Overview

This guide will walk you through the steps to setup your development environment prior to the MongoDB Atlas Workshop.

Objectives

- 1. Setup a free MongoDB managed database with MongoDB Atlas on AWS.
- 2. Install MongoDB Compass Community which is a UI for working with your MongoDB database.
- 3. Install Node.js which is a JavaScript runtime.
- 4. Install Visual Code Studio which we will use as our source code editor.
- 5. Set up the development folder.

Google Chrome

During this coding tutorial you will need to use Google Chrome. Google Chrome is a developer friendly browser. If you don't already have Google Chrome Installed, you can do so from the Google Chrome (https://www.google.com/chrome/) site.

Part 1: Setup Free MongoDB Atlas

MongoDB is a free and open-source document-oriented NoSQL database. You can install and run MongoDB Community Server (https://www.mongodb.com/download-center/community) locally. MongoDB Atlas is a cloud-hosted MongoDB service on AWS, Azure or GCP. They provide a free sandbox environment for getting started with MongoDB. We will be using MongoDB Atlas on AWS.

For more information please visit:

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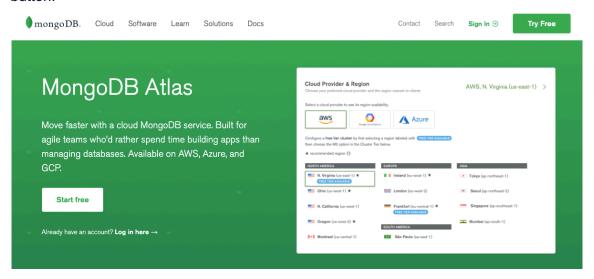




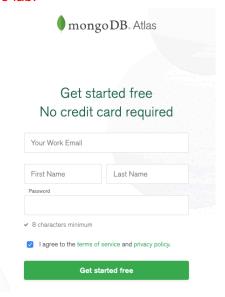
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Navigate to MongoDB Atlas (https://www.mongodb.com/cloud/atlas). Select the Start Free button:



2. Enter your information, select the **I agree** box and then select the **Get started free** button: **Make sure to remember/record the email and password used as it will be needed during the lab.



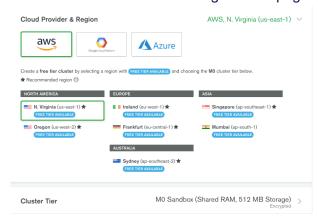




3. Select the Create a Cluster button in the Starter Clusters section (FREE):



4. Keep the defaulted Cloud Provider & Region (should be AWS and us-east-1). Don't change anything under Cluster Tier, Additional Settings or Cluster Name. Select the green **Create Cluster** button on the bottom right of the page:





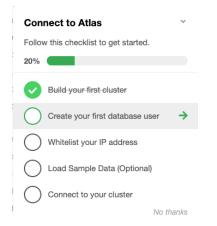




5. You will get a popup window asking if you want to Upgrade to a Dedicated Cluster. Select the **Continue without upgrading** link at the very bottom:



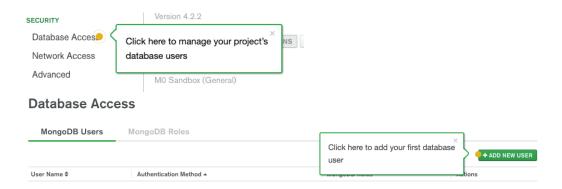
It can take several minutes for your cluster to be created. Select Create your first database user:



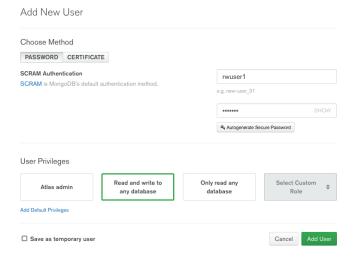
7. Click on **Database Access**. The select the green **ADD NEW USER** button:







- 8. Keep the default method as **PASSWORD**. Enter **rwuser1** in the username field and then enter a password. Keep the default **Read and write to any database** option. Select the green **Add User** button:
 - **Make sure to remember/record the password used as it will be needed during the lab.



