适用于 Red Hat JBoss EAP 7
适用于 Red Hat JBoss EAP 7
法律通告

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摘要

这些注记包含和 Red Hat EAP 7 相关的重要信息。
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第 1 章 新功能及增强

兼容性和互用性

- EJB、JMS 和 WS 客户将在 JBoss EAP 7 的所有次要版本和补丁里兼容。
- JBoss EAP 7 的受管域管理员也可以管理 JBoss EAP 6 域主机和服务器。
- JBoss EAP 7 域控制器可以管理受管域里的其他 JBoss EAP 7 主机，只要域控制器运行和域里其他主机相同或更高的版本。
- 如果您运行 JBoss EAP 5 或 JBoss EAP 6 的最新版本，就存在 JBoss EAP 5 或 JBoss EAP 6 与 JBoss EAP 7 间的远程 EJB 调用的互用性。

下列情况有可能发生：
- 通过 RMI、IIOP 或 SOAP web service 进行远程 EJB 上的方法调用。
- 安全上下文的传播。
- 事务的传播。
- 现在可以通过 IIOP 进行 JBoss EAP 7 和 JBoss EAP 5 间的远程 EJB 调用。而 JBoss EAP 6 和 JBoss EAP 7 间也可以使用 JNDI 的 EJB API 调用。
- 这个版本支持使用 Web 服务与 JBoss EAP 5 的互用性。
- JBoss EAP 7 支持消息合并和与 JBoss EAP 6 的向后兼容性。JBoss EAP 6 HornetQ 的代码库捐赠给了 Apache ActiveMQ 项目，而 HornetQ 社区加入了下一代消息代理的构建。这在 ActiveMQ Artemis 项目的第一个主要版本里成为现实。ActiveMQ Artemis 包含许多新的功能，它也保留了和 HornetQ 代理的协议兼容性。JBoss EAP 7 将这个令人激动的新项目作为它的 JMS 代理，由于它的协议兼容性，它完全代替了 HornetQ 项目。

JBoss EAP 7 的管理

- JBoss EAP 7 更新了管理控制台的用户界面，包括更容易的导航、增强的对大范围域配置的支持。
- JBoss EAP 产品版本显示在管理控制台的左下角。点击链接以查看配置集、版本、HAL 版本和内核版本。
- 通过管理 CLI，管理员现在可以查看其他授权管理员的配置修改历史。
- 增强的日志管理包括查看服务器上可用的日志文件、定义自定义日志格式器、在管理 CLI 里配置子系统级别的日志。
- 您现在可以通过管理 CLI 管理服务器而无需启动服务器。这种下线管理 CLI 和 admin-only 模式类似，但不需要启动服务器且使用 TCP 端口。CLI 嵌入服务器并以 admin-only 模式直接启动服务器。
- 如果启用了 PicketLink Federation 子系统，它可以用管理控制台进行配置。
- 管理员可以通过管理 CLI 生成独立服务器和受管域服务器示例的安装概述。
- 您可以通过管理 CLI 或管理控制台克隆现有的 JBoss EAP 配置集（default、full、ha、full-ha）来创建自己的配置集。
- 管理控制台的主页包括一个 Take a Tour 链接。请点击这个链接来体验更新的管理控制台。
管理员可以在管理 CLI 里使用 resolve-expressions 参数来解析服务器上返回属性表达式的值。

在受管域里，管理员可以创建一个配置集层次结构。这允许其他配置集继承带有常用扩展的基本配置集。

注意

关于管理控制台的更多信息，请参考《JBoss EAP 配置指南》里的『管理控制台』章节。

关于管理 CLI 的更多信息，请参考《JBoss EAP 管理 CLI 指南》。

高扩展性的 Web 服务器（Undertow）

Web 服务器和 Servlet 实现已从 JBoss Web 改为 Undertow。Undertow 是一个新的 NIO Web 服务器，目的是最大化吞吐量和扩展性，如用于超过百万连接的环境。它支持非阻塞式和阻塞式的处理程序、传统的和异步的 Servlet，以及 JSR-356 Web Socket。

通过 Undertow，您可以将 JBoss EAP 7 配置为多平台的负载平衡器。

您可以在相同 EAR 的多个 WAR 模块间共享 HTTP 会话。

Undertow 包含了替代 JBoss Web valve 提供的功能的处理程序。

注意

关于更多信息，请参考《JBoss EAP 配置指南》里的『配置 Web Server (Undertow)』章节。

Java EE 7

JBoss EAP 7 实现了 Java EE 7 的 Full Platform 和 Web Profile 标准，包括：

- Batch 1.0
- JSON-P 1.0
- Concurrency 1.0
- WebSocket 1.1
- JMS 2.0
- JPA 2.1
- JCA 1.7
- JAX-RS 2.0
- JAX-WS 2.2
- Servlet 3.1
- JSF 2.2
- JSP 2.3
EL 3.0
CDI 1.2
JTA 1.2
Interceptors 1.2
Common Annotations 1.1
Managed Beans 1.0
EJB 3.2
Bean Validation 1.1

