Red Hat JBoss Enterprise Application Platform 8-beta

Release notes for Red Hat JBoss Enterprise Application Platform 8.0 Beta

These release notes contain important information related to Red Hat JBoss Enterprise Application Platform release 8.0 Beta
Red Hat JBoss Enterprise Application Platform 8-beta Release notes for Red Hat JBoss Enterprise Application Platform 8.0 Beta

These release notes contain important information related to Red Hat JBoss Enterprise Application Platform release 8.0 Beta.
Abstract

These release notes contain important information related to Red Hat JBoss Enterprise Application Platform release 8.0 Beta.
# Table of Contents

**PREFACE** ................................................................. 4  

**MAKING OPEN SOURCE MORE INCLUSIVE** ........................................... 5  

**CHAPTER 1. HOW TO READ THE RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 8.0 BETA DOCUMENTATION** ................................................................. 6  

**CHAPTER 2. JBOSS EAP 8.0 BETA CERTIFICATION STATUS** ................................................................. 7  
  2.1. JBOSS EAP 8.0 BETA AND JAKARTA EE 10 ....................................................... 7  
  2.2. PACKAGE NAMESPACE CHANGE ................................................................. 7  

**CHAPTER 3. SUPPORTED CONFIGURATIONS** ................................................................. 8  
  Red Hat Single Sign-On SAML adapters support ....................................................... 8  

**CHAPTER 4. NEW FEATURES AND ENHANCEMENTS** ................................................................. 9  
  4.1. MANAGEMENT CONSOLE ................................................................. 9  
    Inclusive language, label changes ................................................................. 9  
    Adding, editing, and removing constant HTTP headers to response messages ................................................................. 9  
    Displaying Java Message Service bridge statistics for processed messages ................................................................. 9  
    Configuring enhanced audit logging ............................................................... 9  
    Starting servers in suspended mode ............................................................... 10  
    Configuring the certificate-authority attribute for the certificate-authority-account resource ............................................................... 10  
    Configuring the OCSP as an Elytron trust manager ............................................ 10  
    Pausing Java Message Service topics ............................................................... 10  
    Non-heap memory usage added to server status preview ..................................... 10  
    Automatically add or update credential store passwords when you add or update a datasource ............................................................... 10  
    Create, read, update, and delete Elytron resources ............................................ 10  
    Viewing the deployment hash value ............................................................... 11  
    Adding and configuring interceptors in the EJB 3 subsystem ................................ 11  
    Configuring Infinispan distributed web session affinity ...................................... 11  
    Configuring global directories in EE subsystem .............................................. 11  
    Configuring cipher suites in Elytron ............................................................... 11  
  4.2. SECURITY ................................................................. 12  
    JAAS realm in the elytron subsystem ............................................................... 12  
    Configure multiple certificate revocation lists in Elytron and Elytron client ........ 12  
    Native OpenID Connect client ................................................................. 12  
    New hash-encoding and hash-charset attributes for hashed passwords .................... 13  
    SSLv2Hello ................................................................. 13  
    Updates to filesystem-realm ................................................................. 13  
  4.3. CLUSTERING ................................................................. 14  
    Configuring web session replication using a ProtoStream .................................... 14  
  4.4. DATASOURCE SUBSYSTEM ................................................................. 14  
    Configuring custom exception-sorter or valid-connection-checker for a datasource ................................................................. 14  
  4.5. EJB3 SUBSYSTEM ................................................................. 14  
    JBoss EAP 8.0 Beta server interoperability with JBoss EAP 7 and JBoss EAP 6 ........ 14  
    Infinispan-based distributed timers ............................................................... 14  
    Distributable EJB subsystem ................................................................. 14  
  4.6. OPENSShift ................................................................. 15  
    RH-SSO SAML support for JBoss EAP 8.0 Beta ................................................ 15  
    Provisioning a JBoss EAP server using the Maven plug-in .................................. 15  
    OpenID Connect support for JBoss EAP source-to-image .................................. 15  
    Building application images using Source-to-Image ....................................... 15  
    Override management attributes with environment variables ............................ 15
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment variable checks for resolving management model expressions</td>
<td>15</td>
</tr>
<tr>
<td>4.7. QUICKSTARTS AND BOMS</td>
<td>16</td>
</tr>
<tr>
<td>Supported EAP 8 quickstarts</td>
<td>16</td>
</tr>
<tr>
<td>New JBoss EAP BOMs for Maven</td>
<td>16</td>
</tr>
<tr>
<td>4.8. SERVER MIGRATION TOOL</td>
<td>16</td>
</tr>
<tr>
<td>JBoss EAP Server Migration Tool</td>
<td>16</td>
</tr>
</tbody>
</table>

