COMP 1842

MongoDB in the labs and Home

Matt Prichard

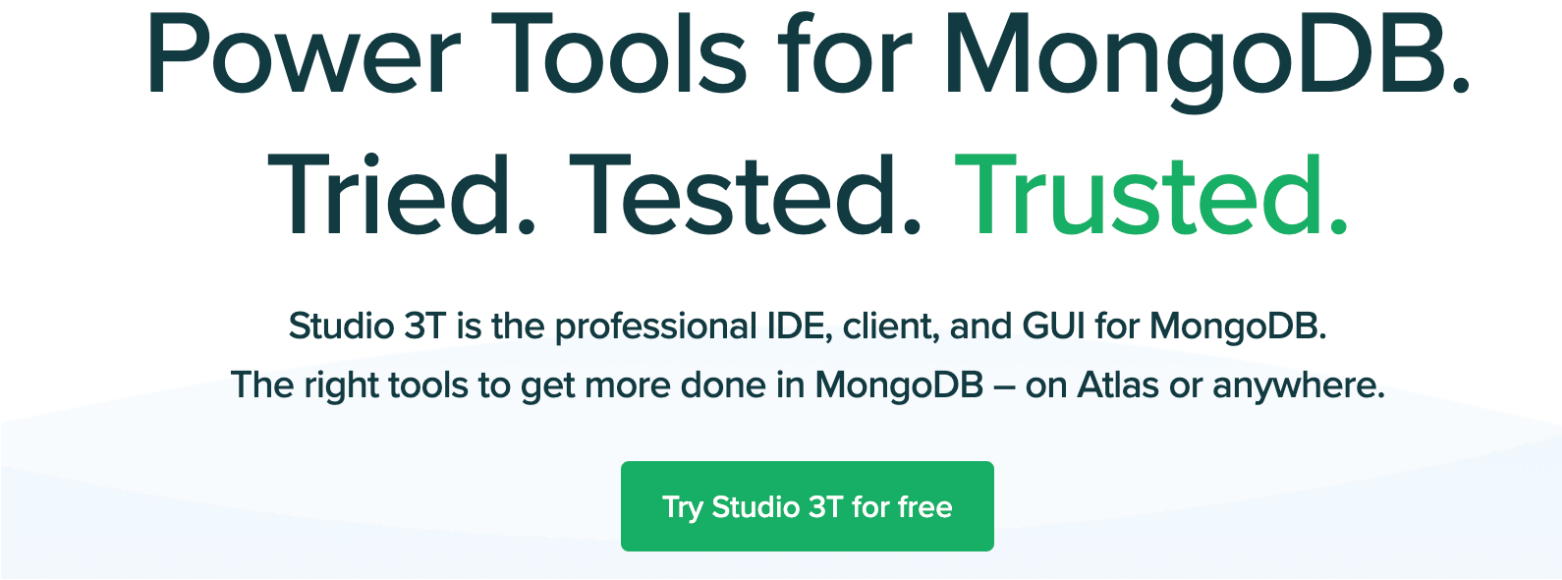
Introduction

Studio 3T

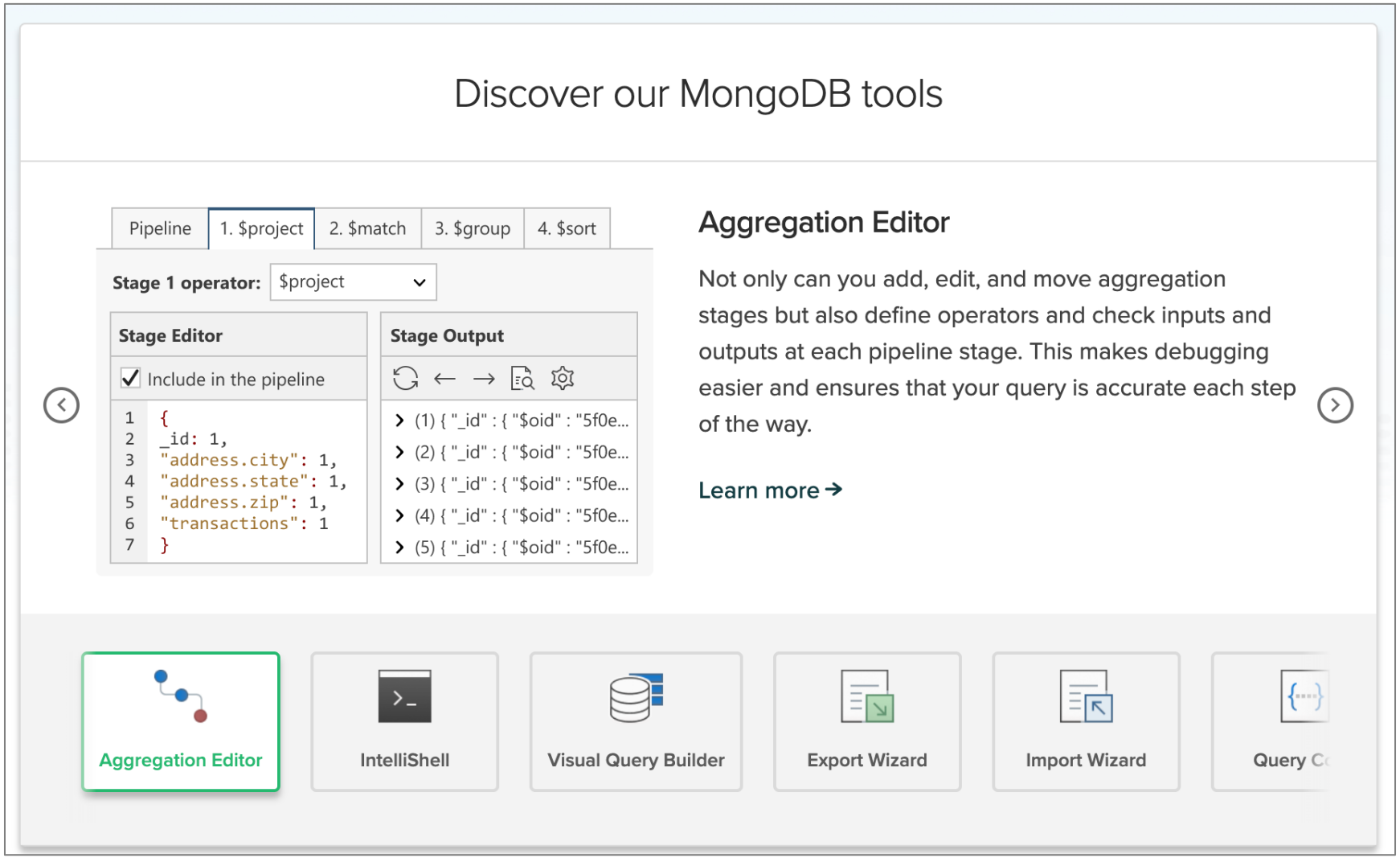
Demos

Tutorials

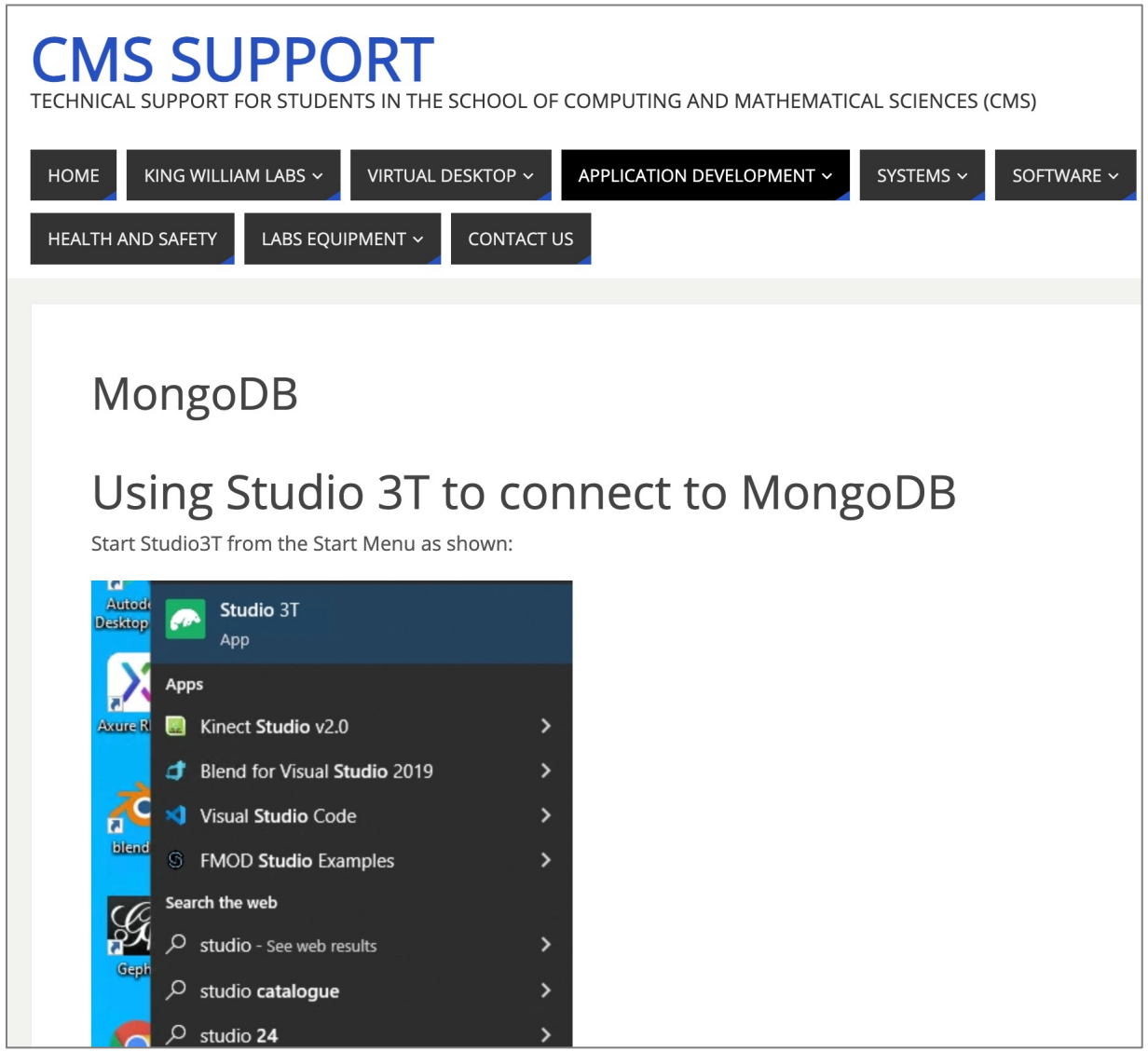
Labs



Think...phpMyAdmin for MongoDB



