1. To run the server, first ensure that all the packages are installed in the /server folder using: **npm install**
2. Next, ensure that the .env file exists in the server folder. If not, retrieve from the remote server and copy the file locally. **Note:** This file should never be committed or pushed
3. In the .env modify the google callback to the following:

|  |
| --- |
| GOOGLE\_CALLBACK\_URL=http://localhost:5050/auth/google/callback |

1. Next, modify the Client url:

|  |
| --- |
| CLIENT\_URL=http://localhost:3000/Lab1 |

1. Also, ensure that the .env file exists in the client folder. If not create a new .env with the following line:

|  |
| --- |
| REACT\_APP\_SERVER\_URL=http://localhost:5050 |

1. Now, we must port forward to the remote DB using Putty
   1. Open Putty, and navigate to SSH -> Tunnels section
   2. For source port enter: **5433**
   3. For destination enter: **localhost:5432**
   4. Ensure the local and auto setting is selected
   5. Click **Add**
   6. Navigate to SSH -> Auth
   7. Click **Browse** and select putty compatible private key (for all.rit.edu server)
      1. If you do not see a putty key, follow steps for **Creating putty key**
   8. Navigate to Session
   9. Under hostname enter: **all.rit.edu**
   10. Enter Port: **22**
   11. Select **Open** and enter the user **all** once the terminal appears
2. To validate proper port forwarding, click the top left corner and select **event logs**
   1. If the port forwarding is successful it will say: local port 5432 forwarding localhost:5432 Now you are ready to run the server. Navigate to the /server folder and enter the command: **node app.js**
3. If everything is running correctly, you will see a “Connection Established Successfully” message in the console

Creating Putty Key:

1. Go to Windows **Start menu** → **All Programs** → **PuTTY** → **PuTTYgen**
2. Select **Load an existing private key**
3. Find the private key in the .ssh folder
4. Click **Save private key**