

LAPORAN PRAKTIKUM 10

SISTEM BASIS DATA



Disusun Oleh :

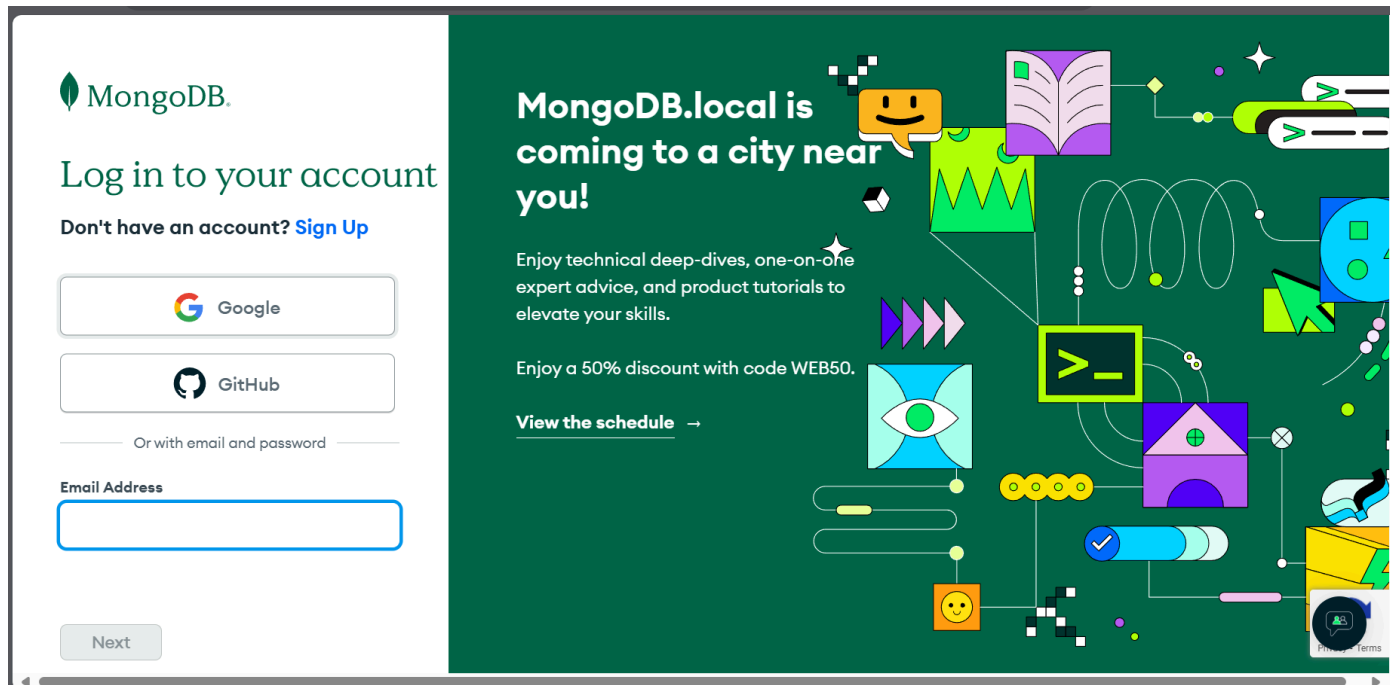
Nama : Taufan Ali

NIM : 2215016135

PROGRAM STUDI SISTEM INFORMASI
FAKULTAS SAINS DAN TEKNOLOGI TERAPAN
UNIVERSITAS AHMAD DAHLAN

2024

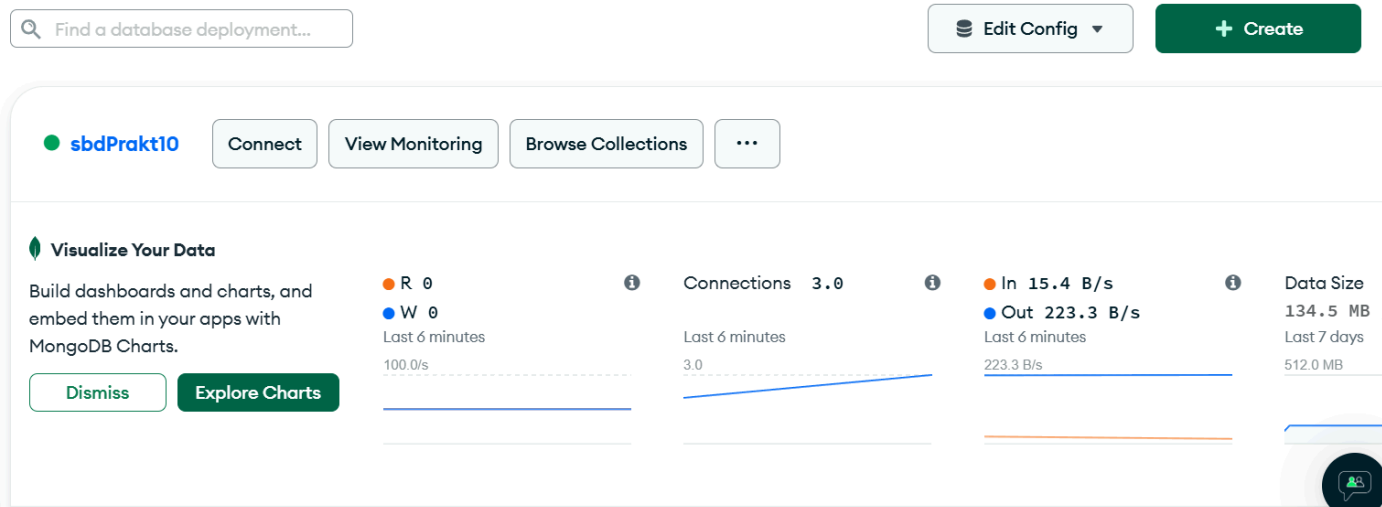
1. Buat akun mongodb cloud dan masuk menggunakan akun yang baru saja dibuat :