**CHAPTER 5. UNSUPPORTED, DEPRECATED, AND REMOVED FUNCTIONALITY**  

<table>
<thead>
<tr>
<th>Feature</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1. UNSUPPORTED FEATURES</td>
<td>17</td>
</tr>
<tr>
<td>EAP operator</td>
<td>17</td>
</tr>
<tr>
<td>Logging</td>
<td>17</td>
</tr>
<tr>
<td>5.2. DEPRECATED FEATURES</td>
<td>17</td>
</tr>
<tr>
<td>JDK 11</td>
<td>17</td>
</tr>
<tr>
<td>Security manager</td>
<td>17</td>
</tr>
<tr>
<td>5.3. REMOVED FEATURES</td>
<td>17</td>
</tr>
<tr>
<td>Jolokia and Prometheus</td>
<td>17</td>
</tr>
<tr>
<td>Environment variables</td>
<td>17</td>
</tr>
<tr>
<td>JDK 8</td>
<td>18</td>
</tr>
<tr>
<td>Legacy security realms</td>
<td>18</td>
</tr>
<tr>
<td>Picketbox</td>
<td>18</td>
</tr>
<tr>
<td>PicketBox vault</td>
<td>18</td>
</tr>
<tr>
<td>PicketLink Subsystem</td>
<td>18</td>
</tr>
<tr>
<td>discovery-group and broadcast-group resources</td>
<td>19</td>
</tr>
<tr>
<td>Quickstarts</td>
<td>19</td>
</tr>
<tr>
<td>Red Hat Single Sign-On Client Adapter</td>
<td>20</td>
</tr>
<tr>
<td>Java service on Red Hat Enterprise Linux</td>
<td>20</td>
</tr>
<tr>
<td>BOMs</td>
<td>20</td>
</tr>
</tbody>
</table>

**CHAPTER 6. KNOWN ISSUES**  

<table>
<thead>
<tr>
<th>Issue</th>
<th>Page</th>
</tr>
</thead>
</table>

Red Hat JBoss Enterprise Application Platform 8-beta Release notes for Red Hat JBoss Enterprise Application Platform
PREFACE

These release notes contain important information related to Red Hat JBoss Enterprise Application Platform 8.0 Beta.
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. Due to the enormity of this endeavor, these changes will be gradually implemented over upcoming releases. For more details on making our language more inclusive, see our CTO Chris Wright’s message.
CHAPTER 1. HOW TO READ THE RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM 8.0 BETA DOCUMENTATION

We are in the process of modernizing the Red Hat JBoss Enterprise Application Platform 8.0 documentation. We are working to create more solution-centric documentation.

The JBoss EAP 8.0 Beta documentation contains content specific to the JBoss EAP 8.0 Beta release including new and enhanced features found in JBoss EAP 8.0 Beta. Functionality from previous releases that are still supported in JBoss EAP 8.0 Beta can be accessed in the JBoss EAP 7.4 documentation set. You can access the documentation set at Product Documentation for Red Hat JBoss Enterprise Application Platform 7.4.

