Red Hat JBoss Enterprise Application Platform 7.3

Red Hat JBoss EAP XP 2.0.0 Release Notes

For Use with JBoss EAP XP 2.0.0

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Abstract

This document provides general information about the JBoss EAP XP 2.0.0 release.

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CHAPTER 1. NEW FEATURES AND ENHANCEMENTS

1.1. JBOSS EAP XP MANAGER

The JBoss EAP XP manager has been enhanced in JBoss EAP XP 2.0.0.

Improved **status** command

The **status** command now provides information about the following:

- Version of the server.
- Enabled patch streams and their cumulative patch IDs.

The command also provides the **upgrade** prompt if you have an old JBoss EAP XP server installed.

New **patch-apply** command

JBoss EAP XP manager 2.0 provides a **patch-apply** command. The command is similar to the **patch apply** management CLI command, but takes fewer arguments than the management CLI command.

You can use the **patch-apply** command to apply patches to any patch stream that is enabled on the server. Therefore, you can apply both the base server patches as well as the JBoss EAP XP patches to a server that has JBoss EAP XP patch stream enabled.

New **upgrade** command

JBoss EAP XP manager 2.0 provides an **upgrade** command.

Use this command to upgrade your JBoss EAP XP 1.0.x to JBoss EAP XP 2.0.0.

Additional resources

- For more information about JBoss EAP XP manager commands, see JBoss EAP XP manager 2.0 commands in *Using Eclipse MicroProfile with JBoss EAP XP 2.0.0* .

1.2. ECLIPSE MICROPROFILE

Support for readiness probes in MicroProfile Health

JBoss EAP XP 2.0.0 supports the following readiness probes to determine server health and readiness:

- **server-status** - returns **UP** when the server state is **running**.
- **boot-errors** - returns **UP** when the probe detects no boot errors.
- **deployment-status** - returns **UP** when the status for all deployments is **OK**.

For more information about the readiness probes, see Readiness probes that determine server health and readiness in *Using Eclipse MicroProfile with JBoss EAP XP 2.0.0* .

1.3. BOOTABLE JAR

You can now package your application as a bootable JAR or as a hollow bootable JAR in JBoss EAP XP 2.0.0.

Ability to package applications as a bootable JAR

A bootable JAR contains a server, a packaged application, and the runtime required to launch the server.

You can build and package a microservices application as a bootable JAR with the JBoss EAP Maven plug-in. You can then run the application on a JBoss EAP bare-metal platform or a JBoss EAP for OpenShift platform.

The bootable JAR Maven plug-in uses Galleon trimming capability to reduce the size and memory footprint of the server. Thus, you can configure the server according to your requirements, including only the Galleon layers that provide the capabilities that you need.

For more information about packaging your application as a bootable JAR, see The bootable JAR in *Using Eclipse MicroProfile with JBoss EAP XP 2.0.0* .

Ability to package applications as a hollow bootable JAR

You can provision a hollow bootable JAR. This JAR contains only the server, so that the server can be reused to run a different application.

For more information about packaging your application as a hollow bootable JAR, see Using a bootable JAR on a JBoss EAP bare-metal platform in *Using Eclipse MicroProfile with JBoss EAP XP 2.0.0* .

Secure your application with Red Hat Single Sign-On

You can use the Galleon **keycloak-client-oidc** layer to install a version of a server that is provisioned with Red Hat Single Sign-On OpenID Connect client adapters.

The **keycloak-client-oidc** layer provides Red Hat Single Sign-On OpenID Connect client adapters to your Maven project. This layer is included with the **keycloak-adapter-galleon-pack** Red Hat Single Sign-On feature pack.

You can add the **keycloak-adapter-galleon-pack** feature pack to your Maven project by specifying the **org.jboss.sso:keycloak-adapter-galleon-pack:9.0.10.redhat-00001** feature pack in your project.

For more information about using the **keycloak-client-oidc** layer, see Securing your JBoss EAP bootable JAR application with Red Hat Single Sign-On in *Using Eclipse MicroProfile with JBoss EAP XP 2.0.0*.

For information about configuring the Red Hat Single Sign-On adapter subsystem, see JBoss EAP Adapter in the *Securing Applications and Services Guide* .

The Maven feature-pack location

In JBoss EAP XP 2.0.0, the JBoss EAP feature-pack location is **org.jboss.eap:wildfly-galleon-pack:2.0.0.GA-redhat-00002**. You must reference this feature-pack location in the **<plugin>** element in the **pom.xml** file of your Maven project.

For more information about the JBoss EAP JAR Maven plug-in supported in JBoss EAP XP 2.0.0, see JBoss EAP Maven plug-in in *Using Eclipse MicroProfile with JBoss EAP XP 2.0.0* .

Additional resources

- For more information about packaging your application as a bootable JAR, see The bootable JAR in *Using Eclipse MicroProfile with JBoss EAP XP 2.0.0* .

