX Foundation for Red Hat OpenShift 1.1 runs on the following IBM Z^(R) servers:

- IBM z15TM Models T01 and T02
- IBM z14^(R) Models M01-M05
- IBM z14 Model ZR1

zCX Foundation for Red Hat OpenShift 1.1 requires:

- IBM z/OS V2.4, or later

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

Planned availability date

March 18, 2022

Availability within a country is subject to local legal requirements.

Description

zCX Foundation for Red Hat OpenShift gives clients capabilities to install and run Red Hat OpenShift Container Platform on z/OS using zCX. The Red Hat OpenShift Container Platform provides enterprise-level container orchestration and management capabilities related to containerized software. By leveraging zCX Foundation for Red Hat OpenShift on z/OS, clients can extend and modernize the native z/OS ecosystem through an agile and flexible deployment of containerized Linux on IBM Z applications and software in a self-contained Red Hat OpenShift cluster on z/OS while delivering z/OS QoS.

The installation of Red Hat OpenShift Container Platform can be performed using the included IBM z/OSMF workflows. For installation instructions, see the documentation on [zCX for Red Hat OpenShift](#).

zCX Foundation for Red Hat OpenShift supports the User Provisioned Infrastructure (UPI) method to install Red Hat OpenShift Container Platform on zCX. The Red Hat OpenShift Container Platform with zCX can be installed on z/OS systems that are provisioned in a restricted or disconnected network by using an internal mirror of the installation release content. This method can be used to install a cluster that does not require an active internet connection to obtain the software components. This installation method can also be used to ensure that client clusters use only container images that satisfy their organizational controls on external content.

With the UPI method, all the required OpenShift infrastructure services and nodes must be deployed to deploy the Red Hat OpenShift cluster.

The smallest Red Hat OpenShift cluster that is deployed on zCX requires one temporary zCX OCP instance, three control plane zCX OCP instances, and a minimum of two compute node zCX OCP instances.

All zCX OCP instances must use Red Hat Enterprise Linux CoreOS (RHCOS) as the underlying operating system.

To run the smallest Red Hat OpenShift cluster using zCX on z/OS, a minimum of six IBM Z Integrated Information Processor (zIIP) processors with SMT-2 mode, 80 GB of z/OS fixed memory, 700 GB of Linear VSAM data sets allocation space in Extended Address Volumes (EAVs), and six Dynamic Virtual IP Addressing (DVIPA) network addresses are required.

zCX Foundation for Red Hat OpenShift is available on z/OS V2.4 and later. To determine the scope of supported functions and the Red Hat OpenShift Container Platform version, see the release notes section of the documentation for [zCX for Red Hat OpenShift](#).

Note: There is no requirement for feature code 0104 (FC0104) or IBM Container Hosting Foundation for z/OS.

Red Hat OpenShift images existing on s390x architecture can run on zCX Foundation for Red Hat OpenShift. Additionally, the Red Hat Marketplace and IBM Z and LinuxONE Container Registry will have images available for deployment in zCX Foundation for Red Hat OpenShift.

Support for zCX Foundation for Red Hat OpenShift is provided by IBM.

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.

Statement of general direction

IBM z/OS Connect Server Container running on Red Hat OpenShift Container Platform on zCX

IBM intends to provide support for IBM z/OS Connect Server Container running on Red Hat OpenShift Container Platform on zCX. This will allow containerized z/OS Connect APIs that are optimized to run with greater proximity to the z/OS workloads, while providing cloud native DevOps to accelerate hybrid cloud modernization projects.

Statements by IBM regarding its plans, directions, and intent are subject to change or withdrawal without notice at the sole discretion of IBM. Information regarding potential future products is intended to outline general product direction and should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for IBM products remain at the sole discretion of IBM.

Reference information

For information about z/OS V2.5 and CD enhancements for z/OS V2.5, see:

- Software Announcement [AP22-0079](#), dated March 15, 2022
- Software Announcement [AP21-0381](#), dated November 23, 2021
- Software Announcement [AP21-0249](#), dated July 27, 2021
- Software Announcement [AP21-0051](#), dated March 2, 2021

For information about IBM Container Hosting Foundation, see Software Announcement [AP21-0119](#), dated June 1, 2021.

