Infrastructure - Story #2720

KNB, LTER, PISCO, ESA, SANPARKS roll out

2012-05-08 22:51 - Ben Leinfelder

Status:	Closed		**Start date:**	2012-05-08
Priority:	Urgent		**Due date:**	
Assignee:	Ben Leinfelder		**% Done:**	100%
Category:	Support Operations		**Estimated time:**	0.00 hour
Target version:	Sprint-2012.35-Block.5.2			
Story Points:				

Description

Here's the current plan of attack for upgrading all our MNs for the production release:
0. Stop traditional Metacat replication among MNs that will participate.
1a. Update existing access rules to only use 'allowFirst' - see sql script in Metacat project. This is a manual process and requires the admin to evaluate existing access blocks that might be using deny rules for some specific purpose. Analysis on the KNB shows that there are no meaningful rules used on that particular Metacat instance.
1b. Configure DOI prefixes for KNB, LTER, PISCO where appropriate. KNB will have entries for all three, LTER will have an entry for itself and for the KNB. PISCO need only have a DOI prefix for itself. (TBD: LTER needs to know about PISCO even though it has no direct replication relationship)
1c. This will generate DOIs for appropriate records (applies to KNB, LTER, and PISCO)
2. Upgrade Metacat 1.9.5 to 2.0.0 using the admin screens on each MN
2a. Generate SM for objects that originated on that MN (localhost/serverid=1 on the replication admin panel)
2b. Ensure replication policy for generated SM does not allow replication (numer_replicas = 0 is the default in metacat.properties)
3. Register the MNs with the CN. Only D1 synchronization will be running, not DataONE replication
3a. Wait for synchronization to complete for additional MNs that come on line (could be weeks)
4. When former replication partner MNs come online with their original content synched to the CNs we can set replication policies to allow replication for those objects (now that the known replicas are registered correctly with the CNs).
5. Generate SystemMetadata for objects that did not originate on the source MN (e.g., KNB can then generate SM for records that it houses from PISCO)
6. Audit task will eventually make sure MN SystemMetadata for replicas is updated to match the SM housed on the CN (with correct authoritatve MN information)

Please note that with this plan, MN system metadata will become stale when we set replication policy on the CN. We can call MN.systemMetadataChanged() for all ids when we are sure replication has processed all the objects.

Subtasks:

Task # 2721: Generate SystemMetadata only for original objects [initially]	**Closed**
Task # 2722: LTER - set up MN for staging	**Closed**
Task # 2723: Generate test certificate for urn:node:mnStageLTER	**Closed**
Task # 2858: DOI conversion procedure	**Closed**
Task # 2724: PISCO - set up stage server	**Closed**
Task # 2741: Generate urn:node:mnStagePISCO certificate	**Closed**
Task # 2773: Generate test.piscoweb.org certificate/key	**Closed**
Task # 2774: Generate ?.piscoweb.org certificate/key	**Closed**
Task # 2740: Extend Metacat's GenerateSystemMetadata to target specific replication tar...	**Closed**
Task # 2762: Add "generate now" button for each Metacat replication target in the admin...	**Closed**
Task # 2764: upgrade urn:node:mnStageUCSB1	**Closed**
Task # 2776: revert mnStageUCSB1 Metacat db to 1.9.5 and upgrade to 2.0.0	**Closed**
Task # 2765: upgrade urn:node:mnSandboxUCSB1	**Rejected**
Task # 2811: ESA - deploy skin on mnStageUCSB2	**Closed**
Task # 2812: OBFS - test skin	**Closed**
Task # 2813: NRS - test skin	**Closed**
Task # 2814: Email all existing KNB replica partners re: 2.0.0 upgrade	**Closed**
Task # 2742: Finalize DOI shoulders for PISCO, LTER, KNB	**Closed**
Task # 2857: Create DOI conversion script for LTER node	**Closed**
Task # 2880: SANParks MN upgrade	**Closed**