1.4. CONTENT TRIMMING

Content trimming added to JBoss EAP XP

The content trimming capability introduced to support JBoss EAP on OpenShift is now supported when using JBoss EAP XP. For more information, see Capability trimming in *Using Eclipse MicroProfile with JBoss EAP XP 2.0.0*.

New Galleon layers

Several new Galleon layers have been added, including a layer that supports Eclipse MicroProfile capabilities. For more information see Decorator layers in *Using Eclipse MicroProfile with JBoss EAP XP 2.0.0*.

1.5. QUICKSTARTS

OpenShift quickstarts

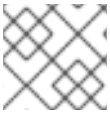
Quickstarts released in JBoss EAP XP 1.0.0 to support OpenShift were Tech Preview.

As of JBoss EAP XP 2.0.0, these quickstarts are fully supported.

Eclipse MicroProfile quickstarts for the bootable JAR

JBoss EAP XP 2.0.0 provides Eclipse MicroProfile quickstarts that you can use to understand the bootable JAR feature.

Each quickstart provides a small, specific, working bootable JAR example. Use the quickstarts to run and test bootable JAR examples on your chosen platform.



NOTE

Eclipse MicroProfile quickstarts cannot be used to build and test a hollow bootable JAR.

Use the following Eclipse MicroProfile quickstarts to test the bootable JAR on either a bare-metal platform or an OpenShift platform:

- Eclipse MicroProfile Config
- Eclipse MicroProfile Fault Tolerance
- Eclipse MicroProfile Health
- Eclipse MicroProfile JWT
- Eclipse MicroProfile Metrics
- Eclipse MicroProfile OpenAPI
- Eclipse MicroProfile OpenTracing
- Eclipse MicroProfile REST Client

1.6. CODEREADY SUPPORT

CodeReady support for bootable JAR

You can now use CodeReady Studio and CodeReady Workspaces to create a bootable JAR for baremetal platforms.

Support for building a bootable JAR for OpenShift in CodeReady Studio is pending the release of CodeReady Studio 12.18.0.

Support for building a bootable JAR for OpenShift in CodeReady Workspaces is pending the release of CodeReady Workspaces 2.6.0.

These releases add support for devfiles, which are required to build a bootable JAR for OpenShift.

CHAPTER 2. UNSUPPORTED FEATURES AND DEPRECATED FEATURES

2.1. UNSUPPORTED FEATURES

Support for some technologies is removed due to the high maintenance cost, low community interest, and better alternative solutions. The following features are not supported in JBoss EAP XP 2.0.0:

EAP Operator automated transaction recovery with your bootable JAR

On OpenShift, you cannot use the EAP Operator automated transaction recovery feature with your bootable JAR. A fix for this technical limitation is planned for a future JBoss EAP XP 2.0.0 patch release.

JBoss EAP XP 1.0.0 supported Maven plug-in

When a new JBoss EAP XP major version is released, maintenance support for the major version begins. Maintenance support usually lasts for 12 weeks.

Using the JBoss EAP XP 1.0.0 Maven plug-in after the maintenance support ends might cause issues on JBoss EAP XP 2.0.0. To avoid problems, you must upgrade your Maven plug-in to the JBoss EAP XP 2.0.0 supported version.

Additional resources

- For information about maintenance support, see the Red Hat JBoss Enterprise Application Platform expansion pack (JBoss EAP XP or EAP XP) Life Cycle and Support Policies located on the Red Hat Customer Portal.

2.2. DEPRECATED FEATURES

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

Red Hat continues to provide full support and bug fixes under our standard support terms and conditions. For more information about the Red Hat support policy for JBoss EAP XP, see the Red Hat JBoss Enterprise Application Platform expansion pack life cycle and support policies located on the Red Hat Customer Portal.

OpenJDK 8 images and imagestreams on OpenShift

On OpenShift, the following OpenJDK 8 images are deprecated:

- eap-xp2-openjdk8-openshift-rhel7
- eap-xp2-openjdk8-runtime-openshift-rhel7

On OpenShift, the following OpenJDK 8 imagestreams are deprecated:

- jboss-eap-xp2-openjdk8-openshift
- jboss-eap-xp2-openjdk8-runtime-openshift

These images and imagestreams are still supported on OpenShift. However, no enhancements are made to these images and imagestreams and they might be removed in the future. Red Hat continues to provide full support and bug fixes for OpenJDK 8 images and imagestreams under its standard support terms and conditions.

CHAPTER 3. RESOLVED ISSUES AND KNOWN ISSUES

3.1. RESOLVED ISSUES

See Resolved Issues for JBoss EAP XP 2.0.0 to view the list of issues that have been resolved for this release.

3.2. KNOWN ISSUES

See Known Issues for JBoss EAP XP 2.0.0 to view the list of known issues for this release.

