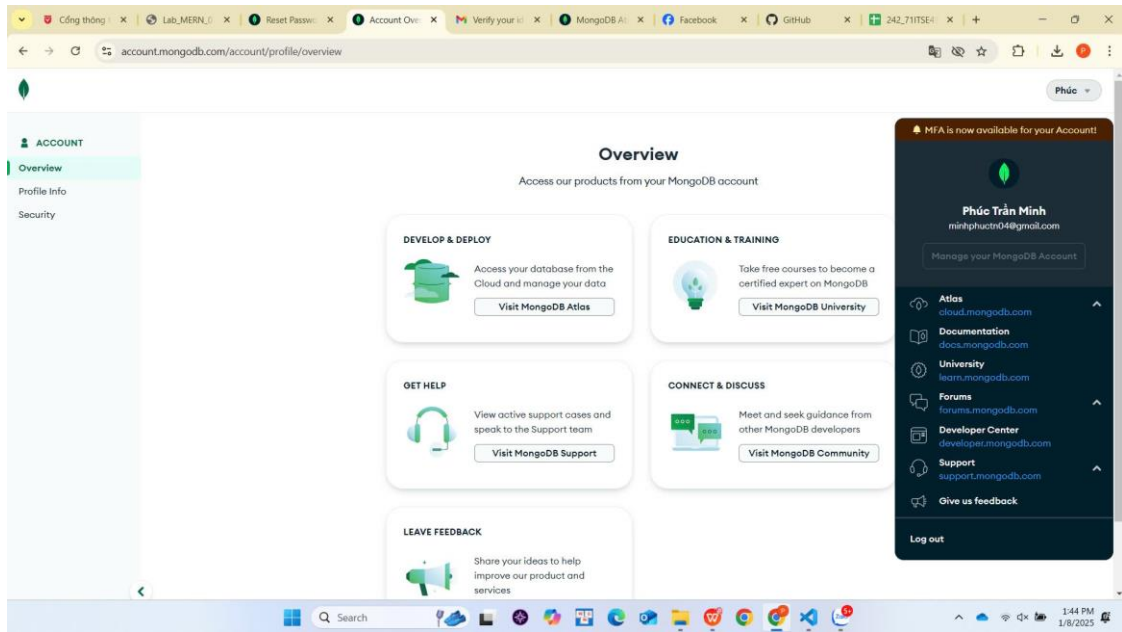


# Bài Thực Hành Buổi 1

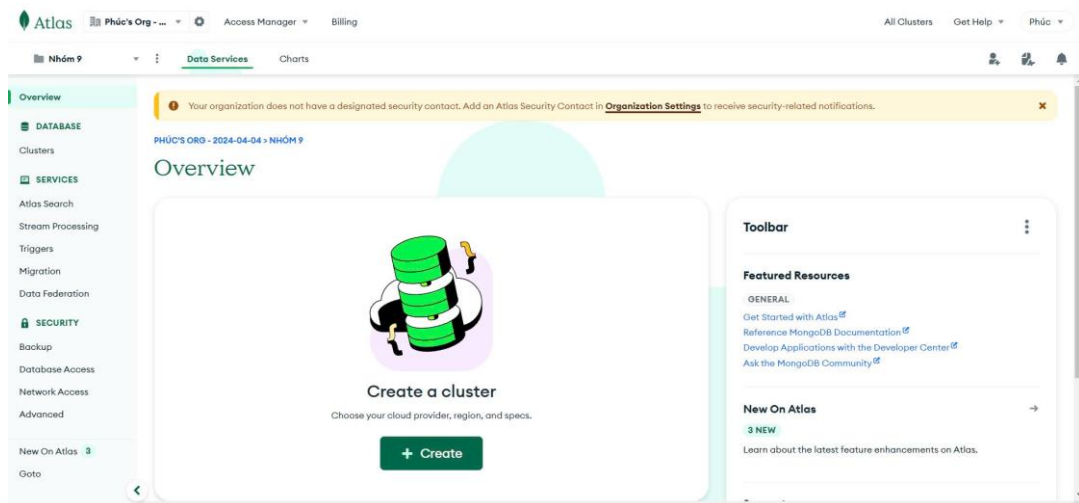
## 1. Preparation

### 1.1: MongoDB Atlas

- Đăng kí/nhập tài khoản



- Tạo dự án



- Tạo CSDL

### Database Access

Database Users					
Custom Roles					
+ ADD NEW DATABASE USER					
User	Description	Authentication Method	MongoDB Roles	Resources	Actions
admin		SCRAM	atlasAdmin@admin	All Resources	EDIT DELETE