For information about z/OS V2.4 and CD enhancements for z/OS V2.4, see:

- Software Announcement [AP21-0206](#), dated June 22, 2021
- Software Announcement [AP21-0094](#), dated March 16, 2021
- Software Announcement [AP20-0469](#), dated December 8, 2020
- Software Announcement [AP20-0455](#), dated October 13, 2020
- Software Announcement [AP20-0362](#), dated September 22, 2020
- Software Announcement [AP20-0211](#), dated June 16, 2020
- Software Announcement [AP20-0097](#), dated March 17, 2020
- Software Announcement [AP19-0199](#), dated December 10, 2019
- Software Announcement [AP19-0326](#), dated July 23, 2019
- Software Announcement [AP19-0011](#), dated February 26, 2019

For information about IBM z15, see:

- Hardware Announcement [AG20-0056](#), dated August 4, 2020
- Hardware Announcement [AG20-0006](#), dated April 14, 2020
- Hardware Announcement [AG20-0013](#), dated January 14, 2020

- Hardware Announcement [AG19-0094](#), dated November 26, 2019
- Hardware Announcement [AG19-0032](#), dated September 12, 2019

For information about IBM z14 Model ZR1, see:

- Hardware Announcement [AG18-0074](#), dated October 2, 2018
- Hardware Announcement [AG18-0018](#), dated April 10, 2018

For information about z14, see:

- Hardware Announcement [AG18-0074](#), dated October 2, 2018
- Hardware Announcement [AG17-0093](#), dated November 28, 2017
- Hardware Announcement [AG17-0044](#), dated July 17, 2017

Program number

Program number	VRM	Program name
5655-ZCX	1.1.0	IBM zCX Foundation for Red Hat OpenShift
5655-ZCY	1.1.0	IBM zCX Foundation for Red Hat OpenShift S&S

Program number	Subscription and support program number
5655-ZCX	5655-ZCY

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.

Contact your IBM representative for course information.

Specific program education is available in [IBM Documentation](#) on March 18, 2022.

Offering Information

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

Publications

Technical documentation will be available in [IBM Documentation](#) on March 18, 2022.

Services

IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Systems Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Systems Lab Services consultants can perform infrastructure services for clients online or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Systems Lab Services is designed to help clients solve business challenges, gain new skills, and apply best practices.

Systems Lab Services offers a wide range of infrastructure services for IBM Power^(R) servers, IBM Storage systems, IBM Z, and IBM LinuxONE. Systems Lab Services has a global presence and can deploy experienced consultants online or onsite around the world.

For assistance, contact Systems Lab Services at ibmsls@us.ibm.com.

To learn more, see the [IBM Systems Lab Services](#) website.

IBM Consulting

As transformation continues across every industry, businesses need a single partner to map their enterprise-wide business strategy and technology infrastructure. IBM Consulting is the business partner to help accelerate change across an organization. IBM specialists can help businesses succeed through finding collaborative ways of working that forge connections across people, technologies, and partner ecosystems. IBM Consulting brings together the business expertise and an ecosystem of technologies that help solve some of the biggest problems faced by organizations. With methods that get results faster, an integrated approach that is grounded in an open and flexible hybrid cloud architecture, and incorporating technology from IBM Research^(R) and IBM Watson^(R) AI, IBM Consulting enables businesses to lead change with confidence and deliver continuous improvement across a business and its bottom line.

For additional information, see the [IBM Consulting](#) website.

IBM Technology Support Services (TSS)

Get preventive maintenance, onsite and remote support and gain actionable insights into critical business applications and IT systems. Speed developer innovation with support for over 240 open-source packages. Leverage powerful IBM analytics and AI-enabled tools to enable client teams to manage IT problems before they become emergencies.

TSS offers extensive IT maintenance and support services that cover more than one niche of a client's environment. TSS covers products from IBM and OEMs, including servers, storage, network, appliances, and software, to help clients ensure high availability across their data center and hybrid cloud environment.

For details on available services, see the [Technology support for hybrid cloud environments](#) website.

IBM TechU

Improve your knowledge in hybrid cloud and AI solutions. TechU provides the most recent content so that you can learn, engage, and increase your skills with IBM Technology specialists.

A one-year, renewable digital TechU membership provides access to IBM Systems online education to help address your technical enablement needs for existing and new projects.

Submit questions or comments to techuid@us.ibm.com.

For additional details, see the [IBM TechU](#) website.

IBM Expert Labs

Expert Labs can help clients accelerate their projects and optimize value by leveraging their deep technical skills and knowledge. With more than 20 years of industry experience, these specialists know how to overcome the biggest challenges to deliver business results that can have an immediate impact.

Expert Labs' deep alignment with IBM product development allows for a strategic advantage as they are often the first in line to get access to new products, features, and early visibility into roadmaps. This connection with the development enables

them to deliver First of a Kind implementations to address unique needs or expand a client's business with a flexible approach that works best for their organization.