Java SE 8

- JBoss EAP 7 要求 Java SE 8 且 JBoss EAP 7 已测试了 Open JDK 8、Oracle JDK 8、IBM JDK 8 和 HP JDK 8。

群集

- 新的优化的会话复制和使用 Undertow 的单点登录实现。
- 新的优化的分布式 @Stateful EJB 缓存实现。
- HA 单点登录部署（用于类似于 JBoss EAP 5 里的失效切换用例。例如，群集中某个节点里启用的 EJB 部署）。
- 用于 HA 单点登录服务的新的 API。

JCA 和数据源

- 增强的 JCA 连接管理者包括 lazy 连接管理者扩展。
- 数据源和资源适配器子系统允许您设置能力策略。
- 完全支持在 Iron Jacamar 禁用 enlistment 跟踪。
- 当 JDBC 连接从池里获得并返回至池时，您可以执行 JDBC 语句。
- 现在可以为每个数据源和资源适配器的连接定义选择一个特定的 ManagedConnectionPool 实现类。
- 您可用数据源和资源适配器子系统配置 Semaphore 类的合理设置。这个类用于管理 JCA 里的连接池，它在某些情况下（如不要求连接的租用顺序时）会提高效率。

注意

关于更多的信息，请参考 《JBoss EAP 配置指南》 里的 『Java 连接器架构（JCA）管理』 和『数据源参数』 章节。

Java EE 安全管理者
部署的权限配置是基于 Java EE 7 规格的，也就是说，顶层部署使用 META-INF/permissions.xml。您可以使用自定义的部署描述符文件 META-INF/jboss-permissions.xml 来调整权限，它也可以对部署的子模块进行定义。关于配置权限的更多信息，请参考 如何配置服务器的安全性。 

模块化的改进

- 您可以用管理 APPI 显示模块依赖关系。 
- 索引将为静态模块自动生成。对于要使用静态模块里的 Java EE 组件的应用程序，静态模块不需要包含预生成的注解索引。 

注意 
关于更多的信息，请参考《JBoss EAP 部署指南》里的『模块』章节。 

事务的改进 

- 如果XA 资源在事务管理器崩溃之前被提交，作为 XA 事务一部分并实现了 XAResourceWrapper 的 XAResource 将保持同步。这避免了在事务管理器重启后手动干预的需要。 

注意 
这个功能不适用于没有实现 XAResourceWrapper 的第三方资源管理者，特别是不适用 WebSphere MQ 的资源管理者。 

服务器停用模式/优雅地关闭 

- JBoss EAP 7 里新的停用模式，一旦激活，会拒绝新的请求但允许旧的请求完成。当完成停用过程后，服务器可以停止而无需中止运行中的事务，在执行维护时使其处于停用状态，或者在再次允许新请求时让它返回运行状态。（不包括 Messaging 和 Transactions；包括 Web、EJB、mod_cluster、Batch、Naming 和部分 EE Concurrency）。 

注意 
关于更多的信息，请参考《JBoss EAP 部署指南》里的『优雅地停用和关闭 JBoss EAP』章节。 

端口的减少 

JBoss EAP 7 现在通过两个端口多路复用几乎全部的协议。这两个端口包括： 

- 管理端口（HTTP/JSON 管理、HTTP Upgraded Remoting - Native Management 和 JMX、管理控制台）。 
- 应用程序端口（HTTP Servlet、JAX-RS、JAX-WS、WebSocket、HTTP Upgraded Remoting-EJB Invocation-Remote JNDI）。 

IIOP 实现
IIOP 实现从 JacORB 改为 OpenJDK ORB 的一个下游分支。这个改动应该导致与 JVM ORB 和 Java EE RI 的更佳的互用性。

批处理的增强

批处理的增强包括:

- 监控的改进，如列出活动任务、已完成任务和任务至性步骤的能力。
- 使用管理 API 启动、通知和回复批任务的能力。
- 重启由于服务器故障导致失败的批任务的能力。它可以重置（也就是 ignore/log）之前的状态让批任务可以在域服务器组里的其他服务器上执行。

JBoss EAP 6 已停止使用的子系统的 CLI 操作的移植

为了帮助用户从 JBoss EAP 6 里旧的子系统（JBoss Web、JacORB 和 HornetQ）进行迁移，我们引入了一系列可以转换旧的配置到对应的新的子系统配置的管理操作。既然这些操作迁移了底层的管理资源模型，旧的 CLI 脚本或自定义的准备系统也可以使用它们。

