Detailed Instructions for Node API server

1. SSH into the Instance

Assuming you have the IP address or domain name of your instance and the private key file for authentication:

ssh -i /path/to/private-key.pem username@your-instance-ip

Replace `/path/to/private-key.pem` with the path to your private key file, `username` with your SSH username, and `your-instance-ip` with the actual IP address or domain name of your instance.

2. Install Required Software

NVM (Node Version Manager)

\# Install curl
```
 sudo apt update
 sudo apt install curl
```

\# Install NVM
```
  curl https://raw.githubusercontent.com/creationix/nvm/master/install.sh | bash
```

\# Load NVM
```
 source ~/.bashrc
```

\# Install Node.js using NVM
```
 nvm install node
 node -v
```

3 git

\# Install Git
```
sudo apt update
sudo apt install git
```

3 Clone your application

\# Clone the application's source repository

git clone https://github.com/YOUR_REPO

Make sure to replace it with your github repo.

\# Navigate to the project directory

cd YOUR_REPO

\# Open your index.js file

sudo nano index.js

\#change the port to 5000 or other

\#And finally also make sure to point to your mongodb database server

```
const host = '<your-ec2-instance-ip-or-domain>';
const port = 27017; // MongoDB default port
const database = '<your-database-name>';
const username = '<your-username>';
const password = '<your-password>';

const uri = `mongodb://${username}:${password}@${host}:${port}/${database}`;

mongoose.connect(uri, { useNewUrlParser: true, useUnifiedTopology: true });
```

\# Install project dependencies using npm

npm install

\# Install PM2 globally

npm install -g pm2

\# Save the current PM2 process list

pm2 start index.js –name movie-api

\# Save the current PM2 process list

pm2 save

```
# Generate and apply startup scripts for PM2
pm2 startup
```

9 Configure Nginx as a Web Server

If you already have Nginx and want to remove it first

```
sudo apt-get purge nginx nginx-common
sudo apt-get autoremove
rm -rf /etc/nginx
```

```
# Update package list
sudo apt update
```

```
# Install Nginx
sudo apt install nginx
```

```
# Start Nginx service
sudo systemctl start nginx
```

make sure that your IP in browser points Nginx default page

Configure Nginx

Edit the Nginx default configuration file:

```
sudo nano /etc/nginx/sites-enabled/default
```

Inside the `server` block, add a reverse proxy configuration for your Node.js app:

```
server {
    listen 80;

    server_name _ ;

    location / {
        proxy_pass http://localhost:5000; # Replace with the actual port your
Node.js app runs on
    }
}
```

Make sure to replace `5000` with the port number your Node.js app is running on.

Test Nginx Configuration

```
sudo nginx -t
```

Restart Nginx

```
sudo service nginx restart
```

And finally make sure that your IP in browser points to the node app not Nginx default page