Red Hat JBoss Core Services 2.4.51

Red Hat JBoss Core Services Apache HTTP Server 2.4.51 Service Pack 2 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 Service Pack 2 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

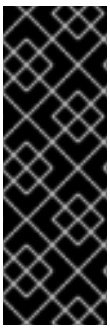
Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases.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

CHAPTER 1. NEW FEATURES AND ENHANCEMENTS

Red Hat JBoss Core Services (JBCS) 2.4.51 Service Pack 2 includes the following new features and enhancements.

1.1. RED HAT ENTERPRISE LINUX 9 SUPPORT

From the 2.4.51 Service Pack 2 release onward, JBCS is also certified for use on Red Hat Enterprise Linux (RHEL) 9.



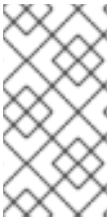
IMPORTANT

Support is available for installing JBCS on RHEL 9 from an archive file only. JBCS does not provide an RPM distribution of the Apache HTTP Server for RHEL 9 systems.

If you want to install the Apache HTTP Server from RPM packages on RHEL 9, you can use the Application Streams feature of RHEL. For more information about the different installation options, see the Red Hat JBoss Core Services Apache HTTP Server Installation Guide.

1.2. JBCS SUPPORT FOR APACHE HTTP SERVER 2.4.53 ON RHEL 9

For JBCS Apache HTTP Server installations on RHEL 9, the supported Apache HTTP Server version is 2.4.53.



NOTE

The base archive file for installing the JBCS Apache HTTP Server on RHEL 9 is named **Red Hat JBoss Core Services Apache HTTP Server 2.4.51 Patch 02 for RHEL 9 x86_64**. Despite the **2.4.51** naming convention, the JBCS archive file for RHEL 9 provides a distribution of Apache HTTP Server 2.4.53.

1.3. USENOCANON DIRECTIVE FOR MOD_PROXY_CLUSTER

The **mod_proxy_cluster** module now supports a **UseNocanon** directive that enables you to define whether you want the proxy to forward the original URL path to the back end without modifications.

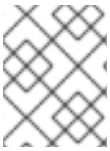
The default value is **Off**. When the **UseNocanon** directive is set to **Off**, the proxy can forward modified URLs to the back end. However, if the back-end application expects the original URL path that the client requested, the modified URL path can lead to unexpected issues.

When you set the **UseNocanon** directive to **On**, the proxy can forward the original URL path to the back end without any modifications. In this situation, the proxy behavior depends on whether you also define a context and a **ProxyPass** directive for the requested URL in the **mod_proxy_cluster.conf** file. A context is also known as a *virtual host definition*.

Consider the following guidelines when you set the **UseNocanon** directive to **On**:

- If you define a context for the requested URL but you do not define a **ProxyPass** directive for this URL, the proxy uses the **UseNocanon** directive.
- If you define both a context and a **ProxyPass** directive for the requested URL, and the **ProxyPass** directive includes the **nocanon** flag, the proxy uses the **nocanon** flag and ignores the **UseNocanon** directive.

- If you define both a context and a **ProxyPass** directive for the requested URL, and the **ProxyPass** directive excludes the **nocanon** flag, the proxy ignores the **UseNocanon** directive.



NOTE

If you do not define a context for the requested URL, **mod_proxy_cluster** returns a **404** error.

CHAPTER 2. BEHAVIORAL DIFFERENCES BETWEEN JBCS 2.4.51 DISTRIBUTIONS ON DIFFERENT RHEL VERSIONS

Unlike JBCS 2.4.51 on RHEL 7 or RHEL 8, the JBCS 2.4.51 distribution for RHEL 9 systems is based on the RHEL distribution of the Apache HTTP Server **httpd** package.

Because of this difference between the JBCS 2.4.51 distributions for different RHEL versions, JBCS 2.4.51 on RHEL 9 has certain behavioral differences compared to JBCS 2.4.51 on earlier RHEL versions.

Consider the following guidelines:

- On RHEL 9, the **mod_security** module does not support the **SecCollectionGCFrequency** directive for specifying garbage collection frequency. The **mod_security** module that JBCS provides on RHEL 7 and RHEL 8 supports the **SecCollectionGCFrequency** directive.
- On RHEL 9, the **mod_deflate** module does not support the **DeflateAlterEtag** directive for specifying how to alter the ETag header when a response is compressed. The **mod_deflate** module that JBCS provides on RHEL 7 and RHEL 8 supports the **DeflateAlterEtag** directive.
- On RHEL 9, the **httpd.conf.sample** file does not include the following content:
    - A default **PidFile** directive for specifying the file in which the server records the process ID of the daemon
    - A list of **AddLanguage** directives in the **mod_mime** section for mapping specific filename extensions to specific content languages
    - A configuration section for the **web_dav** module for web-based distributed authoring and versioning (WebDav)

  The **httpd.conf.sample** file that JBCS provides on RHEL 7 and RHEL 8 includes all of the preceding content.

CHAPTER 3. INSTALLING RED HAT JBOSS CORE SERVICES 2.4.51

You can install the Apache HTTP Server 2.4.51 on Red Hat Enterprise Linux (RHEL) or Windows Server systems. 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 Windows Server

CHAPTER 4. UPGRADING TO THE RED HAT JBOSS CORE SERVICES APACHE HTTP SERVER 2.4.51

NOTE

If you installed an earlier release of the JBCS Apache HTTP Server from RPM packages on RHEL 7 or RHEL 8 by using the **yum groupinstall** command, you can upgrade to the latest release. You can use the **yum groupupdate** command to upgrade to the 2.4.51 release on RHEL 7 or RHEL 8.

JBCS does not provide an RPM distribution of the Apache HTTP Server on RHEL 9.

If you installed an earlier release of the JBCS Apache HTTP Server from archive files, upgrading to the Apache HTTP Server 2.4.51 release requires the following steps:

1. Installing the Apache HTTP Server 2.4.51
2. Setting up the Apache HTTP Server 2.4.51
3. Removing the earlier version of Apache HTTP Server

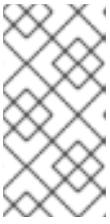
The following procedure describes the recommended steps for upgrading a JBCS Apache HTTP Server 2.4.37 release that you installed from archive files to the latest 2.4.51 release.

Prerequisites

- Root user access (Red Hat Enterprise Linux systems)
- Administrative access (Windows Server)
- A system where the Red Hat JBoss Core Services Apache HTTP Server 2.4.37 or earlier was installed from archive files

Procedure

1. Shut down any running instances of 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 using the .zip 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. Consider updating 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 JBoss Core Services Apache HTTP Server on Windows Server

CHAPTER 5. RESOLVED ISSUES

The following issues are resolved for this release:

Issue	Summary
JBCS-1454	httpd 2.4.51 rpm apachectl no longer uses systemctl commands
JBCS-1427	Error in Windows event log after stopping JBoss EAP 7.3.6 service
JBCS-1261	prunsrv with force stop option
JBCS-1092	Shutdown log and CLI result are mixed up on stdout when stopping EAP as a windows service
JBCS-450	mod_cluster balancers to be able to support nocanon flag
JBCS-392	mod_proxy_hcheck doesn't perform checks

CHAPTER 6. KNOWN ISSUES

No known issues affect this release.

CHAPTER 7. SUPPORTED COMPONENTS

For a full 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 8. ADVISORIES RELATED TO THIS RELEASE

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

- RHSA-2023:3354
- RHSA-2023:3355