Red Hat JBoss Data Grid 6.2

Feature Support Document

For use with Red Hat JBoss Data Grid 6.2

Edition 3

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Abstract

Details JBoss Data Grid feature support and technology preview status information.

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PREFACE

CHAPTER 1. INTRODUCTION

This document clarifies some important information related to features and support for Red Hat JBoss Data Grid, such as:

- The two JBoss Data Grid Usage Modes
- Supported JBoss Data Grid features
- JBoss Data Grid features that are limited to a technology preview.

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1.1. ABOUT USAGE MODES

Red Hat JBoss Data Grid offers two usage modes:

- Remote Client-Server mode
- Library mode

Remote Client-Server mode, which provides a managed, distributed and clusterable data grid server. Applications can remotely access the data grid server using **`Hot Rod`**, **`memcached`** or **`REST`** client APIs. Remote Client-Server mode is supported in JBoss Data Grid.

Library mode allows the user to build and deploy a custom runtime environment. The Library usage mode hosts a single data grid node in the applications process, with remote access to nodes hosted in other JVMs. Tested containers for JBoss Data Grid 6 Library mode includes JBoss Enterprise Web Server 2.0 and JBoss Enterprise Application Platform 6. Library mode is supported in JBoss Data Grid.

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1.2. FEATURES AND USAGE MODES

The following table presents a list of features and indicates the usage mode for each feature. Red Hat JBoss Data Grid 6.2.0 includes full support for both Remote Client-Server mode and Library mode.

Table 1.1. JBoss Data Grid Features

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
File Cache Store and Loading	✓	✓
JDBC Cache Store and Loading	✓	✓
LevelDB Cache Store and loading	✓	✓
Cache Passivation	✓	✓

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Remote Cache Store	✓	✓
Cluster cache store	✓	✓
Asynchronous Store	✓	✓
Cluster configuration using UDP	✓	✓
Cluster configuration using TCP	✓	✓
Mortal and Immortal Data	✓	✓
Eviction Strategy	✓	✓
Expiration	✓	✓
Unscheduled Write-Behind Cache store	✓	✓
Write-Through Cache Store	✓	✓
Clustering Mode (local)	✓	✓
Clustering Mode (replicated)	✓	✓
Clustering Mode (invalidation)	✓	✓
Clustering Mode (distribution)	✓	✓
L1 Caching	✓	✓

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Asynchronous Clustering Modes	✓	✓
Marshalling	✓	✓
Management using JMX	✓	✓
Cross-Datacenter Replication	✓	✓
JBoss Operations Network (JON) Integration and Plugin	✓	✓
Asymmetric Cluster	✓	✓
Data compatibility between Client-server and Library modes	✓	✓
Command Line Interface (CLI)	✓	✓
Connection Pooling with JDBC cache stores	✓	
REST Interface	✓	
Memcached Interface	✓	
Java Hot Rod client	✓	
C++ Hot Rod Client	✓	
Data compatibility between Client-server protocols	✓	
Data compatibility between Java and C++ Hot Rod clients	✓	

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Rolling Upgrades for Hot Rod cluster	✓	
Rolling Upgrades for REST Clusters	✓	
Authentication and Encryption over Hot Rod (Java client)	✓	
CDI		✓
READ_COMMITTED and REPEATABLE_READ isolation modes		✓
Lazy Deserialization		✓
Asynchronous API		✓
Using the infinispan.xml file in conjunction with APIs		✓
Custom Interceptors		✓
Listeners and Notifications for cache manager and cache events		✓
Synchronous and Asynchronous Notifications		✓
Per Invocation Flags		✓
Grouping API		✓
Java Transactional API (JTA) Support and Configuration		✓
Java Transactional API (JTA) Deadlock Detection		✓

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Transaction Recovery		✓
Transaction and Batching		✓
Key Affinity		✓
Distributed Execution Framework with Map/Reduce		✓
Querying (via Lucene-based APIs)		✓

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1.3. TECHNOLOGY PREVIEW FEATURES

The following feature is included in Red Hat JBoss Data Grid 6.2 as a technology preview only:

- Remote Querying from Hot Rod Java Client (and use of the new Domain-specific language)

WARNING

Technology Preview features are not supported with Red Hat production service level agreements (SLAs), may not be functionally complete, and are not recommended to be used for production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process.

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APPENDIX A. REVISION HISTORY

Revision 6.2.0-2 **Tue Jan 14 2014** **Misha Husnain Ali**

Final version for release.

Revision 6.2.0-1 **Fri Dec 20 2013** **Mandar Joshi**

BZ-1036973: Updated table in topic "Features and Usage Modes" and implemented other feedback.

Revision 6.2.0-0 **Wed Dec 04 2013** **Misha Husnain Ali**

Implemented changes to table of features.