**mern-exercise-tracker**

<https://medium.com/@beaucarnes/learn-the-mern-stack-by-building-an-exercise-tracker-mern-tutorial-59c13c1237a1>

<https://www.youtube.com/watch?v=7CqJlxBYj-M&t=527s>

TRGAO@ITSEMAL-NB0057 MINGW64 /c/projects

$ npx create-react-app mern-exercise-tracker

TRGAO@ITSEMAL-NB0057 MINGW64 /c/projects

$ cd mern-exercise-tracker/

TRGAO@ITSEMAL-NB0057 MINGW64 /c/projects/mern-exercise-tracker (master)

$ code .

**PS C:\projects\mern-exercise-tracker> mkdir backend**

**PS C:\projects\mern-exercise-tracker> cd backend**

**PS C:\projects\mern-exercise-tracker\backend> npm init**

**This utility will walk you through creating a package.json file.**

**It only covers the most common items, and tries to guess sensible defaults.**

**See `npm help json` for definitive documentation on these fields**

**and exactly what they do.**

**Use `npm install <pkg>` afterwards to install a package and**

**save it as a dependency in the package.json file.**

**Press ^C at any time to quit.**

**package name: (backend)**

**version: (1.0.0)**

**description: MERN-exercise-tracker**

**entry point: (index.js) server.js**

**test command:**

**git repository:**

**keywords:**

**author: Trupti Gaonkar**

**license: (ISC)**

**About to write to C:\projects\mern-exercise-tracker\backend\package.json:**

**{**

**"name": "backend",**

**"version": "1.0.0",**

**"description": "MERN-exercise-tracker",**

**"main": "server.js",**

**"scripts": {**

**"test": "echo \"Error: no test specified\" && exit 1"**

**},**

**"author": "Trupti Gaonkar",**

**"license": "ISC"**

**}**

**Is this OK? (yes) yes**

**PS C:\projects\mern-exercise-tracker\backend> npm install express cors mongoose dotenv**

**PS C:\projects\mern-exercise-tracker\backend> npm install -g nodemon**

**Note: Command nodemon server was not working, hence change package.json**

{

  "name": "backend",

  "version": "1.0.0",

  "description": "MERN-exercise-tracker",

  "main": "server.js",

  "scripts": {

    "test": "echo \"Error: no test specified\" && exit 1",

    "serve": "nodemon server.js"

  },

  "author": "Trupti Gaonkar",

  "license": "ISC",

  "dependencies": {

    "cors": "^2.8.5",

    "dotenv": "^8.2.0",

    "express": "^4.17.1",

    "mongoose": "^5.8.3"

  }

}

**PS C:\projects\mern-exercise-tracker\backend> npm run serve**

# ****Create new repository with name ‘****[mern-exercise-tracker](https://github.com/truptigaonkar/mern-exercise-tracker)****’****

Create **server.js** in backend folder

const express = require('express');

const cors = require('cors');

require('dotenv').config();

const app = express();

const port = process.env.PORT || 5000;

app.use(cors());

app.use(express.json());

app.listen(port, () => {

    console.log(`Server is running on port: ${port}`);

