Red Hat JBoss Core Services 2.4.51

Red Hat JBoss Core Services Apache HTTP Server 2.4.51 Release Notes

For Use with the Red Hat JBoss Core Services Apache HTTP Server 2.4.51

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Abstract

These release notes contain important information related to the Red Hat JBoss Core Services Apache HTTP Server 2.4.51.

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PREFACE

Welcome to the Red Hat JBoss Core Services version 2.4.51 release.

Red Hat JBoss Core Services Apache HTTP Server is an open source web server developed by the Apache Software Foundation. The Apache HTTP Server includes the following features:

- Implements the current HTTP standards, including HTTP/1.1 and HTTP/2
- Supports Transport Layer Security (TLS) encryption through OpenSSL, which provides secure connections between the web server and web clients.
- Supports extensible functionality through the use of modules, some of which are included with the Red Hat JBoss Core Services Apache HTTP Server.

PROVIDING FEEDBACK ON RED HAT DOCUMENTATION

To report an error or to improve our documentation, log in to your Red Hat Jira account and submit an issue. If you do not have a Red Hat Jira account, then you will be prompted to create an account.

Procedure

1. Click the following link to **create a ticket**.
2. Enter a brief description of the issue in the **Summary**.
3. Provide a detailed description of the issue or enhancement in the **Description**. Include a URL to where the issue occurs in the documentation.
4. Clicking **Submit** creates and routes the issue to the appropriate documentation team.

MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see our CTO Chris Wright's message.

CHAPTER 1. NEW FEATURES AND ENHANCEMENTS

Red Hat JBoss Core Services 2.4.51 includes the following new features and enhancements.

1.1. RENAMING OF MOD_CLUSTER-NATIVE TO MOD_PROXY_CLUSTER

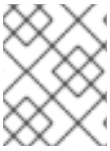
From JBCS 2.4.51 onward, **mod_cluster-native** has been renamed **mod_proxy_cluster**.

The following name changes have been introduced in this release:

- The **jbcs-httpd24-mod_cluster-native** package has been renamed **jbcs-httpd24-mod_proxy_cluster**.
- The **mod_cluster.conf** file has been renamed **mod_proxy_cluster.conf**.
- The **mod_cluster** cache has been renamed **mod_proxy_cluster**.
- The **mod_cluster** SELinux policy has been renamed **mod_proxy_cluster**.
- References to the **mod_cluster** connector in JBCS product documentation have been changed to **mod_proxy_cluster**.

1.2. DEFAULT MPM IS EVENT ON RED HAT ENTERPRISE LINUX 8

From JBCS 2.4.51 onward, the **event** multi-processing module (MPM) is set as the default MPM on Red Hat Enterprise Linux 8. This supercedes the behavior in previous releases where the **prefork** MPM was set as the default.

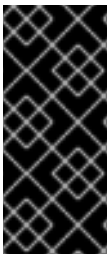


NOTE

This change applies to the default MPM on Red Hat Enterprise Linux 8 only. The **prefork** MPM remains the default MPM on Red Hat Enterprise Linux 7.

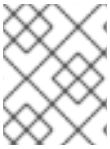
1.3. CONFIGURATION OF MPM PERFORMANCE SETTINGS IN THE MPM.CONF FILE

From JBCS 2.4.51 onward, the ***JBCS_HOME*/httpd/conf.d/mpm.conf** file now contains the performance settings for multi-processing modules (MPMs). This supersedes the behavior in JBCS 2.4.37 or earlier releases where the ***JBCS_HOME*/httpd/conf.modules.d/00-mpm.conf** file contained these MPM performance settings.



IMPORTANT

If you are upgrading from JBCS 2.4.37 or earlier, ensure that you configure the **conf.d/mpm.conf** file for your upgraded 2.4.51 installation to match any customized settings that you previously configured in **conf.modules.d/00-mpm.conf**. Otherwise, your upgraded JBCS 2.4.51 installation automatically uses the default settings in the **conf.d/mpm.conf** file, which might lead to unexpected performance issues.



NOTE

In JBCS 2.4.51, the ***JBCS_HOME*/httpd/conf.modules.d/00-mpm.conf** file still contains the **LoadModule** directives for MPM types, as in previous releases.

CHAPTER 2. INSTALLING THE RED HAT JBOSS CORE SERVICES 2.4.51

You can install the Apache HTTP Server 2.4.51 on Red Hat Enterprise Linux or Microsoft Windows. For more information see the following sections of the installation guide:

- Installing the JBCS Apache HTTP Server on RHEL from archive files
- Installing the JBCS Apache HTTP Server on RHEL from RPM packages
- Installing the JBCS Apache HTTP Server on Microsoft Windows

CHAPTER 3. UPGRADING TO THE RED HAT JBOSS CORE SERVICES APACHE HTTP SERVER 2.4.51

If you have installed an earlier version of the Red Hat JBoss Core Services Apache HTTP Server from an archive file, you must perform the following steps to upgrade to the Apache HTTP Server 2.4.51:

1. Install the Apache HTTP Server 2.4.51.
2. Set up the Apache HTTP Server 2.4.51.
3. Remove the earlier version of Apache HTTP Server.

