

# IBM Cloud Private V3.1 strengthens its integrated cloud platform with application modernization for more effective, agile development with microservices

## Table of contents

<a href="#">2</a>	<a href="#">Overview</a>	<a href="#">6</a>	<a href="#">Publications</a>
<a href="#">5</a>	<a href="#">Key prerequisites</a>	<a href="#">6</a>	<a href="#">Technical information</a>
<a href="#">5</a>	<a href="#">Planned availability date</a>	<a href="#">6</a>	<a href="#">Ordering information</a>
<a href="#">5</a>	<a href="#">Statement of general direction</a>	<a href="#">8</a>	<a href="#">Terms and conditions</a>
<a href="#">6</a>	<a href="#">Program number</a>	<a href="#">11</a>	<a href="#">Prices</a>
		<a href="#">11</a>	<a href="#">Corrections</a>

## At a glance

**IBM Cloud™ Private V3.1** brings an integrated platform for developing and managing containerized applications:

- Provides an integrated cloud platform for enterprise workloads that need to be securely run behind your firewalls.
- Features application analytics, integration, monitoring, and security tools that are ready for immediate use to consistently manage IBM<sup>(R)</sup> and non-IBM based workloads, providing a consistent and resilient way to build, deploy, and manage applications
- Includes IBM Cloud Automation Manager, IBM Microclimate, IBM Runtimes, IBM Transformation Advisor, and IBM Vulnerability Advisor
- Introduces Hybrid Cloud Manager, a new member of the IBM Cloud Private product family, for true multicloud, multicluster management
- Powers new business models for IBM MQ and IBM WebSphere<sup>(R)</sup> Application Server with new, hourly pricing support through metering capability

**IBM Cloud Private for Application Modernization** offers IBM Cloud Private capabilities plus:

- IBM WebSphere Application Server Network Deployment
- IBM MQ Advanced
- IBM API Connect<sup>(R)</sup> Professional

**IBM Multi-cloud Manager V3.1** is an enterprise-grade, multicloud, multicluster management solution, purpose-built to address the policy, compliance, and application management challenges of multiple clusters:

- Set and enforce policies for security, applications, and infrastructure (auto enforcement at cluster level)
- Check compliance against deployment parameters, configuration, and policies
- Automatically remediate violations
- Deploy applications across clusters based on policy compliance, development versus test, and so on
- Automatically update monitoring dashboard based on deployment
- Understand failure dependencies and identify the affected system if a shared component fails

### **IBM Cloud Private**

IBM Cloud Private is an integrated platform for developing and managing containerized applications. This private, integrated environment can be deployed behind firewalls and managed or controlled in flexible options, as the enterprise needs dictate. It is built on open source frameworks such as Cloud Foundry and the container orchestrator Kubernetes, and contains a private image repository, a management console, and monitoring tools and a robust catalog of services. With the choice of either Kubernetes-based or Cloud Foundry-based runtimes, your organization gains the flexibility to choose its cloud application runtimes. It also enables integrations to popular open source and cloud native tools, as well as IBM application middleware and development services.

IBM Cloud Private is designed to address the challenges of enterprises with business-critical applications that have been developed in a monolithic, waterfall approach. While these applications are running in production successfully, their seclusion means that they cannot be used for innovation and modern application needs as required by the business. To help enterprises modernize these applications, IBM Cloud Private provides a dashboard and tools leverage application analytics to provide prescriptive guidance for refactoring these applications to be modular, resilient, and managed efficiently. This opens opportunities for developers to harness the powerful information of business-critical applications and data in modern development models such as microservices and 12-factor applications.

With a lightweight footprint, yet powerful platform capabilities, IBM Cloud Private enables enterprises to unleash their development creativity, using industry-common technologies and process guidance, in a minimal timeframe. Its operational management and DevOps capabilities enable enterprises to securely manage and scale their critical workloads and apps on a private cloud environment on the infrastructure of their choice. Version 3.1 of IBM Cloud Private brings a next-generation private cloud for the enterprise. It enables enterprises that have stringent regional, governmental, and industry-based regulations to maintain strict control over their applications and data.

