

./CAF+kE\_RKq4FO+gOr4sTeCnOQtLph5SWTaim9KMypPYt4VhKF3w@mail.gmail.com.mbx.txt  
Tue Nov 12 15:15:12 2024 1

From mboxrd@z Thu Jan 1 00:00:00 1970

Return-Path: <users-return-57586-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-ec2-va.apache.org (mxout1-ec2-va.apache.org [3.227.148.255])

by mx-eu-03.ponee.io (Postfix) with ESMTPS id F1E273E816

for <archive-asf-public@cust-asf.ponee.io>; Fri, 25 Oct 2024 22:01:15 +0000 (UTC)

Received: from mail.apache.org (mailgw-he-de.apache.org [116.203.246.181])  
(using TLSv1.3 with cipher TLS\_AES\_256\_GCM\_SHA384 (256/256 bits))

(No client certificate requested)

by mxout1-ec2-va.apache.org (ASF Mail Server at mxout1-ec2-va.apache.org) with  
ESMTPS id E067E51313

for <archive-asf-public@cust-asf.ponee.io>; Fri, 25 Oct 2024 22:01:14 +0000 (UTC)

Received: (qmail 1161736 invoked by uid 998); 25 Oct 2024 22:01:13 -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

Received: (qmail 1161713 invoked by uid 116); 25 Oct 2024 22:01:12 -0000

Received: from ec2-52-204-25-47.compute-1.amazonaws.com (HELO mailrelay1-ec2-va.apache.org) (52.204.25.47)

by apache.org (qpsmtpd/0.94) with ESMTTP; Fri, 25 Oct 2024 22:01:12 +0000

Authentication-Results: apache.org; auth=none

Received: from mail-ed1-f42.google.com (mail-ed1-f42.google.com [209.85.208.42])

by mailrelay1-ec2-va.apache.org (ASF Mail Server at mailrelay1-ec2-va.apache.org) with ESMTTPSA id 0A2474013B

for <users@activemq.apache.org>; Fri, 25 Oct 2024 22:01:12 +0000 (UTC)

Received: by mail-ed1-f42.google.com with SMTP id 4fb4d7f45d1cf-5c97c7852e8so3558922a12.1

for <users@activemq.apache.org>; Fri, 25 Oct 2024 15:01:11 -0700 (PDT)

X-Gm-Message-State: AOJu0Yw5YHCNiAeY1/1E/qDPWKFz/uuUBcrzKZA3WAjrGPjOT/Z2vMT+nJeBacpiOwJ2yYyFerzPeCl8t7DU3D6vBkydCeGYd9EVNiDlWmyojLGfkO5EMziL4/n18TrG+B5D3EB02haXBRfhnwGKtwww8utVxQeIVpu7SvqRA==

X-Google-Smtp-Source: AGHT+IE90May6JuhCPpso209ISwaE/RuIGIyRemTq+bGahTA9VV27Sxzs9KOMnfxBSeN8VivDsrIYCyKX8JNwCXIRg=

X-Received: by 2002:a05:6402:510e:b0:5cb:7290:f98c with SMTP id

4fb4d7f45d1cf-5cbbf8a4e78mr474176a12.9.1729893671181; Fri, 25 Oct 2024

15:01:11 -0700 (PDT)

MIME-Version: 1.0

References: <BN1P110MB08995413A599307F53CC05A2C24EA@BN1P110MB0899.NAMP110.PROD.OUTLOOK.COM>

In-Reply-To: <BN1P110MB08995413A599307F53CC05A2C24EA@BN1P110MB0899.NAMP110.PROD.OUTLOOK.COM>

From: Justin Bertram <jbertram@apache.org>

Date: Fri, 25 Oct 2024 17:00:44 -0500

X-Gmail-Original-Message-ID: <CAF+kE=RKq4FO+gOr4sTeCnOQtLph5SWTaim9KMypPYt4VhKF3w@mail.gmail.com>

Message-ID: <CAF+kE=RKq4FO+gOr4sTeCnOQtLph5SWTaim9KMypPYt4VhKF3w@mail.gmail.com>

Subject: Re: EXTERNAL: Re: Artemis MQ 2.36.0 Load Balancing questions

To: users@activemq.apache.org

Content-Type: multipart/alternative; boundary="000000000000c54771062554410e"

--000000000000c54771062554410e

Content-Type: text/plain; charset="UTF-8"

Content-Transfer-Encoding: quoted-printable

./CAF+kE\_RKq4FO+gOr4sTeCnOQtLph5SWTaim9KMypPYt4VhKF3w@mail.gmail.com.mbx.txt  
Tue Nov 12 15:15:12 2024 2

I'm not clear on a few points.

