

# Start Up Instructions for Windows:

## *Setting up for running as a local host:*

### *Basic Setup before anything else:*

1: Open up an instance of Windows Powershell and Install the Angular CLI by typing this into the prompt:

```
npm install -g @angular/cli
```

This will ensure you are able to execute angular commands in the command prompt.

2:

Open your web browser and navigate to <https://nodejs.org/en/download/>  
Download Nodejs for windows and follow the instructions for installation.  
This will allow you to run the back end (server side) files.

3: Open up an instance of Windows Powershell and Install the Angular CLI by typing this into the prompt:

```
npm install pm2
```

This will install the program you need to deploy the angular app as a local host.

## Setup:

1: Navigate to the following directory in your file explorer window:

```
yourStorageLocation../Project3/backend
```

2: Open up the file called databaseAPI.js in your preferred IDE. Webstorm is what was used to develop this project and is highly recommended.

3: Go to line 38 you will see this line:

```
app.use(express.static('localBuild'));
```

Make sure the line is uncommented and the string in quotes is 'localBuild' to ensure you are using the correct build of the project. There is an adjacent line that looks almost the same as this line, be sure it is commented out as both lines can't run simultaneously.

4: Open a Windows Powershell instance.

5: Your current working directory should look something like this:

*C:\Users\User\ (or whichever letter your hard drive is using)*

Type in the command line “*cd \_project directory\_*” (replace *\_project directory\_* with the directory of the project 3 folder’s location on your device) to navigate where the project3 folder is stored on your device and press enter to execute it.

Here is an example working command to get into the Documents/Angular directory:

*cd Documents/Angular*

Our working directory is now

*C:\\User\\User\\Documents\\Angular*

If you need to go back to the parent folder for any reason in your navigation type “*cd ../*” to navigate to the parent folder of your current working directory.

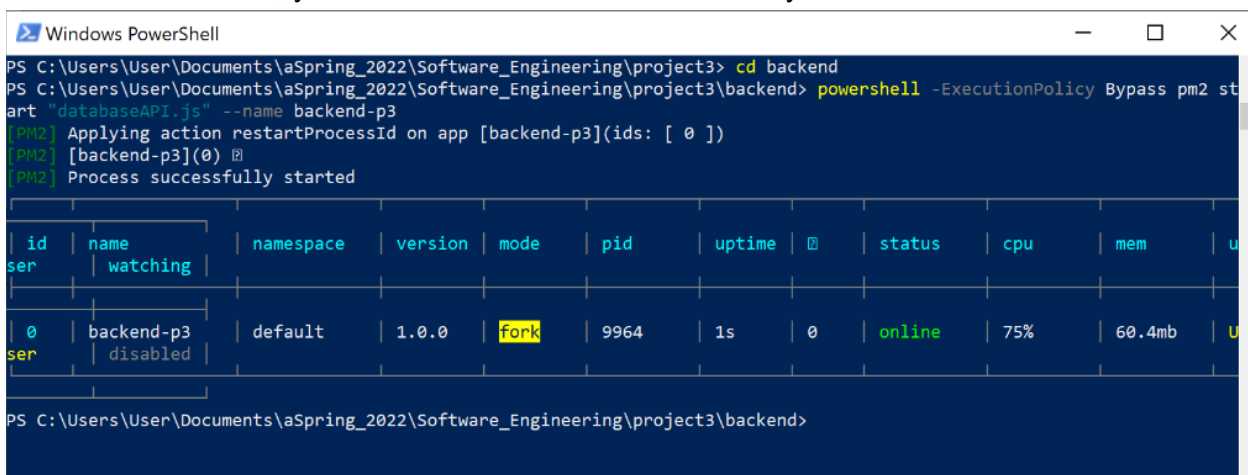
6: Type “*cd project3/backend*” in the command prompt and press enter.