https://blogs.gre.ac.uk/cmssupport/application-development/databases/mongodb/



Set up your MongoDB database here, follow the instructions carefully.

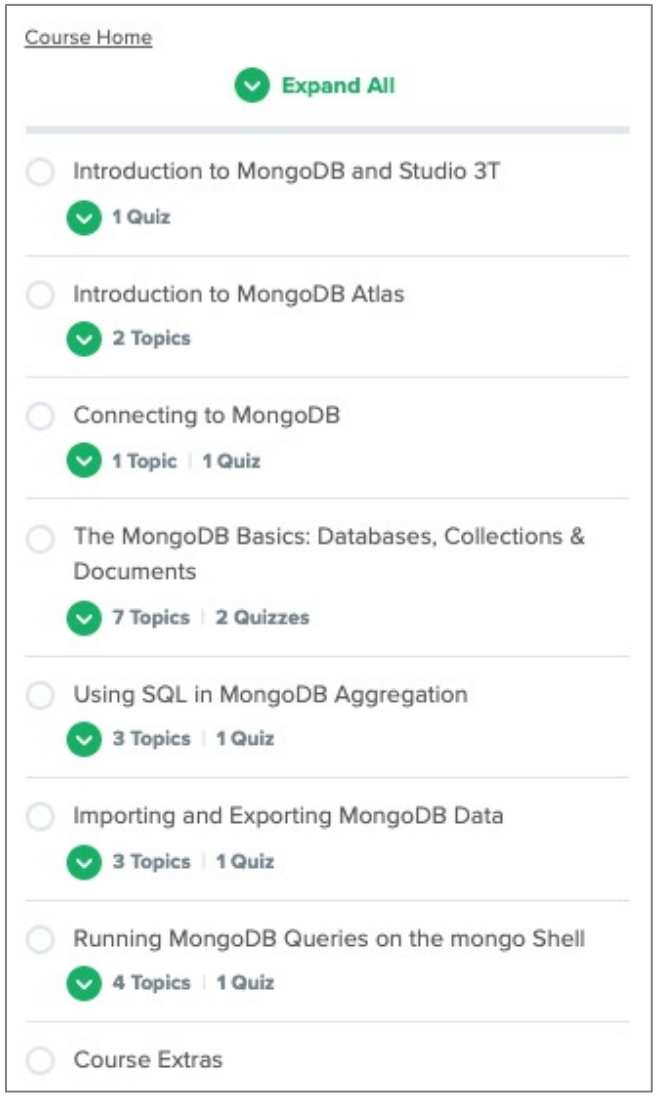
Your student ‘userid’ is used for all 3 parts of the authentication.