For additional information, see the [IBM Expert Labs](#) website.

IBM Security^(R) Expert Labs

With extensive consultative expertise on IBM Security software solutions, Security Expert Labs helps clients and partners modernize the security of their applications, data, and workforce. With an extensive portfolio of consulting and learning services, Expert Labs provides project-based and premier support service subscriptions.

These services can help clients deploy and integrate IBM Security software, extend their team resources, and help guide and accelerate successful hybrid cloud solutions, including critical strategies such as zero trust. Remote and on-premises software deployment assistance is available for IBM Cloud Pak^(R) for Security, IBM Security QRadar^(R)/QRoC, IBM Security SOAR/Resilient^(R), IBM i2^(R), IBM Security Verify, IBM Security Guardium^(R), and IBM Security MaaS360^(R).

For more information, contact Security Expert Labs at sel@us.ibm.com.

For additional information, see the [IBM Security Expert Labs](#) website.

Technical information

Specified operating environment

Hardware requirements

zCX Foundation for Red Hat OpenShift 1.1 runs on the following IBM Z servers:

- z15 Models T01 and T02
- z14 Models M01-M05
- z14 Model ZR1

Software requirements

zCX Foundation for Red Hat OpenShift 1.1 requires:

- z/OS V2.4, or later
- PTFs for APARs for zCX for z/OS V2.4:
 - OA62311
 - OA62313
- PTF for APAR OA62310 for zCX for z/OS V2.4 and z/OS V2.5
- PTF for APAR OA60919 for IBM Sub-Capacity Reporting Tool (SCRT) for z/OS V2.4
 - SCRT provides reports for a non-MSU-based product, and the product units are the number of Central Processor Complexes (CPCs) on which the product is enabled.

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](#).

Additional IBM support

IBM Client Engineering for Systems

Client Engineering for Systems is a framework for accelerating digital transformation. It helps you generate innovative ideas and equips you with the practices, technologies, and expertise to turn those ideas into business value in weeks. When you work with Client Engineering for Systems, you bring pain points into focus. You empower your team to take manageable risks, adopt leading technologies, speed up solution development, and measure the value of everything you do. Client Engineering for Systems has experts and services to address a broad array of use cases, including capabilities for business transformation, hybrid cloud, analytics and AI, infrastructure systems, security, and more. For more information, see the [IBM Client Engineering for Systems](#) website.

IBM Z Washington Systems Center (WSC)

IBM Z Washington Systems Center (WSC): WSC, a team with deep technical expertise, provides technical assistance. WSC teams can help position, design, and implement solutions, and support critical situations that contribute to IBM Z, IBM LinuxONE, and Linux on IBM Z software, hardware, and services. For installation and technical support, provided by local Technical Specialists, contact the WSC at ilin@us.ibm.com.

For additional information, see the [Washington Systems Center -IBM Z](#) website.

Planning information

Packaging

zCX Foundation for Red Hat OpenShift (5655-ZCX) is packaged as follows:

Deliverable	Form number	Medium
Program Directory for zCX Foundation for Red Hat OpenShift	GI13-5613	Electronic
License Information for zCX Foundation for Red Hat OpenShift	GI13-5614	Electronic
License Information CD for zCX Foundation for Red Hat OpenShift	LC31-5706	Electronic Physical
README for zCX Foundation for Red Hat OpenShift	GI13-5612	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

zCX Foundation for Red Hat OpenShift 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 or IBM Business Partner.

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
5655-ZCX	IBM zCX Foundation for Red Hat OpenShift	L-AMOR-CBGQZL

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

To order, specify the program number and the appropriate license or charge option.

Program name and number: IBM zCX Foundation for Red Hat OpenShift (5655-ZCX)

Entitlement identifier	Description	License option/Pricing metric
S018M18	IBM zCX Foundation for Red Hat OpenShift Premium 1 year	Use-Based License One-Time Charge Per Processor Core Qty 1 MultiVersion Measurement No Charge Per Processor Core Qty 1

Orderable supply ID	Language
S018M1D	US English

Entitlement identifier	Description	License option/Pricing metric
S018M19	IBM zCX Foundation for Red Hat OpenShift Premium 3 year	Use-Based License One-Time Charge Per Processor Core Qty 1 MultiVersion Measurement No Charge Per Processor Core Qty 1

Orderable supply ID	Language
S018M3M	US English

Entitlement identifier	Description	License option/Pricing metric
S018M17	IBM zCX Foundation for Red Hat OpenShift Premium 5 year	Use-Based License One-Time Charge Per Processor Core Qty 1 MultiVersion Measurement No Charge Per Processor Core Qty 1