- Develop and run production cloud native applications in a private cloud.
- Refactor and modernize monolithic or legacy enterprise applications.
- Use security-rich toolsets to integrate to public cloud services from within their data centers.

With IBM Cloud Private, enterprises can gain operations optimization, infrastructure access, development efficiencies, and speed to market, while continuing to abide by the regulations that are imposed for their industry, geographical region, and corporation.

IBM Cloud Private V3.1 is optimized with:

- IBM Cloud Automation Manager is entitled for use with IBM Cloud Private IBM Cloud Private to automate the deployment of additional capacity to the platform.
- IBM Microclimate provides an end-to-end, cloud-native solution for creating, building, testing and deploying applications. For development, Microclimate has improved the ability of importing and validating services, improved build and app status and multi user support in IBM Cloud Private. On the deployment side, developers can now enable or disable auto builds, and for the pipeline, developers can deploy to IBM Cloud Kubernetes Services (IKS) and create deployments from specific builds of a given project.
- IBM Runtimes provides full support for IBM provided Java™, NodeJS, and Swift runtimes.
- IBM Transformation Advisor is the essential tool used to help enterprises migrate legacy Java workloads into Liberty-based microservices. In IBM Cloud Private V3.1, IBM Transformation Advisor can help you migrate from JBoss and WebLogic

to WAS Liberty and help you run a full analysis of your legacy Java applications, recommend candidates for migration, and integrate with IBM Microclimate.

- IBM Vulnerability Advisor continually scans container images for vulnerabilities and suggests remediation actions. In IBM Cloud Private V3.1, these capabilities will be expanded to allow for scans on containers running in your cluster. This feature, called Mutation Advisor, actively scans your containers for changes or drift to code and can help alert administrators and operators to risks, issues, or threats that may arise from unauthorized changes to code in running containers.
- Multi-cloud Manager adds hybrid cloud, multicluster management capabilities. It works across clouds and provides integrated views, application-centric management, and governance across all of your organization's clusters and environments.
- Deployment on the IBM Cloud through IBM Cloud Private Hosted.

New features that are geared for enterprises in version 3.1 include:

- Scalability improvements to 5,000 nodes
- Enhanced storage support for vSAN and Object Storage
- Helm-based install eases Day 2 management of IBM Cloud Private system components
- Full Istio 1.0 support
- New OS support: SLES and Ubuntu
- Operational dashboards now include storage and networking views
- Catalog and Command Line Interface consumability improvements
- Hourly pricing support for WebSphere and MQ container deployments
- IBM Cloud Private Readiness and Compliance
- Cloud Automation Manager supports z/VM<sup>(R)</sup> and Nutanix Acropolis Hypervisor deployments; Terraform<sup>(R)</sup> configurations for IBM Cloud Private for VMware, scaling of IBM Cloud Private Kubernetes Clusters, IBM Kubernetes Service, workloads into public clouds via HTTP

### **IBM Cloud Private Hosted**

IBM Cloud Private is now available on VMware Solutions for IBM Cloud. IBM Cloud Private Hosted on vCenter Server on IBM Cloud brings the power of microservices and containers to your VMware environment in the IBM Cloud. IBM Cloud Private Hosted on vCenter Server delivers the same VMware and IBM Cloud Private capabilities that you are used to running and managing. Simply, IBM deploys the environment for you on a public IaaS and you retain complete control over the entire stack.

The recommended configuration for IBM Cloud Private on VMware vCenter Server<sup>TM</sup> comes from IBM's deep experience in deploying enterprise-grade, production-level environments for our clients. Whether you are building new cloud native applications or modernizing existing applications, this architecture is highly available and delivers enough capacity for numerous use cases.