https://studio3t.com/academy/courses/mongodb-101-getting-started/

MongoDB 101: Getting Started

The MongoDB course for beginners

In the labs do the following tutorials



May be of interest if installing your own version at home

All 7 topics

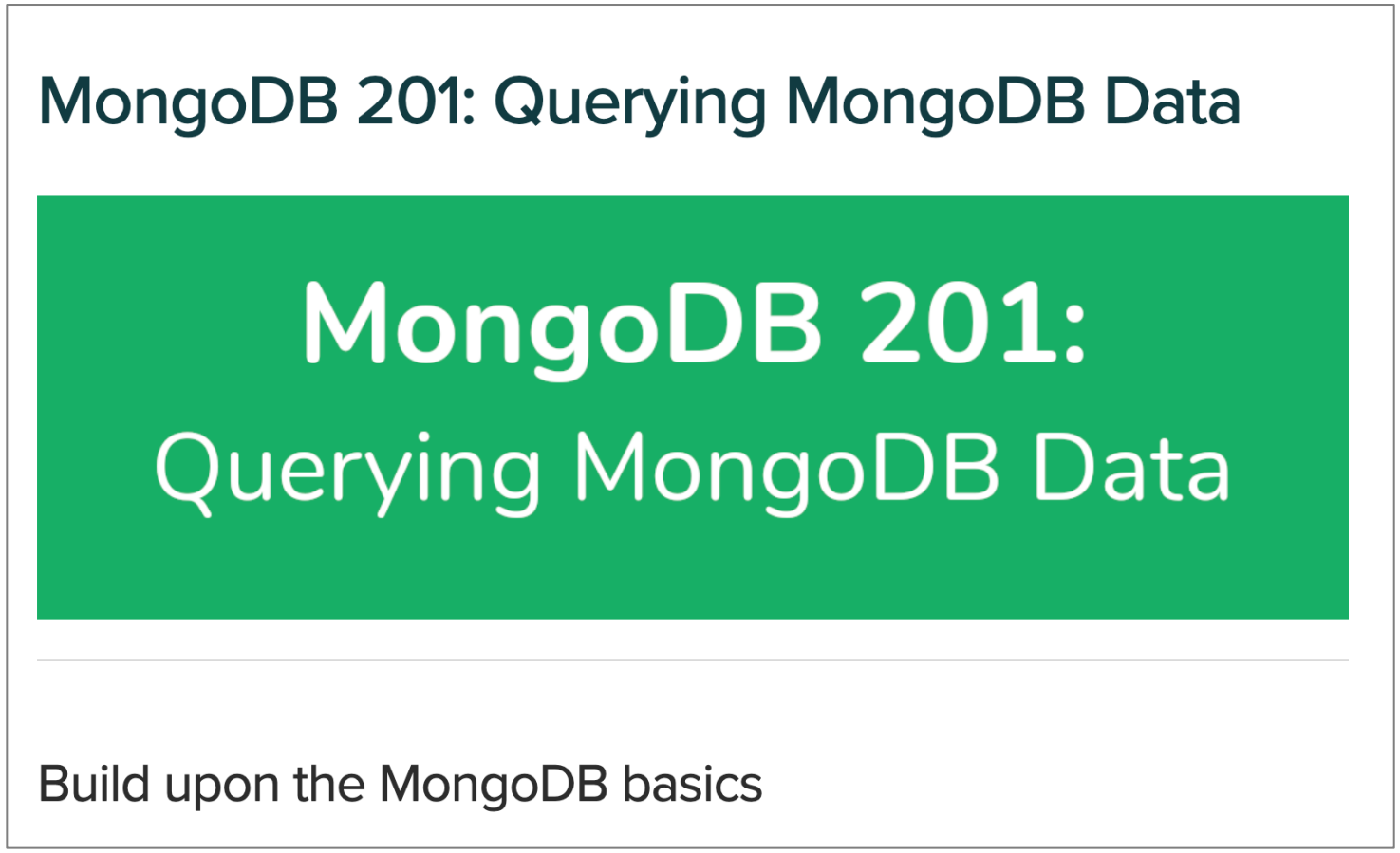
All 3 topics

First 2 only

Slightly more advanced work if you want it

https://studio3t.com/academy/courses/mongodb-201-querying-mongodb-data/

Continue learning in your own with the 2nd set of tutorials…for the keen ☺



https://studio3t.com/knowledge-base/articles/common-mongodb-commands/

13 Most Common MongoDB Commands

Posted on: 22/01/2019 (**last updated:** 31/08/2021) by Kathryn Vargas

As you get started with MongoDB, it will take some time to learn how to query, so we've compiled a list of the most common MongoDB commands and how they're written.

As an alternative, we also show you how to run them – without typing a single line of code – using Studio 3T as a GUI.

https://docs.mongodb.com/manual/reference/sql-comparison/

SQL to MongoDB Mapping Chart

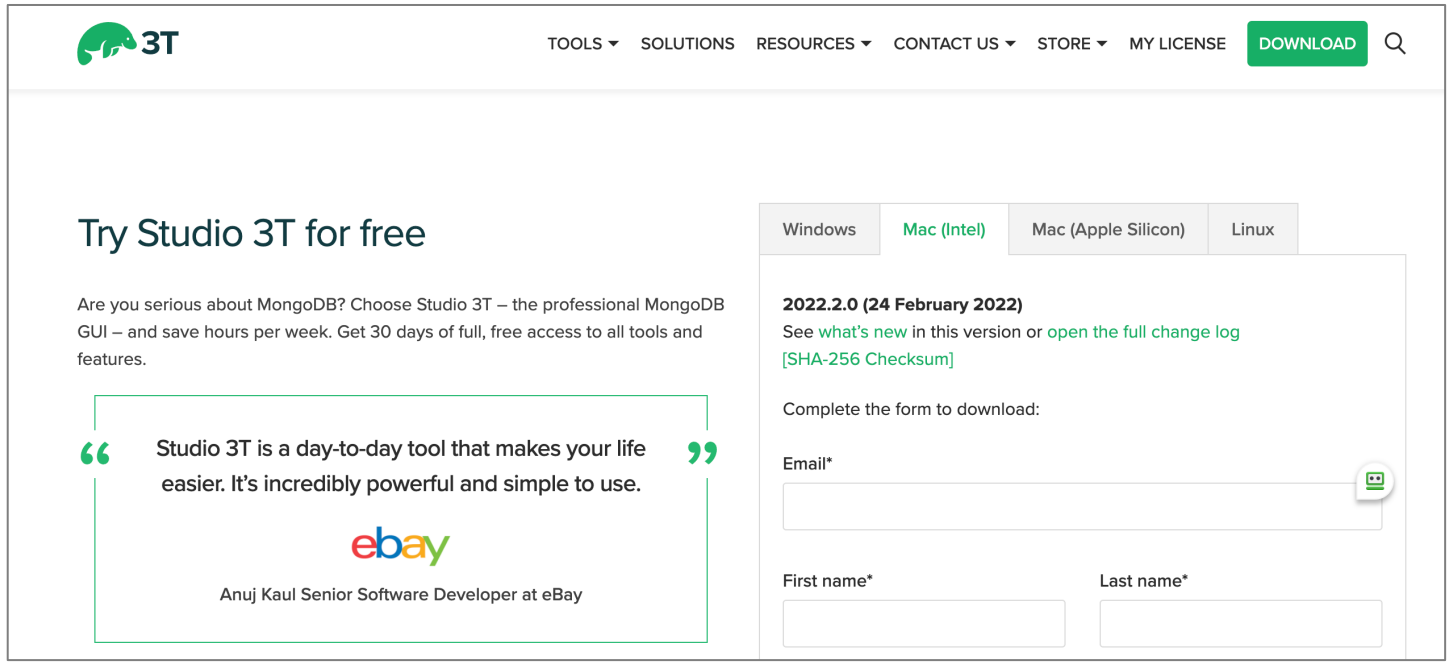
In addition to the charts that follow, you might want to consider the Frequently Asked Questions section for a selection of common questions about MongoDB.

