

Workshop 2 – Using Couchbase

Agenda



- Using Query Workbench / cbq
- Using the REST API
- Using the SDK (.NET / Java / Node)



Open source FTW

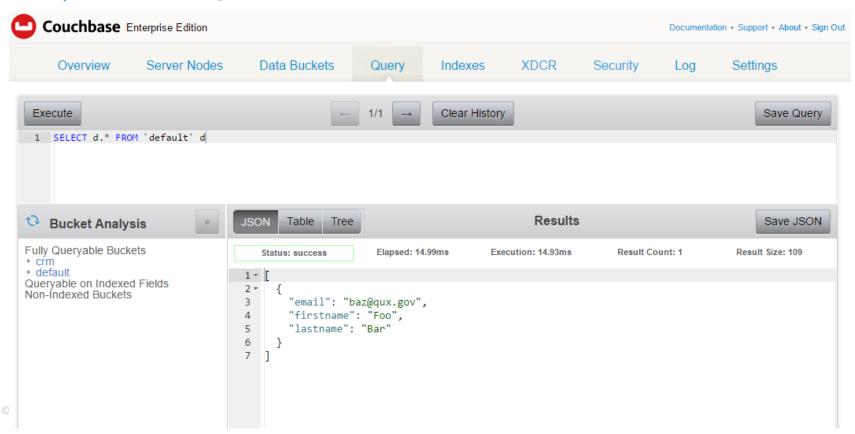


- https://github.com/couchbaselabs/workshop
- If you find a typo, mistake, or spot an improvement, please send a pull request!

Query Workbench



http://localhost:8091



cbq



- Command Line N1QL tool
- Windows: C:\Program Files\Couchbase\Server\bin
- OS X: /Applications/Couchbase
 Server.app/Contents/Resources/couchbase-core/bin
- Linux: /opt/couchbase/bin/cbq
- Docker: docker exec -it db /bin/bash

REST API



REST API documentation:

http://developer.couchbase.com/documentation/server/4.5//rest-api/rest-intro.html

Cluster details: http://localhost:8091/pools/default

REST API



- Cluster
- Nodes
- Server Group
- Buckets
- Indexes
- Views
- XDCR
- Compaction
- Log
- User/Security
- N1QL

Exercise 1: N1QL



Create a primary index on default bucket

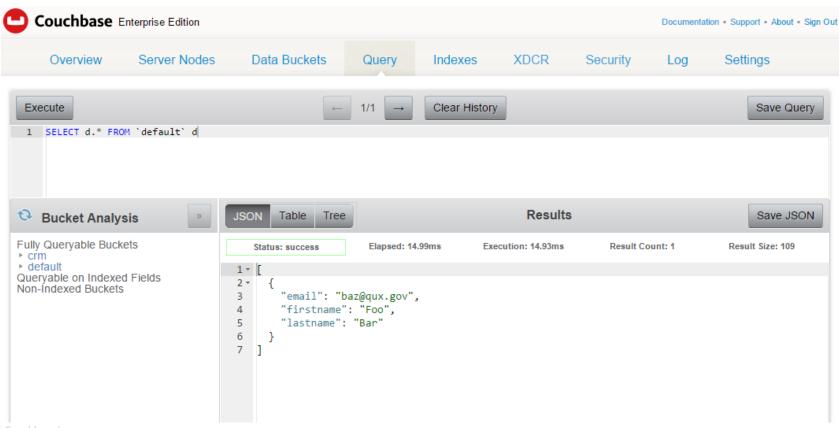
CREATE PRIMARY INDEX on 'default'

- Add document(s) to default bucket
 - Use "Create Document" button in Documents view
- SELECT documents

SFLECT d.* FROM 'default' d

Query Workbench





Exercise 2: REST API



Cluster details: http://localhost:8091/pools/default

/pools/default



```
"storageTotals": {
      "ram": {
            "total": 2061664256,
            "quotaTotal": 268435456,
            "quotaUsed": 209715200,
            "used": 1674903552,
            "usedByData": 119026504,
            "quotaUsedPeraNode": 209715200,
            "quotaTotalPerNode": 268435456
      },
      "hdd": {
            "total": 59151257600,
            "quotaTotal": 59151257600,
            "used": 1183025152,
            "usedByData": 130504611,
            "free": 57968232448
},
"ftsMemoryQuota": 256,
"indexMemoryQuota": 512,
"memoryQuota": 256,
"name": "default",
"alerts": [],
                                     // etc....
```

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Exercise 3: Using SDK in "Hello World"



- https://github.com/couchbaselabs/workshop/tree/master/connect2016/developer/02
- dotnet
- java
- node
- Insert document(s)
- Select documents with N1QL
- Fill in the blanks: look for "TODO"

SDK: .NET



- How to install
 - NuGet: Install-Package CouchbaseNetClient
- How to connect to a Couchbase cluster.

```
//connecting to a Couchbase cluster
var config = new ClientConfiguration();
config.Services = new List<Uri> { "couchbase://localhost" };
ClusterHelper.Initialize(config);

//opening a bucket in the cluster
_bucket = ClusterHelper.GetBucket("travel-sample", "password");

//preparing N1ql
var myQuery = QueryRequest.Create("SELECT * FROM `travel-sample`");

//creating and saving a Document
var document = new Document
var document = new Document
(Id = "123", Content = new MyType() };
_bucket.Insert(document);
```

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SDK: Node



- How to install
 - npm install couchbase
- How to connect to a Couchbase cluster

```
//including the Node.js dependency
var Couchbase = require("couchbase");

//connecting to a Couchbase cluster
var cluster = new Couchbase.Cluster("couchbase://localhost:8091");

//opening a bucket in the cluster
var myBucket = cluster.openBucket("travel-sample", "password");

//preparing N1ql
var myQuery = Couchbase.N1qlQuery();

//creating and saving a Document
var document = { firstname: "Matt", lastname: "Groves" };

@2016 CouchbaseInc.myBucket.insert("my-key", document, function(error, result) {});
```

SDK: Java



- How to install
 - Edit the pom.xml file
- How to connect to a Couchbase cluster



Questions