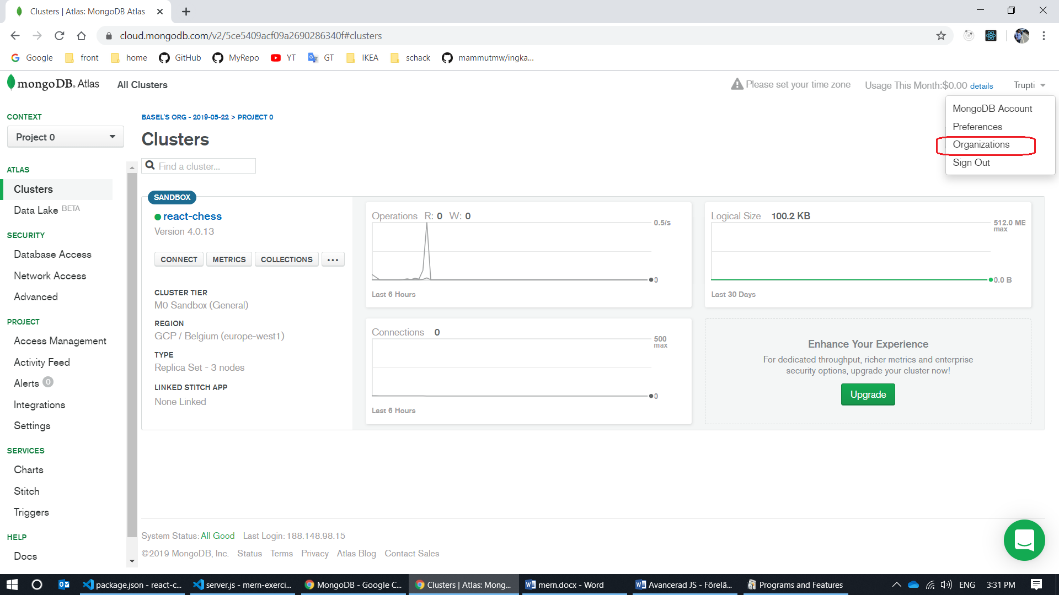
});

