Monitoring Neo4J

Create some nodes

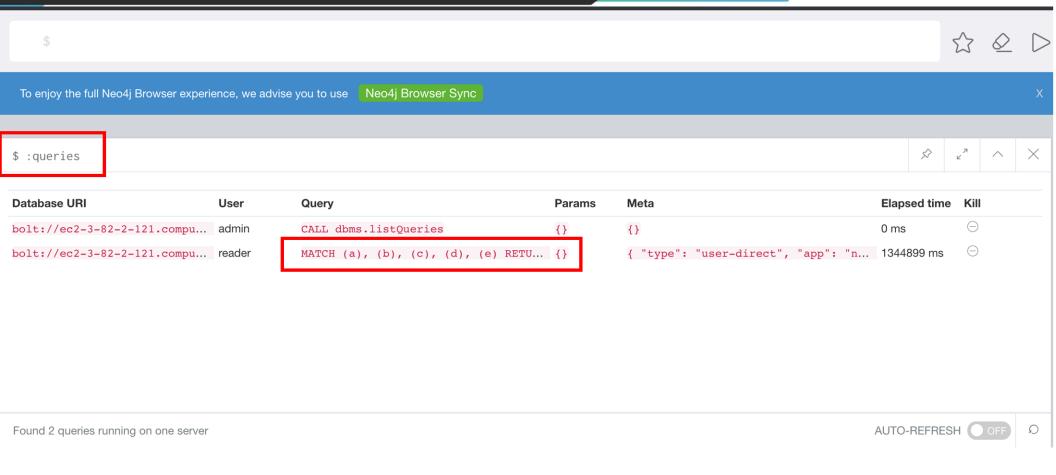
cypher-shell -u neo4j -p secret -d neo4j --format plain

- :use neo4j;
- MATCH (n) DETACH DELETE n;
- #Create some records
- FOREACH (i IN RANGE(1,200) | CREATE (:Person {name:'Person' + i}));

Exercise: Monitoring queries

- cypher-shell -u neo4j -p secret -d neo4j --format plain
 - #Execute a query that runs for longer than 1000 ms:
 - MATCH (a), (b), (c), (d) RETURN count(id(a));

Viewing currently running queries



Killing a long-running query



Found 2 queries running on one server

AUTO-REFRESH



Automating monitoring of queries

- Automate the killing of long-running queries:
 - CALL dbms.listQueries() YIELD query, elapsedTimeMillis, queryId, username
 - WHERE NOT query CONTAINS toLower('LOAD')
 - AND elapsedTimeMillis > 1000
 - WITH query, collect(queryld) AS q
 - CALL dbms.killQueries(q) YIELD queryId
 - RETURN query, queryld;

Monitoring connections

- Can view the current connections to a Neo4j instance from cypher-shell
 - Call dbms.listConnections();

```
neo4j> call dbms.listConnections();
  connectionId | connectTime
                                                                          userAgent
                                                                                                                                           serverAddress
                                                                                                                                                                   clientAddress
                                               connector
  "bolt-97"
                 "2019-02-19T20:35:30.513Z"
                                                                           "neo4j-javascript/1.7.2"
                                                                                                                                                                   "216.45.71.93:57415"
                                               "bolt"
                                                            "admin"
                                                                                                                                           "172.31.24.255:7687"
  "bolt-840"
                 "2019-02-19T21:58:04.65Z"
                                               "bolt"
                                                            "publisher"
                                                                           "neo4j-java/1.7.2-7165cef0d4b602da30b65613977744ad661c2e67'
                                                                                                                                           "127.0.0.1:7687"
                                                                                                                                                                   "127.0.0.1:40344"
  "bolt-779"
                                                                           "neo4j-java/dev"
                 "2019-02-19T21:52:05.978Z"
                                               "bolt"
                                                            "admin"
                                                                                                                                           "127.0.0.1:7687"
                                                                                                                                                                   "127.0.0.1:40338"
  "bolt-839"
                 "2019-02-19T21:58:04.358Z"
                                               "bolt"
                                                            "publisher"
                                                                           "neo4j-java/1.7.2-7165cef0d4b602da30b65613977744ad661c2e67"
                                                                                                                                           "127.0.0.1:7687"
                                                                                                                                                                   "127.0.0.1:40340"
4 rows available after 1 ms, consumed after another 0 ms
```

- Terminate the connection
 - dbms.killConnection()