注意

关于更多的信息，请参考《JBoss EAP 迁移指南》里的『管理 CLI 迁移操作』章节。

修改 JBoss EAP Natives 和 Apache HTTP 服务器的提供方式

这个版本里 JBoss EAP 7 Natives 的提供与之前不同，其中一些现在附带新的 Red Hat JBoss Core Services 产品，这是许多 Red Hat JBoss 中间件产品常用的一套补充软件。新产品提供了更快的更新分发和更一致的更新体验。JBoss Core Services 产品可以在 Red Hat 客户门户网站的不同位置来下载。

下表列出了不同 JBoss EAP 版本的提供方式间不同之处。

<table>
<thead>
<tr>
<th>软件包</th>
<th>JBoss EAP 6</th>
<th>JBoss EAP 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>用于消息处理的 AIO Natives</td>
<td>和单独的 &quot;Native Utilities&quot; 下载里的产品一起提供</td>
<td>包含在 JBoss EAP 里，不需要额外的下载。</td>
</tr>
<tr>
<td>Apache HTTP 服务器</td>
<td>和单独的 &quot;Apache HTTP Server&quot; 下载里的产品一起提供</td>
<td>和新的 &quot;JBoss Core Services&quot; 产品一起提供</td>
</tr>
<tr>
<td>mod_cluster, mod_jk, isapi 和 nsapi 连接器</td>
<td>和单独的 &quot;Webserver Connector Natives&quot; 下载里的产品一起提供</td>
<td>和新的 &quot;JBoss Core Services&quot; 产品一起提供</td>
</tr>
<tr>
<td>JSVC</td>
<td>和单独的 &quot;Native Utilities&quot; 下载里的产品一起提供</td>
<td>和新的 &quot;JBoss Core Services&quot; 产品一起提供</td>
</tr>
<tr>
<td>软件包</td>
<td>JBoss EAP 6</td>
<td>JBoss EAP 7</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>OpenSSL</td>
<td>和单独的 &quot;Native Utilities&quot; 下载里的产品一起提供</td>
<td>JBoss EAP 7 已舍弃它</td>
</tr>
<tr>
<td>tcnatives</td>
<td>和单独的 &quot;Native Components&quot; 下载里的产品一起提供</td>
<td>JBoss EAP 7 已舍弃它</td>
</tr>
</tbody>
</table>

- 您应该注意到下列变化：
  - 已停止对和 RHEL RPM 频道的 Apache HTTP 服务器一起使用的 mod_cluster 和 mod_jk 连接器的支持。如果您从 RHEL PRM 频道运行 Apache HTTP 服务器并需要平衡 JBoss EAP 7 服务器的负载，您可以使用下列方法之一：
    - 使用 JBoss Core Services 提供的 Apache HTTP 服务器。
    - 您可以配置 JBoss EAP 7 为前端负载平衡器。更多信息请参考《JBoss EAP 配置指南》里的『配置 JBoss EAP 为前端负载平衡器』章节。
    - 您可以在受支持和认证的主机上部署 Apache HTTP 服务器，并在该主机上运行负载平衡器。关于受支持的配置的列表，请参考《JBoss EAP 7 配置指南》里的『HTTP 连接器概述』章节。
  - 已停止对和 HP-UX Web Server Suites 的 Apache HTTP 服务器一起使用的 mod_cluster 和 mod_jk 连接器的支持。如果您从 HP-UX Web Server Suites 运行 Apache HTTP 服务器并需要平衡 JBoss EAP 7 服务器的负载，您可以使用下列方法之一：
    - 您可以配置 JBoss EAP 7 为前端负载平衡器。更多信息请参考《JBoss EAP 配置指南》里的『配置 JBoss EAP 为前端负载平衡器』章节。
    - 您可以在受支持和认证的主机上部署 Apache HTTP 服务器，并在该主机上运行负载平衡器。关于受支持的配置的列表，请参考《JBoss EAP 配置指南》里的『HTTP 连接器概述』章节。
  - 您可以在《Apache HTTP 服务器安装指南》里的『JBoss Core Services』章节里找到更多信息。
第2章 技术预览（TECHNOLOGY PREVIEW）

使用JVM上服务器端JavaScript的新的企业级Web应用程序（对于JBoss EAP 7.0仅是技术预览）

- JBoss EAP 7允许您编写服务器端的JavaScript（使用JDK 8 Nashorn功能）快速地开发REST端点，它使用CDI Bean、执行JNDI查找并调用JPA Entity Bean。