The server installation directory on a bare-metal Windows platform

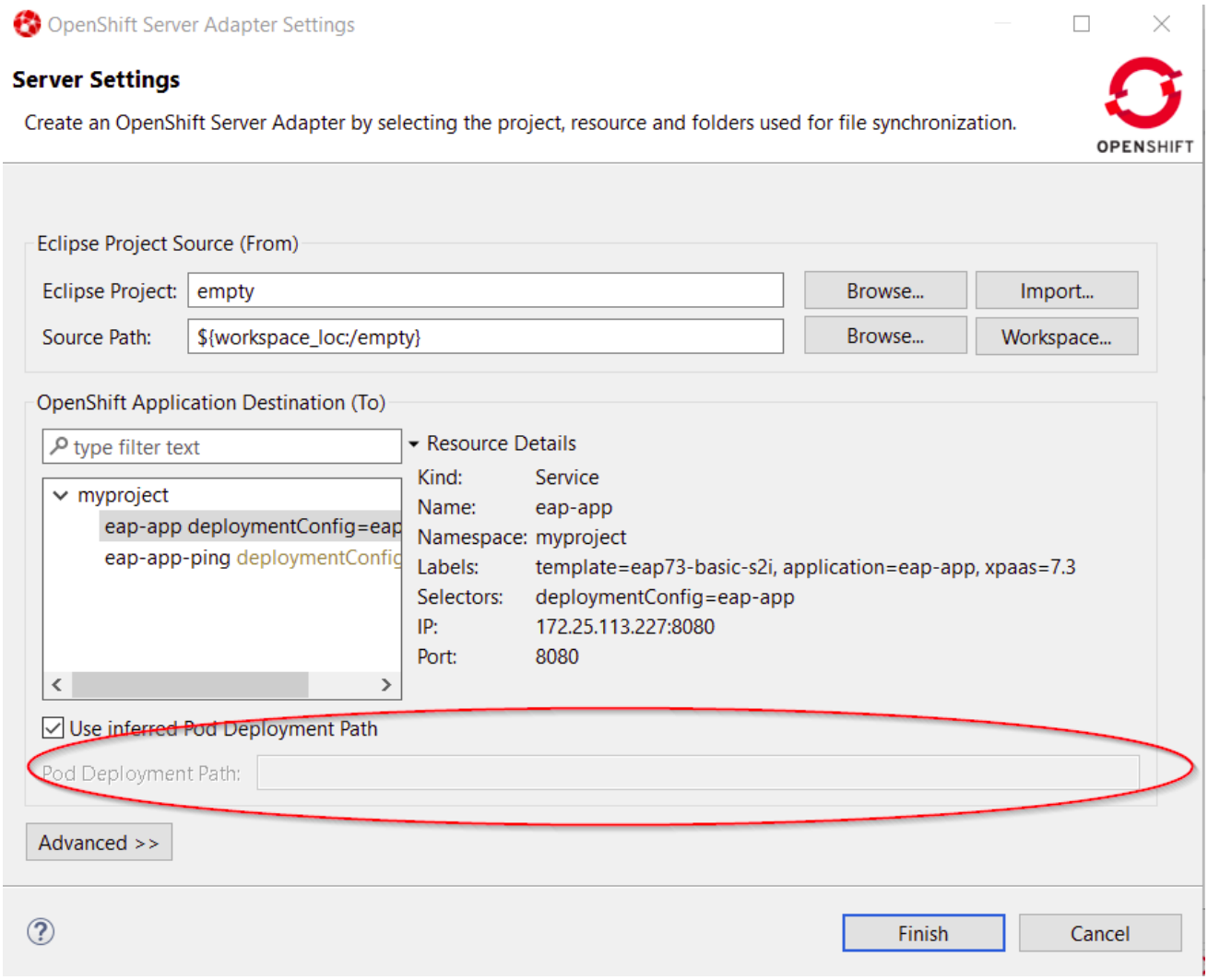
After you exit a bootable JAR that is running on a bare-metal Windows platform, the **%userprofile%\AppData\Local\Temp\wildfly-bootable-server_XXX_** server installation directory, where *XXX* is the unique identifier of your bootable JAR server, is not automatically deleted, so you must delete the directory manually. If you set an installation directory with the **--install-dir=<install dir>** argument, you must delete the specified **<install dir>** installation directory instead of the TEMP directory.

Hot deploy and OpenShift server adapter

Hot deploy does not currently work with OpenShift server adapter. Red Hat is working on a fix.

To work around this issue, in the OpenShift Server Adapter Settings Server Settings window, clear **Use inferred Pod Deployment Path** and set the **Pod Deployment Path** field to **/opt/eap/standalone/deployments/**, as illustrated in the accompanying image.

Figure 3.1. Pod deployment fields



For further information, see https://issues.redhat.com/browse/JBIDE-27591.