NBD Assignment 7 – RIAK

On school VMs Riak starts automatically (single instance, port 8090). Solution should be sent as a single text file containing curl commands plus one text file containing server responses for each task (with headers, so use -i switch in curl)

**1. Add 5 documents to the database (use your s# number for bucket name), each document should be a json with 4 fields of at least two different types**

curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"shoes", "price":12.3, "quantity":3, color":"black"}'

[http://localhost:8098/buckets/s21549/keys/One](http://localhost:8098/buckets/s16539/keys/One)

curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"glasses", "price":20.2, "quantity":4, color":"white"}'

[http://localhost:8098/buckets/](http://localhost:8098/buckets/s16539/keys/Two)[s21549](http://localhost:8098/buckets/s16539/keys/One)[/keys/Two](http://localhost:8098/buckets/s16539/keys/Two)

curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"trousers", "price":39.1, "quantity":2, color":"blue"}'

http://localhost:8098/buckets/[s21549](http://localhost:8098/buckets/s16539/keys/One)/keys/Three

curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"T-shirt", "price":25.8, "quantity":5, color":"yellow"}'

http://localhost:8098/buckets/[s21549](http://localhost:8098/buckets/s16539/keys/One)/keys/Four

curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"socks", "price":3.5, "quantity":7, color":"red"}'

http://localhost:8098/buckets/[s21549](http://localhost:8098/buckets/s16539/keys/One)/keys/Five

HTTP/1.1 204 No Content

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date: Tue, 19 Jan 2021 18:06:17 GMT

Content-Type: application/json

Content-Length: 0

HTTP/1.1 204 No Content

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date: Tue, 19 Jan 2021 18:06:17 GMT

Content-Type: application/json

Content-Length: 0

HTTP/1.1 204 No Content

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date: Tue, 19 Jan 2021 18:06:17 GMT

Content-Type: application/json

Content-Length: 0

HTTP/1.1 204 No Content

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date: Tue, 19 Jan 2021 18:06:17 GMT

Content-Type: application/json

Content-Length: 0

HTTP/1.1 204 No Content

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date: Tue, 19 Jan 2021 18:06:17 GMT

Content-Type: application/json

Content-Length: 0

**2. Retrieve one of your documents from the db**

Curl -i http://localhost:8098/buckets/s21549/keys/One

{"name":"shoes", "price":12.3, "quantity":3, color":"black"}

HTTP/1.1 200 OK

X-Riak-Vclock: a85hYGBgzGDKBVI8ypz/fsYwHX/CwKAumMGUKJjHyiCpEH2dLwsA

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Link: </buckets/s21549>; rel="up"

Last-Modified: Date: Tue, 19 Jan 2021 18:10:17 GMT

ETag: "6U8oEpkUlaAoOt36ua3enV"

Date: Tue, 19 Jan 2021 18:10:17 GMT

Content-Type: application/json

Content-Length: 60

**3. Modify one of your documents by adding a new field to the document**

curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"shoes", "price":12.3, "quantity":3, color":"black", “size”:43}'

<http://localhost:8098/buckets/s21549/keys/One>

HTTP/1.1 204 No Content

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date: Tue, 19 Jan 2021 18:11:39 GMT

Content-Type: application/json

Content-Length: 0

**4. Modify one of your documents by deleting one field**

curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"shoes", "price":12.3, "quantity":3, color":"black"}'

<http://localhost:8098/buckets/s21549/keys/One>

HTTP/1.1 204 No Content

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date: Tue, 19 Jan 2021 18:12:47 GMT

Content-Type: application/json

Content-Length: 0

**5. Modify one of your documents by changing the value of its fields**

curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"shoes", "price":122.3, "quantity":333, color":"dark"}'

http://localhost:8098/buckets/s21549/keys/One

HTTP/1.1 204 No Content

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date: Tue, 19 Jan 2021 18:14:07 GMT

Content-Type: application/json

Content-Length: 0

**6. Remove one document from the db**

curl -i -XDELETE http://localhost:8098/buckets/s21549/keys/One

HTTP/1.1 204 No Content

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date: Tue, 19 Jan 2021 18:15:15 GMT

Content-Type: application/json

Content-Length: 0

**7. Try to retrieve non-existent document from the db**

curl -i http://localhost:8098/buckets/s21549/keys/One

not found

HTTP/1.1 404 Object Not Found

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date: Tue, 19 Jan 2021 18:16:26 GMT

Content-Type: text/plain

Content-Length: 10

**8. Add one json document to the db without specifying key under which it should be stored**

curl -i -H "Content-Type: application/json" -d '{"name":"shoes", "price":12.3, "quantity":3, color":"black"}'

http://localhost:8098/buckets/s21549/keys

HTTP/1.1 201 Created

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Location: /buckets/s21549/keys/9QszTCShVaP5ji9l7uqOoGI1lp

Date: Tue, 19 Jan 2021 18:32:59 GMT

Content-Type: application/json

Content-Length: 0

**9. Retrieve document from task 8 from the db**

curl -i http://localhost:8098/buckets/s21549/keys/9QszTCShVaP5ji9l7uqOoGI1lp

{"name":"shoes", "price":12.3, "quantity":3, color":"black"}

HTTP/1.1 200 OK

X-Riak-Vclock: a85hYGBgzGDKBVI8ypz/fsZw73JjYBQszGBKZMxjZbhdHnOdLwsA

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Link: </buckets/s21549>; rel="up"

Last-Modified: Tue, 19 Jan 2021 18:32:59 GMT

ETag: "1NAtAgEGRiRbZrDLHwUu3y"

Date: Tue, 19 Jan 2021 18:38:14 GMT

Content-Type: application/json

Content-Length: 60

**10. Delete document from task 8 from the db**

**curl -i -XDELETE**

http://localhost:8098/buckets/s21549/keys/9QszTCShVaP5ji9l7uqOoGI1lp

HTTP/1.1 204 No Content

Vary: Accept-Encoding

Server: MochiWeb/1.1 WebMachine/1.10.9 (cafe not found)

Date:Tue, 19 Jan 202118:42:09 GMT

Content-Type: application/json

Content-Length: 0