Undertow项目提供了这些功能。

PowerShell脚本

PowerShell脚本只是技术预览，它不被支持。PowerShell脚本的版本2和更新版本都可以正常运行，而Windows Server 2008 R2 Enterprise x86_64和Windows Server 2012 R2 Standard x86_64都支持JBoss EAP。

- 在默认情况下，Windows Server 2008 R2 Enterprise x86_64使用PowerShell 2。您也可以安装更新的版本。
- 在默认情况下，Windows Server 2012 R2 Standard x86_64使用PowerShell 4。您也可以安装更新的版本。

PowerShell脚本的路径是EAP_HOME/bin，当您希望在Windows上使用现代脚本语言时，您可以使用这些脚本。

Undertow提供了对HTTP/2标准的支持

Undertow提供了对HTTP/2标准的支持（对于JBoss EAP 7.0仅是技术预览）。HTTP/2通过压缩头部信息和在相同TCP连接上多路复用流减少了延迟。它也支持服务器在请求资源前推送资源到客户端，从而加快了页面的加载。

群集的单点登录MDB

群集的单点登录MDB是JBoss EAP 7的一个技术预览功能。当MDB被确定为群集单点登录MDB并部署在群集里时，它将只在一个节点上保持活动。当这个服务器节点发生故障或关闭时，群集单点登录MDB将在另外一个节点上激活并开始消费该节点上的消息。

管理控制台里的数据源模版

用于在管理控制台里创建新的数据源的数据源模版在JBoss EAP 7里是一个技术预览功能。

JCA和数据源

JBoss EAP 7支持基于JGroup项目的DistributedWorkManager实现。这仅是技术预览功能。

事务监控

JBoss EAP 7支持事务监控。这只是一个技术预览功能。下面是我们新添加的两个用于跟踪事务的属性：

- number-of-system-rollbacks：由于内部系统错误回滚的事务的数量。
- average-commit-time：提交事务的平均时间（纳秒）。

这些统计信息只可通过标准的JMX客户端获得。
注意
少数阻塞的事务可能使总体的 average-commit-time 失真。

在管理控制台里配置子系统
用管理控制台配置下列子系统是 JBoss EAP 7 里的一个技术预览功能：
- IO
- Remoting
- BeanValidation
- Jaxrs
- Jdr
- Jsf
- Jsr77
- Naming
- Pojo
- RequestController
- Sar
- SecurityManager
- Singleton
- Weld

JBeret 控制的批处理 (JSR 352)
批处理 (JSR 352) 是由 JBeret 控制的。JBeret 有下列三个 Helper 注解，在以后的版本里可能成批规格的一部分。
- @org.jberet.cdi.JobScoped
- @org.jberet.cdi.StepScoped
- @org.jberet.cdi.PartitionScoped

这些注解位于私有的 org.jberet.core 模块。这些注解的注解只被当作技术预览。在
以后的版本里，这些注解可能会移至受支持的公共模块里。到目前为止，使用这些注解将
导致日志记录警告信息，表示 org.jberet.core 是一个私有模块。

Java (SSE) 里的 Server-Sent 事件
我们为使用移动电话和富客户端的用户提供了 Server-Sent 事件模型的 Java 实现。这只包含
了服务器实现，目前只是技术预览。

Microsoft Azure 发现协议
用于 Microsoft Azure 的 JGroups AZURE_PING 发现协议已进行了最小程度的测试，它在
JBoss EAP 7 里仅作为技术预览出现。关于更多的信息，请参考 JBEAP-3327 和 jgroups-azure GitHub 资料库。
第 3 章 不受支持和已舍弃的功能

3.1. 不支持的功能

由于维护成本高、社区不感兴趣以及更好的替代方案的出现，我们取消了对一些技术的支持。JBoss EAP 7 不再支持下列功能。

JAX-RPC
- JAX-RPC 不再被支持。JAX-WS 提供了更准确和完整的解决方案。

JSR 88
- 对 JSR-88 有限的采用。

JBoss Web Services
- Bean Validation 1.1 拦截器和功能
- JASPI 验证

Messaging (ActiveMQ Artemis)
- AMQP、Stomp、REST、MQTT 和 OpenWire 协议
- 基于 HTTP 的 Netty 和 Netty Servlet 传输
- OIO (Old Java IO) 连接器/接受者类型
- Vert.x、AeroGear、Spring 和 Jolokia 集成
- 动态队列创建
- 链群集
- 使用 JMX 的 ActiveMQ Artemis 管理
- 将数据库作为共享的 JDBC 库
- 缩减群集
- 用 http-connector/http-acceptor 或 replication-colocated/shared-store-colocated Colocated 配置的 HA 拓扑结构

