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## Cannot Diagnose Neo4j REST API Inquiry Failure

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I'm messing with some code in Scala (2.9.2) to query a neo4j (2.2.0) server using REST API via Jersey (1.19) and Cypher. My first transaction succeeds (HTTP 200) returning some nice XHTML. The second more involved transaction containing a valid Cypher query returns 405 with no data or message. It causes a stack dump in the server log. The same query succeeds via the console to the same server. I don't know how to proceed to diagnose the problem. Details follow:

Here is the transaction and result via Cypher console:

```
neo4j-sh (?)$ match (p)-[r]->(n) where n.number = '15' return p,r,n;
+-----+
| p | r |
+-----+
| Node[1451]{name:"Elizabeth Maher Muoio"} | :REPRESENTS[1725]{inHouse:"Assembly"} |
| Node[1450]{name:"Reed Gusciora"} | :REPRESENTS[1724]{inHouse:"Assembly"} |
| Node[1449]{name:"Shirley K. Turner"} | :REPRESENTS[1723]{inHouse:"Senate"} |
+-----+
3 rows
24 ms
```

Here is the Scala snippet:

```
val n4url = "http://dev.cosi.com:7474/db/data/"

// Make a client...
val c = Client.create // Uses jersey 1.19
//val cl = c.getClass.getName; println("cl: "+cl);
c.addFilter(new HTTPBasicAuthFilter("neo4j","connected"))

// Dumb test of comms w server...
val resource = c.resource(n4url)
val response = resource.get(classOf[ClientResponse])
printf("\nGET on [%s], status code [%d]\n%s\n",n4url,response.getStatus(),
response.getEntity(classOf[String]))
response.close

println("\n=== MOVING ALONG TO REAL INQUIRY ===")
val inq = n4url+"transaction/commit"
val res2 = c.resource(inq)
val query = "match (p)-[r]->(n) where n.number = '15' return p,r,n"
val payload = "{\"statements\" : [ {\"statement\" : \"" + query + "\"} ]}";
val resp2 = resource.
  accept(MediaType.APPLICATION_JSON).
  `type`(MediaType.APPLICATION_JSON).
  entity(payload).
  post(classOf[ClientResponse])
printf("POST [%s] to [%s], status code [%d], returned data: " +
System.getProperty("line.separator") + "%s\n",
payload,inq,resp2.getStatus(),resp2.getEntity(classOf[String]))
resp2.close
```

Here is the output of the Scala program:

asked 4 months ago

viewed 44 times

active 4 months ago











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Here is the output of the Scala program.

```
GET on [http://dev.cosi.com:7474/db/data/], status code [200]
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR
<html><head><title>Root</title><meta content="text/html; charset=utf-8" http-equiv="
<link href='http://resthtml.neo4j.org/style/rest.css' rel='stylesheet' type='text/css'
<script type='text/javascript' src='/webadmin/htmlbrowse.js'></script>
</head>
<body onload='javascript:neo4jHtmlBrowse.start();' id='root'>
<div id='content'><div id='header'><h1><a title='Neo4j REST interface' href='/'><spa
<div id='page-body'>
<table class="root"><caption>Root</caption>
<tr class='odd'><th>relationship_index</th><td><a href="http://dev.cosi.com:7474/db/
<tr><th>node_index</th><td><a href="http://dev.cosi.com:7474/db/data/index/node">ht
</table>
<div class='break'>&nbsp;</div></div></div></div></body></html>

=== MOVING ALONG TO REAL INQUIRY ===
POST [{"statements" : [ {"statement" : "match (p)-[r]->(n) where n.number = '15' ret
```

Here is the server log fragment:

```
FINE: Mapped exception to response: 405
javax.ws.rs.WebApplicationException
    at com.sun.jersey.server.impl.uri.rules.TerminatingRule.accept(TerminatingRu
    at com.sun.jersey.server.impl.uri.rules.ResourceClassRule.accept(ResourceCla
    at com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPa
    at com.sun.jersey.server.impl.uri.rules.RootResourceClassesRule.accept(RootR
    at com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(
    at com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(
    at com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(W
    at com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(W
    at com.sun.jersey.spi.container.servlet.WebComponent.service(WebComponent.ja
    at com.sun.jersey.spi.container.servlet.ServletContainer.service(ServletCont
    at com.sun.jersey.spi.container.servlet.ServletContainer.service(ServletCont
    at javax.servlet.http.HttpServlet.service(HttpServlet.java:790)
    at org.eclipse.jetty.servlet.ServletHolder.handle(ServletHolder.java:800)
    at org.eclipse.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHand
    at org.neo4j.server.rest.dbms.AuthorizationFilter.doFilter(AuthorizationFilt
    at org.eclipse.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHand
    at org.eclipse.jetty.servlet.ServletHandler.doHandle(ServletHandler.java:585
    at org.eclipse.jetty.server.session.SessionHandler.doHandle(SessionHandler.j
    at org.eclipse.jetty.server.handler.ContextHandler.doHandle(ContextHandler.j
    at org.eclipse.jetty.servlet.ServletHandler.doScope(ServletHandler.java:515)
    at org.eclipse.jetty.server.session.SessionHandler.doScope(SessionHandler.ja
    at org.eclipse.jetty.server.handler.ContextHandler.doScope(ContextHandler.ja
    at org.eclipse.jetty.server.handler.ScopedHandler.handle(ScopedHandler.java:
    at org.eclipse.jetty.server.handler.HandlerList.handle(HandlerList.java:52)
    at org.eclipse.jetty.server.handler.HandlerWrapper.handle(HandlerWrapper.jav
    at org.eclipse.jetty.server.Server.handle(Server.java:497)
    at org.eclipse.jetty.server.HttpChannel.handle(HttpChannel.java:310)
    at org.eclipse.jetty.server.HttpConnection.onFillable(HttpConnection.java:24
    at org.eclipse.jetty.io.AbstractConnection$2.run(AbstractConnection.java:540)
    at org.eclipse.jetty.util.thread.QueuedThreadPool.runJob(QueuedThreadPool.ja
    at org.eclipse.jetty.util.thread.QueuedThreadPool$3.run(QueuedThreadPool.jav
    at java.lang.Thread.run(Thread.java:745)
```

scala rest neo4j

share improve this question

asked Mar 27 at 13:49

 Bill Michaelson  
50 ● 6

also your query should include a label for `n` and you should have an index on `:Label(number)` –  
Michael Hunger Mar 28 at 21:23

Well, it's just for experimentation and it did achieve the desired result, but I appreciate your answer. Is that for performance reasons, or are there other considerations? Thanks. – Bill Michaelson Mar 29 at 12:25















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1 Answer

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I referenced the wrong ClientResponse object in the second inquiry. Fixed by changing:

```
1 val resp = resource
```

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