Server Setup Instructions – 5/3/2019

Install Linux (we're using Debian 9)

- Create the UNIX user "postgres"
- Install SSH and the standard utilities
- Install sudo -> "**su -**" -> **"apt-get install sudo -y**"
- Add postgres to the sudoers group. -> "**usermod -aG sudo postgres**"

Update Debian (If you used a net install you can ignore this)

- **sudo apt-get update**
- **sudo apt-get upgrade**

Install PostgreSQL (version 9.6)

- sudo apt-get install postgresql
- Navigate to /etc/postgresql/9.6/main/postgresql.conf -> Change the following line under connections, **listen_addresses = '*'**
- Still in /etc/postgresql/9.6/main/ -> Edit pg_hba.conf -> Add the line, **host all all 0.0.0.0/0 md5**
- Restart PostgreSQL -> **sudo /etc/init.d/postgresql restart**

Configure your database

- **sudo -u postgres psql**
- **ALTER USER postgres PASSWORD 'enter a password between the quotes';**

You should now be able to remotely connect to the server with pgAdmin from your local machine (https://www.pgadmin.org/)

- Create the Login 'node' under "Login/Group Roles" with login/superuser/update catalog/inherit rights
- Create the database "wifi_experience" with all other options as default
- Right click the newly created database and select "Restore..." -> Navigate to the backup.sql file and restore without changing the defaults.

Import and install the dependencies for Server.js

- **sudo apt-get install curl software-properties-common**
- **curl -sL https://deb.nodesource.com/setup_10.x | sudo bash -**
- **sudo apt-get install -y nodejs**
- **Run "npm install" in the same folder as the package.json file**

Prior to starting the server

(You need to change the con_string variable with the password you created for the node account)

- In the server.js file "**var con_string = 'tcp://node:INSERTPASSWORD@localhost/wifi_experience';**"
- Change your server IP for React.js in the component file homepage.js /home/postgres/client/src/components/pages.
  - Run "**sudo npm run-script react-build**" after changing the IP.
  - If you fail to run the build script you'll see no changes in the browser after running server.js and navigating to http://serverip:4000
- "**npm start**" runs the server.js script
- Running development features of react.js use the form "**npm run-script start-react**"

All available scripts can be found in the package.json file. Also, all dependencies for the project and their version numbers.