Check with nodemon server or npm run start

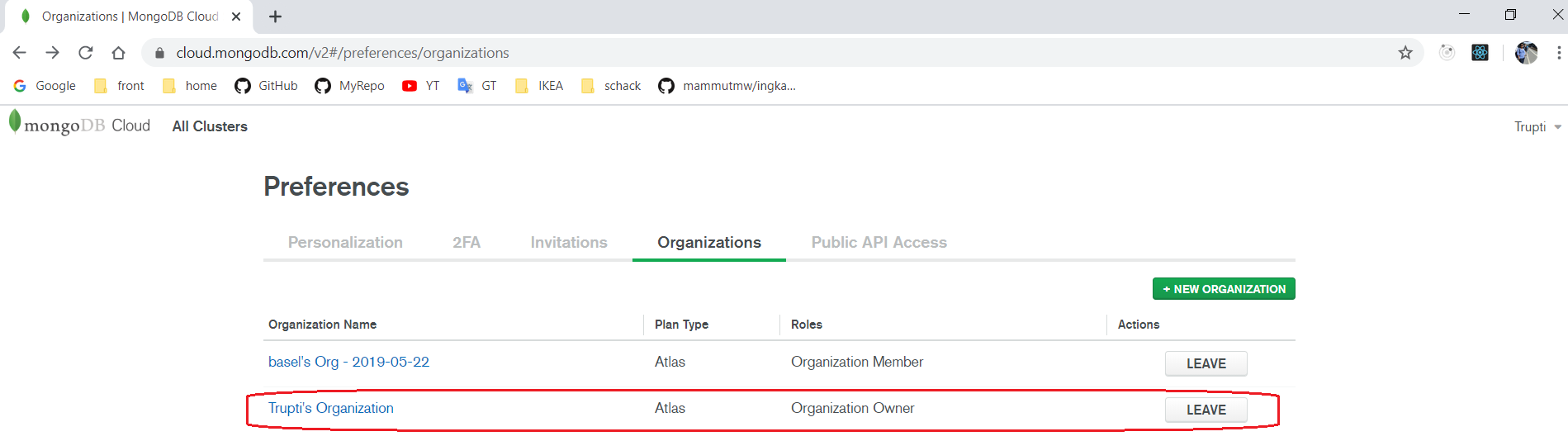
**Mongodb**

Sign in Mongodb atlas

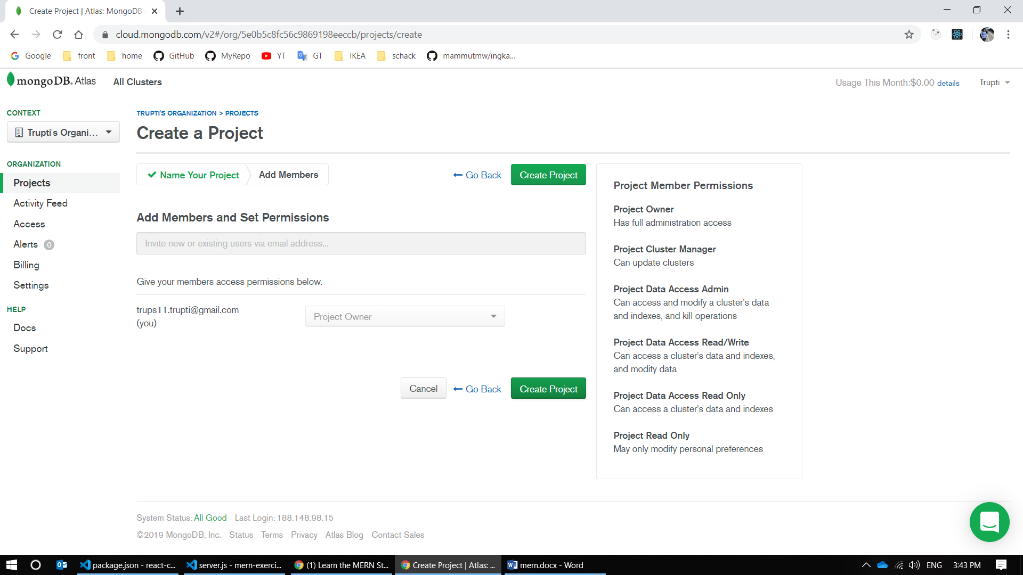
