



JBoss Enterprise Application Platform Continuous Delivery 16

JBoss EAP Continuous Delivery 16 Release Notes

For Use with JBoss Enterprise Application Platform Continuous Delivery 16

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Abstract

These release notes contain important information related to JBoss Enterprise Application Platform continuous delivery release 16, which is available as a Technology Preview release in the cloud only.

Table of Contents

CHAPTER 1. ABOUT JBOSS EAP CONTINUOUS DELIVERY 16	3
1.1. DIFFERENCES BETWEEN JBOSS EAP AND JBOSS EAP CONTINUOUS DELIVERY	3
CHAPTER 2. NEW FEATURES AND ENHANCEMENTS	4
2.1. SECURITY	4
Automatic Detection of Keystore Types	4
Java EE Security API Support in Elytron	4
Silent BASIC Authentication in Elytron	4
Utility to Migrate Properties-based Security Realm to Filesystem Realm in Elytron	4
2.2. SERVER MANAGEMENT	5
Support for JBoss EAP Subsystem Metrics in Prometheus Format	5
2.3. DEPLOYMENTS	5
Display Modules According to Deployment	5
2.4. EJB	5
Multiple Delivery Groups Support for Message-Driven Beans	5
2.5. CLUSTERING	5
New Attribute initial-load in the mod_cluster Subsystem	5
Ability to Determine the Primary Singleton Provider	5
2.6. MESSAGING	5
Configure JMS Resources for a Remote Artemis-based Broker Using the resourceAdapter Element	5
Configure Global Resources Usage for Messaging Servers	6
CHAPTER 3. UNSUPPORTED AND DEPRECATED FUNCTIONALITY	7
3.1. UNSUPPORTED FEATURES	7
3.2. DEPRECATED FEATURES	7
CHAPTER 4. RESOLVED ISSUES	8
CHAPTER 5. FIXED CVES	9
CHAPTER 6. KNOWN ISSUES	10

CHAPTER 1. ABOUT JBOSS EAP CONTINUOUS DELIVERY 16

The JBoss Enterprise Application Platform continuous delivery (JBoss EAP CD) release 16 is a Technology Preview release available in the cloud only. This JBoss EAP CD release introduces a new delivery stream of JBoss EAP, which provides incremental updates and new capabilities on a regular schedule for Red Hat OpenShift Online and the Red Hat OpenShift Container Platform.

The purpose of this new delivery model is to quickly introduce new features ahead of the traditional JBoss EAP GA release. The JBoss EAP CD releases are only available in the OpenShift image format and can be accessed from the Red Hat Container Catalog.

Traditional JBoss EAP GA releases, the next being JBoss EAP 7.3, will be based on an aggregate of JBoss EAP CD releases and will continue to be available through the normal distribution methods.



IMPORTANT

This continuous delivery release for JBoss EAP is provided as Technology Preview only. Technology Preview features are not supported with Red Hat production service level agreements (SLAs), might not be functionally complete, and Red Hat does not recommend to use them for production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process.

See [Technology Preview Features Support Scope](#) on the Red Hat Customer Portal for information about the support scope for Technology Preview features.

1.1. DIFFERENCES BETWEEN JBOSS EAP AND JBOSS EAP CONTINUOUS DELIVERY

There are notable differences between the JBoss EAP product and the continuous delivery release for JBoss EAP.



IMPORTANT

For descriptions of differences and details about feature support in the continuous delivery release for JBoss EAP, see the comparison table in [Getting Started with JBoss EAP for OpenShift Container Platform](#) or [Getting Started with JBoss EAP for OpenShift Online](#).

CHAPTER 2. NEW FEATURES AND ENHANCEMENTS

2.1. SECURITY

Automatic Detection of Keystore Types

The following keystore types are now detected automatically:

- **JKS**
- **JCEKS**
- **PKCS12**
- **BKS**
- **BCFKS**
- **UBER**

The other keystore types must be specified manually.

For more information, see [Elytron Subsystem Components Reference](#) in the *How to Configure Server Security for JBoss EAP*.

Java EE Security API Support in Elytron

The **elytron** subsystem now supports the Java EE Security API as defined in JSR 375.

The Java EE Security API defines portable plug-in interfaces for authentication and identity stores, and a new injectable-type **SecurityContext** interface that provides an access point for programmatic security. You can use the built-in implementations of these APIs, or define custom implementations. For details about the specifications, see [Java EE Security API Specification](#).

You can enable the Java EE Security API in the **elytron** subsystem with minimal configuration steps using the management CLI.

For information on enabling Java EE Security API, see [About Java EE Security API](#) in the Development Guide.

Silent BASIC Authentication in Elytron

You can now configure the **elytron** subsystem to perform a silent **BASIC** authentication.

When the silent authentication is enabled, a user is not prompted to log in for accessing a web application if the user's request does not contain an authorization header.