The following is a suggested approach for using the JBoss EAP 8.0 Beta documentation:

1. Read the JBoss EAP 8.0 Beta Release Notes to learn about new, enhanced, unsupported, and removed features.

2. Read the other JBoss EAP 8.0 Beta documentation set for detailed information about new and enhanced features.

3. Read the JBoss EAP 8.0 Beta Migration Guide for details on how to migrate applications to JBoss EAP 8.0 Beta.

4. If you need information on features supported from previous releases that have not been enhanced in JBoss EAP 8.0 Beta, see the JBoss EAP 7.4 documentation set at Product Documentation for Red Hat JBoss Enterprise Application Platform 7.4. For example, development and configuration guides are available in the JBoss EAP 7.4 documentation set.
CHAPTER 2. JBOSS EAP 8.0 BETA CERTIFICATION STATUS

2.1. JBOSS EAP 8.0 BETA AND JAKARTA EE 10

JBoss EAP 8.0 Beta is a major milestone on the way to the planned full support for Jakarta EE 10 in JBoss EAP 8.0 GA. JBoss EAP 8.0 Beta provides implementations of the Jakarta EE 10 APIs. Compared to Jakarta EE 8, that is supported by JBoss EAP 7.4, Jakarta EE 10 comes with many changes to Jakarta EE. For more information, see how to migrate your JBoss EAP applications from Jakarta EE 8 to Jakarta EE 10.

2.2. PACKAGE NAMESPACE CHANGE

The packages used for all EE APIs have changed from javax to jakarta. This follows the move of Java EE to the Eclipse Foundation and the establishment of Jakarta EE.

NOTE

This change does not affect javax packages that are part of Java SE.

Additional resources

- For more information, see The javax to jakarta Package Namespace Change.
CHAPTER 3. SUPPORTED CONFIGURATIONS

The Red Hat JBoss Enterprise Application Platform 8.0 Beta supported configurations knowledgebase article on the Red Hat Customer Portal lists the Java Virtual Machines (JVMs) that support JBoss EAP 8.0 Beta, as well as tested configurations that include but are not limited to commonly used operating systems, databases, and JMS brokers.

Red Hat Single Sign-On SAML adapters support
Using Red Hat Single Sign-On SAML adapters with JBoss EAP 8.0 will be supported when the adapters are released as a .zip file by Red Hat Single Sign-On. For information about Red Hat Single Sign-On, see the Red Hat Single Sign-On product page.
CHAPTER 4. NEW FEATURES AND ENHANCEMENTS

4.1. MANAGEMENT CONSOLE

Inclusive language, label changes
Toward Red Hat’s commitment to replacing problematic language in our code, documentation, and web properties, beginning with 8.0 Beta, the JBoss EAP management console will display more inclusive wording and labels. Specifically, you will notice the following changes to the management console resource addresses and user interface elements:

<table>
<thead>
<tr>
<th>New term</th>
<th>Previous term</th>
</tr>
</thead>
<tbody>
<tr>
<td>primary</td>
<td>master</td>
</tr>
<tr>
<td>secondary</td>
<td>slave</td>
</tr>
<tr>
<td>blocklist</td>
<td>blacklist</td>
</tr>
<tr>
<td>allowlist</td>
<td>whitelist</td>
</tr>
</tbody>
</table>

Adding, editing, and removing constant HTTP headers to response messages
In the JBoss EAP 8.0 Beta management console, you can now add, edit, or remove constant HTTP response headers. To add a new path and header, from the Server page, select Constant Headers, then click Add. To edit or remove an existing path header, select the path whose header you want to modify, then click either Edit or Remove.

Displaying Java Message Service bridge statistics for processed messages
A message bridge consumes messages from a source queue or topic, then sends them on to a target queue or topic, usually on a different server. A bridge can also send messages from one cluster to another. The Java Message Service (JMS) bridge provides statistics about messages that the bridge processed. Specifically, it collects the following data:

- number of messages successfully committed (message count)
- number of messages aborted (messages aborted)

With this update, the JBoss EAP 8.0 Beta management console includes a new JMS Bridge column to display these statistics in the Runtime section. Note that this new feature affects the /subsystem=messaging-activemq/jms-bridge=* resource.

Configuring enhanced audit logging
In the JBoss EAP 8.0 Beta management console, you can configure the following two additional audit logging attributes in your /subsystem=elytron/syslog-audit-log=* resource:

- syslog-format
  Define the format for your audit log messages. Supported values are RFC3164 and RFC5424. ("RFC" stands for "request for comments.")