第三方的 JMS Broker 认证
- 通用的 JMS 资源适配器

管理控制台
- 连接池的所有冲刷操作
- JBoss EAP7 取消了 Red Hat Access 集成

Resteasy 3
- jose-jwt
命令行界面（Command Line Interface，CLI）
- .jbossclic 文件里的 CLI 首选项
- 简化复杂属性的处理
- 属性名称路径语法的 CLI Tab 自动完成
- jboss-cli.xml 里的连接控制器别名
- CLI 命令的基于 RBAC 的 Tab 自动完成

群集
- 跨站点复制
- JGroups 子系统里的声明式频道、频道 fork、fork 协议栈自定义 JGroups 协议
- 用于 JGroups 频道创建的公共 API
- 用于 JGroups 频道的 Runtime 管理度量
- 在 JGroups 子系统里为每个协议栈配置线程池的能力
- 在 Infinispan 子系统里为每个缓存容器配置线程池的能力

事务
- 可补偿的事务
- REST 事务

添加用户
- 用 add-user 工具启用或禁用用户

Hibernate
- Hibernate native API 的泛型

PicketLink
- PicketLink IDM
- PicketLink IDM 子系统
- PicketLink Federation 的 STS Client Pooling 功能
- PicketLink JEE (CDI Security)

Natives
- 已停止对 RHEL RPM 频道的 Apache HTTP 服务器一起使用的 mod_cluster 和 mod_jk 连接器的支持。
- 已停止对 HP-UX Web Server 套件里的 Apache HTTP 服务器一起使用的 mod_cluster
和 mod_jk 连接器的支持。

- JBoss EAP 7 已弃用了 OpenSSL
- JBoss EAP 7 已弃用了 tcnatives

注意

更多信息请参考 Changes to Delivery of JBoss EAP Natives and Apache HTTP Server。

Undertow

- JBoss EAP 7 没有提供 WebDAV 功能。在 JBoss EAP 7 里，要添加 WebDAV 功能，您需要实现提供 WebDAV 功能的 Servlet。

ORB

- JacORB 功能

3.2. 已弃弃的功能

JBoss EAP 7 已弃弃了一些功能。这意味着不会再有对这些功能的改进，通常会在下一个主要版本发布时删除这些功能。

Red Hat 将基于标准支持条款继续提供全面的支持和程序错误修复。关于 Red Hat 支持政策的更多信息，请参考 Red Hat 客户门户网站上的文章：Red Hat JBoss Middleware Product Update and Support Policy。

关于已弃弃的功能的详情，请参考 Red Hat 客户门户网站上的 JBoss Enterprise Application Platform Component Details。

- JBoss EAP 7 舍弃了所有的 PicketLink 模块，包括 Federation。这意味着已后的 JBoss EAP 版本可能会删除它们。但 JBoss EAP 7 仍支持 PicketLink Federation。

- JBoss EAP 7 舍弃了 resteasy-jettison-provider。更多信息请参考《JBoss EAP 迁移指南》里的 RESTEasy Jettison JSON Provider Changes。
第 4 章 7.0 版本的已知问题

安全管理者

JBEAP-408 - 安全管理者的 maximum-permissions 设置不工作
空的安全管理者的 maximum 设置会导致 AllPermission 的使用。若您故意配置它为空值，那您就是试图建立空的权限集合来阻碍任何已声明权限的部署。默认分配的 AllPermission 会阻止这种情况发生而导致任何已声明的权限都被子系统所接受。

它防止了对已声明安全权限的部署的阻碍。当前行为不允许可能阻碍这些部署的策略。

变通方法
您可以检测部署是否在 META-INF/permissions.xml 里有权限并可以简单地不部署该部署，而不是依赖子系统来执行这个检查。要求安全权限的部署不会被部署。

JBEAP-2770 - Remoting 用安全管理者的运行要求对 XNIO 和 Marshalling 模块的文件权限

安全性

JBEAP-3997 - 在分布式 PicketLink Identity Provider 上单次登出无法完全工作
在某些情况下，分布式 PicketLink Identity Provider (IDP) 上的 Global Logout (GLO) 无法完全工作。例如，如果负载平衡器没有将粘性会话功能用于 IDP 应用程序，或带有您目前使用的 IDP 的节点在 GLO 之前失败。如果使用不同的节点和 IDP 来登录或登出服务供应商，您可以在 GLO 后在几个服务供应商上保持登录，因为 GLO 参与者的列表限制于 GLO 请

域管理

JBEAP-4125 - RBAC: 两种类型的不可寻址性
某些资源对于服务器组和主机作用域角色是不可寻址的，目的是提供管理模型的简化视图以提高可用性。这和用于保护敏感数据的不可寻址资源是不同的。

