



# JBoss Enterprise Application Platform Continuous Delivery 18

## JBoss EAP Continuous Delivery 18 Release Notes

For Use with JBoss Enterprise Application Platform Continuous Delivery 18



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## Abstract

These release notes contain important information related to JBoss Enterprise Application Platform continuous delivery release 18, which is available as a Technology Preview release in the cloud only.

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## CHAPTER 1. ABOUT JBOSS EAP CONTINUOUS DELIVERY 18

The JBoss Enterprise Application Platform continuous delivery (JBoss EAP CD) release 18 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

#### Ability to Combine Multiple Security Realms for Authorization in an Aggregate Realm

You can now use multiple security realms for authorization in an **aggregate-realm** with the **authorization-realms** attribute.

For more information, see [Configure Authentication and Authorization Using Multiple Identity Stores](#) in the *How to Configure Identity Management* guide for JBoss EAP.

#### Ability to Use the Subject Alternative Name Extension From X.509 Certificate as the Principal

You can now configure an evidence decoder to use a subject alternative name from an X.509 certificate as the principal associated with that certificate.

For more information, see [Configuring Evidence Decoder for X.509 Certificate with Subject Alternative Name Extension](#) in the *How to Configure Server Security* guide.

#### Ability to Combine Multiple Evidence Decoders with Aggregate Evidence Decoder

Elytron now provides an aggregate evidence decoder to combine two or more evidence decoders into a single decoder.

For more information, see [Configuring an Aggregate Evidence Decoder](#) in the *How to Configure Server Security* guide.

#### Certificate Revocation Capability using OCSP

Elytron now provides certificate revocation capability using Online Certificate Status Protocol (OCSP), defined in [RFC6960](#), when undertow is used as a load balancer.

#### Syslog Audit Logging Enhancements

Elytron syslog audit logging now supports log formats defined in [RFC5424](#) and [RFC3164](#) to describe audit events.

A new attribute, **reconnect-attempts**, is now available to configure the maximum number of times Elytron attempts to send successive messages to a syslog server before closing the connection when using UDP.

### 2.2. EJB

#### Client and Server Interceptors

JBoss EAP 7.2 and earlier only supported EJB interceptors configured in the container.

In JBoss EAP 7.3, client interceptors and server interceptors are now supported. Client and server interceptors can be configured globally.

### 2.3. CLUSTERING

#### Ability to Specify Ranked Multiple Routes Session Affinity

You can now specify session affinity as an ordered list of nodes. If your load balancer supports multiple, ordered routes, in the event of a primary node failure, it can choose the optimal nodes in the order defined. It also ensures a definite failover target, if the primary owner of a specific session is inactive.

For information about the ranked affinity options, see [The distributable-web subsystem for](#)



[Distributable Web Session Configurations](#) in the *Development Guide* for JBoss EAP. For information on how to enable ranked session affinity in your load balancer, see [Enabling Ranked Session Affinity in Your Load Balancer](#) in the *Configuration Guide* for JBoss EAP.

## 2.4. INFINISPAN

### Enabling Statistics for Remote Cache Containers

You can now use the HotRod client to expose remote cache container statistics. The **statistics-enabled** attribute can be configured for remote cache containers using the management CLI. For more information, see [Configuring Remote Cache Containers](#) in the *Configuration Guide* for JBoss EAP.

## 2.5. WEB SERVICES

### Optional <T> Parameter Types Available for RESTEasy

RESTEasy now supports the following **java.util.Optional** parameters as wrapper object types:

- **@QueryParam**
- **@MatrixParam**
- **@FormParam**
- **@HeaderParam**
- **@CookieParam**

For more information, see [java.util.Optional Parameter Types](#) in the *Developing Web Services Applications* book for JBoss EAP.

## 2.6. OPENSIFT

### Reduce Memory Footprint with Galleon Feature-packs

You can now customize the main JBoss EAP for OpenShift image configuration to include only the capabilities that you require, thereby reducing the memory footprint. The provisioning tool, [Galleon](#), offers several layers that you can select to control the capabilities present in the JBoss EAP server.

Additionally, you can package customized capabilities as Galleon feature-packs that are installed during the JBoss EAP server Galleon provisioning. For JBoss EAP for OpenShift Source-to-Image (S2I), you can build your feature-packs offline, deploy them to Maven and reference them in your **provisioning.xml** file.

### EAP Operator for Automating Application Deployment on OpenShift

JBoss EAP now offers EAP operator, a JBoss EAP-specific controller, to automate common deployment-related tasks. You can install the EAP operator using OperatorHub, the graphical interface that OpenShift cluster administrators use to discover, install, and upgrade operators.

### EAP Operator for Safe Transaction Recovery and EJB Remoting

The EAP operator ensures safe transaction recovery in your application cluster by verifying that all transactions are completed before scaling down the replicas and marking the pod as **clean** for termination.

The EAP operator uses [StatefulSet](#) for the appropriate handling of EJB remoting and transaction recovery processing. The **StatefulSet** ensures persistent storage and network hostname preservation even after the pods are restarted.

### Calculate JVM Memory Settings

JBoss EAP 7.2 and earlier did not address conditions where JVM memory settings are higher than the container limit.

The OpenShift JBoss EAP image can now calculate default JVM memory settings when a container limit has been defined and the JVM memory settings are higher than the container limit.

## 2.7. QUICKSTARTS AND BOMS

### New Client BOM for JAX-WS

JBoss EAP now provides a new client BOM, **wildfly-jaxws-client-bom**, to manage JAX-WS dependencies. For information on how to add the **wildfly-jaxws-client-bom** dependencies to your project, see [JBoss EAP Client BOMs](#) in the *Development Guide* for JBoss EAP.

## CHAPTER 3. RESOLVED ISSUES

See [Resolved Issues for JBoss EAP CD 18](#) to view the list of issues that have been resolved for this release.

## CHAPTER 4. FIXED CVEs

JBoss EAP Continuous Delivery 18 does not include any fixed CVEs.

## CHAPTER 5. KNOWN ISSUES

See [Known Issues for JBoss EAP CD 18](#) to view the list of known issues for this release.

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