

Infrastructure - Task #2722

Story # 2720 (Closed): KNB, LTER, PISCO, ESA, SANPARKS roll out

LTER - set up MN for staging

2012-05-08 23:37 - Ben Leinfelder

Status:	Closed	Start date:	2012-05-08
Priority:	Normal	Due date:	
Assignee:	Mark Servilla	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	Sprint-2012.35-Block.5.2	Story Points:	
Milestone:	CCI-1.0.0		
Product Version:	*		
Description			
<p>I've talked with Mark and Duane a bit about setting up lava.lternet.edu as a staging MN. Here are the general configuration instructions I've sent them.</p> <p>Hi Mark and Duane.</p> <p>I wanted to follow up with notes I took this morning about configuring lava.lternet.edu as a staging/sandbox DataONE member node.</p> <p>A) The pertinent DataONE configuration values for lava.lternet.edu are below. Some of them are just recommendations, but others must match what we configure the KNB staging node as. All these can be set in the Metacat Admin interface, except for the Coordinating Node setting which you'll have to edit manually <i>before</i> doing the rest of the Member node configuration otherwise you won't be communicating with the correct Coordinating Node.</p> <ul style="list-style-type: none">the DataONE Coordinating node we will be using: D1Client.CN_URL=https://cn-stage.dataone.org/cnthe location of the certificate we generate for you (attached) D1Client.certificate.file=/var/metacat/certs/urn_node_mnStageLTER.pem <p>-client certificate subject in that certificate: dataone.subject=CN=urn:node:mnStageLTER,DC=dataone,DC=org</p> <ul style="list-style-type: none">the contact subject (must be registered via the portal before use in the node registration -- you can use mine for now) dataone.contactSubject=CN=Benjamin Leinfelder A515,O=University of Chicago,C=US,DC=cilogon,DC=orgyour nodeId: dataone.nodeId=urn:node:mnStageLTERyour preferred replication policy (points to the KNB nodeId): dataone.replicationpolicy.default.preferredNodeList=urn:node:mnStageUCSB1 <p>B) For DOI generation/mapping you must configure these options before running through the 1.9.5->2.0.0 upgrade</p> <p>-enable it guid.assignGUIDs=true</p> <p>-your LTER server's shoulder for your documents: guid.ezid.doishoulder.1=doi:10.5072/FK2/LTER/</p> <p>C) For general instructions on setting up a Metacat MN deployment, the documentation has been updated to reflect most of this (though I can see there are some crucial changes regarding the nodeId that still need to be edited in these docs). You can see those here: http://dev-testing.dataone.org:8080/hudson/job/Metacat/javadoc/dataone.html</p>			
Subtasks:			
Task # 2723: Generate test certificate for urn:node:mnStageLTER			Closed
Task # 2858: DOI conversion procedure			Closed
Related issues:			

History

#1 - 2012-05-09 16:42 - Mark Servilla

I have gone through an initial setup using a clean Metacat 2.0.0 installation from <https://code.ecoinformatics.org/code/metacat/trunk/> on 9 May 2012. Building and installation succeed, but the web-based configuration fails with the following error:

@The following errors occurred. Please correct errors if possible or contact your system administrator or contact support at null

-- D1Admin.configureDataONE error: Need a valid certificate before request can be processed@

I have confirmed that the certificate is in the appropriate location and is still valid:

@Certificate:

Data:

Version: 3 (0x2)

Serial Number:

(Negative)09:33:a7:0b:0c:64:80:3f

Signature Algorithm: md5WithRSAEncryption

Issuer: C=US, ST=New Mexico, L=Albuquerque, O=DataONE, CN=DataONE CA/emailAddress=administrator@dataone.org

Validity

Not Before: Feb 29 21:41:29 2012 GMT

Not After : Mar 1 21:41:29 2112 GMT

Subject: DC=org, DC=dataone, CN=urn:node:mnStageLTER

Subject Public Key Info:

Public Key Algorithm: rsaEncryption

RSA Public Key: (1024 bit)

Modulus (1024 bit):

00:a1:4b:55:c8:1e:df:99:9b:c7:4c:8a:78:25:23:

d9:b8:a6:e8:76:e7:45:8e:c0:b4:af:a2:2f:a8:18:

a8:f9:da:99:7d:c9:bd:2d:2f:f8:4d:e7:c6:ec:54:

da:47:12:7b:fe:9a:6b:75:94:6f:55:f0:f7:db:9e:

e5:c5:c4:d2:74:27:e3:b4:8d:ca:4c:ef:2d:7c:d9:

d8:56:44:22:30:98:41:99:22:8d:22:d1:64:9a:f9:

64:6a:00:d4:95:10:61:ec:f5:fb:b2:d7:cb:4d:59:

d3:93:e4:5e:00:af:ca:5c:ba:27:08:36:ed:8f:45:

67:da:98:ae:4a:c0:6e:60:0b

Exponent: 65537 (0x10001)

X509v3 extensions:

X509v3 Basic Constraints: critical

CA:FALSE

X509v3 Key Usage: critical

Digital Signature, Key Encipherment, Data Encipherment

X509v3 Extended Key Usage:

TLS Web Client Authentication

X509v3 Authority Key Identifier:

keyid:14:B0:B4:ED:A1:90:8B:A2:8B:04:DC:7A:A1:2E:08:95:AA:93:BB:E0

DirName:/C=US/ST=New Mexico/L=Albuquerque/O=DataONE/CN=DataONE CA/emailAddress=administrator@dataone.org

serial:FD:E1:8F:68:21:4A:23:AE@

#2 - 2012-05-09 19:20 - Matthew Jones

Mark --

It looks like your certificate was not signed by the correct CA. The issuer for your certificate is:

C=US, ST=New Mexico, L=Albuquerque, O=DataONE, CN=DataONE CA/emailAddress=administrator@dataone.org

We've moved to a new Test CA that is identified with the subject:

DC=org, DC=dataone, CN=DataONE Test CA

So, you'll need a new certificate for testing (and another one for production, which I will be generating once we have the nodeids approved).

#3 - 2012-06-05 16:54 - Ben Leinfelder

updated the main instructions to use:

D1Client.CN_URL=<https://cn-stage.dataone.org/cn>

#4 - 2012-06-06 05:01 - Ben Leinfelder

removed configuration note for other servers' DOI shoulder - only the LTER shoulder should be used for LTER

#5 - 2012-07-06 01:46 - Mark Servilla

- *Status changed from New to In Progress*

Deployed a test server, tepui.lternet.edu, and successfully deployed Metacat 2.0.1, including all ancillary applications and configurations. This test server was a mirror image of the LTER production Metacat server and contained its full database of data package content. The server successfully upgraded from Metacat 1.9.5, registered as a DataONE MN in the CN-Stage environment and generated the appropriate system metadata. This server will be left status quo for the time being until full testing of additional DataONE components/configuration are performed (e.g., assignment/update of GUIDs with KNB/PISCO DOIs).

#6 - 2012-08-17 16:26 - Mark Servilla

- *Status changed from In Progress to Closed*

Testing for the server tepui.lternet.edu is now complete; this server will remain available for testing for a short period of time beyond this date.

A full production deployment of Metacat 2.x is also complete on tropical.lternet.edu (aka metacat.lternet.edu).