

Help File

1. Command for *installing Node.js* on Ubuntu operating system

```
sudo apt install nodejs
```

2. NPM is an open source library of Node.js packages.
To *install NPM*, use the following commands:

```
sudo apt install npm  
npm -v or npm --version
```

3. ***MongoDB Atlas signup***

Part 1: Create an Atlas Account.

Part 2: Deploy a Free Tier Cluster.

Part 3: Add Your Connection IP Address to Your IP Access List.

Part 4: Create a Database User for Your Cluster.

Part 5: Connect to Your Cluster.

Part 6: Insert and View Data in Your Cluster.

4. ***Setting the Username and password for database***

```
mongoose.connect('mongodb://username:password@host:port/database?options  
...')
```

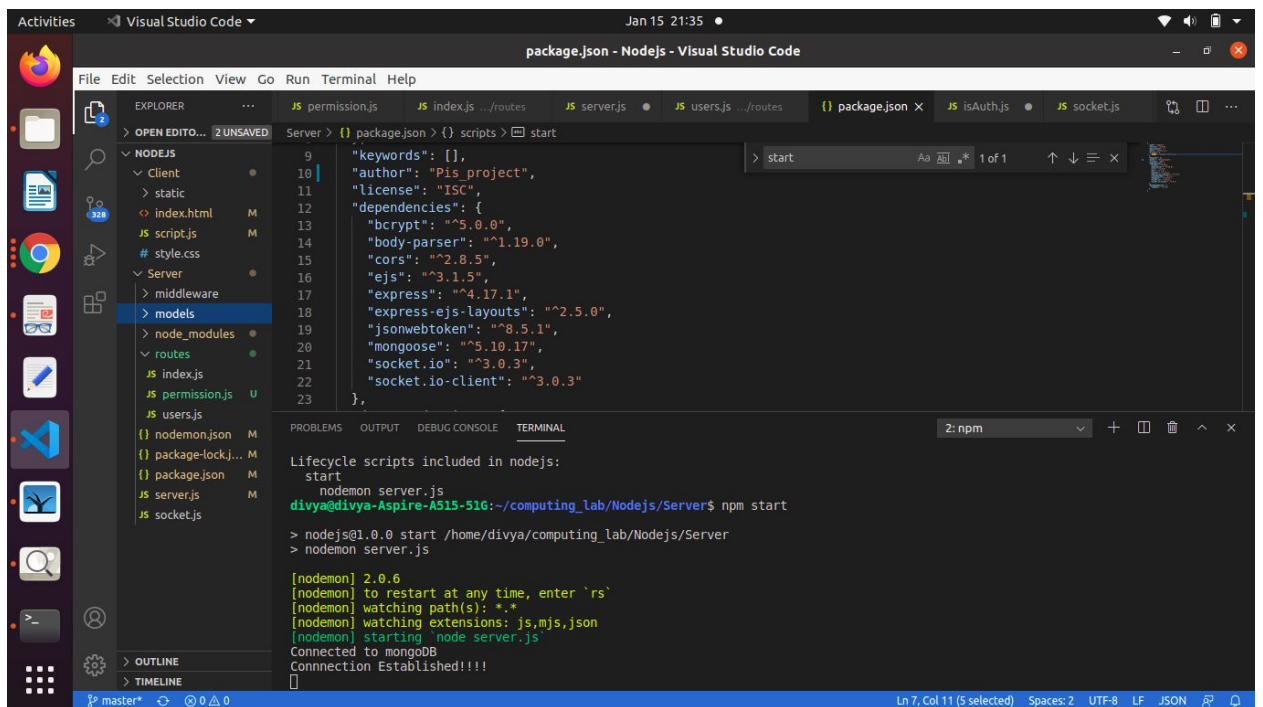
```
const app = express();  
app.use(Cors());  
mongoose.connect('mongodb+srv://admin:12345@cluster0.4nidw.mongodb.net/node?retryWrites=true&w=majority'  
  //useMongoClient: true  
  useCreateIndex: true
```

5. ***Establishing connections with MongoDB Atlas.***

An npm script is just a shortcut to run a series of node commands on your project. Any npm script, meaning any node.js commands listed under a package.json file's "scripts" section, are

executed through node.js when you call them. So npm start runs the node script that is listed under start in the package.json.

npm start



The screenshot shows the Visual Studio Code interface with the `package.json` file open. The file contains the following content:

```
{
  "keywords": [],
  "author": "Pis project",
  "license": "ISC",
  "dependencies": {
    "bcrypt": "^5.0.0",
    "body-parser": "^1.19.0",
    "cors": "^2.8.5",
    "ejs": "^3.1.5",
    "express": "^4.17.1",
    "express-ejs-layouts": "^2.5.0",
    "jsonwebtoken": "^8.5.1",
    "mongoose": "^5.10.17",
    "socket.io": "^3.0.3",
    "socket.io-client": "^3.0.3"
  },
  "scripts": {
    "start": "node server.js"
  }
}
```

The terminal output shows the execution of the `npm start` command, which runs the `node server.js` script. The output includes the following messages:

```
divya@divya-Aspire-A515-51G:~/computing_lab/Nodejs/Server$ npm start
> nodejs@1.0.0 start /home/divya/computing_lab/Nodejs/Server
> node server.js

[nodemon] 2.0.6
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node server.js`
Connected to mongoDB
Connection Established!!!!
```

6. Hosting of Node applications

Our application is hosted at local server :

file:///home/divya/computing_lab/OnlineShopping/Client/index.html