

Infrastructure - Story #2036

Stress testing of components

2011-11-15 03:50 - Dave Vieglais

Status:	Closed	Start date:	2011-08-26
Priority:	High	Due date:	
Assignee:	Chris Jones	% Done:	100%
Category:	performance-scalability	Estimated time:	0.00 hour
Target version:	Sprint-2012.27-Block.4.2		
Story Points:			

Description

Stress testing of components helps define operational limits of the system and can identify areas of inefficiency.

Typical read operations:

- Each of the MN implementations should be evaluated, with emphasis on high access operations such as listObjects, getSystemMetadata, getChecksum, and get
- CN throughput for user facing operations should be tested - resolve, getSystemMetadata, get, isAuthorized, listObjects, search, getLogRecords, hasReservation

Typical CN operations:

- What is the rate of change to system metadata that can be sustained across three coordinating nodes?
- What is the rate of synchronization of new content that can be sustained?
- What is the typical range of latency for new science metadata to be fully propagated across CNs?

Should also consider failures - stress test until failure and observe how graceful or otherwise thing turn out.

Subtasks:

Task # 2705: Ensure replication queue can handle large numbers of pending tasks	Closed
Task # 2704: Ensure that sync queue can handle large MN syncs	Closed
Task # 1722: Stress test that uses certs and works against any MN	Closed

History

#1 - 2011-11-15 04:15 - Dave Vieglais

See also [#1444](#). Close that story if appropriate.

#2 - 2011-11-28 18:46 - Dave Vieglais

- Position set to 1
- Target version changed from Sprint-2011.46-Block.6 to Sprint-2011.49-Block.6

#3 - 2011-12-06 14:35 - Dave Vieglais

- Target version changed from Sprint-2011.49-Block.6 to Sprint-2011.50-Block.6
- Position set to 1
- Position deleted (17)

#4 - 2011-12-19 18:58 - Dave Vieglais

- Target version changed from Sprint-2011.50-Block.6 to Sprint-2011.51-Block.6
- Position changed from 1 to 329
- Position set to 1

- Position deleted (26)

#5 - 2012-01-04 18:49 - Dave Vieglais

- Position deleted (319)

- Position changed from 1 to 332

- Position set to 1

- Target version changed from Sprint-2011.51-Block.6 to Sprint-2012.01-Block.1.1

#6 - 2012-01-17 15:44 - Dave Vieglais

- Position deleted (345)

- Position changed from 1 to 350

- Position set to 1

- Target version changed from Sprint-2012.01-Block.1.1 to Sprint-2012.03-Block.1.2

#7 - 2012-01-17 15:44 - Dave Vieglais

- Position deleted (350)

- Position changed from 1 to 350

- Position set to 1

#8 - 2012-01-31 17:55 - Dave Vieglais

- Position set to 25

- Target version changed from Sprint-2012.03-Block.1.2 to Sprint-2012.05-Block.1.3

- Position deleted (351)

#9 - 2012-02-08 19:40 - Dave Vieglais

- Position set to 35

- Position deleted (40)

- Target version changed from Sprint-2012.05-Block.1.3 to Sprint-2012.07-Block.1.4

#10 - 2012-02-27 18:21 - Dave Vieglais

- Target version changed from Sprint-2012.07-Block.1.4 to Sprint-2012.09-Block.2.1

- Position set to 39

- Position deleted (58)

#11 - 2012-03-16 02:34 - Dave Vieglais

- Position deleted (67)

- Position set to 20

- Target version changed from Sprint-2012.09-Block.2.1 to Sprint-2012.11-Block.2.2

#12 - 2012-04-23 16:58 - Dave Vieglais

- Position deleted (44)

- Position set to 6

- Target version changed from Sprint-2012.11-Block.2.2 to Sprint-2012.17-Block.3.1

#13 - 2012-05-07 17:41 - Matthew Jones

- Target version changed from Sprint-2012.17-Block.3.1 to Sprint-2012.19-Block.3.2

- Assignee changed from Roger Dahl to Chris Jones

#14 - 2012-05-30 12:32 - Dave Vieglais

- *Position deleted (24)*
- *Target version changed from Sprint-2012.19-Block.3.2 to Sprint-2012.21-Block.3.3*
- *Position set to 3*

#15 - 2012-06-20 14:03 - Dave Vieglais

- *Milestone changed from CCI-1.0.0 to CCI-1.1*
- *Target version changed from Sprint-2012.21-Block.3.3 to Sprint-2012.27-Block.4.2*

#16 - 2012-08-31 01:53 - Chris Jones

- *Status changed from New to Closed*

Tasks are complete - closing this out.