Red Hat JBoss Core Services 2.4.29

Red Hat JBoss Core Services Apache HTTP Server 2.4.29 Service Pack 3 Release Notes

For Use with the Red Hat JBoss Core Services Apache HTTP Server 2.4.29

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Abstract

These release notes contain important information related to the Red Hat JBoss Core Services Apache HTTP Server 2.4.29.

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PREFACE

Welcome to the Red Hat JBoss Core Services version 2.4.29 Service Pack 3 release.

The purpose of release 2.4.29 Service Pack 3 is to cover an important security issue impacting JBCS 2.4.29.

IMPORTANT

This service pack for Red Hat JBoss Core Services Apache HTTP Server does **NOT** support Solaris.

Red Hat JBoss Core Services Apache HTTP Server is an open source web server developed by the Apache Software Foundation. Features of Apache HTTP Server include:

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

CHAPTER 1. INSTALLING THE RED HAT JBOSS CORE SERVICES 2.4.29 SERVICE PACK 3

The Apache HTTP Server 2.4.29 Service Pack 3 can be installed using one of the following sections of the installation guide:

- For installation instructions for Red Hat Enterprise Linux systems, see:
  - Installing JBoss Core Services Apache HTTP Server on Red Hat Enterprise Linux: Installation using .zip archives.
  - Installing JBoss Core Services Apache HTTP Server on Red Hat Enterprise Linux: Installation using RPM packages.
- For installation instructions for Microsoft Windows systems, see: Installing JBoss Core Services Apache HTTP Server on Microsoft Windows.

CHAPTER 2. UPGRADING TO THE RED HAT JBOSS CORE SERVICES APACHE HTTP SERVER 2.4.29

NOTE

Where a Red Hat JBoss Core Services Apache HTTP Server 2.4.23 or earlier was installed from RPMs packages using **yum**, the Apache HTTP Server can be upgraded with **yum upgrade**.

For systems where an earlier version of the Red Hat JBoss Core Services Apache HTTP Server was installed from a .zip archive, upgrading to the Apache HTTP Server 2.4.29 Service Pack 3 requires:

1. Installing the Apache HTTP Server 2.4.29.
2. Setting up the Apache HTTP Server 2.4.29.
3. Removing the earlier version of Apache HTTP Server.

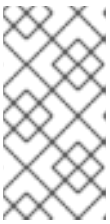
Prerequisites

- Root user access (Red Hat Enterprise Linux)
- Administrative access (Windows Server)
- A system where the Red Hat JBoss Core Services Apache HTTP Server 2.4.23 or earlier was installed from a .zip archive.

Procedure

For systems using the Red Hat JBoss Core Services Apache HTTP Server 2.4.23, the recommended procedure for upgrading to the Apache HTTP Server 2.4.29 is:

1. Shutdown any running instances of Red Hat JBoss Core Services Apache HTTP Server 2.4.23.
2. Backup the Red Hat JBoss Core Services Apache HTTP Server 2.4.23 installation and configuration files.
3. Install the Red Hat JBoss Core Services Apache HTTP Server 2.4.29 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 2.4.23 to version 2.4.29.



NOTE

The Apache HTTP Server configuration files may have changed since the Apache HTTP Server 2.4.23 release. It is recommended that you update the 2.4.29 version configuration files, rather than overwrite them with the configuration files from a different version (such as Apache HTTP Server 2.4.23).

5. Remove the Red Hat JBoss Core Services Apache HTTP Server 2.4.23 root directory.

Additional Resources

- For installation instructions for Red Hat Enterprise Linux systems, see:

    - Installing JBoss Core Services Apache HTTP Server on Red Hat Enterprise Linux: Installation using .zip archives.
    - Installing JBoss Core Services Apache HTTP Server on Red Hat Enterprise Linux: Installation using RPM packages.

- For installation instructions for Microsoft Windows systems, see: Installing JBoss Core Services Apache HTTP Server on Microsoft Windows.

CHAPTER 3. SECURITY FIXES

This update includes fixes for the following security related issues:

ID	Impact	Summary
CVE-2019-9511	Important	HTTP/2: large amount of data requests leads to denial of service
CVE-2019-9513	Important	HTTP/2: flood using PRIORITY frames resulting in excessive resource consumption
CVE-2019-9516	Important	HTTP/2: 0-length headers lead to denial of service
CVE-2019-9517	Important	HTTP/2: request for large response leads to denial of service

CHAPTER 4. RESOLVED ISSUES

The following are non-security issues resolved during this release:

Issue	Description
JBCS-806	CVE-2019-9513 nghttp2: HTTP/2: flood using PRIORITY frames resulting in excessive resource consumption [jbcs-httpd-2.4.29-sp2-native]
JBCS-820	CVE-2019-9511 nghttp2: HTTP/2: large amount of data request leads to denial of service [jbcs-httpd-2.4.29-sp2-native]
JBCS-822	CVE-2019-9517 mod_http2: HTTP/2: request for large response leads to denial of service [jbcs-httpd-2.4.29-sp2-native]
JBCS-824	CVE-2019-9516 mod_http2: HTTP/2: 0-length headers leads to denial of service [jbcs-httpd-2.4.29-sp2-native]
JBCS-828	Rebase nghttp2 to 1.39.2

CHAPTER 5. KNOWN ISSUES

There are currently no known issues for this release

CHAPTER 6. UPGRADED COMPONENTS

The components upgraded in this release are as follows:

JBCS Component	Version	Operating System
nghttp2	1.39.2	All