- Truy cập mạng

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## Network Access

IP Access List   Peering   Private Endpoint

+ ADD IP ADDRESS

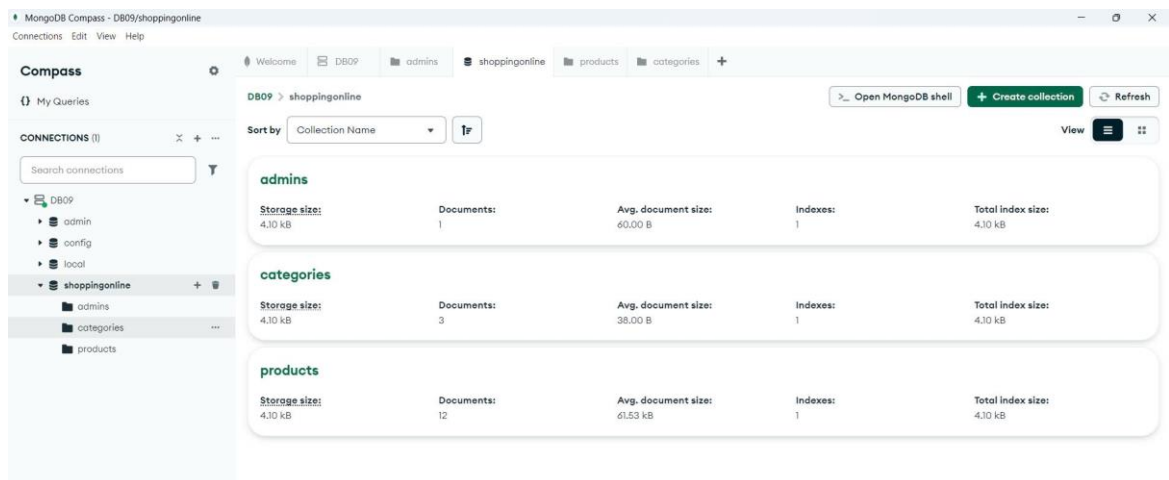
ⓘ You will only be able to connect to your cluster from the following list of IP Addresses:

IP Address	Comment	Status	Actions
0.0.0.0/0 (includes your current IP address)		Active	<a href="#">EDIT</a> <a href="#">DELETE</a>

- Tải MongoDB Compass (GUI)
  - Kết nối với MongoDB Compass (GUI)

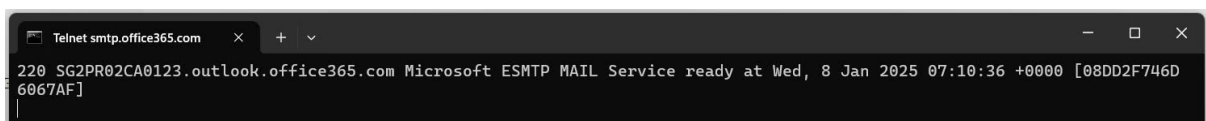


- Tạo CSDL



## 1.2: HotMail

- Kết nối SMTP Sever



## 2. MERN stack

### 2.1 Setting

#### 2.1.1 Installation

##### 2.1.1.1 NodeJS

```
minhp@DESKTOP-G8J3DSV MINGW64 /d/VLU/N3 (2024-2025)/HK2/LTWEBNC/TH/TH1
$ node --version
v21.7.3

minhp@DESKTOP-G8J3DSV MINGW64 /d/VLU/N3 (2024-2025)/HK2/LTWEBNC/TH/TH1
$ npm --version
10.5.0

minhp@DESKTOP-G8J3DSV MINGW64 /d/VLU/N3 (2024-2025)/HK2/LTWEBNC/TH/TH1
$
```

