

Infrastructure - Bug #7314

CN can't fulfill the replication policy when we use the MN.updateSystemMetadata to add replication policy

2015-08-25 17:09 - Jing Tao

Status: Closed	Start date: 2015-10-02
Priority: Normal	Due date:
Assignee: Rob Nahf	% Done: 100%
Category: d1_synchronization	Estimated time: 0.00 hour
Target version: CCI-2.0.0	Story Points:
Milestone: None	
Product Version: *	

Description

We used MN.updateSystemMetadata to add those policy to the object tao13350.1:

urn:node:mnDemo5
urn:node:mnDemo8

We can see the policy was added to both MN and CN:
<https://mn-demo-6.test.dataone.org/knb/d1/mn/v2/meta/tao.13350.1>
<https://cn-dev-ucsb-1.test.dataone.org/cn/v2/meta/tao.13350.1>

But we got the NotFound on demo-5/8
<https://mn-demo-8.test.dataone.org/knb/d1/mn/v1/meta/tao.13350.1>
<https://mn-demo-5.test.dataone.org/knb/d1/mn/v1/meta/tao.13350.1>

Note: in the systemMetadata of cn, we can't see the replica part.

Subtasks:

Task # 7398: ensure that the replica section is added to systemMetadata on the cn durin... **Closed**

Associated revisions

Revision 16182 - 2015-08-26 07:33 - Rob Nahf

fixes #7314: systemMetadata updates were overwriting the replica sections of the CN systemMetadata. Refactored so that existing replica information from the CN is copied, and replica section of systemMetadata created if it's not there. Updated occurrences of TypeMarshaller.convert... to TypeFactory.convert (due to refactored d1_common_java)

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Revision 16243 - 2015-09-04 08:17 - Rob Nahf

refs: #7314, #7324: Removed restriction on dateSystemMetadtataModified field that was preventing update of an object. Added logic for rejecting updates if the CN is authoritative for the systemMetadata (v1 read-write nodes). Added missing business-rule validation on systemMetadata.

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History

#1 - 2015-08-25 18:13 - Rob Nahf

- Category set to *d1_synchronization*

#2 - 2015-08-26 07:52 - Rob Nahf

- Status changed from *New* to *In Progress*

- % Done changed from *0* to *30*

- Assignee set to *Rob Nahf*

the `V2TransferObjectTask.processUpdates` code neglected to preserve the existing replica information the CN held. Fixed it so it does, and restores replicas if the CN doesn't have a replica section in its copy of the `systemMetadata`.

Need to redeploy `d1_synchronization` to DEV, then try updating the object's `systemMetadata` again from the authoritativeMN. It should kick off replication for that object.

#3 - 2015-08-26 07:53 - Rob Nahf

- Tracker changed from *Task* to *Bug*

#4 - 2015-08-26 07:53 - Rob Nahf

- Status changed from *In Progress* to *Testing*

- % Done changed from *30* to *50*

#5 - 2015-08-26 12:14 - Rob Nahf

- Status changed from *Testing* to *Closed*

- % Done changed from *50* to *100*

Applied in changeset [d1-python:d1_python|r16182](#).

#6 - 2015-08-27 22:00 - Jing Tao

- % Done changed from *100* to *30*

- Status changed from *Closed* to *In Progress*

Hi Rob, I deployed the cns on `cn-dev-1` yesterday. However, the replica sections on the system metadata still doesn't show up:

<https://cn-dev-ucsb-1.test.dataone.org/cn/v2/meta/tao.13350.1>

And `mn-demo-5/8` don't have the replica:

<https://mn-demo-8.test.dataone.org/knb/d1/mn/v2/meta/tao.13350.1>

<https://mn-demo-8.test.dataone.org/knb/d1/mn/v2/meta/tao.13350.1>

#7 - 2015-08-31 22:29 - Jing Tao

Weird, I just inserted a new object and I can see the replica part:

<https://cn-dev-unm-1.test.dataone.org/cn/v2/meta/tao.13359.1>

However, for an object which was inserted a week ago, I still can see the replica part:

<https://cn-dev-unm-1.test.dataone.org/cn/v2/meta/tao.13350.1>

#8 - 2015-08-31 23:53 - Jing Tao

After more than one hour when I updated the system metadata by adding the replication policy, the replication policy still has been fulfilled.

#9 - 2015-09-29 20:07 - Jing Tao

For the object which I uploaded couple weeks ago, the replication policy hasn't been fulfilled:

<https://cn-dev-ucsb-1.test.dataone.org/cn/v2/meta/tao.13350.1>

For a object which I uploaded this morning, the sync hasn't happened:

<https://mn-demo-6.test.dataone.org/knb/d1/mn/v2/meta/tao.13361.1>

<https://cn-dev-ucsb-1.test.dataone.org/cn/v1/meta/tao.13361.1>

#10 - 2015-09-30 20:50 - Rob Nahf

still reporting problems. May be related to CN selection in d1_sync.

Jing reports the following:

<https://cn-dev-ucsb-1.test.dataone.org/cn/v2/meta/tao.13350.1>

<https://mn-demo-6.test.dataone.org/knb/d1/mn/v2/meta/tao.13361.1>

<https://cn-dev-ucsb-1.test.dataone.org/cn/v1/meta/tao.13361.1>

#11 - 2015-10-18 00:10 - Rob Nahf

- Status changed from *In Progress* to *Testing*

- % Done changed from 30 to 50

#12 - 2016-01-05 19:14 - Rob Nahf

- % Done changed from 50 to 100

- Status changed from *Testing* to *Closed*