

IBM Software Group

Improving performance with HA Active-Active and Paging feature of WebSphere Adapter for JDBC

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Agenda

- Overview
- HA Active-Active
- Paging
- Demonstrations
- Questions





Overview

- WebSphere Adapter for JDBC enables to create integrated applications that can interact and exchange information with a database.
- Outbound processing enables an application to access or modify data in a database.
- Inbound processing enables an application to receive notification when objects in the database are changed.



HA Active-Active

- Previous behavior HA Active-Passive
- Multiple adapter instances can poll the events in parallel.
- In event handling phase, other applications can generate events in parallel.
- Any instance going down, the events will be handled by other instance.
- All events will be processed even if only one adapter instance is available.



HA Active-Active - Performance

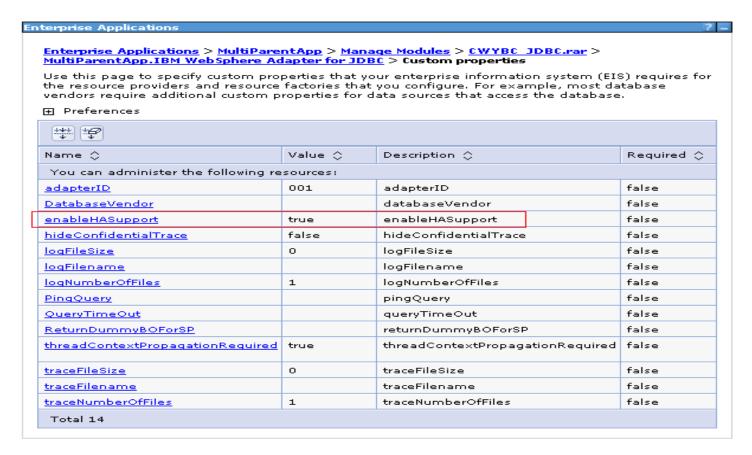
- Load Balancing
- Parallel processing of events results into better through-put
- High Availability for mission critical application like Banking, etc
- Extremely useful for high load systems where rate of processing of events is critical
- Much greater potential as compared to HA activepassive scenario





HA Active-Active - EMD

enableHASupport property







Paging

- Paging scenario Retrieve_All operation
- Returns only the specified number of records per page
- enablePaging, indicate if the paging support feature is enable or not. Added to provide backward compatibility
- startIndex, indicate the starting index to return records for the RetrieveAll operation





Paging – Performance

- Better performance, in most cases customers just want to handle a page of records in one operation
- Lower memory and Bandwidth requirement, as the adapter just need to read specific number of records.
- Provide query optimization for DB2 and Oracle by using database specific solution, and relies on scrollable ResultSet to support for the other databases





Paging - EMD

 EMD wizard – EnablePaging, startIndex, and Number of records per page

▼ RetrieveAll configuration properties	
Specify how the adapter returns records for this operation	
C Return all records	
Return all records matching the query.	
 Return specified number of records 	
Maximum number of records to be returned	d; 100
Return specified number of records per page beginning with the starting index	
Starting index to return records:	* 0
Number of records per page:	* 100





Demonstrations





Summary

- Improving performance with HA Active-Active and Paging feature of WebSphere Adapter for JDBC
- Demonstrations
 - HA Active-Active Functionality
 - Paging Functionality





Additional WebSphere Product Resources

- Learn about upcoming WebSphere Support Technical Exchange webcasts, and access previously recorded presentations at: http://www.ibm.com/software/websphere/support/supp_tech.html
- Discover the latest trends in WebSphere Technology and implementation, participate in technically-focused briefings, webcasts and podcasts at: http://www.ibm.com/developerworks/websphere/community/
- Join the Global WebSphere Community: http://www.websphereusergroup.org
- Access key product show-me demos and tutorials by visiting IBM® Education Assistant: http://www.ibm.com/software/info/education/assistant
- View a webcast replay with step-by-step instructions for using the Service Request (SR) tool for submitting problems electronically: http://www.ibm.com/software/websphere/support/d2w.html
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Questions and Answers