- reconnect-attempts
  Define the maximum number of failed attempts JBoss EAP should make to connect to the syslog server before closing the endpoint.
Starting servers in suspended mode
You can now use the JBoss EAP 8.0 Beta management console to start servers in suspended mode. Select the new Start in suspended mode option, available in the following drop-down menus:

- Runtime > Topology
- Runtime > Server Groups
- Runtime > Server Groups > Server
- Runtime > Host > Server

Configuring the certificate-authority attribute for the certificate-authority-account resource
With JBoss EAP 8.0 Beta, you can use any certificate authority for your certificate-authority-account Elytron resource. Previously, JBoss EAP supported only the Let’s Encrypt certificate authority, and the certificate-authority attribute was not configurable.

With this update, you can add, configure, or remove any certificate authority by opening the JBoss EAP management console and clicking Configuration > Subsystems > Security > Other Settings > Other Settings > Certificate Authority. From there, click Add to add a new certificate authority. To modify one you already have, select it, then click Edit. To remove a certificate authority, select it, then click Remove.

Configuring the OCSP as an Elytron trust manager
With JBoss EAP 8.0 Beta, you can configure the Online Certificate Status Protocol (OCSP) as the trust manager for the Elytron undertow subsystem. Previously, JBoss EAP supported only a certificate revocation list (CRL) as trust manager.

With this update, you can configure the OCSP as your trust manager by opening the JBoss EAP management console and clicking Configuration > Subsystems > Elytron > Other Settings > SSL > Trust Manager. Next, either select or create a trust manager and then, from the Trust Manager window, select the OCSP tab and click Add.

Pausing Java Message Service topics
From the JBoss EAP 8.0 Beta management console, you can now navigate to Runtime > Messaging > Server > Server Name > Destination to select and then pause a Java Message Service (JMS) topic. After you address the related messaging issue, you can also resume the paused topic. JMS previously sent messages to all active subscribers without any way to interrupt them.

Non-heap memory usage added to server status preview
With JBoss EAP 8.0 Beta, you can see more information in the server status preview about the memory consumption of your server. Previously, the preview displayed only heap memory usage: Used and Committed. With this update, it also displays the same information for non-heap memory usage.

Automatically add or update credential store passwords when you add or update a datasource
Beginning with JBoss EAP 8.0 Beta, when you create a datasource from the management console, you can automatically add a password for that datasource to your credential store. From the management console, select Configuration > Subsystems > Datasources then click Add to add a new datasource. Next, enter the credential store name where you want to save the password for the new datasource, an alias for the credential, and the plain text password you want to use. To modify an existing datasource, select it, then click Edit.

Create, read, update, and delete Elytron resources
From the JBoss EAP 8.0 Beta management console, you can now create, read, update, or delete any of the following four evidence decoders:

- Aggregate Evidence Decoders
- Custom Evidence Decoders
- X500 Subject Evidence Decoders
- X509 Subject Alt Name Evidence Decoder

To take one of these actions, navigate to **Configuration > Subsystems > Security > Mappers & Decoders > Evidence Decoder**.

**Viewing the deployment hash value**
The JBoss EAP 8.0 Beta management console can now display your deployment hash value in the deployment preview. This means that you can determine at a glance whether your deployment was valid and successful.

**Adding and configuring interceptors in the EJB 3 subsystem**
From the JBoss EAP 8.0 Beta management console, you can now add and configure system-wide, server-side interceptors in the **ejb3** subsystem. From the console, select **Configuration > EJB > Container** to make your additions or changes.

**Configuring Infinispan distributed web session affinity**
With JBoss EAP 8.0 Beta, in the **distributable-web** subsystem, you now have more control over the affinity, or load balancer “stickiness”, of a distributed web session. To change your session affinity to something other than the **Primary-owner** default, in the management console, click **Configuration > Distributable Web > View > Infinispan Session**. Next, choose a session and select **Affinity** to make your changes. Affinity options now include the following:

- Local
- None
- Primary-owner
- Ranked

Previously, the only available affinity was **Primary-owner**.

**Configuring global directories in EE subsystem**
With the JBoss EAP 8.0 Beta management console, you can now configure a new **ee** subsystem resource, /**subsystem=ee/global-directory=***. You can use a global directory to add content to a deployment class path without listing the contents of the directory. To configure a global directory resource, navigate to **Configuration > Subsystems > EE > Globals**.

