Reactive Platform V1.2 extends IBM enterprise polyglot support to the Scala Community

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At a glance

Reactive Platform V1.2 offering from IBM® delivers the following capabilities:

- Provides solutions using Scala event-driven microservice applications.
- Complements IBM WebSphere® Java™ solutions for microservices.
- Extends IBM enterprise-wide polyglot solutions to developers using Scala programming language.

Overview

Reactive Platform, from Lightbend, is an application development framework and run-time solution for building and deploying Reactive applications. Reactive Platform includes the following open-source components:

- Akka, a resilient actor-based runtime
- Play, a web development framework built on Akka
- Lagom, a microservices framework and development environment that takes advantage of Akka and Play

The confluence of data volume and the introduction of cognitive and artificial intelligence technologies increases both opportunity and complexity for developers when building scalable and resilient applications in the new era of cognitive computing. This platform is ideal for developers who use the Scala programming language for cognitive application development because of its ability to handle streaming data and massive scale.

Reactive Platform is powered by an open-source core and brings Scala developers important capabilities across reactive programming, data, and microservices. This offering is designed to provide a complete toolchain for Scala developers to enable them to easily build and deploy artificial intelligence and cognitive applications.

Reactive Platform helps to address the requirements of Scala development organizations that need a supported event-driven solution for their new microservices projects. Reactive Platform applications can be used with IBM WebSphere Java solutions for microservices and is part of the fully supported, IBM polyglot environment for enterprise applications.

IBM delivers two Reactive Platform offerings:

- Reactive Platform V1.2. This includes Enterprise Suite that is supported as part of the Reactive Platform offering and provides:
- Application management
- Intelligent monitoring
- Enterprise integration
- Advanced tooling for the Reactive Platform

- Reactive Platform V1.2 Developer edition. This is a no-charge option for use on developer desktops. It can be freely downloaded from IBM and used on developer desktops to create new Reactive Platform applications. Support for this offering is through developer forums.

Reactive Platform addresses the needs of Scala developers within the overall IBM portfolio. It joins WebSphere Application Server as the IBM market-leading solution for Java applications and IBM Node.js solutions for server-side JavaScript™.

Key prerequisites

Reactive Platform V1.2 requires IBM Java SDK, which is included for download with this offering.

Reactive Platform runs on the following operating systems:

- Linux 64 bit Debian
- Red Hat Enterprise Linux 64 bit
- macOS

For more detailed information, see the Reactive Platform home page on developerWorks.

Planned availability date

September 22, 2017

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT), containing details about accessibility compliance, can be found on the IBM Accessibility website.

Section 508 of the US Rehabilitation Act

Reactive Platform V1.2 is capable as of September 22, 2017, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Reference information

For information on WebSphere Application Server V9.0, see Software Announcement 217-048, dated March 14, 2017.

Program number

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Offering Information

Product information is available on the IBM Offering Information website.

More information is also available on the Passport Advantage® and Passport Advantage Express® website.

Publications

For available publications, see the Reactive Platform home page on developerWorks®.

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 our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide 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

Software requirements

For software requirements, see the Reactive Platform home page on developerWorks.

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement. Read about the Electronic Support portfolio of tools on the IBM Electronic Support website.

You can also access the IBM Support Portal page and the online Service requests and PMRs tool for more support.

Planning information

Lightbend OpsClarity is not included in the Reactive Platform V1.2 offering from IBM at this time.

Packaging

This offering is delivered through the internet by electronic download only.
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.

**Direct customer support**

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 (Software Maintenance) 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 (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option, if available.

**Ordering information**

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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](https://www.ibm.com) page.

Product group: WebSphere

Product:

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Product category: Application Infrastructure

**Passport Advantage**

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**Processor Value Unit (PVU)**
Processor Value Unit (PVU) is a unit of measure by which the Program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the Processor Value Unit (PVU) licensing for Distributed Software website) and the number of processors made available to the Program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores.

Licensee can deploy the Program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (see web page below). If using full capacity licensing, Licensee must obtain PVU entitlements sufficient to cover all activated processor cores* in the physical hardware environment made available to or managed by the Program, except for those servers from which the Program has been permanently removed. If using virtualization capacity licensing, Licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the Program, as defined according to the Virtualization Capacity License Counting Rules website.

* An Activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes

- Some programs may require licenses for the Program and what is being managed. In that case, the following applies. In addition to the entitlements required for the Program directly, Licensee must obtain PVU entitlements for this Program sufficient to cover the processor cores for the systems on which the resources managed or processed by the Program reside.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the Program directly, Licensee must obtain PVU entitlements for this Program sufficient to cover the processor cores for the systems on which the resources managed or processed by the Program reside.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the Program, Licensee must obtain PVU entitlements for this Program sufficient to cover the environment made available to the Referenced Program as if the Program itself were executing everywhere the Referenced Program was executing, independent of the basis on which the Referenced Program is licensed.

Virtual Processor Core

Virtual Processor Core is a unit of measure by which the Program can be licensed. A Physical Server is a physical computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or client devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate Physical Server. A Virtual Server is either a virtual computer created by partitioning the resources available to a Physical Server or an unpartitioned Physical Server. A Processor Core (commonly called a processor or CPU) is a functional unit within a computing device that interprets and executes instructions. A Processor Core consists of at least an instruction control unit, and one or more arithmetic or logic unit. A Virtual Processor Core is a Processor Core in an unpartitioned Physical Server, or a virtual core assigned to a Virtual Server. Licensee must obtain entitlement for each Virtual Processor Core made available to the Program.

Note: Some programs may require licenses for the Program of the lesser of the sum of all virtual cores or all physical cores. In that case, the following applies. For each Physical Server, Licensee must have sufficient entitlements for the lesser of 1) the
sum of all available Virtual Processor Cores on all Virtual Servers made available to
the Program or 2) all available Processor Cores on the Physical Server.

Terms and conditions

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convenience purposes only. The terms and conditions that govern any transaction
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Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

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

Agreement for Acquisition of Software Maintenance

These programs are licensed under the IBM Program License Agreement (IPLA)
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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 (also referred to
as Software Maintenance) can be extended by the purchase of a renewal option, if
available. 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 program’s License Information will be available for review on the IBM Software
License Agreement website.

License Information form number

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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 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 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.

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**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.

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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.

Other support

Passport Advantage

Variable charges apply

No

Educational allowance available

Not applicable.

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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.

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Prices

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Passport Advantage

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