

Module 3 Activity 1

Brandon Trinkle

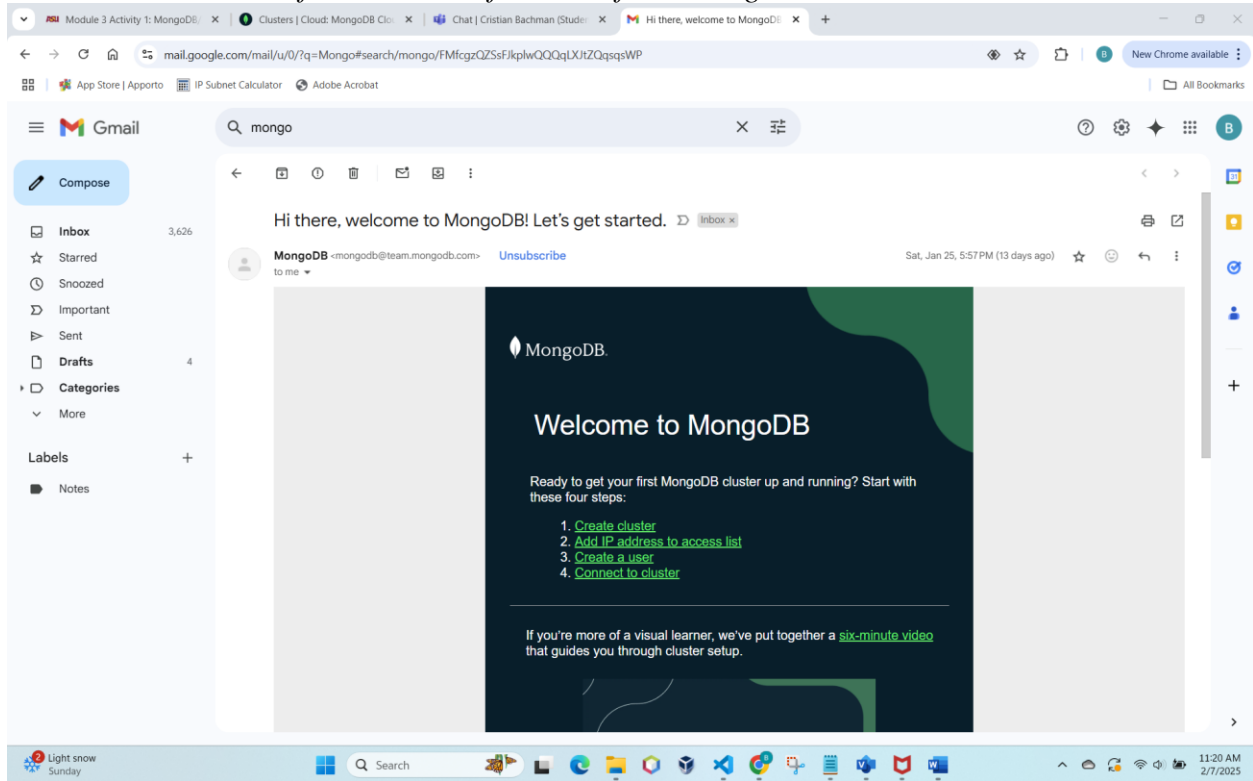
IFT 458: Middleware Prog & Database Sec

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Module 3 Activity 1

1. Screenshot 1: of the email confirmation from MongoDB Atlas.



2. Screenshot 2: of the new project setup.

The screenshot shows the MongoDB Atlas 'Projects' page. The left sidebar contains the 'ORGANIZATION' menu with options like Projects, Alerts, Activity Feed, Settings, Integrations, Access Manager, Resource Policy, Billing, Support, and Live Migration. The main content area is titled 'BRANDON'S ORG - 2025-01-25' and 'Projects'. It features a search bar 'Find a project...' and a table with columns: Project Name, Clusters, Tags, Users, Teams, Alerts, and Actions. The table lists one project, 'IFT 458', with 0 Clusters, 1 User, 0 Teams, and 0 Alerts. A 'New Project' button is in the top right. At the bottom, the system status is 'All Good' and the last login is '98.5.196.243'.