2. Buat cluster baru yang m2 atau yang gratis

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Clusters



3. Buat akun untuk mengakses cluster tersebut

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Triggers Data API Data Federation Atlas Search Stream Processing Migration

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Database Access

Database Users Custom Roles

+ ADD NEW DATABASE USER

User Name	Authentication Method	MongoDB Roles	Resources	Actions
2215016135	SCRAM	readWriteAnyDatabase@admin	All Resources	EDIT DELETE

System Status: All Good

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4. Tambahkan whitelist IP agar perangkat dapat mengakses mongoddb yang baru saja dibuat

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Network Access

IP Access List Peering Private Endpoint

+ ADD IP ADDRESS

You will only be able to connect to your cluster from the following list of IP Addresses:

IP Address	Comment	Status	Actions
192.168.1.13/24	Created as part of the Auto Setup process	Active	EDIT DELETE
36.80.229.246/32 (includes your current IP address)		Active	EDIT DELETE

System Status: All Good

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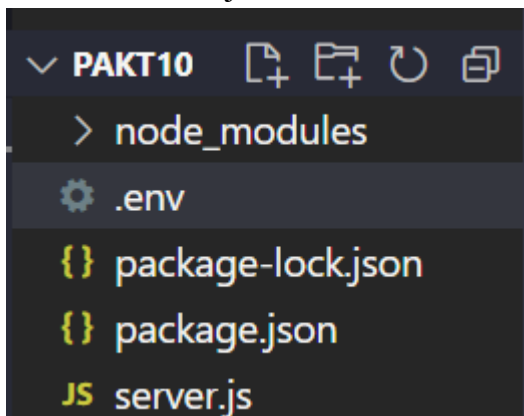
5. Tambahkan kode yang ada di modul praktikum dan pastekan di vs code. Ganti atlas credentials dengan credentials masing masing

```
JS server.js X .env
JS server.js > ...
1  const express = require('express');
2  const mongoose = require('mongoose');
3  require('dotenv').config();
4
5  const app = express();
6  const port = process.env.PORT || 2105;
7
8  // Replace <username> and <password> with your MongoDB Atlas credentials
9  const mongoURI = process.env.MONGO_URI || 'mongodb+srv://2215016135:K1AZEpfj64MG3tCz@sbdprakt10.lug51x3.mongodb.net/?retryWrites=true&w=majority&appName=sbdPrakt10';
10
11 // Middleware to parse JSON bodies
12 app.use(express.json());
13
14 // Connect to MongoDB
15 mongoose.connect(mongoURI, { useNewUrlParser: true, useUnifiedTopology: true })
16   .then(() => {
17     console.log('Connected to MongoDB');
18   })
19   .catch(err => {
20     console.error('Failed to connect to MongoDB', err);
21   });
22
23 // Sample endpoint to ensure server is running
24 app.get('/', (req, res) => {
25   res.send('Hello, world!');
26 });
27
28 // Endpoint to verify MongoDB connection
29 app.get('/status', async (req, res) => {
30   try {
31     const dbStatus = await mongoose.connection.db.admin().ping();
32     res.json({ status: 'Connected to MongoDB', dbStatus });
33   } catch (err) {
34     res.status(500).json({ status: 'Error', message: err.message });
35   }
36 });
37
38 app.listen(port, () => {
39   console.log(`Server is running on http://localhost:${port}`);
40 });
```

6. Buat file .env dengan keterangan sebagai berikut

```
.env
1  port=2105
2  mongo_URI=mongodb+srv://2215016135:K1AZEpfj64MG3tCz@sbdprakt10.lug51x3.mongodb.net/?retryWrites=true&w=majority&appName=sbdPrakt10
```

7. Install modul yang perlu digunakan untuk menjalankan server.js : express, mongodb, mongoose, dotenv, dan node js.



8. Jalankan server

```
○ Lenovo Ideapad@AlienZWindows D: > coolyeah > sbd > pakt10 node server.js
(node:17804) [MONGODB DRIVER] Warning: useUrlParser is a deprecated option: useUrlParser has no effect since Node.js Driver version 4.0.0 and will be removed in the next major version
(Use `node --trace-warnings ...` to show where the warning was created)
(node:17804) [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 running on http://localhost:2105
Connected to MongoDB
```

Server.js berhasil connect dengan mongodb