**Configuring cipher suites in Elytron**
With the JBoss EAP 8.0 Beta management console, you can now enable TLS 1.3 cipher suites using the **cipher-suite-names** attribute to secure your network connection. Specifically, you can now configure the following **elytron** subsystem resources:

- /**subsystem=elytron/client-ssl-context=***
- /**subsystem=elytron/server-ssl-context=***
To configure the `cipher-suite-names` attribute for the `/subsystem=elytron/client-ssl-context=*` resource from the management console, navigate to `Configuration > Subsystems > Security > Other Settings > SSL > Client SSL Context`.

To configure the `cipher-suite-names` attribute for the `/subsystem=elytron/server-ssl-context=*` resource from the management console, navigate to `Configuration > Subsystems > Security > Other Settings > SSL > Server SSL Context`.

### 4.2. SECURITY

**JAAS realm in the `elytron` subsystem**

In JBoss EAP 8.0 Beta, the legacy security subsystem has been removed. To continue using your custom login modules with the `elytron` subsystem, use the new Java Authentication and Authorization Service (JAAS) security realm, `jaas-realm`.

**NOTE**

`jaas-realm` only supports JAAS-compatible login modules. For information about JAAS, see [Java Authentication and Authorization Service (JAAS) Reference Guide](#).

`jaas-realm` does not support custom login modules that extend or are dependent upon PicketBox APIs.

Although `elytron` subsystem provides `jaas-realm`, it is preferable to use other existing security realms that the subsystem provides. These include `jdbc-realm`, `ldap-realm`, `token-realm`, and others. You can also combine different security realms by configuring `aggregate-realm`, `distributed-realm`, or `failover-realm`. If none of these suits your purpose, implement a custom security realm and use it instead of custom login module.

The following are cases where you should use `jaas-realm` instead of implementing a custom security realm:

- You are migrating to the `elytron` subsystem from legacy security and already have custom login modules implemented.
- You are migrating from other application servers to JBoss EAP and already have the login modules implemented.
- You require combining multiple login modules with various flags and options provided to those login modules. These flags and options might not be configurable for the provided security realms in the `elytron` subsystem.

For more information, see [Creating a JAAS realm](#) in the *Securing applications and management interfaces using multiple identity stores* guide.

**Configure multiple certificate revocation lists in Elytron and Elytron client**

You can now configure multiple certificate revocation lists (CRL) in the `elytron` subsystem and WildFly Elytron client when you use several Certificate Authorities (CA). You can specify the list of CRLs to use in the `certificate-revocation-lists` attribute in the `trust-manager`.

For more information, see [Configuring certificate revocation checks in Elytron](#) in the *Configuring SSL/TLS in JBoss EAP* guide.

**Native OpenID Connect client**

You can now secure applications deployed to JBoss EAP with OpenID Connect (OIDC) using the new
native support for OIDC instead of installing the previously required Red Hat Single Sign-On Client Adapter. The new `elytron-oidc-client` subsystem provides the native support. The Red Hat Single Sign-On Client Adapter is not provided in this release.

For more information, see OpenID Connect configuration in JBoss EAP in the Using single sign-on with JBoss EAP guide.

New hash-encoding and hash-charset attributes for hashed passwords
You can now specify the character set and the string format for the hashed passwords that are stored in `elytron` subsystem security realms by using the `hash-charset` and `hash-encoding` attributes. The default `hash-charset` value is UTF-8. You can set the `hash-encoding` value to either `base64` or `hex`; `base64` is the default for all realms except the `properties-realm` where `hex` is the default.

The new attributes are included in the following security realms:

- `filesystem-realm`
- `jdbc-realm`
- `ldap-realm`
- `properties-realm`

For more information, see the Securing applications and management interfaces using an identity store guide.

**SSLv2Hello**
Beginning with JBoss EAP 8.0 Beta, you can specify the SSLv2Hello protocol for `server-ssl-context` and `client-ssl-context` in the `elytron` subsystem.

**WARNING**
- You must configure another encryption protocol if you want to configure SSLv2Hello because the purpose of the latter is to determine which encryption protocols the connected server supports.
- IBM JDK does not support SSLv2Hello in its client, although a server-side connection always accepts this protocol.