3. Screenshot 3: of the new cluster in MongoDB Atlas.

The screenshot shows the MongoDB Atlas 'Clusters' page for the 'IFT 458' project. The left sidebar shows the 'DATABASE' menu with options like Clusters, SERVICES, and SECURITY. The main content area is titled 'BRANDON'S ORG - 2025-01-25 > IFT 458' and 'Clusters'. It features a search bar 'Find a database deployment...' and a 'TrinkleCluster' card with buttons for 'Connect', 'View Monitoring', and 'Browse Collections'. The card also shows a 'FREE' label. Below the card are four charts: 'R 0', 'W 0', 'Connections 0', and 'Data Size 0.00 B / 512.00 MB (0%)'. At the bottom, there is a table with columns: VERSION, REGION, TYPE, BACKUPS, LINKED APP SERVICES, ATLAS SQL, and ATLAS SEARCH. The table shows version 8.0.4, region AWS / N. Virginia (us-east-1), type Replica Set - 3 nodes, and backups Inactive.

4. Screenshot 4: of the database and collections (the student can blur or hide sensitive data).

The screenshot shows the MongoDB Atlas web interface. The left sidebar contains navigation options: Overview, DATABASE, Clusters, SERVICES, Atlas Search, Stream Processing, Triggers, Migration, Data Federation, SECURITY, Quickstart, Backup, Database Access, Network Access, Advanced, and Oato. The main panel displays the 'IFT458.TrinkleCollection' database and collection. It shows metadata: STORAGE SIZE: 4KB, LOGICAL DATA SIZE: 0B, TOTAL DOCUMENTS: 0, INDEXES TOTAL SIZE: 4KB. Below this, there are tabs for Find, Indexes, Schema Anti-Patterns, Aggregation, and Search Indexes. A 'Filter' input field is present with a placeholder 'Type a query: { field: 'value' }'. The 'QUERY RESULTS' section is currently empty, showing '0' results. The top navigation bar includes 'Atlas', 'Brandon's Or...', 'Access Manager', and 'Billing'. The bottom status bar shows the system time as 12:52 PM on 2/7/2025.

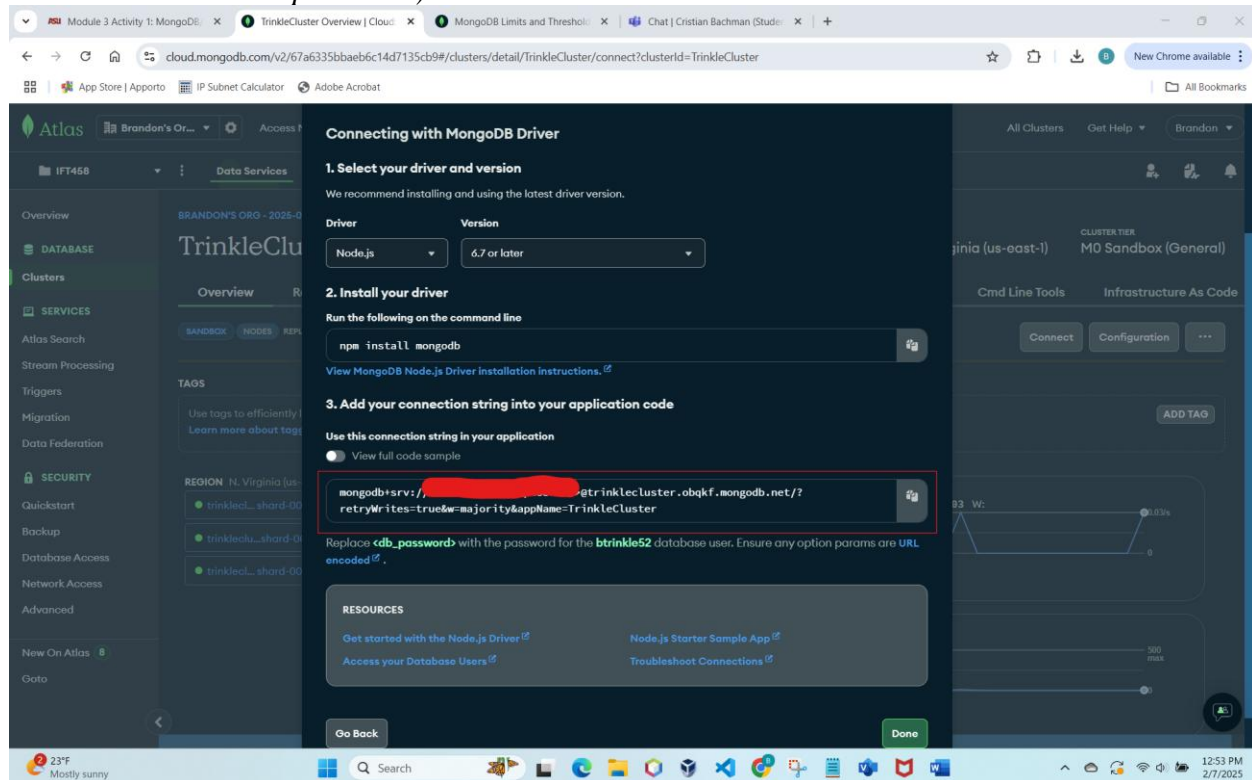
5. Screenshot 5: of the connection IP and user setup.