对于作用域为服务器组的角色来说，这意味着管理模型的 profile, socket binding group, deployment, deployment override, server group, server config 和 server 部分里的资源将是不可见的，如果它们和为该角色指定的服务器无关的话。

对于作用域为主机的角色来说，这意味着管理模型的 /host=* 部分里的资源将是不可见的，如果它们和为该角色指定的服务器无关的话。

然而，在某些情况下，这种简化的视图可以隐藏超出用户管理的范围的信息，它可以为用户的一系列动作提供指导。一个例子是 JBEAP-4160 - RBAC: 无法部署已经被不同 server-group 作用域的用户部署的相同部署。

在以后的版本里，这些不可寻址的资源可能会改为可寻址但不可读的。这不会影响服务器的安全性，因为出于安全原因它们是不可寻址的。红帽推荐您不要依赖于资源的不可寻址来隐藏信息，除非这种不可寻址性是在敏感性约束里定义的。

JBEAP-4434 - 无法用 EAP 6.4.7 和更高版本的配置文件来启动服务器
在 JBoss EAP 7 里使用配置文件之前，请将根 XML 元素上的 xmlns 属性的值修改为 xmlns="urn:jboss:domain:1.7"。

第 4 章 7.0 版本的已知问题
除非您的配置包含了 1.8 版本才添加的项目，否则应该可以正常启动了。这些项目应该都是不常用的。

JBEAP-4227 - 通过 CLI 命令使用的 Reorder JBoss LoginModules

**Undertow**

JBEAP-4255 - 在安全约束处理里添加跟踪日志
既然重要信息可能没有在实例的日志文件里记录，这个问题可能使得调试安全问题变得困难。

**变通方法**
目前已知的变通办法是使用 Byteman 来尝试和注入缺失的日志语句。关于更多的信息，请参考 https://access.redhat.com/solutions/31283。

JBEAP-2263 - 在不是创建会话的 invalidating a session of an SSO on a different node than where the session was created does not logout the user

JBEAP-4425 - 对于默认的 standalone.xml 配置和高数量客户时，EAP 7 HTTP keep-alive 性能相比 EAP 6.4.7 所有下降。

JBEAP-4413 - Undertow mod_cluster: Multiinterface box: Manager-Address 总是包含主机名

JBEAP-4256 - 在 SSO 代号里添加跟踪日志
在要求调试 SSO 问题的情况下，因为某些有助于解决问题的语句可能不会登记日志，会更难以解决问题。

**变通方法**
目前唯一的变通办法是使用 Byteman 来尝试和注入缺失的日志语句。关于更多的信息，请参考 https://access.redhat.com/solutions/31283。

日志

JBEAP-4101 - 没有为 EAR 子部署删除 LogContext

**JPA/Hibernate**

JBEAP-1605 - Hibernate Validator 无法从使用 IBM JDK 的方法参数里自省注解的参数化类型
我们在 IBM JVM 实现里发现了一个问题，它使得当运行在 IBM JVM 上时，不可能从使用反射的方法参数里自省注解的参数化类型。这影响了 JBoss EAP 里的 Bean Validation 实现，Hibernate Validator，在某种程度上基于方法参数上的 type-use 注解的自定义的校验约束将无法工作。例如：

```java
public void addSomeInterestingStrings(List<@Interesting String> strings)
```

假定 @Interesting 被声明为校验约束，当校验 "strings" 参数时它不会被正确应用。这是 JVM 实现里一个问题，我们已向 IBM 报告，在以后的 IBM Java 版本里将得到修复。这个问题不会影响到其它的 JVM 实现。

JBEAP-3707 - 在某些情况下，Oracle JDBC 驱动无法处理名称为一个字符的实体。
我们在 Oracle JDBC driver 12.1.0.2 里发现一个程序错误，在试图为名称只有一个字符的表创建 Prepare 语句时它会导致异常抛出。这是 JDBC 驱动里的问题，我们已向 Oracle 报告，在以后的版本里会被修复。

变通方法

变通办法是不使用名称只有一个字符的表或者用引号括起来。

JBEAP-3993 - 在启动持久化单元时没有设立命名上下文
JBEAP-4475 - HHH-5393: 在使用 MapKeyColumn 时在映射里出现重复的列
JBEAP-4179 - HHH-10679: 通过 ID 进行批加载时没有使用 Subselect

Quickstarts

JBEAP-4500 - Quickstart ejb-multi-server intermittently 部署失败，错误码 ERROR MSC000001。

Messaging (ActiveMQ Artemis, JMS)