Create organization



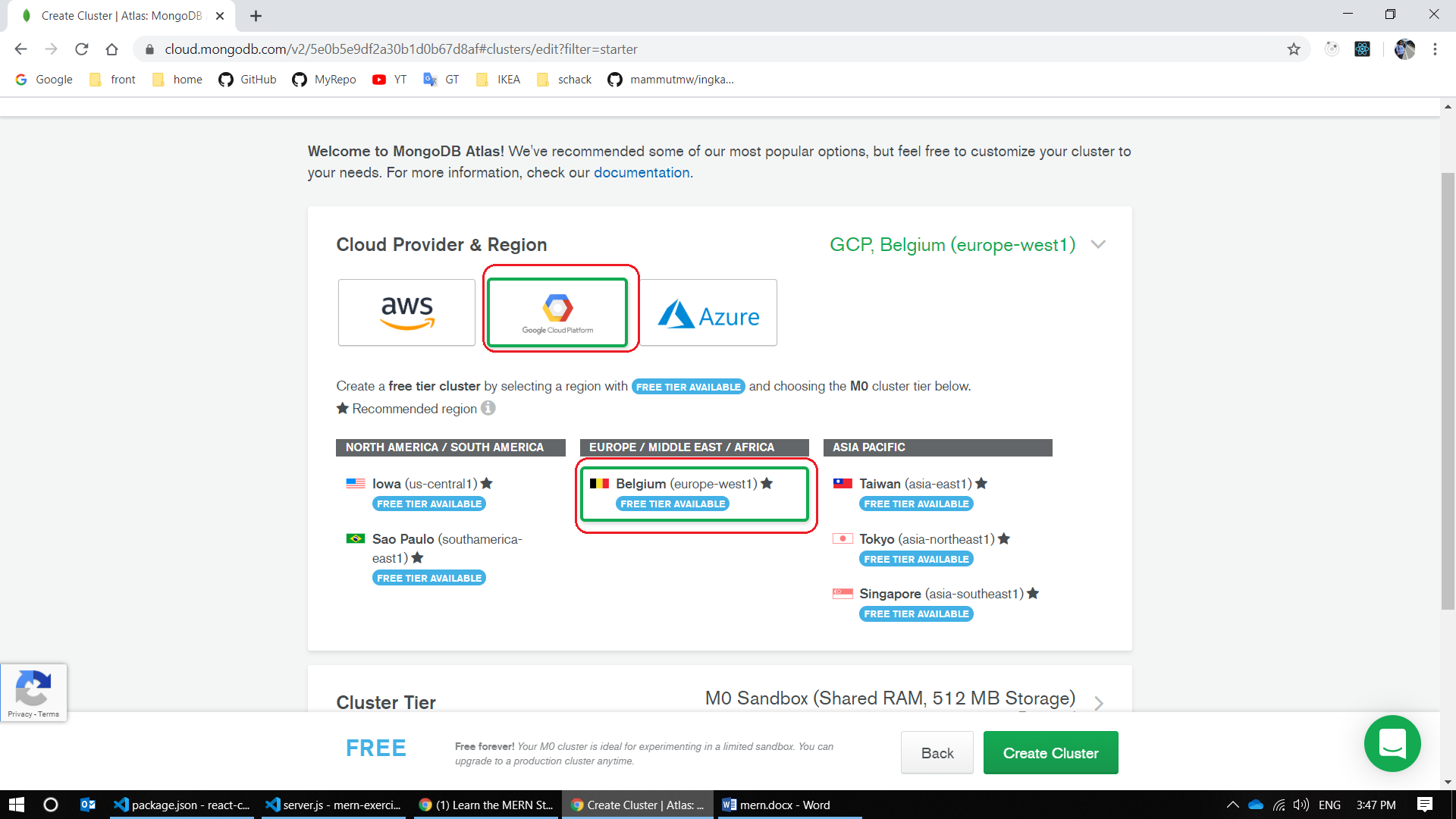
<https://cloud.mongodb.com/v2#/preferences/organizations>



