# 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":"lemons", "price":5.4, "quantity":3, color":"yellow"}' http://localhost:8098/buckets/s18716/keys/First**

**curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"mushrooms", "price":20.2, "quantity":4, color":"white"}' http://localhost:8098/buckets/s18716/keys/Second**

**curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"onions", "price":39.1, "quantity":2, color":"blue"}' http://localhost:8098/buckets/s18716/keys/Third**

**curl -i -XPUT -H "Content-Type: application/json" -d '{"name":zucchini", "price":25.8, "quantity":5, color":"green"}' http://localhost:8098/buckets/s18716/keys/Fourth**

**curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"apples", "price":3.5, "quantity":7, color":"red"}' http://localhost:8098/buckets/s18716/keys/Fifth**

HTTP/1.1 204 No Content

Vary: Accept-Encoding

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

Date: Sat, 14 Dec 2019 13:11:21 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: Sat, 14 Dec 2019 13:11:21 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: Sat, 14 Dec 2019 13:11:21 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: Sat, 14 Dec 2019 13:11:21 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: Sat, 14 Dec 2019 13:11:21 GMT

Content-Type: application/json

Content-Length: 0

1. Retrieve one of your documents from the db

**Curl -i http://localhost:8098/buckets/s18716/keys/First**

{"name":"lemons", "price":5.4, "quantity":3, color":"yellow"}

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/s18716>; rel="up"

Last-Modified: Sat, 14 Dec 2019 13:11:21 GMT

ETag: "6U8oEpkUlaAoOt36ua3enV"

Date: Sat, 14 Dec 2019 13:07:37 GMT

Content-Type: application/json

Content-Length: 60

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

**curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"lemons", "price":5.4, "quantity":3, color":"yellow", “size”:43}' http://localhost:8098/buckets/s18716/keys/First**

HTTP/1.1 204 No Content

Vary: Accept-Encoding

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

Date: Sat, 14 Dec 2019 13:11:39 GMT

Content-Type: application/json

Content-Length: 0

1. Modify one of your documents by deleting one field

**curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"lemons", "price":5.4, "quantity":3, color":"yellow"}' http://localhost:8098/buckets/s18716/keys/First**

HTTP/1.1 204 No Content

Vary: Accept-Encoding

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

Date: Sat, 14 Dec 2019 13:12:47 GMT

Content-Type: application/json

Content-Length: 0

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

**curl -i -XPUT -H "Content-Type: application/json" -d '{"name":"lemons", "price":122.3, "quantity":333, color":"dark"}' http://localhost:8098/buckets/s18716/keys/First**

HTTP/1.1 204 No Content

Vary: Accept-Encoding

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

Date: Sat, 14 Dec 2019 13:14:07 GMT

Content-Type: application/json

Content-Length: 0

1. Remove one document from the db

**curl -i -XDELETE http://localhost:8098/buckets/s18716/keys/First**

HTTP/1.1 204 No Content

Vary: Accept-Encoding

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

Date: Sat, 14 Dec 2019 13:15:15 GMT

Content-Type: application/json

Content-Length: 0

1. Try to retrieve non-existent document from the db

**curl -i http://localhost:8098/buckets/s18716/keys/First**

not found

HTTP/1.1 404 Object Not Found

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

Date: Sat, 14 Dec 2019 13:16:26 GMT

Content-Type: text/plain

Content-Length: 10

1. 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":"lemons", "price":5.4, "quantity":3, color":"yellow"}' http://localhost:8098/buckets/s18716/keys**

HTTP/1.1 201 Created

Vary: Accept-Encoding

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

Location: /buckets/s18716/keys/9QszTCShVaP5ji9l7uqOoGI1lp

Date: Wed, 04 Dec 2019 13:32:59 GMT

Content-Type: application/json

Content-Length: 0

1. Retrieve document from task 8 from the db

**curl -i http://localhost:8098/buckets/s18716/keys/9QszTCShVaP5ji9l7uqOoGI1lp**

{"name":"lemons", "price":5.4, "quantity":3, color":"yellow"}

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/s18716>; rel="up"

Last-Modified: Wed, 04 Dec 2019 13:32:59 GMT

ETag: "1NAtAgEGRiRbZrDLHwUu3y"

Date: Wed, 04 Dec 2019 13:38:14 GMT

Content-Type: application/json

Content-Length: 60

1. Delete document from task 8 from the db

**curl -i -XDELETE http://localhost:8098/buckets/s18716/keys/9QszTCShVaP5ji9l7uqOoGI1lp**

HTTP/1.1 204 No Content

Vary: Accept-Encoding

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

Date: Wed, 04 Dec 2019 13:42:09 GMT

Content-Type: application/json

Content-Length: 0