Orderable supply ID	Language
S018M3N	US English

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

Program name and number: IBM zCX Foundation for Red Hat OpenShift Subscription and Support (S&S) (5655-ZCY)

Entitlement identifier	Description	License option/Pricing metric
S018M2D	IBM zCX Foundation for Red Hat OpenShift Premium 1 year	SW Subscription and Support Premium 1 Year Per Processor Core Qty 1

Orderable supply ID	Language
S018M97	US English

Entitlement identifier	Description	License option/Pricing metric
S018M2B	IBM zCX Foundation for Red Hat OpenShift Premium 3 year	SW Subscription and Support Premium 3 Year Per Processor Core Qty 1
Orderable supply ID	Language	
S018M9H	US English	
Entitlement identifier	Description	License option/Pricing metric
S018M2C	IBM zCX Foundation for Red Hat OpenShift Premium 5 year S&S	SW Subscription and Support Premium 5 Year Per Processor Core Qty 1
Orderable supply ID	Language	
S018M9G	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.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

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
5655-ZCX	IBM zCX Foundation for Red Hat OpenShift	L-AMOR-CBGQZL

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 about 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

Continuous delivery (CD) 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 Subscription and Support 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 product. Software Subscription and Support also provides you with access to versions, releases, and updates (CD releases, Long Term Support Releases or fixes) of the program.

You will be notified, through an announcement letter, of discontinuance of support with 12 months' notice.

If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

For additional information about the CD support lifecycle policy, see the [IBM Continuous Delivery Support Lifecycle Policy](#) Continuous Delivery (CD) support model web page.

For additional information about the IBM Software Support Lifecycle Policies, see the [Standard and enhanced IBM software support lifecycle policies](#) 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 center 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.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance by telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, go to the [IBM Support Handbooks](#) page.

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, or failures caused by products for which IBM is not responsible under this agreement.

Variable charges apply

No

Educational allowance available

None

Multi-Version Measurement

Multi-Version Measurement (MVM) replaces the previously announced Migration Grace Period time limit of six months and allows unlimited time for clients to run more than one eligible version of a software program. Clients may run multiple versions of a program simultaneously for an unlimited duration during a program version upgrade. Clients may also choose to run multiple versions of a program simultaneously for an unlimited duration in a production environment. MVM does not extend support dates for programs withdrawn from service.

For a list of eligible programs, see the [IPLA Execution-Based Programs](#) web page.

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

For all local charges, contact your IBM representative.

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified clients to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all client segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or go to the [IBM Global Financing](#) website for more information.

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government clients. Rates are based on a client's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Financing from IBM Global Financing helps you preserve cash and credit lines, enables more technology acquisition within current budget limits, can help accelerate implementation of economically attractive new technologies, offers payment and term flexibility, and can help match project costs to projected benefits. Financing is available worldwide for credit-qualified clients.

Regional availability

Australia, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, People's Republic of China, Christmas Island, Cocos (Keeling) Islands, Cook Islands, Fiji, Heard Island and McDonald Islands, Hong Kong, India, Indonesia, Kiribati, Republic of Korea,

Lao People's Democratic Republic, Macao, Malaysia, Maldives, Mongolia, Myanmar, Nauru, Nepal, New Zealand, Niue, Norfolk Island, Papua New Guinea, Philippines, Samoa, Singapore, Solomon Islands, Sri Lanka, Taiwan, Thailand, Timor-Leste, Tokelau, Tonga, Tuvalu, and Vietnam

Trademarks

Red Hat and OpenShift are registered trademarks of Red Hat Inc. in the U.S. and other countries.

z15 is a trademark of IBM Corporation in the United States, other countries, or both. IBM, z/OS, IBM Z, IBM z14, Power, Passport Advantage, IBM Research, IBM Watson, IBM Security, IBM Cloud Pak, QRadar, Resilient, i2, Guardium and MaaS360 are registered trademarks of IBM Corporation in the United States, other countries, or both.

The registered trademark Linux® is used pursuant to a sublicense from the Linux Foundation, the exclusive licensee of Linus Torvalds, owner of the mark on a world-wide basis.

Other company, product, and service names may be trademarks or service marks of others.

Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Reference to other products in this announcement does not necessarily imply those products are announced, or intend to be announced, in your country. Additional terms of use are located at

[Terms of use](#)

For the most current information regarding IBM products, consult your IBM representative or reseller, or go to the [IBM worldwide contacts page](#)

[IBM Directory of worldwide contacts](#)