First, you say that a producer sends messages to primary\_UDN\_1 server and then Consumer\_UDN consumes all message types from that server. However, then the server from which "all message types" have been consumed (i.e. primary\_UDN\_1) forwards messages to primary\_VM\_2 server. If "all message types" have been consumed from primary\_UDN\_1 by Consumer\_UDN how are there any messages left to forward to primary\_VM\_2?

Second, your slide indicated this was a "symmetrical" cluster. In other words, it's a cluster where every node is configured the same. This is a common configuration because it allows any client to connect to any node of the cluster and consume messages sent to any other node in the cluster. This makes all of the nodes in the cluster functionally equivalent so the client doesn't need to care exactly which node it's connecting to. However, you're asking about configuring certain nodes so that they will only forward messages sent to certain addresses. This means your cluster is no longer symmetrical. Can you clarify whether you really want a symmetrical configuration?

Regarding which addresses are actually clustered (i.e. which addresses will forward to other nodes in the cluster when messages are sent to them), please refer to the <address> setting on the <cluster-connection>. See the documentation [1] for details. In your case I think you'd just want to use:

```
<cluster-connection>
  <address>PositionReport</address>
  ...
</cluster-connection>
```

Justin

[1]  
<https://activemq.apache.org/components/artemis/documentation/latest/cluster=s.html#configuring-cluster-connections>

On Thu, Oct 24, 2024 at 4:30=E2=80=AFPM tin.m.lai@lmco.com <tin.m.lai@lmco.=com>  
wrote:

```
> Hi,
>
> Thanks for the feedback! Your points are well received.
>
> Attached are the broker xml files: both are using Static Connectors:
>
> - Producer sends messages to primary_UDN_1 server
> - Consumer_UDN consumes all message types from primary_UDN_1 server
> - primary_UDN_1 server forwards messages to primary_VM_2 server
> - Consumer_VM consumes all message types from primary_VM_2 server
> - Consumer_UDN and Consumer_VM are the same app; just different instances
> with configurations allowing connecting to different Artemis servers
>
> GOAL: Specify messages types to be forwarded from primary_UDN_1 server f
> to primary_VM_2 server. This is to reduce traffic from primary_UDN_1 serv=
er
> f to primary_VM_2 server and hope to improve performance.
>
> Added address name=3D"PositionReport=E2=80=9C, as shown below in attempt =
to forward
> only PositionReport to VM node =E2=80=93 but all messages still got forwa=
rded from
```

./CAF+kE\_RKq4FO+gOr4sTeCnOQtLph5SWTaim9KMypPYt4VhKF3w@mail.gmail.com.mbx.txt  
Tue Nov 12 15:15:12 2024 3

```
> primary_UDN_1 server f to primary_VM_2 server:
> <address name=3D"PositionReport">
>     <anycast/>
> </address>
>
> QUESTION: How to configure so that primary_UDN_1 server would only forward
> certain message, such as PositionReport, to primary_VM_2 server?
>
> Regards,
> Tin (Tien) Lai
>
>
> -----Original Message-----
> From: Justin Bertram <jbertram@apache.org>
> Sent: Thursday, October 24, 2024 3:47 PM
> To: users@activemq.apache.org
> Subject: Re: EXTERNAL: Re: Artemis MQ 2.36.0 Load Balancing questions
>
> I'm still confused. There's multiple broker configurations in the zip and
> questions about both static and dynamic discovery. For the sake of clarity,
> can we focus on just *one* issue? If possible, provide configuration for
> either static or dynamic discovery (i.e. not both) and ask questions that
> only deal with that particular configuration.
>
> Also, please do not continue sending pptx files. Please use a more
> ubiquitous file format (e.g. txt, pdf, etc.), or better yet, just describe
> your use-case and the problem you're seeing directly in the body of the
> email as is customarily done on this mailing list. Folks providing support
> on this mailing list are doing so on a volunteer basis so it helps when
> folks needing support ask questions which are clear and concise as
> possible. Thanks!
>
>
> Justin
>
> On Thu, Oct 24, 2024 at 3:11=E2=80=AFPM tin.m.lai@lmco.com <tin.m.lai@lmco.com>
> wrote:
>
> > Hi,
> >
> > I have simplified the configuration as you have suggested. However,
> > the same two issues still exist.
> >
> > The attached zip file contains:
> > - ArtemisMQ_Cluster_Oct172024.pptx This has configuration
> > descriptions and the questions
> > - primary_UDN_2 This folder has the UDN node
> > broker xml files
> > - primary_VM_2 This folder has the VM node
> > broker
> > xml files
> >
> > Thank you for your help.
> >
> > Regards,
> > Tin (Tien) Lai
> >
> >
```