Go inside Trupti’s organization -> create New Project with name ‘[mern-exercise-tracker](https://github.com/truptigaonkar/mern-exercise-tracker)’ -->

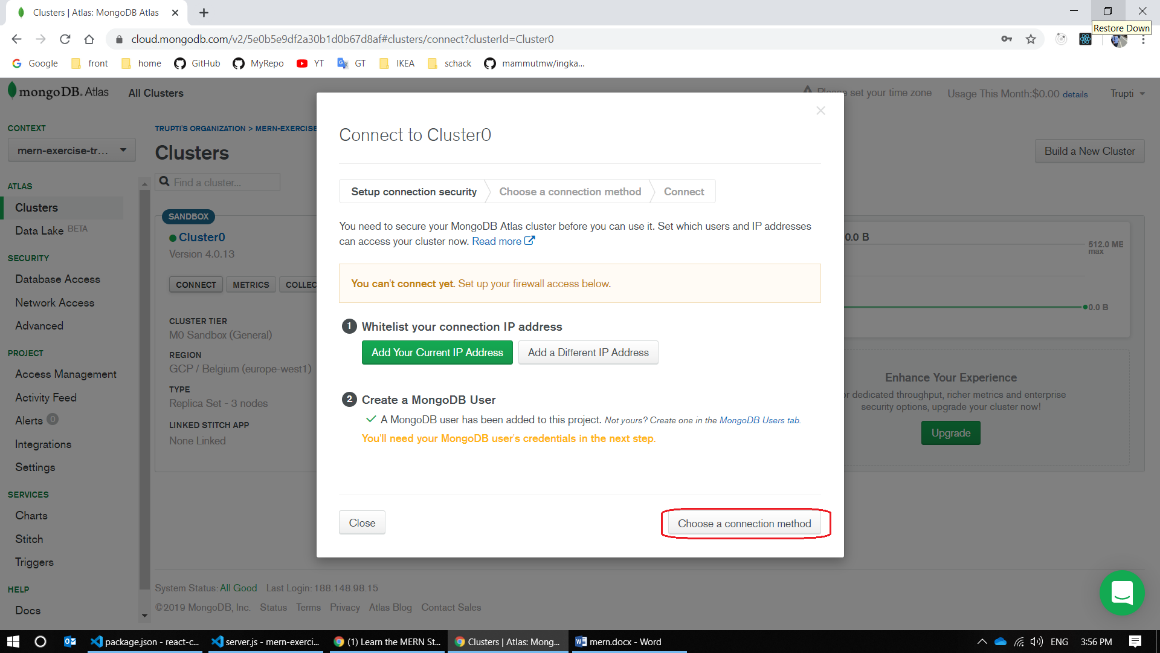


Build a cluster --> Create a cluster FREE -->