Key benefits:

- Control and access the whole stack from the VM, up to the container workload
- Administer full application, user and platform lifecycle
- Add capacity, patch and upgrade the platform on your schedule
- Operators can leverage the same VMware tools and skills they use on-premises to manage IBM Cloud Private on VMware
- Define the same policies you use to govern and manage your IBM Cloud Private clusters on-premises
- Manage your IBM Cloud Private on-premises applications consistently with your IBM Cloud Private applications on IBM Cloud

### **Optimized compatibility and support**

IBM Cloud Private is compatible with leading systems manufacturers, including Cisco, Lenovo, and NetApp. It is optimized for IBM Z<sup>(R)</sup>, the industry-leading security-rich transaction platform; IBM Power Systems<sup>TM</sup>, the platform designed for artificial intelligence and cognitive workloads; and IBM PureApplication<sup>(R)</sup> System. IBM Cloud Private powers new business models for IBM MQ and IBM WebSphere Application Server, and features new, hourly pricing support through its metering capability for enterprises that need cloud-like pricing models for their container deployments.

IBM Cloud Private's robust services catalog includes access to a wide variety of services including necessary application runtimes and data services such as IBM WebSphere Liberty, Microclimate, along with many other IBM and third-party services. Other IBM products that are now supported on IBM Cloud Private include:

- IBM Blockchain Peers
- IBM Watson<sup>(R)</sup> Speech to Text
- IBM Watson Virtual Assistant
- IBM Cloud Private for Data
- IBM Messaging Service

### ***IBM Cloud Private Enterprise***

IBM Cloud Private Enterprise delivers an enterprise-focused platform that is purpose-built to adhere to the best practices of developing applications with microservices. It also delivers a robust set of application runtimes, software, data, and other value-added services that are designed to enable cloud-native applications. IBM continues to integrate enterprise-relevant open source services with its enterprise-grade software and integration portfolio to deliver innovation, reliability, and security in a single platform.

IBM Cloud Private Enterprise includes:

- IBM WebSphere Application Server Network Deployment provides an advanced, flexible runtime environment for large-scale application deployments. It offers near-continuous availability with advanced performance and management capabilities for mission-critical applications.
- IBM MQ Advanced is robust messaging middleware that simplifies and accelerates the integration of diverse applications and business data across multiple platforms.
- IBM API Connect Professional provides a robust solution for managing an entire API lifecycle from creation to management.
- Includes IBM Cloud Automation Manager, which is fully entitled for use with IBM Cloud Private Enterprise. IBM Cloud Automation Manager is used for provisioning VMs and bare-metal servers, and delivering application environments reliably and repeatedly in IBM Cloud, VMware, Amazon AWS, Microsoft<sup>TM</sup> Azure, and PowerVC.

IBM Cloud Private Enterprise is now easier to consume. Clients can consume VPCs more efficiently when deploying MQ or API Connect. They can also leverage WASaaS capability through Cloud Automation Manager in order to automate the deployment of their WebSphere Application Server ND environments with the included WebSphere Application Server for IBM Cloud Private VM Quickstarter.

### ***IBM Multi-cloud Manager***

IBM Multi-cloud Manager provides true multicloud, multicluster management by working across clouds and providing integrated views, application-centric management, and governance across all of your organization's clusters and environments.

Clusters can span geographic locations, technology or business purpose (such as development, test, production), and cloud type. With the Multi-cloud Manager toolset, your organization can gain visibility, improve governance, and integrate automation into its entire multicluster environment.

New in version 3.1 of Multi-cloud Manager:

- Simplified multicluster management
  - Seamlessly manage clusters across multiple private data centers, public IaaS cloud, and cloud Kubernetes services.
  - Look at cluster health, capacity, pods running or failed, and app versions across clusters.
- Policy-based role and compliance management
  - Set and enforce policies for security, applications, and infrastructure (auto enforcement at cluster level).
  - Check compliance against deployment parameters, configuration, and policies.
  - Automatically remediate violations.
- Multicluster application management
  - Deploy applications across clusters based on policy, such as compliance or development versus test.
  - Automatically update monitoring dashboard based on deployment.
  - Understand failure dependencies and identify the affected system if a shared component fails.
- Integrated operational tools
  - Logging, monitoring, and event across applications and infrastructure.
  - Integrates with service management tools.