./CAF+kE\_RKq4FO+gOr4sTeCnOQtLph5SWTaim9KMyppYt4VhKF3w@mail.gmail.com.mbx.txt  
Tue Nov 12 15:15:12 2024 4

```
> > -----Original Message-----
> > From: Justin Bertram <jbertram@apache.org>
> > Sent: Thursday, October 24, 2024 12:40 PM
> > To: users@activemq.apache.org
> > Subject: Re: EXTERNAL: Re: Artemis MQ 2.36.0 Load Balancing questions
> >
> > I looked on page 2 of the ArtemisMQ_Cluster_Oct172024.pptx in the
> > archive which you attached to your original email, but I found no
> > questions.
> > However, I see that you've added them in your response.
> >
> > I find the questions and the configuration confusing.
> >
> > First, automatic discovery (e.g. via UDP) or static connectors can be
> > used to form a cluster. You cannot, as far as I'm aware, use both
> > simultaneously. Therefore, please choose one or the other. It's not
> > clear why you would even try to use both.
> >
> > Second, you say that messages are not forwarded, but you don't
> > describe the details of the use-case. For example, you make no mention
> > of where messages are sent, where consumers are created, etc.
> >
> > Last, generally speaking it's best to start simple and add complexity
> > once the desired functionality has been validated. In this case you're
> > testing message load-balancing which requires multiple primary
> > servers. It doesn't require any backups. It would be useful to
> > simplify your configuration to eliminate any complexity that isn't
> > absolutely required to reproduce the problem. In this case, you can
> > drop your backups and simply focus on the two clustered primary servers=
> >
> >
> > Justin
> >
> > On Thu, Oct 24, 2024 at 9:42=E2=80=AFAM tin.m.lai@lmco.com
> > <tin.m.lai@lmco.com>
> > wrote:
> >
> > > Hi,
> > >
> > > Thanks for the name correction.
> > >
> > > The questions are on page 2 of the ArtemisMQ_Cluster_Oct172024.pptx,
> > > which describes the configuration and the questions. They are listed
> > > here:
> > >
> > > -----
> > > Issue 1:
> > > - UDN node and VM node all use Dynamic discovery
> > > - Cluster connections were established
> > > - Messages either were not forwarded by UDN node, or were not
> > > received by VM node
> > > - Succeeded ONLY after restarting the UDN Primary Server
> > >
> > > QUESTION 1: How to configure so that UDN node server would forward
> > > messages to VM node server upon startup when all are using Dynamic
> > > discovery?
> > >
> > > -----
> > > Issue 2:
> > > UDN node uses Dynamic discovery , VM uses Static Connectors:
> > > Added address name=3D"PositionReport=E2=80=9C, as shown below in atte=
mpt to
```

./CAF+kE\_RKq4FO+gOr4sTeCnOQtLph5SWTaim9KMypPYt4VhKF3w@mail.gmail.com.mbx.txt  
Tue Nov 12 15:15:12 2024 5

> > > forward only PositionReport to VM node =E2=80=93 but all messages sti=  
ll got

> > > forwarded <address name=3D"PositionReport">

> > > <anycast/>

> > > </address>

> > >

> > > QUESTION 2: How to configure so that UDN node server would only

> > > forward certain message, such as PositionReport, to VM node server?

> > >

> > >

> > > Regards,

> > > Tin (Tien) Lai

> > >

> > >

> > >

> > > -----Original Message-----

> > > From: Justin Bertram <jbertram@apache.org>

> > > Sent: Thursday, October 24, 2024 8:30 AM

> > > To: users@activemq.apache.org

> > > Subject: EXTERNAL: Re: Artemis MQ 2.36.0 Load Balancing questions

> > >

> > > Where are the actual questions?