Prerequisites

- If you are using Red Hat Enterprise Linux, you have root user access.
- If you are using Windows Server, you have administrative access.
- The Red Hat JBoss Core Services Apache HTTP Server 2.4.37 or earlier was previously installed in your system from an archive file.

Procedure

You can use the following recommended procedure to upgrade the Red Hat JBoss Core Services Apache HTTP Server from version 2.4.37 to version 2.4.51:

1. Shut down any running instances of the Red Hat JBoss Core Services Apache HTTP Server 2.4.37.
2. Back up the Red Hat JBoss Core Services Apache HTTP Server 2.4.37 installation and configuration files.
3. Install the Red Hat JBoss Core Services Apache HTTP Server 2.4.51 by using the archive file installation method for the current system (see Additional Resources below).
4. Migrate your configuration from the Red Hat JBoss Core Services Apache HTTP Server version 2.4.37 to version 2.4.51.

NOTE

The Apache HTTP Server configuration files might have changed since the Apache HTTP Server 2.4.37 release. Update the 2.4.51 version configuration files rather than overwrite them with the configuration files from a different version (such as the Apache HTTP Server 2.4.37).

5. Remove the Red Hat JBoss Core Services Apache HTTP Server 2.4.37 root directory.

Additional Resources

- Installing the JBCS Apache HTTP Server on RHEL from archive files
- Installing the JBCS Apache HTTP Server on RHEL from RPM packages
- Installing the JBCS Apache HTTP Server on Microsoft Windows

CHAPTER 4. RESOLVED ISSUES

The following are resolved issues for this release:

Issue	Summary
JBCS-1388	RHEL-9 zip name missing -GA.<BUILD>
JBCS-1387	mod_proxy_cluster hcheck not working
JBCS-1361	[DDF] The back-end configuration in the LB Config Tool is "JWS/Tomcat", not "Tomcat"
JBCS-1352	JBCS-2.4.51-GA-ER2 contains both conf.d/mpm.conf and conf.modules.d/00-mpm.conf
JBCS-1351	JBCS-2.4.51-GA-ER2 contains mod_cluster.conf instead of mod_proxy_cluster.conf
JBCS-1289	mod_ext_filter test failure
JBCS-1288	Unexpected library name change libexpat.dll
JBCS-1287	Unexpected dependency in libxml2.dll
JBCS-1286	htdbm fails to create user
JBCS-1285	Apxs doesn't work using JBCS src headers and Libs
JBCS-1260	Remove lua package from JBCS distribution
JBCS-1227	Documentation needs to be updated to reflect release of JBCS httpd rpm on RHEL8
JBCS-1204	.postinstall script breaks the JBCS manual
JBCS-1196	[DDF] After enabling the jb-coreservices-1-for-rhel-8-x86_64-rpms repository, running `dnf --disablerepo='*'
JBCS-1181	default mod_jk location for JkShmFile should be moved from logs/jk.shm due to SELinux
JBCS-1148	Rename mod_cluster-native package to mod_proxy_cluster
JBCS-1073	responsefieldsize needs to be configurable for mod_cluster

Issue	Summary
JBCS-987	The default worker install is prefork we should use a more modern one like event
JBCS-811	Reduce postinstalls complexity
JBCS-544	Duplicate licence files in Openssl
JBCS-452	openssl warning message
JBCS-332	mpm_event_module default example configuration is missing from 00-mpm.conf
JBCS-66	Socket bind failed on link-local [IPV6]

CHAPTER 5. KNOWN ISSUES

The following are known issues for this release:

Issue	Summary
JBCS-1353	mpm_event_module instead of event.c in mpm.conf
JBCS-1293	the xml files are missing in docs/manual/ in the look aside gerrit

CHAPTER 6. SUPPORTED COMPONENTS

For a list of component versions that are supported in this release of Red Hat JBoss Core Services, see the Core Services Apache HTTP Server Component Details page. Before you attempt to access the Component Details page, you must ensure that you have an active Red Hat subscription and you are logged in to the Red Hat Customer Portal.

CHAPTER 7. ADVISORIES RELATED TO THIS RELEASE

The following advisories have been issued to document enhancements, bugfixes, and CVE fixes included in this release:

- RHSA-2022:7143
- RHSA-2022:7144