The screenshot shows the MongoDB Atlas Project Access Manager interface. The left sidebar contains navigation options: PROJECT, Settings, Alerts, Activity Feed, Access Manager, Support, and Integrations. The main panel displays the 'Project Access Manager' for 'BRANDON'S ORO - 2025-01-25 > IFT458'. It includes buttons for 'Invite to Project' and 'Create Application'. Below these, there are tabs for Users, Applications, and Teams. A search bar 'Find a user' is present. A table lists users with columns: Display Name, Email Address, Project Role, Created, and Last Login. The table contains one entry for Brandon Trinkle. A 'Tip' box on the right suggests managing organization access. The bottom status bar shows the system time as 1:10 PM on 2/7/2025.

Display Name	Email Address	Project Role	Created	Last Login
Brandon Trinkle	btrinkle52@gmail.com	Project Owner	01/25/25 - 05:57:17 PM	02/07/25 - 11:38:50 AM

Note: I did not capture a screenshot when setting up my user account that showed IP address. However, here is a screenshot showing that my user account has access to the project, cluster and collection I created.

6. Screenshot 6: of the connection string (the student should blur out sensitive parts like username and password).



Connection to MongoDB:

```

1 // Student Name: Brandon Trinkle
2 // Student ID: 1217455031
3 // Date: 2/7/2025
4
5 const express = require('express');
6 const bodyParser = require('body-parser');
7 const { makeUpperCase } = require('./middlewares/middlewares.js');
8 const studentsRouter = require('./controllers/students.js');
9
10 const app = express();
11
12 app.use(bodyParser.json());
13 app.use(makeUpperCase);
14
15 app.use('/students', studentsRouter);
16
17 app.use('/', function(req, res, next) {
18   console.log('Request URL:', req.url);
19   res.send('Hello');
20 });
21

```

```

$ node "c:\Users\Btrink\OneDrive\Desktop\ASU_IIFT_458 & 554\myNodeProject\app.js"
(node:37288) [MONGODB DRIVER] Warning: useNewUrlParser is a deprecated option: useNewUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
(node:37288) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
(node:37288) [MONGODB DRIVER] Warning: useUnifiedTopology is a deprecated option: useUnifiedTopology has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
Server is listening on port 3000
Connected to MongoDB

```

Note:

- Added logic to record connection to database (success or error)
 - o Created an .env file to secure storage of username and password to the database
 - o Unused because I'm not sure how strict we have to follow the code that is provided – so I kept it as how you had the code displayed.
- Downloaded the zip file from the lab – had required imports from the code provided.
- Student.js in the controllers directory required an entire refactor for the code provided to be successful.
 - o The original code for students.js exported a function. In app.js we use an express router.
 - o When running app.js it was failing when passing object function instead of a middleware function.
- Solved this by exporting routers instead of functions.
- This removed the functionality of the use of the form because we are not importing views anymore.
 - o Was not an objective of this lab, just an observation I had. I assume we will handle this in future labs.
 - Localhost:3000 will not display the form anymore