IBM Bluemix Runtime for Swift, Dedicated and IBM Bluemix Runtime for Swift, Local enables radically simplified development of end-to-end Swift applications

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At a glance

IBM® Bluemix® Runtime for Swift, Dedicated and IBM Bluemix Runtime for Swift, Local provides:

- An optimized, highly scalable cloud environment to build end-to-end applications in the Swift programming language. Build web services with complex routes easily, when used with Kitura, a light-weight web framework, which is written in the Swift programming language.
- A flexible, capacity consumption-based monthly pricing. Purchase the IBM Swift runtime service that is either based on:
  - Consumption of gigabyte-per-hour capacity
  - Through a long-term Bluemix subscription
- An option to deploy applications in a single-tenant, dedicated cloud environment.
  - Gain predictable performance from resources that are dedicated solely to your workload.
  - Ensure that your data is held on systems not shared by other users, protected by robust security features
- An option to deploy applications in a local, on-premises, data center cloud environment.
  - Gain direct control over the physical location of the data and workload.
  - Address concerns over data sovereignty, performance, latency, and compliance.

Overview

Bluemix Runtime for Swift, Dedicated and Bluemix Runtime for Swift, Local unlocks the value of the cloud for Swift developers. It integrates the latest IBM Swift buildpack with a sample application built with the Kitura open web framework. It includes various optimizations to enable the latest Swift version to run in a Bluemix environment. The IBM Swift buildpack, in turn, is a custom, IBM-supported, buildpack that is based on the open source community Cloud Foundry buildpack for Swift, and optimizes for Kitura for building server-side applications and APIs to run in Bluemix environments:

- Bluemix Public
• Bluemix Dedicated
• Bluemix Local

The IBM Swift Cloud Foundry buildpack is optimized for Bluemix deployments. Optimizations from IBM include the ability to:
• Add critical system level dependencies, with the following libraries:
  – libcurl3
  – openssl
  – libssl-dev
• Caching latest Swift builds supported by Kitura
• Optimize Bluemix systems configuration.

Upon submission of a new Bluemix developer's Swift application to Bluemix Dedicated or Bluemix Local, Bluemix Dedicated or Bluemix Local performs the following functions:
• Provide access to a Linux™ container.
• Load the latest Swift binaries.
• Issue a command to build your application by using the Swift Package Manager function.
• Run the application.

**Key prerequisites**

Bluemix Runtime for Swift, Dedicated and Bluemix Runtime for Swift, Local requires:

• A desktop operating system that runs releases of Microsoft™ Windows™, Linux, and Apple MacOS, as listed in the Technical Information section
• Access to an Bluemix Public, Bluemix Dedicated, or Bluemix Local cloud environment
• An internet connection and a workstation that is capable of supporting a web browser, as listed in the Technical information section.

**Planned availability date**

September 22, 2016

**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(R) and Passport Advantage Express™ website.
Services

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

Technical information

Specified operating environment

Hardware requirements

Bluemix Runtime for Swift, Dedicated and IBM Bluemix Runtime for Swift, Local requires one of the following platforms:

- Bluemix Public
- Bluemix Dedicated
- Bluemix Local

Planning information

Packaging

This offering is delivered electronically. There is no physical media.

Ordering information

For ordering information, consult your IBM representative or go to the Passport Advantage website.

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

Passport Advantage

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### Metric definition

**Instance**: An Instance is access to a specific configuration of the Cloud Service. You will be charged for each Instance of the Cloud Service that exists during each month during the billing period.

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### Money-back guarantee

No

### 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**

No

**System i Software Maintenance applies**

No

**Variable charges apply**

No

**Educational allowance available**

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**Corrections**

(Corrected on September 22, 2016)

Title, At a glance, Overview, Key Prerequisites, and Technical information are revised.