**Updates to filesystem-realm**
You can now encrypt the clear passwords, hashed passwords, and attributes associated with identities in a `filesystem-realm` for better security. You can do this in two ways:

- Create an encrypted `filesystem-realm` by referencing a secret key in the `add` operation.
- Encrypt an existing `filesystem-realm` using the new `filesystem-realm-encrypt` command in the WildFly Elytron Tool.

You can now also enable integrity checks for a `filesystem-realm` to ensure that the identities in the `filesystem-realm` were not tampered with since the last authorized write. You can do this by referencing a key pair when you create the `filesystem-realm` using the `add` operation. WildFly Elytron generates a
signature for the identity file using the key pair. An integrity check runs whenever an identity file is read.

For more information, see Filesystem realm in Elytron in the Securing applications and management interfaces using an identity store guide.

4.3. CLUSTERING

Configuring web session replication using a ProtoStream
You can now configure web session replication using a ProtoStream instead of JBoss Marshalling in JBoss EAP 8.0 Beta.

See How to configure web session replication to use ProtoStream instead of JBoss Marshalling in JBoss EAP 8.0 Beta.

4.4. DATASOURCE SUBSYSTEM

Configuring custom exception-sorter or valid-connection-checker for a datasource
You can now configure a custom exception-sorter or valid-connection-checker for a datasource using a JBoss Module.

See How to configure a custom exception-sorter or valid-connection-checker for a datasource in JBoss EAP 8.

4.5. EJB3 SUBSYSTEM

JBoss EAP 8.0 Beta server interoperability with JBoss EAP 7 and JBoss EAP 6
In JBoss EAP 8.0 Beta you can enable interoperability between JBoss EAP 8.0 Beta and older versions of your JBoss EAP server. JBoss EAP supports Jakarta EE 10 whose API class uses the jakarta package namespace. However, older versions of JBoss EAP use the javax package namespace.

IMPORTANT

- The older versions supported are JBoss EAP 6 and JBoss EAP 7
- Interoperability between JBoss EAP 6 and JBoss EAP 7 is not affected by this issue as both servers support the javax package namespace.

For more information about how to enable interoperability between JBoss EAP 8.0 Beta and older versions of JBoss EAP see, how to enable interoperability.

Infinispan-based distributed timers
In JBoss EAP 8.0 Beta, you can now use Infinispan-based distributed timers to schedule persistent Jakarta Enterprise Bean timers within a cluster, which you can scale to large clusters. For more information, see EAP 8 - how to configure Infinispan based distributed timers.

Distributable EJB subsystem
Use the distributable-ejb subsystem to configure clustering abstractions providers required for ejb3 subsystem functionalities, such as:

- Stateful session beans (SFSB) cache factories
- Client mappings registries for EJB client applications
- Distributed EJB timers
You can currently define these providers at a system-wide level. It is planned to develop functionality to enable deployment-specific providers by customizing the ejb3 subsystem. For more information, see What is the distributable-ejb subsystem in EAP 8.

## 4.6. OPENSHIFT

### RH-SSO SAML support for JBoss EAP 8.0 Beta

Using Red Hat Single Sign-On SAML adapters with JBoss EAP 8.0 Beta Source-to-Image (S2I) image will be supported when the adapters are released. For more information, see OpenShift, SSO SAML support for EAP 8.

### Provisioning a JBoss EAP server using the Maven plug-in

You can now use the JBoss EAP Maven plug-in on OpenShift to:

- Provision a trimmed server using Galleon.
- Install your application on the provisioned server.
- Tune the server configuration using the JBoss EAP management CLI.
- Package extra files into the server installation, such as a keystore file.
- Integrate the plug-in into your JBoss EAP 8.0 Beta source-to-image application build.

For more information, see Provisioning a JBoss EAP server using the Maven plug-in.

### OpenID Connect support for JBoss EAP source-to-image

You can now secure applications deployed to JBoss EAP with OpenID Connect (OIDC) using the new elytron-oidc-client subsystem instead of installing the previously required Red Hat Single Sign-On Client Adapter. You can configure an elytron-oidc-client subsystem by using the environment variables to secure the application with OIDC. The Red Hat Single Sign-On Client Adapter is not provided in this release. For more information, see Using OpenID Connect to secure JBoss EAP applications on OpenShift.