Terminology and Concepts

The following table presents the various SQL terminology and concepts and the corresponding MongoDB terminology and concepts.

Installation at home – not trivial

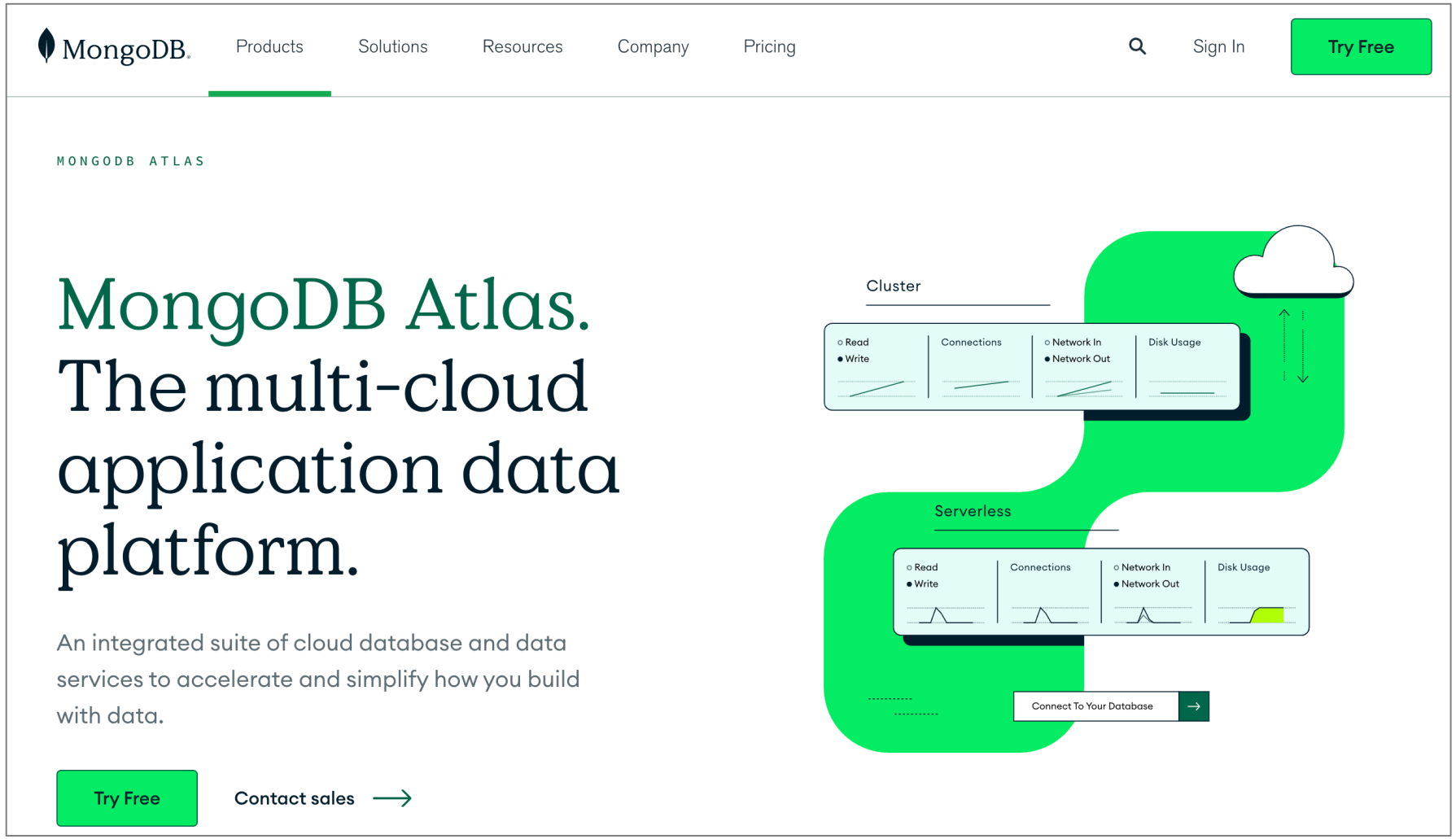
https://studio3t.com/download/



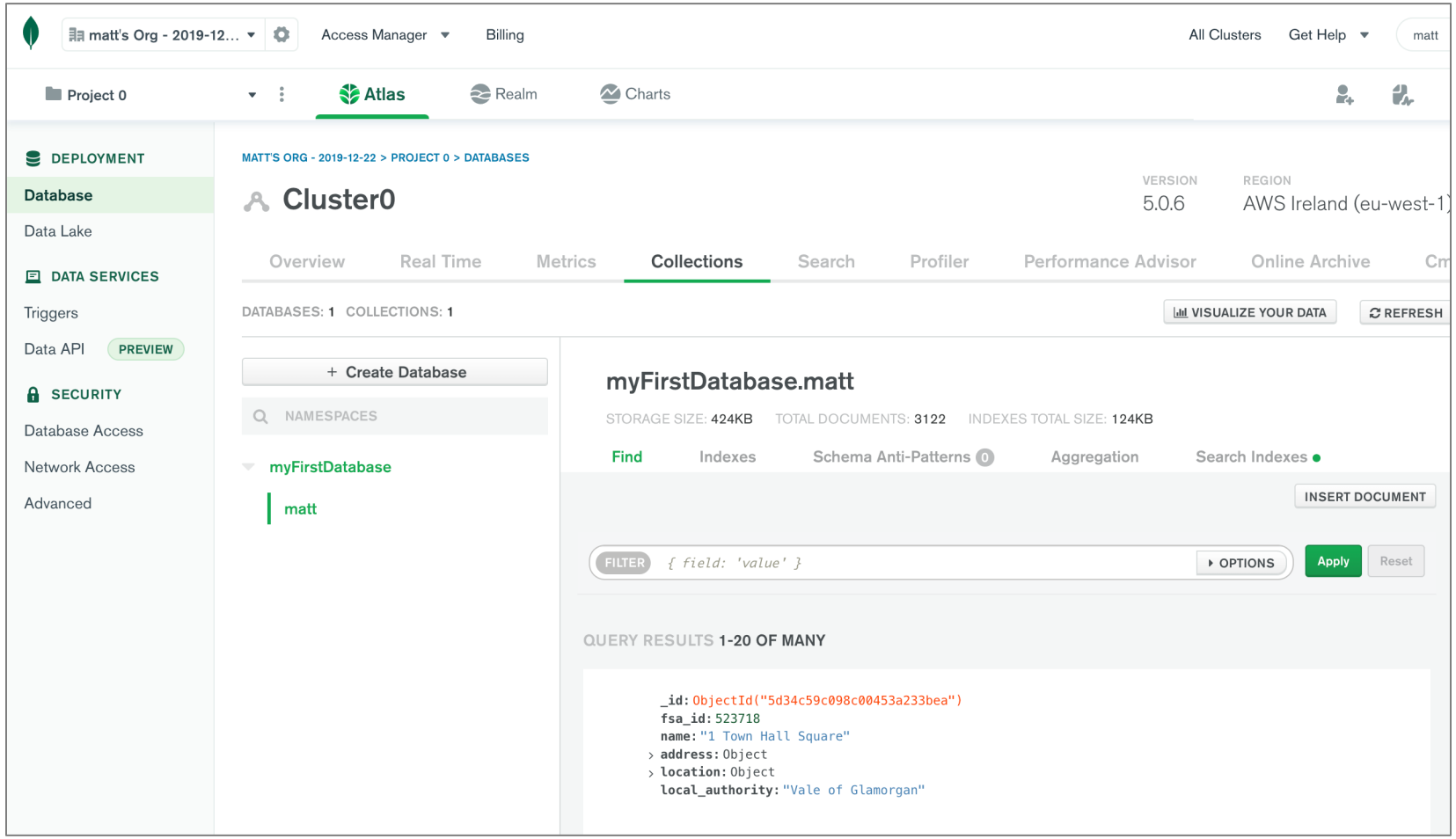
Download and install the studio 3T GUI (there are others but we have this in the labs). With this you can connect to the Atlas Cloud or Localhost