---

## Key prerequisites

---

Supports Linux<sup>(R)</sup> and IBM Z.

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

---

## Planned availability date

---

September 14, 2018

---

## Accessibility by people with disabilities

---

A US Section 508 Accessibility Compliance Report containing details on accessibility compliance can be found on the [Product accessibility information](#) website.

---

## Statement of general direction

---

### Secure Service Container for IBM Cloud Private on Linux on Z and LinuxONE

IBM intends to deliver IBM Cloud Private on Linux on Z in Secure Service Containers. IBM Cloud Private in Secure Service Containers on Linux on Z and LinuxONE is designed to offer unmatched security of IBM Cloud Private nodes with workload isolation, pervasive encryption of data and executable binaries for container-based applications, and protection from privileged users to mitigate breaches and leaks from internal or external threats, ransomware, and malware.

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 more information about IBM Cloud Private, see Software Announcement [JP17-0555](#), dated October 24, 2017.

---

## Program number

---

Program number	VRM	Program name
5737-E67	3.1.0	IBM Cloud Private

---

## Offering Information

---

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

More information is also available on the [Passport Advantage<sup>\(R\)</sup> and Passport Advantage Express<sup>\(R\)</sup>](#) website.

---

## Publications

---

Technical documentation can be found in [IBM Knowledge Center](#).

---

## Technical information

---

### **Specified operating environment**

---

#### **Software requirements**

For Software requirements, see [System requirements](#).

### **Planning information**

---

#### **Packaging**

This offering is delivered through the internet as an electronic download. There is no physical media.

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

---

## Ordering information

---

For ordering information, consult your IBM representative or authorized IBM Business Partner, or go to the [Passport Advantage](#) website.

This product is only available through Passport Advantage. It is not available as shrinkwrap.

These products may only be sold directly by IBM or by authorized IBM Business Partners for Channel Value Rewards.

More information can be found on the [IBM Channel Value Rewards](#) website.

To locate IBM Business Partners for Channel Value Rewards in your geography for a specific Channel Value Rewards portfolio, go to the [Find a Business Partner](#) page.

Product: IBM Cloud Private (5737-E67)

### Passport Advantage

Part description	Part number
IBM Multi-Cloud Manager per Managed Virtual Server License + Subscription & Support 12 Months	D20TXLL
IBM Multi-Cloud Manager per Managed Virtual Server ANNUAL Subscription & Support Renewal	E0PN0LL
IBM Multi-Cloud Manager per Managed Virtual Server Subscription & Support Reinstatement 12 Months	D20TYLL
IBM Multi-Cloud Manager per Managed Virtual Server Monthly License	D20U1LL
Part description	Part number
UrbanCode <sup>(R)</sup> Deploy for IBM Cloud Private for Application Modernization for IBM Z Virtual Processor Core License + SW Subscription & Support 12 Months	D20Q7LL
UrbanCode Deploy for IBM Cloud Private for Application Modernization for IBM Z Virtual Processor Core SW Subscription & Support Renewal	E0PM6LL
UrbanCode Deploy for IBM Cloud Private for Application Modernization for IBM Z Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D20Q8LL
UrbanCode Deploy for IBM Cloud Private for Application Modernization for IBM Z Virtual Processor Core Monthly License	D20Q9LL

### Cross-platform product for use on z Systems<sup>(R)</sup>

Order the part numbers that follow when the product is used for either the development of code that will be deployed on z Systems servers or when the product will be communicating or transferring data between a distributed server and a z Systems server. Otherwise, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