9. Select Whitelist your IP address:







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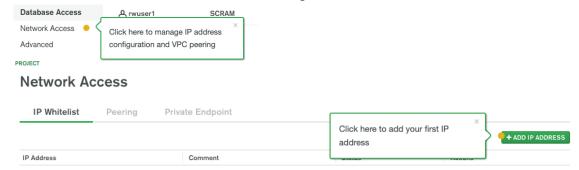




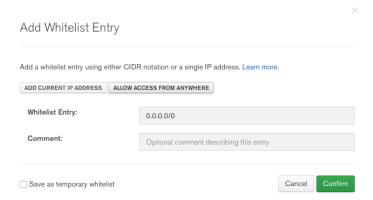
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10. Click on Network Access. Then select the green ADD IP ADDRESS button:



11. Select ALLOW ACCESS FROM ANYWHERE and then select the green Confirm button:



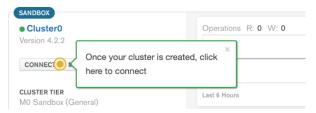
12. Skip the **Load Sample Data** task and select **Connect to your cluster**. We will be adding data during the lab:







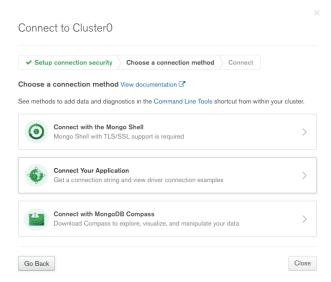
13. Click on **CONNECT**:



14. If the **Connect to Atlas** task list opens, you can close it be clicking on the down arrow in the upper right corner of the list:



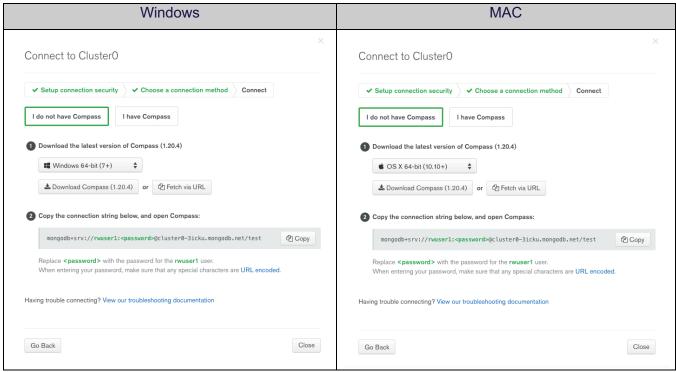
15. Select the bottom option **Connect with MongoDB Compass** and the proceed to Part 2.



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Part 2: Install MongoDB Compass

 Select your operating system in section 1 Download... Then select the Download Compass button:



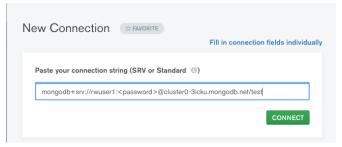
- 2. While it is downloading, select the Copy button in section 2 Copy the connection string...
- 3. In Chrome, downloads will appear in the bottom left corner of the browser. While it is downloading, it will display a status telling you how long it has left to finish downloading. Once it has finished, click on it to run.
- 4. On **Windows**, follow the prompts during the installation. MongoDB Compass Community should launch when the installation is complete.



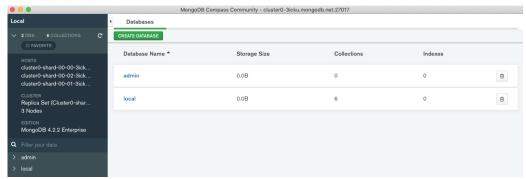


On **Mac**, install by dragging the **MongoDB Compass Community** icon onto the Applications folder icon. Once complete, you can then launch MongoDB Compass Community from your Applications folder or in Launchpad.

5. Paste the connection string you copied into the connection string field. Replace <password> in the connection string you just pasted with the password you set when creating the rwuser1 ID above. Select CONNECT. If you are prompted with a License Agreement, scroll down on the License Agreement and select Agree:



You should successfully connect. From the Menu bar, select Connect, and then
 Disconnect. Close MongoDB Compass Community. Sign out and close your MongoDB
 Atlas session in the browser.







Part 3: Install Node.js

Node.js is a JavaScript runtime built on Chrome's V8 JavaScript engine. This will also install npm which is a package manager for the JavaScript language.

- 1. Open your Chrome browser and navigate to Node.js (https://nodejs.org/en/). Install the most recent version of node that is marked as "Recommended For Most Users".
- 2. To confirm that everything has installed correctly, open a command prompt or a terminal and run the following command:

\$ node -v v10.16.0

Part 4: Install Visual Studio Code

Visual Studio Code is a source code editor developed by Microsoft that can be run on Windows, macOS, and Linux. It is a free, open-source developer tool.

1. Open your Chrome browser and navigate to Visual Code Studio (https://code.visualstudio.com/). Download the stable build for your OS. Click on the download once it completes and follow instructions to install, accepting all defaults.

Part 5: Create your Development folder

Create a folder named "Development" in your user directory (see below for details).

On Windows	On MAC
C:\Users\{username}\Development	/Users/{username}/Development

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