> > >

> > > Also, the broker is named "ActiveMQ Artemis," not "ArtemisMQ."

> > >

> > >

> > > Justin

> > >

> > > On Wed, Oct 23, 2024 at 3:01=E2=80=AFPM tin.m.lai@lmco.com

> > > <tin.m.lai@lmco.com>

> > > wrote:

> > >

> > > > Hi,

> > > >

> > > >

> > > >

> > > > Attached is a zip file describing the configuration and the

> > > > questions I have with Load Balancing. Let me know if I need to

> > > > provide any additional information.

> > > >

> > > >

> > > >

> > > > Regards,

> > > >

> > > > Tin (Tien) Lai

> > > >

> > > >

> > > >

> > > > -----

> > > > --

> > > > - To unsubscribe, e-mail: users-unsubscribe@activemq.apache.org

> > > > For additional commands, e-mail: users-help@activemq.apache.org

> > > > For further information, visit:

> > > > <https://activemq.apache.org/contact>

> > > >

> > > >

> > > > -----

> > > > - To unsubscribe, e-mail: users-unsubscribe@activemq.apache.org

> > > > For additional commands, e-mail: users-help@activemq.apache.org For

> > > > further information, visit: <https://activemq.apache.org/contact>

> > > >

> > > >

> >

./CAF+kE\_RKq4FO+gOr4sTeCnOQtLph5SWTaim9KMypPYt4VhKF3w@mail.gmail.com.mbx.txt  
Tue Nov 12 15:15:12 2024 6

> > -----  
> > To unsubscribe, e-mail: users-unsubscribe@activemq.apache.org  
> > For additional commands, e-mail: users-help@activemq.apache.org For  
> > further information, visit: https://activemq.apache.org/contact  
> >  
>  
> -----  
> To unsubscribe, e-mail: users-unsubscribe@activemq.apache.org  
> For additional commands, e-mail: users-help@activemq.apache.org  
> For further information, visit: https://activemq.apache.org/contact  
>

--000000000000c54771062554410e--  
From mboxrd@z Thu Jan 1 00:00:00 1970  
Return-Path: <users-return-57578-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 3157E3E6DE  
for <archive-asf-public@cust-asf.ponee.io>; Thu, 24 Oct 2024 21:30:57 +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 E686761609  
for <archive-asf-public@cust-asf.ponee.io>; Thu, 24 Oct 2024 21:29:23 +0000 (UTC)  
Received: (qmail 2507307 invoked by uid 998); 24 Oct 2024 21:29:22 -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  
Received: (qmail 2507228 invoked by uid 116); 24 Oct 2024 21:29:19 -0000  
Received: from spamproc1-he-de.apache.org (HELO spamproc1-he-de.apache.org) (116.203.196.100)  
by apache.org (qpsmtpd/0.94) with ESMTP; Thu, 24 Oct 2024 21:29:19 +0000  
Authentication-Results: apache.org; auth=none  
Received: from localhost (localhost [127.0.0.1])  
by spamproc1-he-de.apache.org (ASF Mail Server at spamproc1-he-de.apache.org) with ESMTP id AF6D4200267  
for <users@activemq.apache.org>; Thu, 24 Oct 2024 21:29:19 +0000 (UTC)  
X-Virus-Scanned: Debian amavisd-new at spamproc1-he-de.apache.org  
X-Spam-Flag: NO  
X-Spam-Score: -0.195  
X-Spam-Level:  
X-Spam-Status: No, score=-0.195 tagged\_above=-999 required=6.31  
tests=[DKIM\_SIGNED=0.1, DKIM\_VALID=-0.1, DKIM\_VALID\_AU=-0.1, DKIM\_VALID\_EF=-0.1, RCVD\_IN\_DNSWL\_BLOCKED=0.001, RCVD\_IN\_MSPIKE\_H3=0.001, RCVD\_IN\_MSPIKE\_WL=0.001, RCVD\_IN\_VALIDITY\_RPBL\_BLOCKED=0.001, RCVD\_IN\_VALIDITY\_SAFE\_BLOCKED=0.001, SPF\_PASS=-0.001, URIBL\_BLOCKED=0.001] autolearn=disabled  
Authentication-Results: spamproc1-he-de.apache.org (amavisd-new); dkim=pass (2048-bit key) header.d=lmco.com  
Received: from mx1-he-de.apache.org ([116.203.227.195])  
by localhost (spamproc1-he-de.apache.org [116.203.196.100]) (amavisd-new, port