Part description	Part number
IBM Cloud Private Automation Manager for Managed Environments for Linux on IBM Z Virtual Processor Core License + SW Subscription & Support 12 Months	D1VSBL
IBM Cloud Private Automation Manager for Managed Environments for Linux on IBM Z Virtual Processor Core SW Subscription & Support Reinstatement 12 Months	D1VSCLL
IBM Cloud Private Automation Manager for Managed Environments for Linux on IBM Z Virtual Processor Core Monthly License	D1VSQLL
IBM Cloud Private Automation Manager for Managed Environments for Linux on IBM Z Virtual Processor Core Annual SW Subscription & Support Renewal	E0P0JLL
Part description	Part number
IBM Multi-Cloud Manager for IBM Z per Managed Virtual Server License + Subscription & Support 12 Months	D20TZLL

Part description	Part number
IBM Multi-Cloud Manager for IBM Z per Managed Virtual Server ANNUAL Subscription & Support Renewal	EOPN1LL
IBM Multi-Cloud Manager for IBM Z per Managed Virtual Server Subscription & Support Reinstatement 12 Months	D20U0LL
IBM Multi-Cloud Manager for IBM Z per Managed Virtual Server Monthly License	D20U2LL

### Charge metric

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

Program name	PID number	License Information document number
IBM Cloud Private	5737-E67	<a href="#">L-VASN-B2SQB3</a>
IBM Multi-cloud Manager	5737-E67	<a href="#">L-VASN-B2HPY3</a>

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

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

This product is only available through Passport Advantage.

### 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. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

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

### Software Maintenance

Licenses under the IBM Program License Agreement (IPLA) provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available. Two charges apply: 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 document applies to the offering in this announcement:

Program identifier	License Information document title	License Information document number
5737-E67	IBM Cloud Private	<a href="#">L-VASN-B2SQB3</a>
5737-E67	IBM Multi-cloud Manager	<a href="#">L-VASN-B2HPY3</a>

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.

### 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 Software Support Handbook](#).

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 general 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 product. Software Subscription and Support (Software Maintenance) 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 six 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 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**

---

Yes, information is available on the [Passport Advantage and Passport Advantage Express](#) website.

---

**Software Subscription and Support applies**

---

Yes. Software Subscription and Support, also referred to as Software Maintenance, is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

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 users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, see the [IBM Software Support Handbook](#). 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 the applicable agreements.

Unless specified otherwise in a written agreement with you, IBM does not provide support for third-party products that were not provided by IBM. Ensure that when contacting IBM for covered support, you follow problem determination and other instructions that IBM provides, including in the [IBM Software Support Handbook](#).

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, go to the [Passport Advantage and Passport Advantage Express](#) website.

---

**Variable charges apply**

---

No

---

**Educational allowance available**

---

Not applicable.

---

**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

---

### **Business Partner information**

If you are an IBM Business Partner acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBMid and password are required to access the [IBM Passport Advantage](#) or [IBM PartnerWorld<sup>\(R\)</sup>](#) website.

### **Passport Advantage**

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner for Channel Value Rewards. Additional information is also available on the [Passport Advantage and Passport Advantage Express](#) website.

### **Trademarks**

IBM Cloud and Power Systems are trademarks of IBM Corporation in the United States, other countries, or both.

IBM, WebSphere, IBM API Connect, z/VM, Terraform, IBM Z, PureApplication, IBM Watson, PartnerWorld, Passport Advantage, Express, UrbanCode and z Systems are registered trademarks of IBM Corporation in the United States, other countries, or both.

Oracle and Java are trademarks of Oracle and/or its affiliates in the United States, other countries, or both.

VMware vCenter Server is a trademark of VMware, Inc. in the U.S. and other countries.

Microsoft is a trademark of Microsoft Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

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. 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 Japan](#)

---

## Corrections

---

### **(Corrected on October 5, 2018)**

Revised Key prerequisites, Publications, and Software requirements sections.