JBEAP-4407 - 从导入的日志读取大型消息时消费者会崩溃并抛出异常
 IndexOutOfBoundsException

如果用 import-journal CLI 操作导入 ActiveMQ Artemis 日志而日志包含了大型消息，那么接收这些消息的消费者会抛出异常：

```java
java.lang.IndexOutOfBoundsException: readerIndex(22) + length(409600) exceeds writerIndex(3580):
UnpooledHeapByteBuf(ridx: 22, widx: 3580, cap: 3580)
at
at
at
at
io.netty.buffer.WrappedByteBuf.readBytes(WrappedByteBuf.java:511)
...
```

Workaround变通方法是使用 JMS Bridge。关于更多的信息，请参考《JBoss EAP 迁移指南》。

JBEAP-3998 - 如果您使用复制日志，故障恢复后在线服务器不能变为活动的。
如果您使用复制日志，存在的风险是故障恢复后在线服务器无法变为活动的。

JBEAP-4225 - 使用常规 JMS 事务的失效切换/故障恢复可能丢失消息
JBEAP-3848 - Artemis Testsuite PagingTest/testDeletePhysicalPages 失败
JBEAP-3675 - 重启 HA 服务器进行重新分发时丢失大型消息

JBEAP-2946 - 复制的故障恢复过程中订阅者抛出异常
如果您使用带有大型消息的复制日志，消费者可能抛出导致失败的下列异常：

```plaintext
00:31:52,730 Thread-535 ERROR
[org.jboss.qa.hornetq.apps.clients.SubscriberClientAck:207]
Exception was thrown during receiving messages:
java.lang.IndexOutOfBoundsException: readerIndex(22) +
length(409600) exceeds writerIndex(3580):
UnpooledHeapByteBuf(ridx: 22, widx: 3580, cap: 3580)
at
io.netty.buffer.AbstractByteBuf.checkReadableBytes(AbstractByteBu
f.java:1165)
at
5)
at
io.netty.buffer.AbstractByteBuf.readBytes(AbstractByteBuf.java:68
3)
at
io.netty.buffer.WrappedByteBuf.readBytes(WrappedByteBuf.java:511)
at
org.apache.activemq.artemis.core.buffers.impl.ChannelBufferWrappe
r.readSimpleStringInternal(ChannelBufferWrapper.java:86)
at
org.apache.activemq.artemis.core.buffers.impl.ChannelBufferWrappe
r.readNullableSimpleString(ChannelBufferWrapper.java:68)
at
org.apache.activemq.artemis.reader.TextMessageUtil.readBodyText(T
extMessageUtil.java:37)
at
org.apache.activemq.artemis.jms.client.ActiveMQTextMessage.doBefo
reReceive(ActiveMQTextMessage.java:112)
at
org.apache.activemq.artemis.jms.client.ActiveMQMessageConsumer.ge
tMessage(ActiveMQMessageConsumer.java:204)
at
org.apache.activemq.artemis.jms.client.ActiveMQMessageConsumer.re
ceive(ActiveMQMessageConsumer.java:119)
at
org.jboss.qa.hornetq.apps.clients.SubscriberClientAck.receiveMess
age(SubscriberClientAck.java:326)
at
org.jboss.qa.hornetq.apps.clients.SubscriberClientAck.run(Subscri
berClientAck.java:169)
Exception in thread "Thread-535" java.lang.RuntimeException:
Fatal exception was thrown in subscriber. Subscriber for node:
127.0.0.1
```

群集

JBEAP-4386 - HA 配置集里的 session.invalidate() 行为没有遵循 Servlet 规格

JBEAP-3954 - EJB Invocation failed on 组件 LocalStatefulSB: TimeoutException: Replication timeout for X

JBEAP-3946 - TimeoutException: Unable to acquire lock after 15 seconds in repl-async stress tests
JBEAP-3926 - 测试两个群集里的 EJB 客户调用优雅关闭时抛出 EJB
ArrayIndexOutOfBoundsException

JBEAP-3779 - 由于复制超时，执行命令 PrepareCommand/GetKeyValueCommand 出错。

JBEAP-3696 - TimeoutException: Replication timeout when handling request

JBEAP-3583 - 测试两个群集里 EJB 调用优雅关闭时抛出异常

JBEAP-2155 - EJB 查找失败，错误信息为 "No cluster context available"。

JBEAP-794 - WARN ISPN000197: 引导时更新群集成员列表出错

JBEAP-444 - WFLYEJB0467: 请求被拒绝，因为容器在服务器关闭过程中已暂停。

JBEAP-2072 - 添加接收 JGroups 消息时的授权检查

JBEAP-4391 - 易变的会话变量没有使用 non-tx 会话缓存进行正确的复制

JBEAP-4128 - 使用 <transaction mode="NONE"></transaction> 时执行 Session.requestDone(...) 过程中抛出 NPE

本地化

JBEAP-4350 - fr_FR Installer - 在每个页面里所有的字符串 'Port Number' 都应该放在 'ajp, http, ...