It will take little time to create cluster

Connect to a cluster

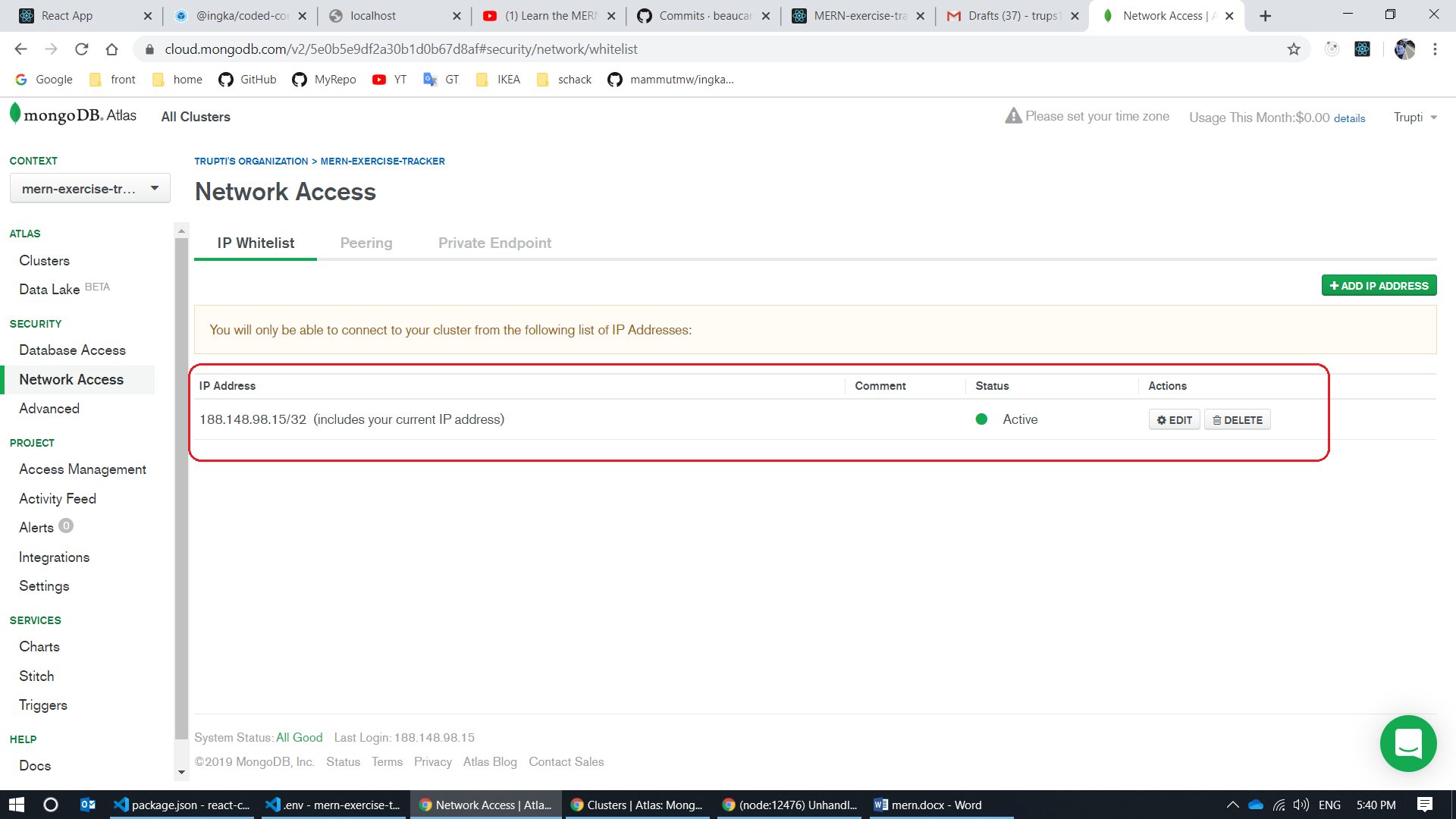


Click on Connect Your Application

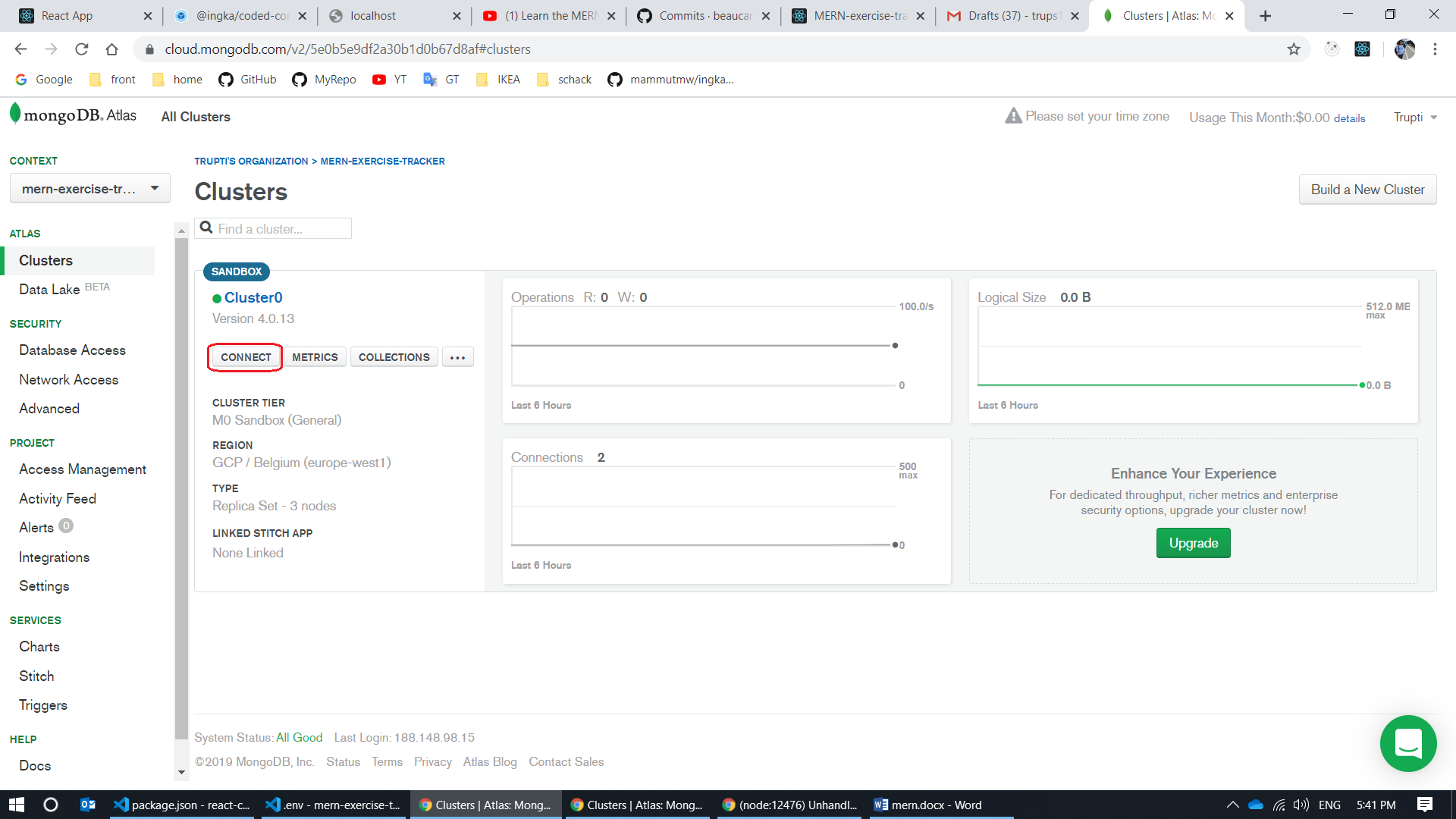
Copy Connection string only and change the password as given.

