

Infrastructure - Task #2538

Story # 2527 (Closed): Verify AccessRights and ReplicationPolicy REST calls from Python CLI

Attempt to set replication policy fails using REST calls from Python CLI

2012-03-26 21:01 - Andrew Pippin

Status:	Closed	Start date:	2012-03-26
Priority:	Normal	Due date:	
Assignee:	Andrew Pippin	% Done:	100%
Category:	d1_cn_service	Estimated time:	0.00 hour
Target version:	Sprint-2012.11-Block.2.2	Story Points:	
Milestone:	CCI-1.0.0		
Product Version:	*		
Description Cannot change replication policy via the Python/REST api: DEBUG baseUrl: https://cn-dev-3.dataone.org/cn DEBUG operation: PUT /cn/v1/replicaPolicies/abp-20120326T1857Z DEBUG headers: {'Content-Length': 464, 'Charset': 'utf-8', 'Content-Type': 'multipart/form-data; boundary=-----6B3C785C-6290-11DF-A355-A6ECDDED72085_\$', 'Accept': 'application/xml', 'User-Agent': 'pyd1/1.0.0c4 + http://dataone.org/ } ERROR Unable to set replication policy on: abp-20120326T1857Z ERROR Error: ERROR ServiceFailure: No unmarshaller for element "{ http://ns.dataone.org/service/types/v1 }ReplicationPolicy" (line 1, col 142) MIME multi-part payload: -----6B3C785C-6290-11DF-A355-A6ECDDED72085_\$ Content-Disposition: form-data; name="serialVersion" 1 -----6B3C785C-6290-11DF-A355-A6ECDDED72085_\$ Content-Disposition: form-data; name="policy"; filename="policy.xml" Content-Type: application/xml <?xml version="1.0" ?> -----6B3C785C-6290-11DF-A355-A6ECDDED72085_\$--			
Related issues: Related to Infrastructure - Task #2539: Incorrect serial version being used f... <div>Closed2012-03-26</div>			

History

#1 - 2012-03-26 21:45 - Andrew Pippin

- Category changed from d1_client_cli to d1_cn_service
- Assignee changed from Andrew Pippin to Robert Waltz

I am receiving a "No unmarshalling for element...." error from the @/cn/v1/replicaPolicies@ REST endpoint (CNReplication.setReplicationPolicy(), http://mule1.dataone.org/ArchitectureDocs-current/apis/CN_APIs.html#CNReplication.setReplicationPolicy).

Same error using the Python client. Below is an example using cURL:

```
% curl -k -E ~/.ssh/pippin.pem --request PUT --trace trace.out \  
--form "policy=@rp.xml;filename=policy.xml;type=application/xml" \  
--form "serialVersion=@sv.txt" \  
https://cn-dev-3.dataone.org/cn/v1/replicaPolicies/abp-20120326T1857Z  
<?xml version="1.0" encoding="UTF-8"?>
```

No unmarshaller for element "{<http://ns.dataone.org/service/types/v1>}ReplicationPolicy" (line 1, col 142)

Replication policy (@rp.txt@):

<?xml version="1.0" ?>

Serial version (@sv.txt@):

10

#2 - 2012-03-27 00:35 - Andrew Pippin

- Assignee changed from Robert Waltz to Andrew Pippin

Robert noticed that the XML was serializing incorrectly: "@<ns1:ReplicationPolicy@ ..." instead of "@<ns1:replicationPolicy@ ..."

Roger showed me that PyXB has a quirk in that it assigns the element name based on how the constructor is called. I was invoking "@dataoneTypes.ReplicationPolicy()@" instead of "@dataoneTypes.replicationPolicy()@". Changed that and it started serializing correctly.

Python API call now works correctly.

#3 - 2012-03-27 00:42 - Andrew Pippin

- Status changed from New to Closed

- % Done changed from 0 to 100

Closing.