JBEAP-4336 - ja_JP Installer - 未本地化的 'Quickstarts' 页面和标题名称

JBEAP-4038 - zh_CN Installer - 在 Configure Runtime -> JDBC Driver Setup 页面里，字符串 'For the list of supported drivers, please visit this link.' 显示为乱码或方块字符。

JBEAP-4037 - ALL_LANG Installer - "Installation Overview"页面的标题 'Installation Overview' 没有本地化

JBEAP-4010 - ALL_LANG Installer - Admin User Creation 页面的 Validation 警告对话框有未本地化的字符串

JBEAP-4009 - zh_CN, ja_JP Installer - 如果使用中文或日文登录操作系统，在选择语言的对话框里中文和日文显示为方块。

安装程序

JBEAP-4219 - 自动安装脚本安装时没有生成快捷方式

JBEAP-3724 - Unfriendly behavior of HP-UX boxes 上 jboss-cli 和 installer.jar 的不友好的行为

JBEAP-1404 - Windows 上退出安装时抛出 IOException

EJB

JBEAP-4167 - 在调用 IBM JDK 上的 Asynchronous bean 上的 10 个方法之后，服务器无法调用 @Timeout 方法。

JBEAP-3871 - EJB 的访问过早（违背规格）

JBEAP-3665 - 没有从远程 EJB 客户传播 RollbackException

JBEAP-3448 - SessionSynchronization 回调方法允许对 SFSB 的并行访问
JBEAP-165 - 可能的异常导致 2PC 过程出错

事务

JBEAP-4036 - 在单次回滚过程中 "number-of-application-rollback" 统计了多次

JBEAP-2833 - 第二次设置时，默认的事务超时没有应用于 EJB Bean。

JBEAP-1913 - 无法删除对象库位置的绝对路径

JBEAP-3314 - 修复调用远程 EJB 资源时的事务恢复故障

如果事务恢复操作调用了可能已崩溃的远程 EJB 资源，它们就可能失败。当服务器和客户间的连接断开时可能出现这个问题。特别是，当客户崩溃并重启时，服务器和客户将不会自动彼此通讯。在这样的情况下，服务器将不会知道已重新启动，也可以预料 EJB TX 恢复过程也不会知道要和哪个 EJB 节点来通讯。

管理 CLI

JBEAP-3563 - 使用 Remote 时，jconsole 的 "JBoss EAP CLI" 标签页没有加载。

JBEAP-4415 - CLI: 无法设置 Windows 上的 mod_cluster cipher-suite

JBEAP-4412 - jboss-cli.bat: 设置新的 security-realm 里的 keystore-path 解析 Windows 路径里的 "\ (反斜杠)"

JBEAP-3724 - Unfriendly behavior of HP-UX boxes 上 jboss-cli 和 installer.jar 的不友好的行为

RESTEasy

JBEAP-2963 - RESTEasy-Spring 无法通过 bean 设置来设置 ResteasyDeployment 里的 mediaTypeMappings

JBEAP-3725 - 对不存在的 REST 端点的请求出现日志级别错误

补丁

JBEAP-2669 - 如果 CP 没有为安装了一次性补丁的模块打补丁，CP 安装一次性补丁会失败。

Remoting

JBEAP-2017 - 端点可以在 doConnect 任务完成前被关闭导致
AbstractHandleableCloseable.close 无限期等待

JBEAP-3602 - 无限期等待 AbstractCloseableHandleable

管理控制台

JBEAP-3940 - 无法在 Web 控制台里添加部署扫描器

您可以用管理 CLI 添加以下内容:

```
/subsystem=deployment-scanner/scanner=new-scanner:add(path=new_deployment_dir,relative-to=jboss.server.base.dir,scan-interval=5000)
```
JBEAP-2821 - 在数据源被编辑/删除后需要重载导致一些无法理解的行为，从而从创建数据源向导里删除 Test Connection 按钮。

服务器

JBEAP-4409 - 服务器处理请求没有立即停止，却等待请求处理结束。

JBEAP-4410 - 请求之间的延迟过大导致几天后管理不可用，EAP 7 溢出小部分内存。

关于这个问题及其解决方案的其他细节，请参考 EAP 7.0.0 GA Management Memory Leak。

发布

JBEAP-4254 - mit license - license.txt 是空的

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JBEAP-2807 - jboss-eap-7.0/docs/licenses 的问题

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