mongodb+srv://root:<password>@cluster0-oplzu.gcp.mongodb.net/test?retryWrites=true&w=majority

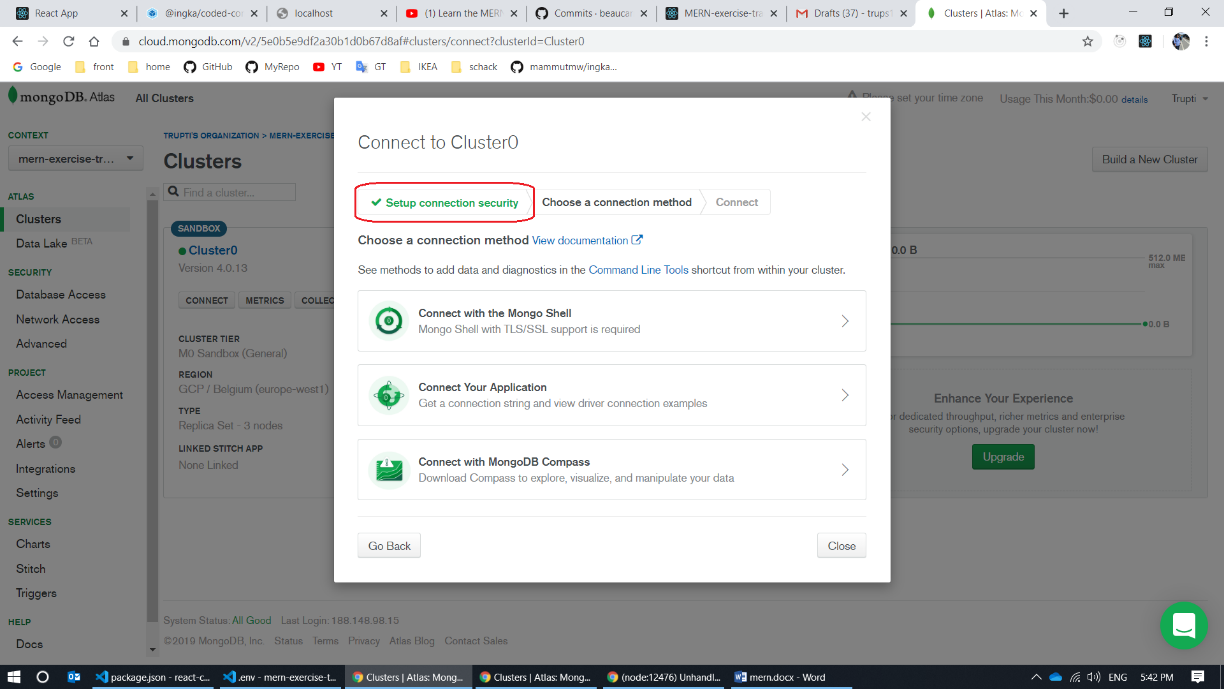
Add IP Address (current ip address while adding ip address),



Try to connect



You should see following:



Update server.js

const express = require('express');

const cors = require('cors');

const mongoose = require('mongoose');

require('dotenv').config();

const app = express();

const port = process.env.PORT || 5000;

//Middleware

app.use(cors());

app.use(express.json());

//Mongoose connection

const uri = process.env.ATLAS\_URI;

mongoose.connect(uri, { useNewUrlParser: true, useCreateIndex: true, useUnifiedTopology: true }

);

const connection = mongoose.connection;

connection.once('open', () => {

  console.log("MongoDB database connection established successfully");

})

app.listen(port, () => {

    console.log(`Server is running on port: ${port}`);

});

Create .env

ATLAS\_URI=mongodb+srv://root:root@cluster0-oplzu.gcp.mongodb.net/test?retryWrites=true&w=majority

**Result:**

PS C:\projects\mern-exercise-tracker\backend> npm run start

> backend@1.0.0 start C:\projects\mern-exercise-tracker\backend

> node server.js

Server is running on port: 5000

MongoDB database connection established successfully