##### 2.1.1.2 Nodemon tool

```
minhp@DESKTOP-G8J3DSV MINGW64 /d/VLU/N3 (2024-2025)/HK2/LTWEBNC/TH/TH1
$ npm install nodemon - - global

added 34 packages in 4s

4 packages are looking for funding
run `npm fund` for details

minhp@DESKTOP-G8J3DSV MINGW64 /d/VLU/N3 (2024-2025)/HK2/LTWEBNC/TH/TH1
$ nodemon - - version
Usage: nodemon [nodemon options] [script.js] [args]

See "nodemon --help" for more.
```

##### 2.1.1.3 ReactJS

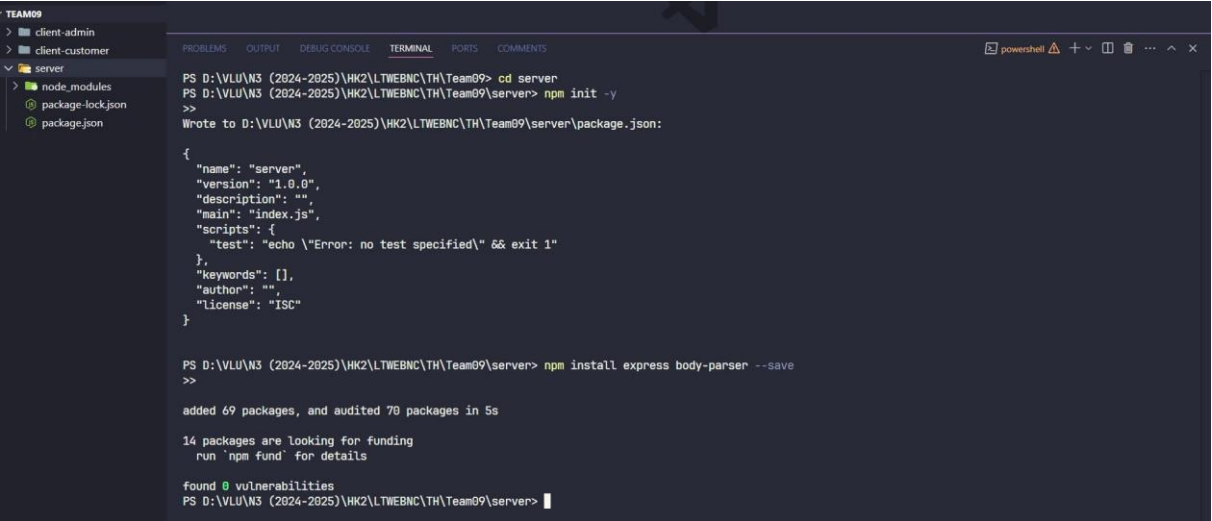
```
minhp@DESKTOP-G8J3DSV MINGW64 /d/VLU/N3 (2024-2025)/HK2/LTWEBNC/TH/TH1
$ npm install create-react-app --global
npm WARN deprecated inflight@1.0.6: This module is not supported, and leaks memory. Do not use it. Check out lru-cache if you want a good and tested way to coalesce async requests by a key value, which is much more comprehensive and powerful.
npm WARN deprecated fstream-ignore@1.0.5: This package is no longer supported.
npm WARN deprecated uid-number@0.0.6: This package is no longer supported.
npm WARN deprecated rimraf@2.7.1: Rimraf versions prior to v4 are no longer supported
npm WARN deprecated glob@7.2.3: Glob versions prior to v9 are no longer supported
npm WARN deprecated fstream@1.0.12: This package is no longer supported.
npm WARN deprecated tar@2.2.2: This version of tar is no longer supported, and will not receive security updates. Please upgrade asap.

added 64 packages in 4s

4 packages are looking for funding
run `npm fund` for details

minhp@DESKTOP-G8J3DSV MINGW64 /d/VLU/N3 (2024-2025)/HK2/LTWEBNC/TH/TH1
$ create-react-app --version
5.0.1
```