Set up an Atlas cloud account

https://www.mongodb.com/atlas

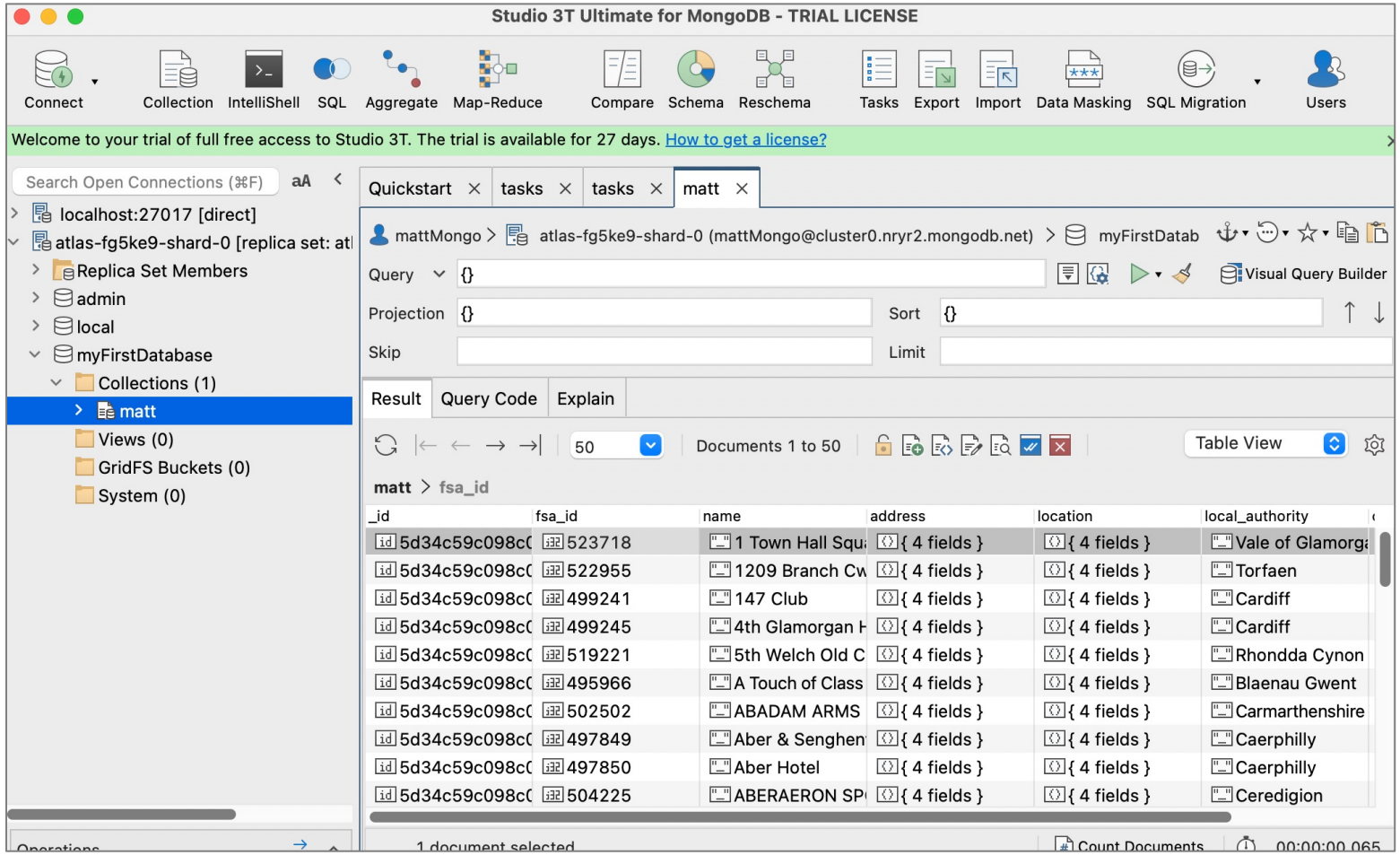


My Atlas cloud account



This was quite (*very*) fiddley

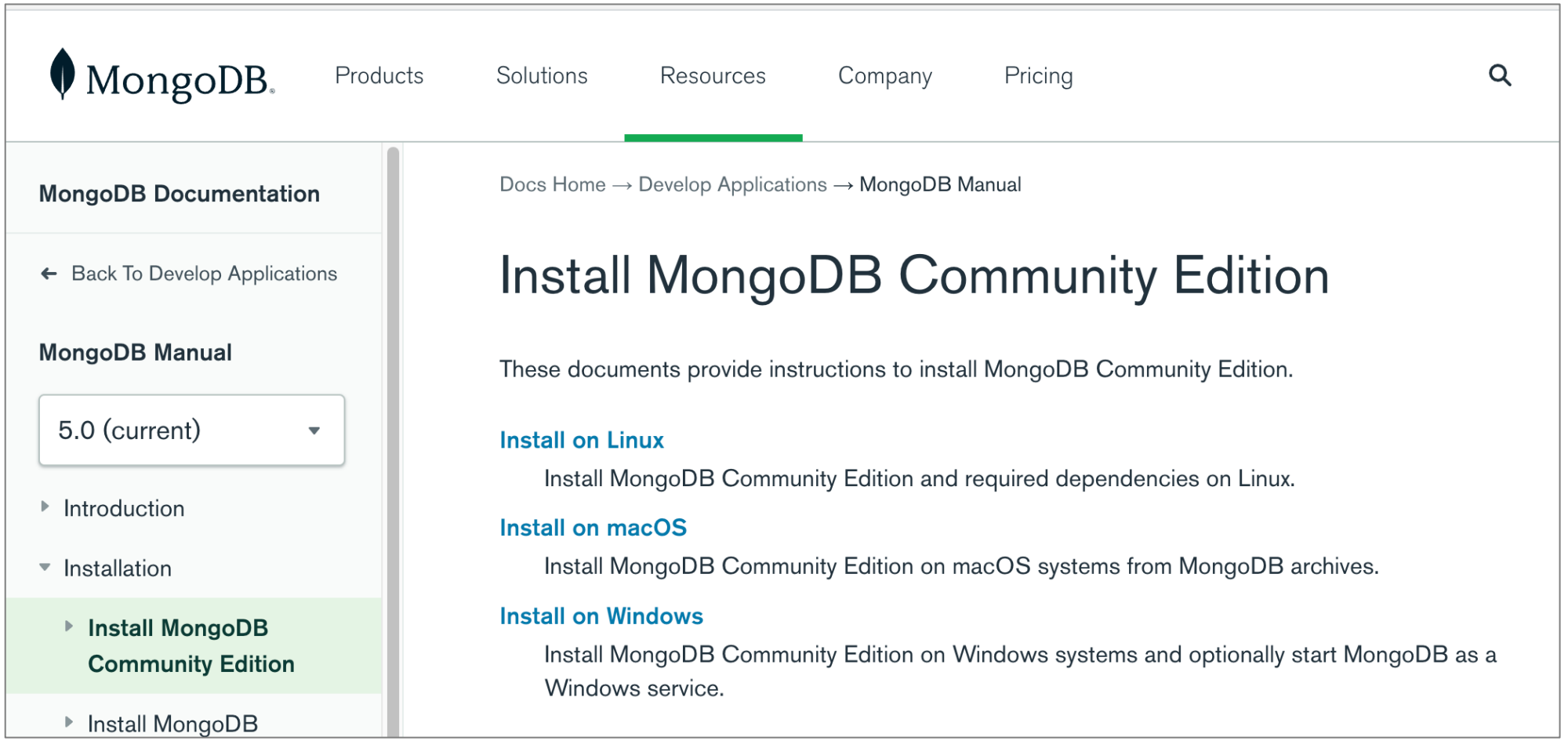
Finally, if all goes well you can connect to Atlas from the GUI on your machine. I used the video on the next slide



https://studio3t.com/knowledge-base/articles/connect-to-mongodb-atlas/

MongoDB on localhost

Install the free community edition of MongoDB



https://docs.mongodb.com/manual/administration/install-community/

On my Mac I had to install various prerequisites from the command line.

Good luck windows users ☺ About an hour later it was all done !! ☹

Install MongoDB Community Edition

Prerequisites

Ensure your system meets each of the following prerequisites. You only need to perform each prerequisite step once on your system. If you have already performed the prerequisite steps as part of an earlier Mong installation using Homebrew, you can skip to the installation procedure.

Install Xcode Command-Line Tools

Homebrew requires the Xcode command-line tools from Apple's Xcode.

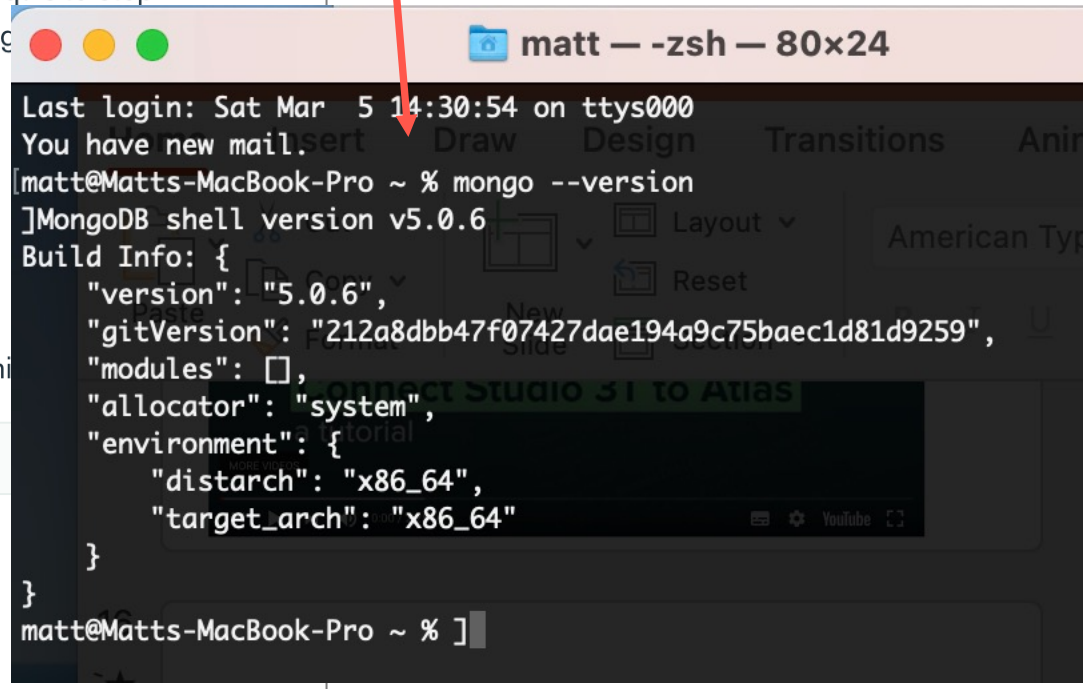
- Install the Xcode command-line tools by running the following command in your macOS Termi

```
xcode-select --install
```