./CAF+kE\_RKq4FO+gOr4sTeCnOQtLph5SWTaim9KMypPYt4VhKF3w@mail.gmail.com.mbx.txt  
Tue Nov 12 15:15:12 2024 7

10024)

with ESMTP id tLcxCbF5QbQV for <users@activemq.apache.org>;  
Thu, 24 Oct 2024 21:29:19 +0000 (UTC)  
Received-SPF: Pass (mailfrom) identity=mailfrom; client-ip=192.35.35.12; helo=mailfo02.lmco.com; envelope-from=tin.m.lai@lmco.com; receiver=<UNKNOWN>  
Received: from mailfo02.lmco.com (mailfo02.lmco.com [192.35.35.12])  
by mx1-he-de.apache.org (ASF Mail Server at mx1-he-de.apache.org) with ESMTPS id C83F381F4B  
for <users@activemq.apache.org>; Thu, 24 Oct 2024 21:29:18 +0000 (UTC)  
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=lmco.com; h=from : to : subject :  
date : message-id : content-type : mime-version; s=corpgw220615;  
bh=NQdOsbItFKW71N/RnLEYiS3/trzQcZnq5iuehP7Fjlc=;  
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Received: from LMXPDEND13W02.us.lmco.com ([172.23.20.92])  
by mailfo02.lmco.com (8.17.1.19/8.17.1.19) with ESMTP id 49OLTG04084012  
for <users@activemq.apache.org>; Thu, 24 Oct 2024 21:29:16 GMT  
Received: from LMXPDEND13W01.us.lmco.com (172.23.20.91) by  
LMXPDEND13W02.us.lmco.com (172.23.20.92) with Microsoft SMTP Server  
(version=TLS1\_2, cipher=TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384) id  
15.2.1118.37; Thu, 24 Oct 2024 15:29:15 -0600  
Received: from USG02-CY1-obe.outbound.protection.office365.us (192.91.173.229)  
by LMXPDEND13W01.us.lmco.com (172.23.20.91) with Microsoft SMTP Server id  
15.2.1118.37 via Frontend Transport; Thu, 24 Oct 2024 15:29:15 -0600  
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XcmcgKVx1GIPlcx4fcm/e2MW9nVvfNgYDpXSqVFrDMG31ChTdimViWNsJ3kqVVMvLWnX7plh5/KwxDyZr/E2+  
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ARC-Message-Signature: i=1; a=rsa-sha256; c=relaxed/relaxed; d=microsoft.com;  
s=arcselector5401;  
h=From:Date:Subject:Message-ID:Content-Type:MIME-Version:X-MS-Exchange-AntiSpam-MessageData-ChunkCount:X-MS-Exchange-AntiSpam-MessageData-0:X-MS-Exchange-AntiSpam-MessageData-1;  
bh=NQdOsbItFKW71N/RnLEYiS3/trzQcZnq5iuehP7Fjlc=;  
b=ctlZmX/QCqCExd64rnfBh3EHTOqug7wTAnmcYXgENV0Q03JHZscNvUF93y03LXiY6mTaJdSQWc8LKp56DOL2  
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rKhfxpJN6RduSDRzhWnakt7cK5vV5W4XyUkcOtGbpV36OTa+pHr1LS2VaJJNHf70fhtrcYp9yTGpHQdn+oDA==  
ARC-Authentication-Results: i=1; mx.microsoft.com 1; spf=pass  
smtp.mailfrom=lmco.com; dmarc=pass action=none header.from=lmco.com;  
dkim=pass header.d=lmco.com; arc=none  
Received: from BN1P110MB0899.NAMP110.PROD.OUTLOOK.COM (2001:489a:200:132::31)  
by BN1P110MB0804.NAMP110.PROD.OUTLOOK.COM (2001:489a:200:134::33) with  
Microsoft SMTP Server (version=TLS1\_2,  
cipher=TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384) id 15.20.8069.27; Thu, 24 Oct  
2024 21:29:21 +0000  
Received: from BN1P110MB0899.NAMP110.PROD.OUTLOOK.COM  
([fe80::e44b:eac1:91a0:d382]) by BN1P110MB0899.NAMP110.PROD.OUTLOOK.COM  
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21:29:21 +0000  
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