## 2.1.2 Projects



```
PS D:\VLU\N3 (2024-2025)\HK2\LTWEBNC\TH\Team09> cd server
PS D:\VLU\N3 (2024-2025)\HK2\LTWEBNC\TH\Team09\server> npm init -y
>>
Wrote to D:\VLU\N3 (2024-2025)\HK2\LTWEBNC\TH\Team09\server\package.json:

{
  "name": "server",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}

PS D:\VLU\N3 (2024-2025)\HK2\LTWEBNC\TH\Team09\server> npm install express body-parser --save
>>

added 69 packages, and audited 70 packages in 5s

14 packages are looking for funding
  run 'npm fund' for details

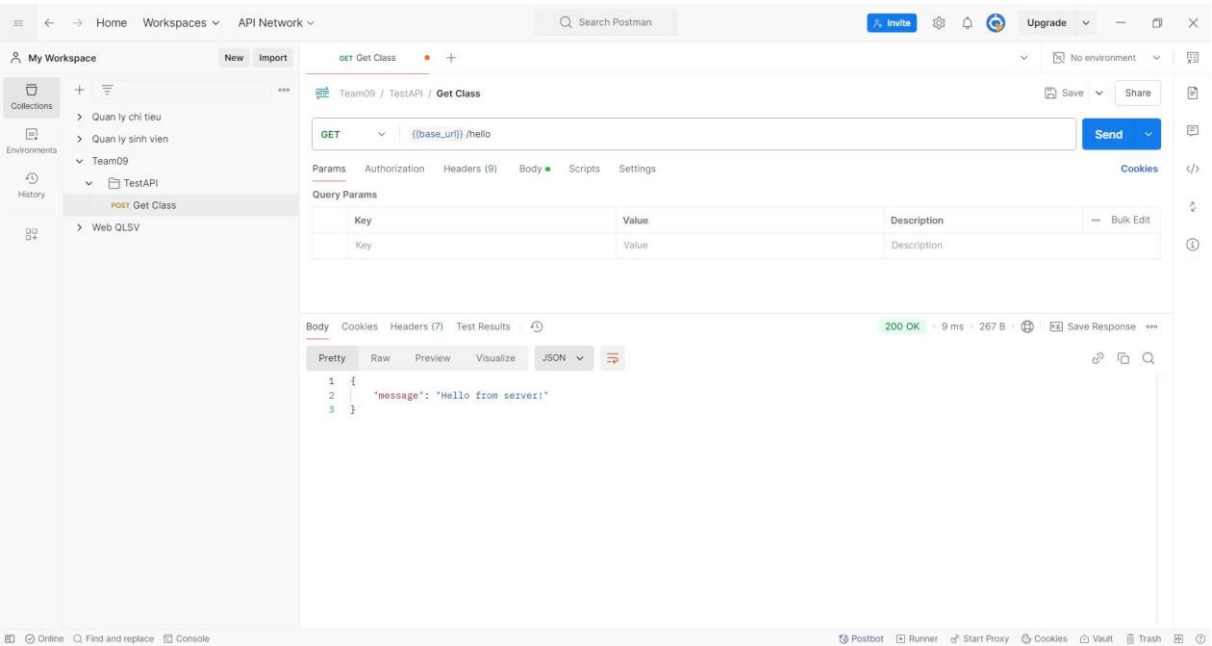
found 0 vulnerabilities
PS D:\VLU\N3 (2024-2025)\HK2\LTWEBNC\TH\Team09\server>
```

### 2.1.2.1 Server project



```
1 const express = require("express");
2 const app = express();
3 const PORT = process.env.PORT || 3000;
4
5 // middlewares
6 const bodyParser = require("body-parser");
7 app.use(bodyParser.json({ limit: "10mb" }));
8 app.use(bodyParser.urlencoded({ extended: true, limit: "10mb" }));

minhph@DESKTOP-68J3DSV MINGW64 /d/VLU/N3 (2024-2025)/HK2/LTWEBNC/TH/Team09/server
$ nodemon index.js
[nodemon] 3.1.9
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting 'node index.js'
Server listening on 3000
```



### 2.1.2.2 Client-admin project



### 2.1.2.3 Client-customer project