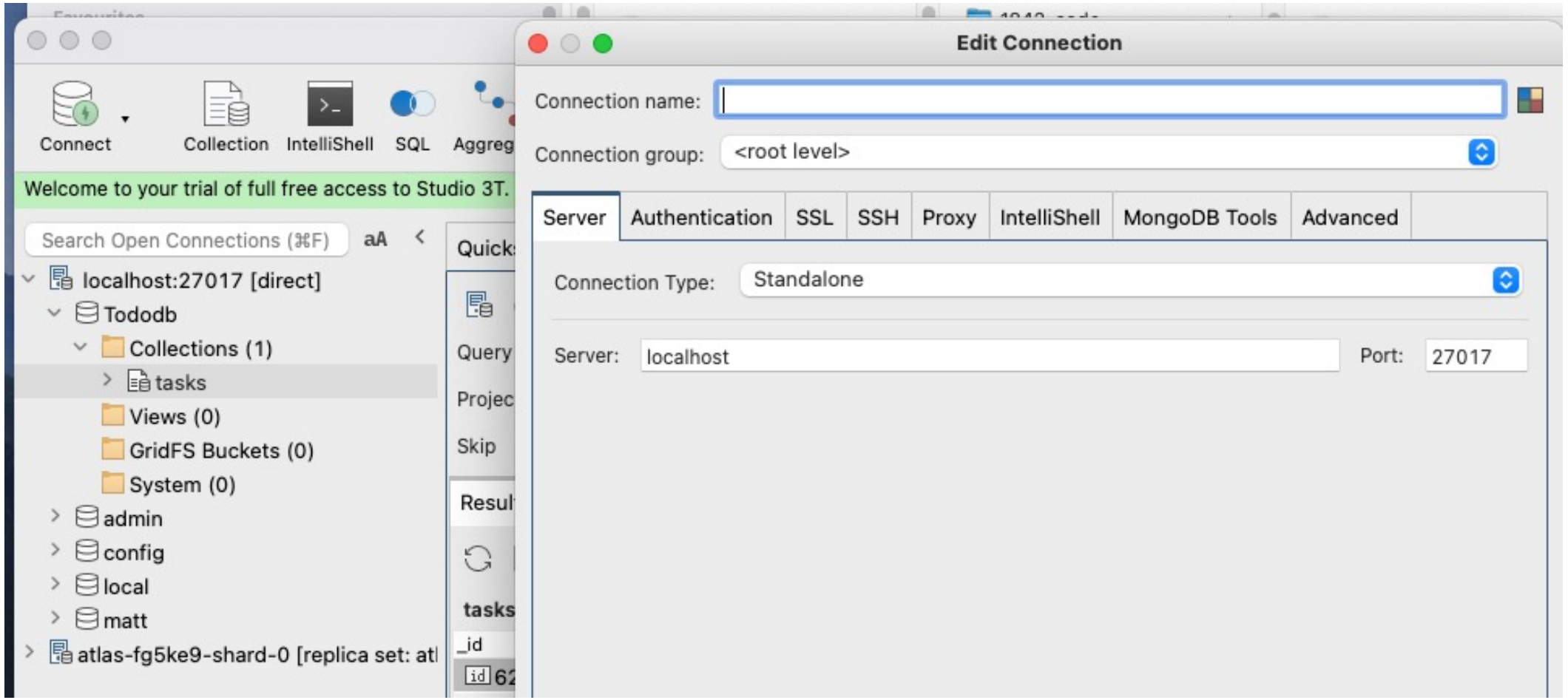
Install Homebrew

macOS does not include the Homebrew `brew` package by default.

- Install `brew` using the official Homebrew installation instructions.

