Exp - 4

1. Create ec2 instance of ubuntu
2. Edit security group allow inbound tcp -> 3000 -> anywhere
3. Connect the instance

-sudo apt update
-sudo apt install nodejs npm -y
-mkdir my-node-app
- cd my-node-app
- npm init -y
- nano index.js

//code

```
const http = require('http');

const server = http.createServer((req, res) => {
  res.end("Hello from EC2 Node.js Server 🚀");
});

const PORT = 3000;

server.listen(PORT, () => {
  console.log(`Server is running on http://localhost:${PORT}`);
});
```

4. node index.js
5. http://<your-ec2-public-ip>:3000

//option 2

1. Open a terminal on your local machine. Navigate to the directory where your mykey.pem file is saved. Connect via SSH:
   ssh -i “mykey.pem” ec2-user@ec2-public-ip

📁 **Folder structure example:**

```
my-node-app/
├── index.js
└── package.json
```

📄 index.js:

```
const http = require("http");
```

```
const server = http.createServer((req, res) => {
  res.statusCode = 200;
  res.setHeader("Content-Type", "text/plain");
  res.end("Hello from EC2 Node.js Server 🚀");
});

server.listen(3000, "0.0.0.0", () => {
  console.log("Server running on http://0.0.0.0:3000");
});
```

📄 Create package.json:

```
cd my-node-app
npm init -y
```

✅ 2. Connect to Ubuntu EC2 from Local Terminal

```
ssh -i "your-key.pem" ubuntu@<YOUR_EC2_PUBLIC_IP>
```

✅ 3. Install Node.js on EC2 Ubuntu

Once connected to EC2 terminal:

```
sudo apt update
curl -fsSL https://deb.nodesource.com/setup_18.x | sudo -E bash -
sudo apt install -y nodejs
```

✅ 4. Copy Local Project to EC2

On your local machine terminal:

```
scp -i "your-key.pem" -r ./my-node-app ubuntu@<YOUR_EC2_PUBLIC_IP>:/home/ubuntu/
```

✅ 5. Run Your Node App on EC2

Back in the EC2 terminal:

bash
CopyEdit
cd my-node-app
node index.js

http://<YOUR_EC2_PUBLIC_IP>:3000