

RED HAT SOFTWARE COLLECTIONS

BRIDGING DEVELOPMENT AGILITY AND PRODUCTION STABILITY

TECHNOLOGY BRIEF



BENEFITS

Choose the right runtimes for your project with access to the latest stable versions..

Preserve application stability by running multiple versions of software components side-by-side.

Deploy resulting applications with confidence.

INTRODUCTION

Easy access to advancements in runtime technologies leads to more innovative applications. Red Hat® Software Collections delivers the latest stable versions of dynamic languages, open source databases, and web development tools that can be deployed alongside those included in Red Hat Enterprise Linux®. Red Hat Software Collections is available with select Red Hat Enterprise Linux subscriptions and has a three-year life cycle to allow rapid innovation without sacrificing stability.

Some applications require more recent versions of software components to make use of new functionality. Red Hat Software Collections provides a set of dynamic programming languages, database servers, and related packages that are either more recent than those included in Red Hat Enterprise Linux, or are being made available for use with Red Hat Enterprise Linux for the first time.

Red Hat uses software collections functionality to deliver Red Hat Software Collections. Software collections functionality, not to be confused with Red Hat Software Collections, provides a structural definition, independent of the operating system, for applications or tools. This allows you to build and concurrently install multiple versions of the same software components on your system. Packages built using software collections technology do not overwrite system files and can depend on other software collections.

Red Hat Software Collections is a prescribed set of content intended for use in Red Hat Enterprise Linux production environments. Red Hat Software Collections lets you choose the runtime versions best suited for your projects, preserve application stability, and deploy your applications with confidence.

CHOOSE THE BEST RUNTIMES FOR YOUR PROJECTS

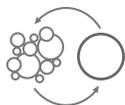
Red Hat makes stable tools and runtime technologies available for use with Red Hat Enterprise Linux under its 10-year life cycle. Red Hat Software Collections augments this with access to recent, stable versions of essential web development tools, dynamic languages, open source databases, C and C++ compilers, the Eclipse IDE, and a variety of development and performance management tools.

By adopting Red Hat Software Collections, developers can take advantage of innovation with the latest stable versions of Ruby and Rails, PHP, Python, MySQL, and more—without the effort and risk associated with installing and troubleshooting unsupported community versions. The packages included in Red Hat Software Collections are suited for projects with shorter application life cycles. Applications with life cycles greater than five years can benefit from the packages that are included in Red Hat Enterprise Linux.

PRESERVE APPLICATION STABILITY

Components in Red Hat Software Collections are packaged so that they can be installed on Red Hat Enterprise Linux 6 or Red Hat Enterprise Linux 7 and run concurrently alongside existing versions without overwriting system files. Red Hat Software Collections does not replace the components that ship with Red Hat Enterprise Linux. This means that you can preserve stability as you deploy applications built on newer versions of Python, Ruby, and other runtime languages. The same is true of the included open source databases and other essential development tools.

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ABOUT RED HAT ENTERPRISE LINUX DEVELOPER PROGRAM

The Red Hat Enterprise Linux Developer Program bridges development agility and production stability by delivering the latest stable developer tools, instructional resources, and an ecosystem of experts to help you develop great Linux applications faster.

DEPLOY WITH CONFIDENCE

Red Hat Software Collections can be used to develop applications for deployment on Red Hat Enterprise Linux, the world's leading enterprise Linux platform, and on OpenShift, the leading Platform-as-a-Service (PaaS). This offers customers exceptional flexibility and choice for development and deployment. In addition, Red Hat makes Dockerfiles available for the most popular software collections, helping developers rapidly build and deploy container-based applications.

Red Hat Software Collections releases are supported for 3 years.

To learn more about how Red Hat Software Collections are packaged as cartridges in OpenShift, visit: www.openshift.com/products/technologies

FEATURES AND CAPABILITIES

Red Hat Software Collections 1.2 includes access to advanced capabilities through the following components:

COMPONENT	SOFTWARE COLLECTION	DESCRIPTION
Red Hat Developer Toolset 3.0	devtoolset-3	A software collection in its own right, Red Hat Developer Toolset is included as a component of Red Hat Software Collections. This update brings the Eclipse IDE to Red Hat Enterprise Linux 7 for the first time and ensures that C and C++ developers are able to compile once and deploy to multiple versions of Red Hat Enterprise Linux.
Perl 5.16.3	perl516	A recent stable release of Perl with a number of additional utilities, scripts, and database connectors for MySQL and PostgreSQL. This version provides a large number of new features and enhancements, including new debugging options, improved Unicode support, and better performance.
PHP 5.4	php54	A recent stable release of PHP with PEAR 1.9.4 and a number of additional utilities. This version provides new language syntax, a built-in web server for the command line, and improved performance.
PHP 5.5	php55	A recent stable release of PHP with enhanced language features, including better exception handling, generators, and Zend OPcache. This version also includes memcache and MongoDB extensions, as well as a number of other enhancements and bug fixes.
Python 2.7	python27	A recent stable release of Python 2 with a number of additional utilities and database connectors for MySQL and PostgreSQL. This version provides various new features and enhancements, including a new ordered dictionary type, faster I/O operations, and improved forward compatibility with Python 3.