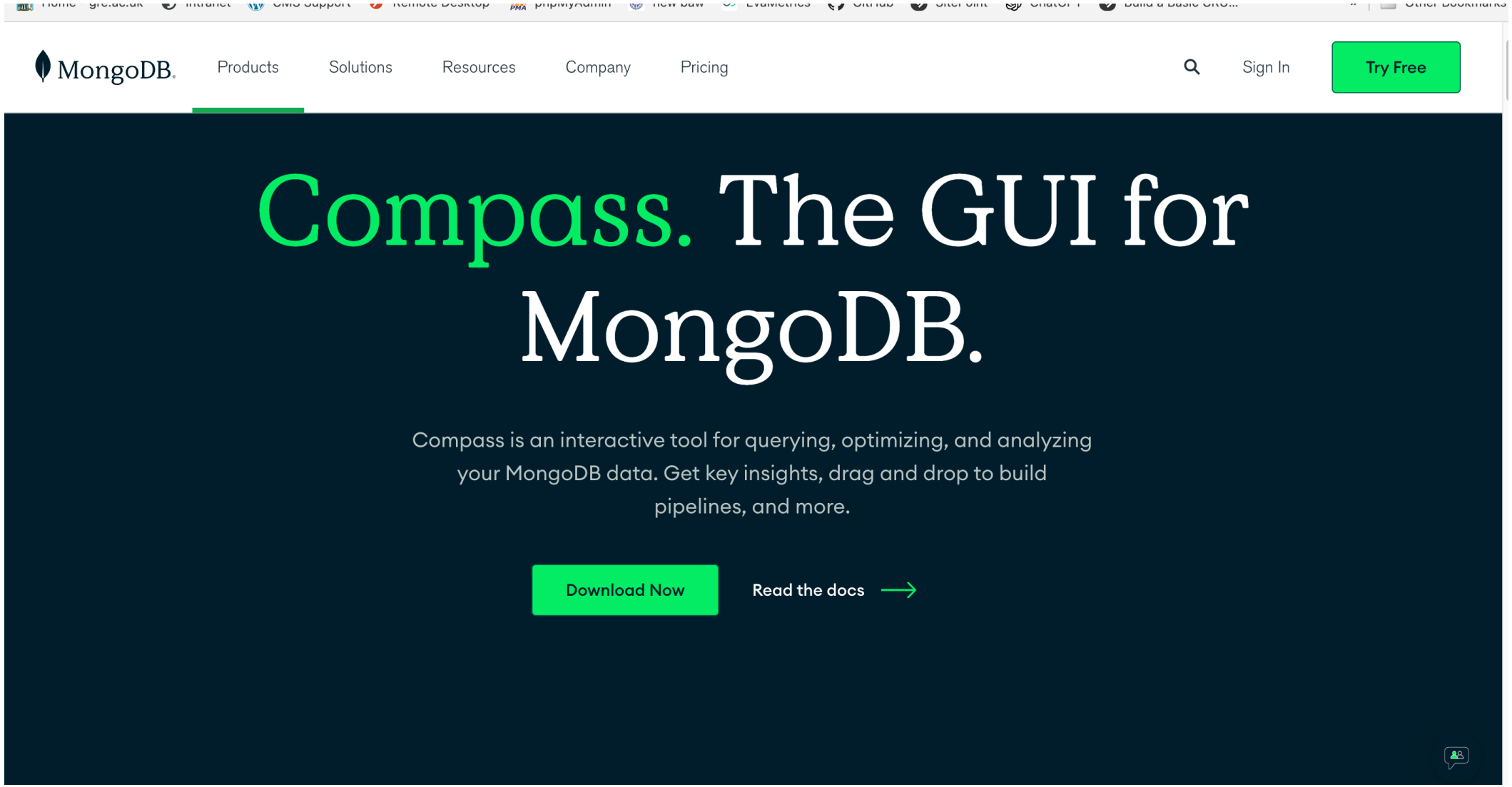


Connecting to localhost mongoDB from the GUI



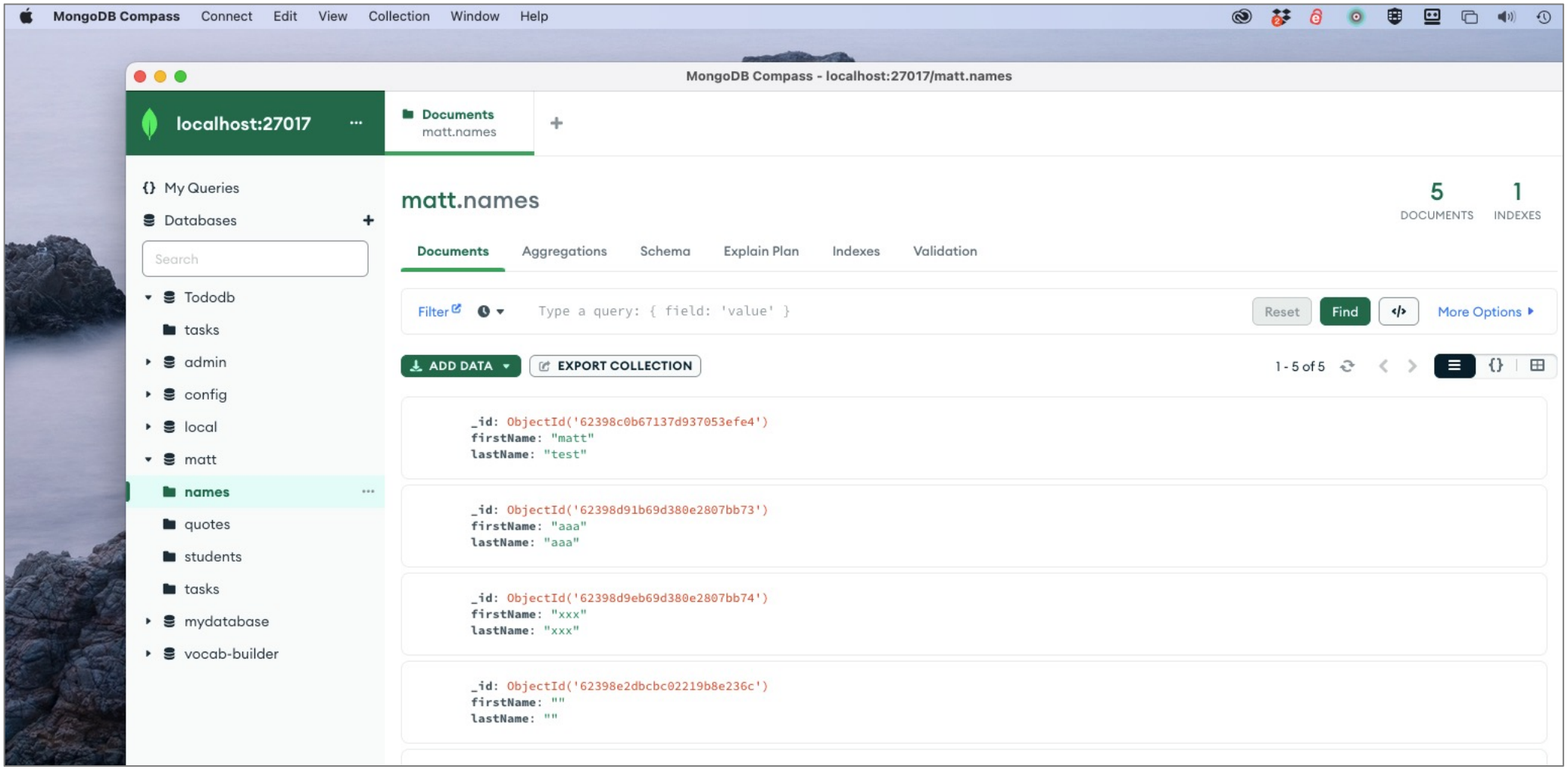
https://studio3t.com/knowledge-base/articles/connect-to-mongodb/#connect-to-a-standalone-connection-e-g-mongodb-localhost

Compass free GUI insetad of studio 3T

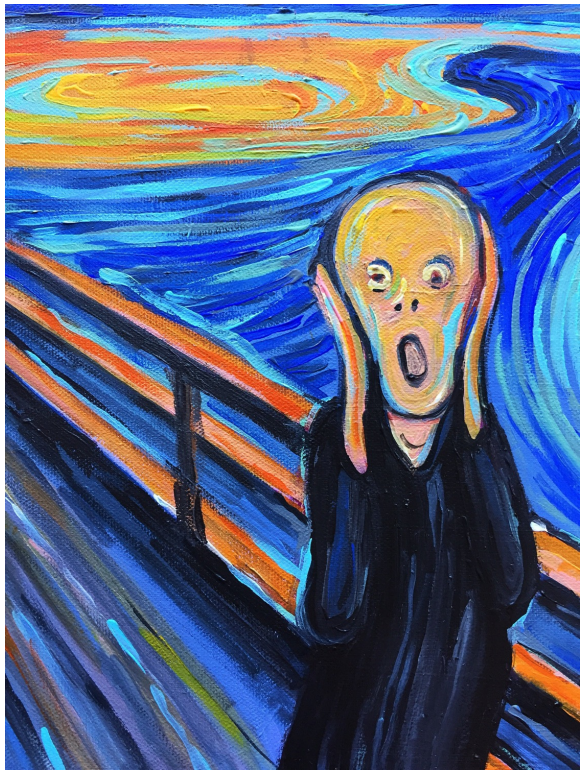


