

IBM Cloud Pak for Applications V4.0 delivers Red Hat OpenShift Container Platform 4.2 to enhance application modernization and cloud-native application development for multicloud deployments

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Overview

IBM[®] Cloud Pak for Applications V4.0 delivers Red Hat OpenShift Container Platform 4.2, accompanied by one of the most robust sets of application run times. It supports application workloads wherever they are currently running and provides the destination for modernization and new cloud-native workloads as you drive digital transformation and innovation projects.

Red Hat OpenShift Container Platform 4.2 is the next generation of Red Hat's trusted enterprise Kubernetes platform, reengineered to address the complexity of managing container-based applications in production systems. It is designed as a self-managing platform with automatic software updates and lifecycle management across hybrid cloud environments and is built on the trusted foundation of Red Hat Enterprise Linux[®] and Red Hat Enterprise Linux CoreOS.

Red Hat OpenShift Container Platform 4.2 focuses on tools designed to deliver a developer-centric user experience. It also helps cluster administrators by easing the management of the platform and applications and provides the ability to migrate application workloads from Red Hat OpenShift Container Platform 3.7, and later, to Red Hat OpenShift Container Platform 4.2.

With Red Hat OpenShift Container Platform 4.2, developers have a streamlined Kubernetes experience, thanks to a dedicated developer perspective, new tools, and additional plugins that they can enable for container builds, CI/CD pipelines, and serverless deployments. This enables developers to focus on coding rather than dealing with the specifics of Kubernetes operations.

Additionally, Cloud Pak for Applications V4.0 extends support for Red Hat OpenShift Container Platform 4.2 onto the IBM Z[®] platform. Clients can extend their hybrid cloud deployments to include Red Hat OpenShift clusters on Z hardware, taking advantage of the container orchestration platform and tools to bring a consistent development experience for the development of cloud-native workloads. Cloud Pak for Applications already provides a number of bundled programs that support container-based deployment on IBM Z and these can now optionally be deployed onto OpenShift on IBM Z.

IBM Cloud Pak for Applications provides support for the following bundled programs when deployed in containers onto Red Hat OpenShift Container Platform:

- Red Hat OpenShift Container Platform 4.2

- Red Hat Runtimes
- Runtimes from IBM, including Open Liberty
- IBM WebSphere^(R) Application Server Liberty Core
- IBM WebSphere Applications Server
- IBM Mobile Foundation

Red Hat OpenShift Container Platform 4.2 introduces support for Red Hat OpenShift Service Mesh, which is designed to simplify the development, deployment, and ongoing management of applications on Red Hat OpenShift and gives clients an end-to-end, developer-focused experience. This includes key capabilities such as tracing and measurement, visualization and observability, and one-click service mesh installation and configuration.

Also new in Red Hat OpenShift Container Platform 4.2 is support for disconnected installations. Disconnected installation and cluster-wide proxy enablement with support for providing your own CA bundles help you meet requirements for regulatory standards and internal security protocols. With disconnected installation, clients can get the latest version of the Red Hat OpenShift Container Platform in environments not accessible through the internet, or with strict image testing policies.

Key requirements

For details, see the [Software requirements](#) section.

Planned availability date

December 13, 2019

Description

Cloud Pak for Applications V4.0 delivers Red Hat OpenShift Container Platform 4.2 as the foundation to hybrid multicloud deployments. Red Hat OpenShift Container Platform 4.2 contains the following updates to help developers include these client tools:

- Web Console with a [developer perspective](#) , so developers can focus coding instead of operations
- [Red Hat OpenShift Connector](#) for MicrosoftTM Visual Studio Code, JetBrains IDE (including IntelliJ), and Eclipse Desktop IDE, making it easier to plug into existing developer pipelines
- Red Hat OpenShift Deployment Extension for Microsoft Azure DevOps

Red Hat OpenShift Container Platform 4.2 also introduces support for Red Hat OpenShift Service Mesh, which enables clients to benefit from an end-to-end developer-focused experience, and support for disconnected installations, which allows clients to get the latest version of the Red Hat OpenShift Container Platform in environments not accessible through the internet, or with strict image testing policies.

Additionally, Cloud Pak for Applications V4.0 extends support for Red Hat OpenShift Container Platform 4.2 onto the IBM Z platform. Clients can extend their hybrid cloud deployments to include Red Hat OpenShift clusters on Z hardware, taking advantage of the container orchestration platform and tools to bring a consistent development experience for the development of cloud-native workloads. Support for OpenShift on IBM Z in this release of IBM Cloud Pak for Applications is limited to the container platform only. IBM run times continue to provide support for IBM Z, including container deployments where appropriate.

Cloud Pak for Applications includes full support for Red Hat Runtimes. Red Hat provides a detailed list of the component parts at [Red Hat Runtimes](#), including links to their support policies and downloads.

