

./34894322-546c-47f0-a30e-231f742ef467@jambo.software.mbx.txt
Tue Nov 12 15:15:08 2024 1

From mboxrd@z Thu Jan 1 00:00:00 1970
Return-Path: <users-return-57567-archive-asf-public=cust-asf.ponee.io@activemq.apache.org>
X-Original-To: archive-asf-public@cust-asf.ponee.io
Delivered-To: archive-asf-public@cust-asf.ponee.io
Received: from mxout1-he-de.apache.org (mxout1-he-de.apache.org [95.216.194.37])
by mx-eu-03.ponee.io (Postfix) with ESMTPS id 4EC443E6A3
for <archive-asf-public@cust-asf.ponee.io>; Wed, 23 Oct 2024 13:38:36 +0000 (UTC)
Received: from mail.apache.org (mailgw-he-de.apache.org [IPv6:2a01:4f8:c2c:d4aa::1])
(using TLSv1.3 with cipher TLS_AES_256_GCM_SHA384 (256/256 bits)
key-exchange X25519 server-signature RSA-PSS (4096 bits) server-digest SHA256)
(No client certificate requested)
by mxout1-he-de.apache.org (ASF Mail Server at mxout1-he-de.apache.org) with ESMTPS id 2E97564BF2
for <archive-asf-public@cust-asf.ponee.io>; Wed, 23 Oct 2024 13:38:36 +0000 (UTC)
Received: (qmail 3011181 invoked by uid 998); 23 Oct 2024 13:38:34 -0000
Mailing-List: contact users-help@activemq.apache.org; run by ezmlm
Precedence: bulk
List-Help: <mailto:users-help@activemq.apache.org>
List-Unsubscribe: <mailto:users-unsubscribe@activemq.apache.org>
List-Post: <mailto:users@activemq.apache.org>
List-Id: <users.activemq.apache.org>
Reply-To: users@activemq.apache.org
Delivered-To: mailing list users@activemq.apache.org
Delivered-To: moderator for users@activemq.apache.org
Received: (qmail 2393644 invoked by uid 116); 23 Oct 2024 08:51:07 -0000
Authentication-Results: apache.org; auth=none
X-Virus-Scanned: Debian amavisd-new at spamproc1-he-fi.apache.org
X-Spam-Flag: NO
X-Spam-Score: 0.201
X-Spam-Level:
X-Spam-Status: No, score=0.201 tagged_above=-999 required=6.31
tests=[HTML_MESSAGE=0.2, RCVD_IN_VALIDITY_RPBL_BLOCKED=0.001,
RCVD_IN_VALIDITY_SAFE_BLOCKED=0.001, SPF_PASS=-0.001]
autolearn=disabled
Received-SPF: Pass (mailfrom) identity=mailfrom; client-ip=136.144.238.65; helo=jambo4.jambo-mobile.com; envelope-from=silvio@jambo.software; receiver=<UNKNOWN>
Content-Type: multipart/alternative;
boundary="-----OHYvJ0bHtiQ7O6Cm84Fg5ZEy"
Message-ID: <34894322-546c-47f0-a30e-231f742ef467@jambo.software>
Date: Wed, 23 Oct 2024 10:50:54 +0200
MIME-Version: 1.0
User-Agent: Mozilla Thunderbird
To: "users@activemq.apache.org" <users@activemq.apache.org>
Content-Language: en-US
From: Silvio Bierman <silvio@jambo.software>
Subject: Question regarding problems with JDBC persistence

-----OHYvJ0bHtiQ7O6Cm84Fg5ZEy
Content-Type: text/plain; charset=UTF-8; format=flowed
Content-Transfer-Encoding: 7bit

Hello,

Inside Wildfly 23.0.0 we are running ActiveMQ Artemis Message Broker 2.16.0 with JDBC persistence on SQLServer for ~25 message queues. In some production environments we have moderate-to-high message volumes and since processing can be relatively slow temporary message pileup is not uncommon.

In one particular environment we are experiencing OutOfMemory issues

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during startup. There are about 60K messages in 2 of the queues while the message table contains over 350M records causing memory exhaustion during startup. Running in a controlled environment with ~60G heap startup succeeds and through JProfiler we observe that all message table records are selected and appear to be collected in memory. After that they are processed and discarded dropping memory usage down to a fraction of its peak. Using the JBoss CLI to inspect the queues then shows we have indeed 60K messages in 2 queues.

Inspecting the contents of the message table we see limited counts of record types 13 (ADD_RECORD_TX) and 14 (UPDATE_RECORD_TX) roughly equivalent to the 60K message count. All remaining records are type 11 (ADD_RECORD).

When we removed all type 11 records restart was fast with limited memory load and we still see 60K messages in the 2 queues.

In the past we have observed similar numbers and startup problems in other environments which lead us to truncate the AMQ persistence tables to be able to restart the server without an OutOfMemoryException. But we are looking for a way to prevent this situation from happening.

So my questions are:

- Is the large record count in the message table expected behavior?
- Is there anything we can/should do to limit the number of records in the message table?
- Is removing all type 11 records a valid workaround? If no, what would be the side-effect?

Thanks for your help!

Silvio

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