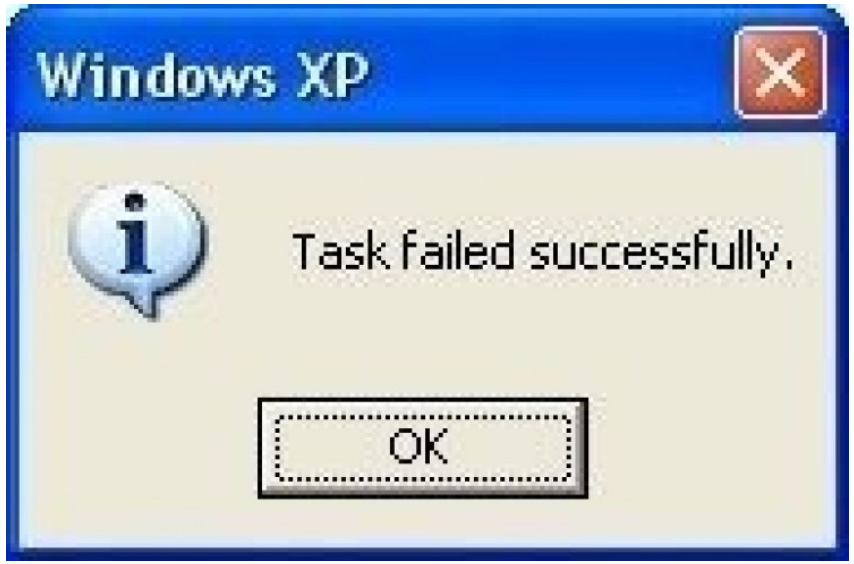
https://www.mongodb.com/products/compass

Compass free GUI instead of studio 3T



In the end it might just be easier to work on Virtual desktop. I have been.





Labs

Work through slides 4, 5 and 6

See lab task doc on Moodle for CW upload requirements, there are 12 small tasks to work through.