For information about enabling the silent **BASIC** authentication, see [Configure Web Applications to Use Elytron or Legacy Security for Authentication](#) in *How to Configure Identity Management*.

Utility to Migrate Properties-based Security Realm to Filesystem Realm in Elytron

You can now migrate the legacy properties-based security realm to Elytron's filesystem-based realm using the **filesystem-realm** command of the **elytron-tool.sh** tool.

A filesystem-based realm is a filesystem-based identity store used by Elytron for storing user identities. The **filesystem-realm** command migrates the **properties-realm** files to **filesystem-realm** and also generates commands for adding this realm and a security domain to the **elytron** subsystem.

For information about the **filesystem-realm** command, see [Migrate to Filesystem-based Security Realm Using the filesystem-realm Command](#) in the *Migration Guide* for JBoss EAP.

2.2. SERVER MANAGEMENT

Support for JBoss EAP Subsystem Metrics in Prometheus Format

The Eclipse MicroProfile Metrics functionality is used to provide monitoring data for the JBoss EAP instance. This release enhances the SmallRye Metrics component to provide the JBoss EAP metrics in the Prometheus format.

For information about Eclipse MicroProfile Metrics, see the [Eclipse MicroProfile Metrics](#) section in the *Configuration Guide*.

2.3. DEPLOYMENTS

Display Modules According to Deployment

You can now view a list of modules according to deployment using the **list-modules** management operation.

For more information about using the **list-modules** management operation, see the [Display Modules by Deployment](#) section in the *Development Guide*.

2.4. EJB

Multiple Delivery Groups Support for Message-Driven Beans

A message-driven bean (MDB) can now belong to more than one delivery groups. Message delivery is enabled only when all the delivery groups that an MDB belongs to are active.

For more information, see [Delivery Groups](#) in the *Developing EJB Applications* guide for JBoss EAP.

2.5. CLUSTERING

New Attribute initial-load in the mod_cluster Subsystem

The **mod_cluster** subsystem now defines a new attribute, **initial-load**.

The **initial-load** attribute helps to gradually increase the load value of a newly joined node to avoid overloading it while joining a cluster.

For information on this attribute, see the section [ModCluster Subsystem Attributes](#) in the *Configuration Guide* for JBoss EAP.

Ability to Determine the Primary Singleton Provider

You can now determine the primary singleton provider with the runtime resources that the **singleton** subsystem exposes for each singleton deployment or service created from a particular singleton policy.

For more information, see [Determine the Primary Singleton Service Provider Using the CLI](#) in the *Development Guide* for JBoss EAP.

2.6. MESSAGING

Configure JMS Resources for a Remote Artemis-based Broker Using the resourceAdapter Element

You can configure JMS resources for a remote Artemis-based broker, such as Red Hat AMQ 7, using the **@JMSConnectionFactoryDefinition** annotation or the **@JMSDestinationDefinition** annotation. The **resourceAdapter** element defines which resource adapter is used for creating a JMS resource.

For more information, see [JMS Resources Configuration for a Remote Artemis-based Broker](#) in the *Configuring Messaging* book for JBoss EAP.

Configure Global Resources Usage for Messaging Servers

Three new attributes in the **address-setting** element help you control the global resources usage for messaging servers. For more information, see [Configure Global Resource Usage for Messaging Servers](#) in the *Configuring Messaging* book for JBoss EAP.

CHAPTER 3. UNSUPPORTED AND DEPRECATED FUNCTIONALITY

3.1. UNSUPPORTED FEATURES

Support for some technologies are removed due to the high maintenance cost, low community interest, and better alternative solutions. This release does not introduce any newly unsupported features.

However, the unsupported features listed in the [Unsupported Features](#) section of the release notes for JBoss EAP 7.2 also apply to this continuous delivery release for JBoss EAP, unless they are mentioned in the [New Features and Enhancements](#) section of this document.

3.2. DEPRECATED FEATURES

Some features have been deprecated with this release. This means that no enhancements will be made to these features, and they may be removed in the future, usually the next major release.

Red Hat will continue providing full support and bug fixes under our standard support terms and conditions. For more information about the Red Hat support policy, see the [Red Hat JBoss Middleware Product Update and Support Policy](#) located on the Red Hat Customer Portal.

For details of which features have been deprecated, see the [JBoss Enterprise Application Platform Component Details](#) located on the Red Hat Customer Portal.

CHAPTER 4. RESOLVED ISSUES

See [Resolved Issues for JBoss EAP CD 16](#) to view the list of issues that have been resolved for this release.

CHAPTER 5. FIXED CVEs

JBoss EAP Continuous Delivery 16 does not include any fixed CVEs.

CHAPTER 6. KNOWN ISSUES

See [Known Issues for JBoss EAP CD 16](#) to view the list of known issues for this release.

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