### Building application images using Source-to-Image

In JBoss EAP 8.0 Beta, an installed server has been removed from Source-to-Image (S2I) builder images. Galleon feature-packs and layers are now used to provision the server during the S2I build phase. To provision the server, include and configure the JBoss EAP Maven plug-in in the pom.xml file of your application. For more information, see Building application images using source-to-image in OpenShift.

### Override management attributes with environment variables

To more easily adapt your JBoss EAP server configuration to your server environment, you can use an environment variable to override the value of any management attribute, without editing your configuration file. You cannot override management attributes of type LIST, OBJECT, or PROPERTY. In JBoss EAP 8.0 Beta OpenShift runtime image, this feature is enabled by default. For more information, see Overriding management attributes with environment variables.

### Environment variable checks for resolving management model expressions

JBoss EAP now supports environment variable checks when resolving management model expressions. In previous versions of JBoss EAP, the JBoss EAP server only checked for Java system properties in the management expression. Now, the server will check for a relevant environment variable in addition to the system property. If you use both, JBoss EAP observes and uses the Java system property rather than the environment variable to resolve the management model expression. For more information about using environment variables to resolve management model expressions, see Environment variables and model expression resolution.
4.7. QUICKSTARTS AND BOMS

Supported EAP 8 quickstarts
All supported JBoss EAP 8 quickstarts are located at jboss-eap-quickstarts.

New JBoss EAP BOMs for Maven
JBoss EAP BOMs provide the Maven BOM files that specify the versions of JBoss EAP dependencies that are needed for building or testing your Maven projects. In addition, Jakarta EE 10 BOMs provide dependency management for related frameworks such as Hibernate, RESTasy, and proprietary components like Infinispan and Client BOMs.

4.8. SERVER MIGRATION TOOL

JBoss EAP Server Migration Tool
The Server Migration Tool is now a standalone migration tool and is no longer included with JBoss EAP 8.0 Beta. You can download the migration tool separately.
CHAPTER 5. UNSUPPORTED, DEPRECATED, AND REMOVED FUNCTIONALITY

5.1. UNSUPPORTED FEATURES

The following features are not supported by Red Hat.

**EAP operator**

Red Hat JBoss Enterprise Application Platform 8.0 Beta does not support the EAP operator. You cannot deploy your JBoss EAP applications using the EAP operator. For more information, see [JBoss EAP Operator Support Policy](https://www.redhat.com/en/knowledgebase/articles/206600).

**Logging**

JBoss EAP 8.0 Beta does not support Apache Log4j version 1 APIs. If your applications do not package `log4j.jar` and Log4j configuration as part of the application, then you must update them. For more information about migrating or updating your applications, see the Red Hat Knowledgebase solution [Migration: Apache Log4j version 1 is no longer provided in EAP 8](https://www.redhat.com/en/knowledgebase/articles/206600).

5.2. DEPRECATED FEATURES

Some features are deprecated with this release. This means that no enhancements will be made to these features, and they might be removed in a future 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](https://www.redhat.com/en/support/bundle) located on the Red Hat Customer Portal.

For details of which features have been deprecated, see the [JBoss Enterprise Application Platform Component Details](https://www.redhat.com/en/support/bundle) located on the Red Hat Customer Portal.

Support for the following platforms and features is deprecated:

**JDK 11**

Support for JDK 11 was deprecated in JBoss EAP 7.4, and JDK 11 continues to be deprecated in JBoss EAP 8.0 Beta. JBoss EAP 8.0 Beta continues to support JDK 17.

**Security manager**

The Java Security Manager is deprecated.

5.3. REMOVED FEATURES

Version 8.0 Beta removes the following features from JBoss EAP.

**Jolokia and Prometheus**

Jolokia and Prometheus have been removed in this release. These features have been dropped and will no longer be supported by Red Hat. JBoss EAP server exposes metrics through the server metrics endpoint: `<server address>..<management port>/metrics`.

