```
From mboxrd@z Thu Jan 1 00:00:00 1970
Return-Path: <users-return-57586-archive-asf-public=cust-asf.ponee.io@activemq.apache.o
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 (UT
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 (UT
C)
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 ESMTP; 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.or
g) with ESMTPSA 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/lE/qDPWKFz/uuUBcrzKZA3WAjrGPjOT/Z2vMT+
        nJeBacpiOwJ2yYyFerzPeC18t7DU3D6vBkydCeGYd9EVNiDlWmyojLGfkO5EMziL4/n18TrG+B5
        D3EB02haXBRfhnbwGKtwww8utVxQeIVpu7SvqRA==
X-Google-Smtp-Source: AGHT+IE90May6JuhCPpso209ISwaE/RuIGIyRemTq+bGahTA9VV27Sxzs9KOMnfxB
SeN8VIvDsrIYCyKX8JNwCXIcRg=
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=RKq4F0+qOr4sTeCnOQtLph5SWTaim9KMypPYt4VhKF3w@mail.
gmail.com>
Message-ID: <CAF+kE=RKq4F0+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="0000000000054771062554410e"
--000000000000c54771062554410e
Content-Type: text/plain; charset="UTF-8"
Content-Transfer-Encoding: quoted-printable
```

I'm not clear on a few points.

rded from

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
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
        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=
> 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=
```

```
> 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 forwar=
d
> 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 clarit=
> 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 describ=
е
> 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 suppor=
> 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@lmc=
o.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
                                            This folder has the UDN node
> > - primary_UDN_2
> > broker xml files
                                            This folder has the VM node
> > - primary_VM_2
> broker
> > xml files
> >
> > Thank you for your help.
> >
> > Regards,
> > Tin (Tien) Lai
> >
> >
```

```
> > ----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

```
>>> 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
> > >
> > >
> >
```

```
> > 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.o
rq>
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 (UT
C)
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 ES
MTPS id E686761609
        for <archive-asf-public@cust-asf.ponee.io>; Thu, 24 Oct 2024 21:29:23 +0000 (UT
C)
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@activemg.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: (gmail 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) (116.203.19
6.100)
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) w
ith 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
```

```
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 i
d 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=;
 b=kGDZe8qvCV7Np72dhTRWKHhKy45xGbjRkrt31xCr5uPd5AwzqpM1juvEekEMHZ5SkRGE
 fC9QkN4tIn5cl1jmwkIJ8HUS8HXorF19HyZmG/oGkT3kKDyVX/jb/x0e8BSUaqYRK8EF
 RRXXQ+c3VEZjJfWfZCrWJpLJpae+qz98alMqHOJQwfrNiMk6PyuJaz3Dmn8eKVGgd3y2
 ZpYXp/yRR1GBAHABq9THEKS/X/dqYX206Vcyzkqxx0VC547h9sqdLv7211Aw6abCfX0d
 +aAcCtwklHBdS/Xv0Dmofhi1/I/+RDaFWpxpRMWNQQyo/wU/t9ulrZ2rBCwh/AW8q1tC Yq==
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 490LTG04084012
        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
ARC-Seal: i=1; a=rsa-sha256; s=arcselector5401; d=microsoft.com; cv=none;
b=PKoYK6zUcx6KshI+3hXpjIHpqZ9Ii4RZnbPva6TTum4yJZ2j9KJsF4ewjaYjkCSnVJbbQXyFxNVY6S7W4q/Z
XcmcgKVx1GIPlcxr4fcn/e2MW9nVvfNgYDpXSqVFrDMG31ChTdimpViWNsJ3kqVVmvLWnX7plh5/KwxDyZr/E2+
7P1oZ4nLcAEaozPTJ4QezSQfCHIykTccBFbqFVLu4wqjXnI3Fx4+jp/qnyfLHVhrwv0zRlDGRlRY0Zaj18biIba
6kP0qqslxnHR4W87xljU5Cx9Sb+mQ15W04a/PZuMyXo9+DkBdSaw8xTbLs8vxGnHY/TsDZQFQbXqPGeA3uOw==
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-Messag
eData-ChunkCount:X-MS-Exchange-AntiSpam-MessageData-0:X-MS-Exchange-AntiSpam-MessageDat
a-1;
bh=NQdOsbItFKW71N/RnlEYiS3/trzQcZnq5iuehP7Fjlc=;
b=ct1ZmX/QCqCExd64rnfbH3EHTOqug7wTAnmcYXgENV0QO3JHZscNvUF93y03LXiY6mTaJdSQWc8LKp56DOL2
2UsuahB/MmT+5apnR2sMlcJZV63hrAn6sT/Hhw+BCsumi1uzq709uHaD4SkIIFumrpKoR2o5ck76B3IdXNlJqGw
wnmelreSBvX3OFDVeY8/GkGVImlrCatGGccdUIPEp35tMPyt2PvCn182T9C9Ey11TrarBPfkQGRE/yTEfQB+ps2
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
 ([fe80::e44b:eac1:91a0:d382%4]) with mapi id 15.20.8048.020; Thu, 24 Oct 2024
 21:29:21 +0000
From: "tin.m.lai@lmco.com" <tin.m.lai@lmco.com>
To: "users@activemq.apache.org" <users@activemq.apache.org>
Subject: RE: EXTERNAL: Re: Artemis MQ 2.36.0 Load Balancing questions
Thread-Index: AdslhNHXCTR27xNPSNO5axrTDnWM8gAlAouAAAIUZAAABqZ8gAAE5e4AAAGiugAAAOPncA==
Date: Thu, 24 Oct 2024 21:29:21 +0000
Message-ID: <BN1P110MB08995413A599307F53CC05A2C24EA@BN1P110MB0899.NAMP110.PROD.OUTLOOK.
COM>
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