COMPONENT	SOFTWARE COLLECTION	DESCRIPTION
Python 3.3	python33	A recent stable release of Python 3 with a number of additional utilities and a database connector for PostgreSQL. This software collection gives developers on Red Hat Enterprise Linux 6 access to Python 3 and allows them to test the compatibility of their applications with this version.
Ruby 1.9.3	ruby193	A recent stable release of Ruby with Rails 3.2.8 and a large collection of Ruby gems. This software collection gives developers on Red Hat Enterprise Linux 6 access to Ruby 1.9, which provides a number of new features and enhancements, including improved Unicode support, enhanced threading, and faster load times.
Ruby 2.0.0	ruby200	A recent stable release of Ruby 2 and, in its own collection, Ruby on Rails 4 give users the ability to access and install an updated version of Ruby without necessarily having to install an updated version of Rails. Ruby 2.0.0 provides substantial performance and reliability improvements and includes a number of new features and improved debugging capabilities, while maintaining source-level backward compatibility with Ruby 1.9.3.
Ruby on Rails 4.0	ror40	
MariaDB 5.5	mariadb55	A recent stable release of MariaDB. This software collection gives users of Red Hat Enterprise Linux 6 an alternative to MySQL, which is binary compatible with MariaDB and can be replaced with it without any data conversions.
MongoDB 2.4	mongodb24	A recent stable release of MongoDB, a high-performance, cross-platform document database that provides high availability and easy scalability. This version includes enhanced geospatial support, the V8 JavaScript engine, security enhancements, text search (beta), and hashed indexes.
MySQL 5.5	mysql55	A recent stable release of MySQL. This version provides a number of new features and enhancements, including improved performance.
PostgreSQL 9.2	postgres92	A recent stable release of PostgreSQL. This version provides a number of new features and enhancements, including native JSON support, improved scalability, and better performance.
DevAssistant 0.9.1	devassist09	A recent stable release of DevAssistant, a useful tool for setting up development environments, publishing code, and completing other associated tasks.



ABOUT RED HAT

Red Hat is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux, and middleware technologies. Red Hat also offers award-winning support, training, and consulting services. Red Hat is an S&P company with more than 80 offices spanning the globe, empowering its customers' businesses.

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COMPONENT	SOFTWARE COLLECTION	DESCRIPTION
Git 1.9.4	git19	A recent stable release of Git, the distributed version control system that can handle everything from small to very large projects with speed and efficiency.
Maven 3.0	maven30	A recent stable release of Maven, a build automation tool for Java™ projects that describes how software is built and all associated dependencies.
Apache HTTP Server 2.4	httpd24	A recent stable release of Apache HTTP Server (httpd) includes a high performance event-based processing model for high-traffic environments and enhancements to both SSL and proxy load-balancing support.
Nginx 1.6	nginx16	A recent stable release of Nginx, a web and proxy server that focuses on high concurrency, performance, and low memory usage.
Thermostat 1	thermostat1	A recent stable release of Thermostat, a powerful monitoring and instrumentation tool for monitoring Java virtual machine (JVM) instances on multiple hosts.
Node.js 0.10[a]	nodejs010	A recent stable release of Node.js. This software collection gives users of Red Hat Enterprise Linux 6 access to this programming platform.

[a] In Red Hat Software Collections 1.2, Node.js is included as a technology preview. For more information about Red Hat technology previews, see <https://access.redhat.com/support/offerings/techpreview/>.

With the exception of Node.js, which is included as a technology preview, all Red Hat Software Collections components are fully supported under Red Hat Enterprise Linux subscription support-level agreements (SLAs).

Components are functionally complete and intended for production use. Red Hat Software Collections is available for Red Hat Enterprise Linux 6 or Red Hat Enterprise Linux 7 customers and partners. It is included with Red Hat Enterprise Linux Developer Subscriptions and most other Red Hat Enterprise Linux subscriptions.

NEXT STEPS

Contact a Red Hat sales or support representative to learn how you can get started with Red Hat Software Collections.



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