

# Exercise 1 - Working with Couchbase Documents

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## Exercise 1.a

In your Terminal change directories to the `build-your-first-couchbase-application/exercises/`

Start a Lucee server by running `box server start`

This will launch your default web browser with the `exercises` directory as the root. Click on [Exercise 1 - Working with Couchbase Documents](#)

Browse around the site and look at all of the different sections that you will be creating

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## Exercise 1.b

As with any database we need to make a connection to the database. With couchbase we will create a connection the the `default` bucket and maintain that connection in the application scope.

Add the following code to the `onRequestStart` method in `Application.cfc`

```
// create a connection to the default bucket if it does not already exist
if(!structKeyExists(application, "couchbase")){
    application['couchbase'] = new cfscouchbase.CouchbaseClient({
        'servers' = ["http://127.0.0.1:8091"],
        'bucketName' = "default"
    });
}
```

We need to make sure that when our application is shutting down that we close the connections to the Couchbase bucket at the same time. Add the following to the `onApplicationEnd` method in

`Application.cfc`

```
// if the couchbase connection is present close it's connections
if(structKeyExists(arguments.appScope, "couchbase")){
    application.couchbase.shutdown( 10 );
}
```

## Exercise 1.c

Now that you have made a connection to `default` bucket on your Couchbase Server.

Lets create and retrieve some documents. Navigate to </exercises/exercise1/console.cfm> in your browser.

Document ID's should be all lowercase, with only letters, numbers, underscores, dashes and colons with a maximum length of 256 characters. The document content must be valid JSON.

## Exercise 1.d

Before building the rest of our site we need to populate our default bucket with some data.

In your Terminal change directories to the Couchbase server directory

### Mac OS X

```
cd /Applications/Couchbase Server.app/Contents/Resources/couchbase-core/bin
```

### Windows

```
C:\Program Files\Couchbase\Server\bin
```

Import / Restore the database. Replace `[FULL_PATH_TO_FILES]` with the directory that you copied the files into.

### Mac OS X

```
./cbrestore ~/[FULL_PATH_TO_FILES]/build-your-first-couchbase-application/data/backup/ http://127.0.0.1:8091 --bucket-source default
```

### Windows

```
cbrestore C:[FULL_PATH_TO_FILES]\build-your-first-couchbase-application\data\backup\ http://127.0.0.1:8091 --bucket-source default
```

Verify that the data was imported by going to the Couchbase Server Admin Console <http://127.0.0.1:8091/> and browse to [Data Buckets](#). You should see 149,270 documents in the default bucket.