

Put data into a database from your Node.js Application

- 1 In your web browser, go to IBM Bluemix™ at <https://ibm.biz/bluemix4kids> and LOG IN.
- 2 On a separate tab in your browser, go to DevOps Services [rewillen | NodeJS Simple 3](#).
Note: if you are working from a hardcopy type: <https://ibm.biz/nodejs3> or EXPLORE for “rewillen”
- 3 Click on EDIT CODE
- 4 FORK the Application, Enter a Name for your project, and Save.
- 5 Click on [app.js](#) to open the code for the application.
- 6 Find the `client.incrby` line. This is the statement that is incrementing a `DBuserCountBy1` variable in Redis, and returning the updated value in a variable, `replyBy1`.
- 7 Add a second Redis counter, `DBuserCountBy2`. Use another `client.incrby` statement to increment it by 2, and return the value in a new variable, `replyBy2`. To ensure that the calls to Redis are synchronized, this statement needs to be nested inside the increment of the `DBuserCountBy1`. Be sure to add the closing `}` also.

```
56     client.incrby("DBuserCountBy1", 1, function (err, replyBy1) {  
57         client.incrby("DBuserCountBy2", 2, function (err, replyBy2) {
```

- 8 Next, update the render to also pass the `DBuserCountBy2` which was returned in the `replyBy2` variable from the Redis function call.

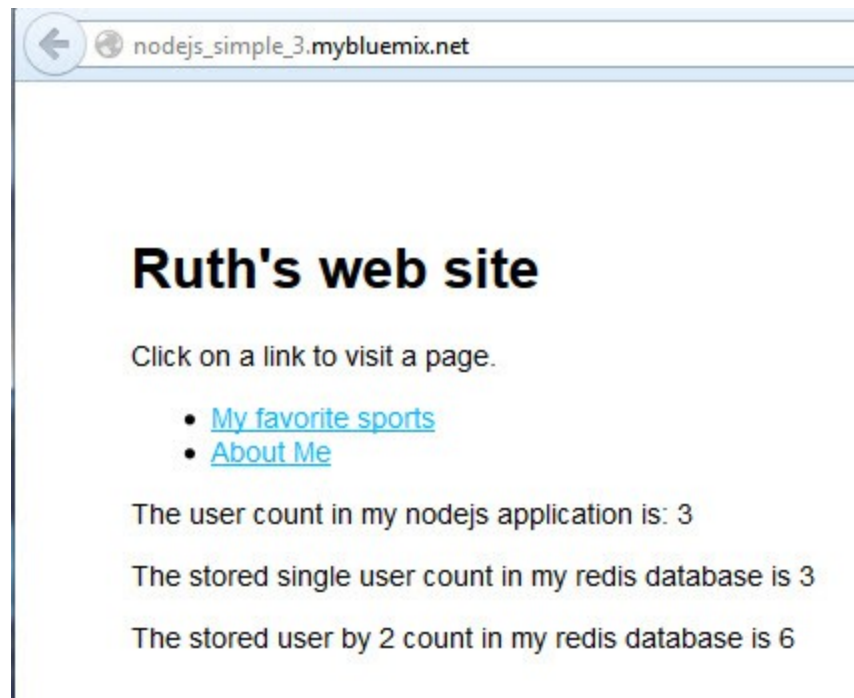
```
res.render('index', {userCount: userCount, DBuserCountBy1: replyBy1, DBuserCountBy2: replyBy2});
```

Your `app.get` code block should now look like this:

```
53 app.get('/', function(req, res) {  
54     userCount = userCount + 1;  
55     // Increment the value in the database and render the results  
56     client.incrby("DBuserCountBy1", 1, function (err, replyBy1) {  
57         client.incrby("DBuserCountBy2", 2, function (err, replyBy2) {  
58             res.render('index', {userCount: userCount, DBuserCountBy1: replyBy1, DBuserCountBy2: replyBy2});  
59         });  
60     });  
61 });
```

- 9 In the views directory, open `index.ejs`.
- 10 Update the `index.ejs` HTML page to render to `DbuserCountBy2` like this: `<p>The stored user count by two in my redis database is <%= DBuserCountBy2 %></p>`.

11 **DEPLOY** the application and use Manual Deployment like you did on card 1. You should see your changes in the browser. Hit the refresh button.



12 There are a lot of things you can now do on your own. I'll add some more ideas here when I have time. For example, perhaps some additional experiments with [Redis](#) such as using strings instead of numbers, or some basic array processing?