Task # 2883: Determine current SANParks replication setup		**Closed**
Task # 2884: Upgrade dataknp server software		**Closed**
Task # 2885: Upgrade SANParks to Metacat 2.0.0		**Closed**
Task # 2886: Register SANParks as MN		**Closed**
Task # 2887: Generate MN certificate for urn:node:SANPARKS		**Rejected**
Task # 2889: Consolidate the saeonocean.co.za and saeonmetacat.co.za replication server...		**Closed**
Task # 2979: Upgrade SANParks to Metacat 2.0.1		**Closed**
Task # 2980: Generate ORE map for EML packages on SANParks		**Closed**
Task # 2881: ESA + PARC MN upgrade		**Closed**
Task # 2888: Install Metacat pre-requisites		**Closed**
Task # 2845: Build new ESA server on mn-ucsb-2.dataone.org		**Closed**
Task # 2854: Email ESA admins about DNS switch		**Closed**
Task # 2903: Migrate postgres DB for ESA		**Closed**
Task # 2904: Migrate ESA documents/data directories to new server		**Closed**
Task # 2910: Set up ESA registry		**Closed**
Task # 2911: Transfer SSL certificates to ESA server		**Closed**
Task # 2846: Build new PARC server on mn-ucsb-2.dataone.org		**Closed**
Task # 2853: Email PARC admins about DNS change		**Closed**
Task # 2905: Migrate postgres DB for PARC		**Closed**
Task # 2906: Migrate PARC documents/data directories to new server		**Closed**
Task # 2912: Transfer SSL certificates to PARC server		**Closed**
Task # 2913: Configure Metacat->Metacat replication from PARC->KNB		**Closed**
Task # 2891: Copy existing Apache configurations to new site configs		**Closed**
Task # 2915: Install DataONE CA (ESA, PARC)		**Closed**
Task # 2981: Upgrade ESA to Metacat 2.0.1		**Closed**
Task # 2882: KNB MN upgrade		**Closed**
Task # 2892: Install Metacat prerequisites on KNB (mn-ucsb-3)		**Closed**
Task # 2893: Generate certificate for urn:node:KNB		**Rejected**
Task # 2894: Detail steps for moving postgres db to new KNB		**Closed**
Task # 2895: Detail steps for moving /var/metacat/* to new KNB		**Closed**
Task # 2897: Update and migrate static KNB content		**Closed**
Task # 2898: workflowscheduler and kepler		**Rejected**
Task # 2899: EMLParser webapp - migrate to new KNB host		**Closed**
Task # 2901: Migrate [most of] existing KNB Apache configuration to new host		**Closed**
Task # 2902: Move/deprecate/update "authority" LSID-resolution service		**Closed**
Task # 2918: LSID authority service error on init		**Closed**
Task # 2907: Configure NCEAS, OBFS, NRS registry		**Closed**
Task # 2908: Install NCEAS::AdminDB module		**Closed**
Task # 2909: Allow PG connections from new server to adminDB		**Closed**
Task # 2916: Install DataONE CA (new KNB)		**Closed**
Task # 2920: Transfer spatial cache to new server		**Closed**
Task # 2924: Switch DNS entries for KNB		**Closed**
Task # 2938: SystemMetadata has incomplete obsoletedBy information		**Closed**
Task # 2983: Upgrade KNB to Metacat 2.0.1		**Closed**
Task # 3006: Generate ORE maps for EML packages on KNB		**Closed**
Related issues:		
Related to Infrastructure - Task #2815: EZID - create script and sample DOI b...	**Closed**	**2012-05-24**

History

#1 - 2012-06-09 00:24 - Matthew Jones

- Category set to Support Operations

- Status changed from New to In Progress

- Target version set to Sprint-2012.23-Block.3.4

#2 - 2012-06-20 14:06 - Dave Vieglais

- Position set to 1

- Target version changed from Sprint-2012.23-Block.3.4 to Sprint-2012.25-Block.4.1

#3 - 2012-07-09 13:37 - Dave Vieglais

- Milestone changed from CCI-1.0.0 to CCI-1.0.2

- Target version changed from Sprint-2012.25-Block.4.1 to Sprint-2012.27-Block.4.2

#4 - 2012-07-09 14:20 - Dave Vieglais

- Position set to 1

- Position deleted (9)

#5 - 2012-07-09 15:37 - Dave Vieglais

- Milestone changed from CCI-1.0.2 to CCI-1.0.3

#6 - 2012-07-19 22:12 - Ben Leinfelder

- Position deleted (5)

- Position set to 1

- Target version changed from Sprint-2012.27-Block.4.2 to Sprint-2012.29-Block.4.3

#7 - 2012-07-31 00:31 - Dave Vieglais

- Milestone changed from CCI-1.0.3 to CCI-1.0.4

#8 - 2012-08-31 01:59 - Chris Jones

- Target version changed from Sprint-2012.29-Block.4.3 to Sprint-2012.37-Block.5.3

#9 - 2012-08-31 03:56 - Chris Jones

- Position deleted (8)

- Position set to 1

- Target version changed from Sprint-2012.37-Block.5.3 to Sprint-2012.35-Block.5.2

#10 - 2012-09-03 17:20 - Ben Leinfelder

- Status changed from In Progress to Closed

finally closing -- subtasks are all complete or moved to separate tickets.