Cloud Pak for Applications V4.0 also provides support for run times from IBM, including:

- Open Liberty
- Express^(R) framework for Node.js
- Loopback framework for Node.js
- OpenJDK with Eclipse OpenJ9

Cloud Pak for Applications V4.0 uses a single pricing metric of virtual processor cores (VPCs) for all included programs. When you purchase a Cloud Pak for Applications VPC entitlement, you can deploy any of the included programs using a simple ratio-based conversion table. The ratio table describes the permitted conversion between the VPC entitlement and the number of VPCs deployed.

For example, a client purchases 10 Cloud Pak for Applications VPC entitlements. In the ratio table, there would be an entry for a named program, Program-p, with a corresponding ratio of 4 VPCs deployed to 1 VPC entitlement. In this example, the maximum deployment of Program-p is 40 VPCs, which fully expends the 10 Cloud Pak for Applications VPC entitlement.

Cloud Pak for Applications V4.0 introduces new terminology to describe some aspects of the included programs and associated license entitlement. Where previously IBM described a set of capabilities as "Red Hat OpenShift Container Platform with IBM Kabanero Enterprise and Red Hat Runtimes", the term now used is "Red Hat OpenShift Plus Enterprise Runtimes and Accelerators for Teams".

The license for IBM Cloud Pak for Applications will transition to use the new terminology described above. Both the existing terminology, as defined by the release of IBM Cloud Pak for Applications V3, and new terminology described here represent the same entitlement to the following bundled programs that are included and supported when deployed in containers onto Red Hat OpenShift Container Platform:

- Red Hat OpenShift Container Platform 4.2
- Red Hat Runtimes
- Runtimes from IBM, as referenced in the paragraph above
- IBM WebSphere Application Server Liberty Core
- IBM WebSphere Application Server
- IBM Mobile Foundation

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 intends to provide full support for IBM Cloud Pak for Applications on IBM Z and IBM P architectures. This would provide the full flexibility of IBM Cloud Pak for Applications across a broad range of hardware platforms, including flexibility for deploying an open, hybrid, multicloud platform solution while also supporting existing workloads where they are running today.

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Reference information

For more information about IBM Cloud Pak for Applications, see Software Announcement [219-395](#), dated August 6, 2019.

Program number

Program number	VRM	Program name
5737-L09	4.0.0	IBM Cloud Pak for Applications

Offering Information

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

More information is also available on the [Passport Advantage^{\(R\)}](#) and [Passport Advantage Express^{\(R\)}](#) website.

Publications

None

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.

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Technical information

Specified operating environment

Software requirements

Clients who purchase VPCs of Cloud Pak for Applications have the choice to deploy any of these products:

- WebSphere Application Server ND
- IBM Cloud Private
- WebSphere Application Server (base)
- WebSphere Application Server Liberty Core
- Red Hat OpenShift Plus Enterprise Runtimes and Accelerators for Teams
- Red Hat Runtimes
- IBM MobileFirst^(R) Platform Foundation

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Planning information

Packaging

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IBM Cloud Pak for Applications Virtual Processor Core Annual SW Subscription & Support Renewal	E0QB6LL
IBM Cloud Pak for Applications Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D24XKLL
IBM Cloud Pak for Applications Virtual Processor Core for IBM Z License + SW Subscription & Support 12 Months	D24XLLL
IBM Cloud Pak for Applications Virtual Processor Core for IBM Z Monthly License	D24XILL

Part number description	Part number
IBM Cloud Pak for Applications Virtual Processor Core for IBM Z Annual SW Subscription & Support Renewal	E0QB7LL
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Passport Advantage trade-up

Part number description	Part number
IBM Cloud Pak for Applications Virtual Processor Core Trade Up from Prior Programs License + SW Subscription & Support 12 Months	D24XNLL
IBM Cloud Pak for Applications Virtual Processor Core for IBM Z Trade Up from Prior Programs License + SW Subscription & Support 12 Months	D24XPLL

Client must have current Software Subscription and Support (S&S) in place for all of the licenses that will be traded up by the use of the trade-up part numbers.

Consult your IBM representative if you have any questions.

Charge metric

The charge metrics for this licensed product can be found in the following License Information document:

Program identifier	License Information document title	License Information document number
5737-L09	IBM Cloud Pak for Applications	L-MCAO-BHVQ5H

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.

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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 Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

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License Information number

The following License Information document applies to the offering in this announcement:

Program identifier	License Information document title	License Information document number
5737-L09	IBM Cloud Pak for Applications	L-MCAO-BHVQ5H

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.

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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 (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) 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

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Software Subscription and Support applies

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Variable charges apply

No

Educational allowance available

Not applicable

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