**Environment variables**

Red Hat has removed the following environment variables in JBoss EAP 8.0 Beta:

- `GALLEON_PROVISION_DEFAULT_FAT_SERVER`
- `AB_JOLOKIA_AUTH_OPSHIFT`
JDK 8
JDK 8 has been removed from Red Hat JBoss Enterprise Application Platform 8.0 Beta. JDK 11 or JDK 17 is now required.

Legacy security realms
The legacy security realms have been removed from JBoss EAP 8.0 Beta. Use the security realms provided in the elytron subsystem instead.

For more information, see the Securing applications and management interfaces using an identity store, and Securing applications and management interfaces using multiple identity stores guides.

Picketbox
PicketBox has been removed from Red Hat JBoss Enterprise Application Platform 8.0 Beta. Any legacy security configurations must be migrated to the elytron subsystem. For more information about migrating your security configurations to the elytron subsystem, see Migrating to Elytron.

PicketBox vault
PicketBox vault has been removed from JBoss EAP 8.0 Beta. Use the credential store provided by the elytron subsystem to store sensitive strings instead.

For more information, see Credentials and credential stores in Elytron in the Secure storage of credentials in JBoss EAP guide.

PicketLink Subsystem
NOTE

Using Red Hat Single Sign-On SAML adapters with JBoss EAP 8.0 will be supported when the adapters are released as a .zip file by Red Hat Single Sign-On.

The PicketLink subsystem has been removed from JBoss EAP 8.0 Beta. Use Red Hat Single Sign-On instead of the PicketLink identity provider, and the Red Hat Single Sign-On SAML adapter instead of the PicketLink service provider.

For more information, see the following resources:

- Using Red Hat Single Sign-On - [Red Hat Single Sign-On product page](#).
- Using the Red Hat Single Sign-On SAML adapter with JBoss EAP - [JBoss EAP adapter in the Securing Applications and Services Guide](#).

**discovery-group and broadcast-group resources**

Red Hat JBoss Enterprise Application Platform 7.4 removed the discovery-group and broadcast-group resources. These resources are still removed in JBoss EAP8.0 Beta.

Additionally, Red Hat JBoss Enterprise Application Platform 7.4 reduced the impact to its web console by replacing all instances of discovery-group and broadcast-group resources with jgroups-discovery-group and socket-discovery-group resources.

JBoss EAP 7.3 deprecated the following resources in the messaging subsystem:

- `/subsystem=messaging-activemq/discovery-group=*`
- `/subsystem=messaging-activemq/server=default/broadcast-group=*`
- `/subsystem=messaging-activemq/server=default/discovery-group=*`

JBoss EAP 7.3 replaced these deprecated resources with jgroups-discovery-group and socket-discovery-group resources. Each deprecated resource included an attribute from each replacement resource, with one attribute set to null and the other attribute set to a value greater than 0. These settings caused both discovery-group and broadcast-group to remain active, but still assign all their functionality to the jgroups-discovery-group and socket-discovery-group resources.

**Quickstarts**

The following outdated or redundant quickstarts have been removed from JBoss EAP 8.0 Beta:

- app-client
- bean-validation
- ejb-asynchronous
- ejb-in-ear
- ejb-in-war
- ejb-security
- ejb-security-jaas
- greeter
Red Hat JBoss Enterprise Application Platform 8-beta Release notes for Red Hat JBoss Enterprise Application Platform 8.0 Beta does not provide the Red Hat Single Sign-On Client Adapter. Use the new elytron-oidc-client subsystem to secure applications deployed to JBoss EAP with OpenID Connect (OIDC).

Java service on Red Hat Enterprise Linux
Java service (JSVC) running on Red Hat Enterprise Linux (RHEL) has been removed from JBoss EAP 8.0 Beta.

BOMs
The following BOMs have been removed:

- The **JBoss Jakarta EE 8 Specification APIs** BOM is removed. Use the **JBoss EAP EE** BOM in your Maven project.

- The **EAP Runtime Artifacts** BOM is removed. Use the **JBoss EAP EE** BOM in your Maven project.

For more information, see [changes relating to JBoss EAP 8 BOM updates](#).
CHAPTER 6. KNOWN ISSUES

See Known Issues for Red Hat JBoss Enterprise Application Platform 8.0 Beta to view the list of known issues for this release.

Revised on 2022-12-16 12:18:18 UTC