Your working directory should now look like:

*...your storage location.....\\project3\\backend*

7: In the command prompt, type “*pm2 start "databaseAPI.js" --name backend-p3*” to run the whole application. You are free to rename the project anything you like, but in this example, we named it “backend-p3”

When it starts, you will see a view similar to below in your Powershell window:



```
Windows PowerShell
PS C:\Users\User\Documents\ASpring_2022\Software_Engineering\project3> cd backend
PS C:\Users\User\Documents\ASpring_2022\Software_Engineering\project3\backend> powershell -ExecutionPolicy Bypass pm2 start "databaseAPI.js" --name backend-p3
[PM2] Applying action restartProcessId on app [backend-p3](ids: [ 0 ])
[PM2] [backend-p3](0)
[PM2] Process successfully started
```

id	name	namespace	version	mode	pid	uptime	status	cpu	mem
0	backend-p3	default	1.0.0	fork	9964	1s	online	75%	60.4mb

```
PS C:\Users\User\Documents\ASpring_2022\Software_Engineering\project3\backend>
```

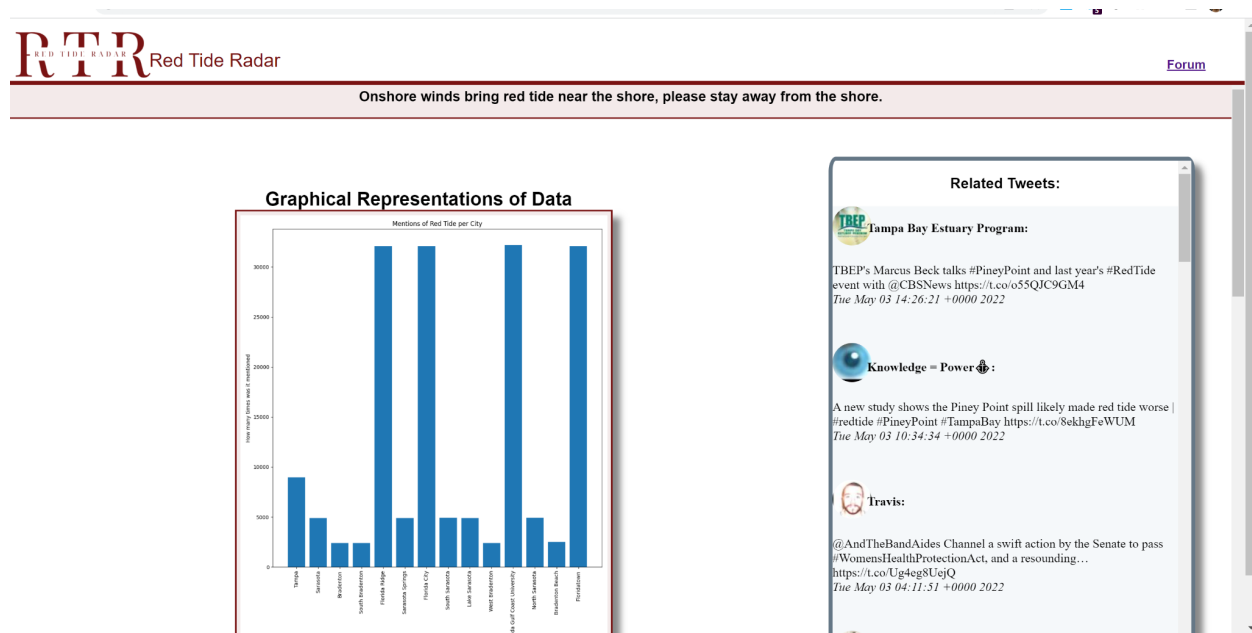
**NOTE:** You may receive an error message that states the command “cannot be loaded because running scripts is disabled on this system.” In order to get around this error, you will need to instead type this into the command prompt to get the front end running:

*powershell -ExecutionPolicy Bypass pm2 start "databaseAPI.js" --name backend-p3*

13: Open a web browser window and navigate to <http://localhost:8000/> and you should see the website on your screen like below. Refresh the page if it doesn't load at first, the server takes a second to load up.

If it still doesn't load completely, your adblocking software may be blocking the website's functionality. Disable your adblocking software and click refresh.

**Note:** If forever reason you wish to stop the application, you will need open a PowerShell window and navigate to the ...project3/backend directory (check steps 4-6) then you will want to type "pm2 stop [whateverYouNamedTheAppProcess]" or pm2 stop all into the command prompt and that will stop the application.



## Setting up for Running on AWS instance:

### Basic Setup before anything else:

Step 0: Open a web browser window, go to <https://www.putty.org/> and install Putty

### Setup:

1: Navigate to the following directory in your file explorer window:  
*yourStorageLocation../Project3/backend*

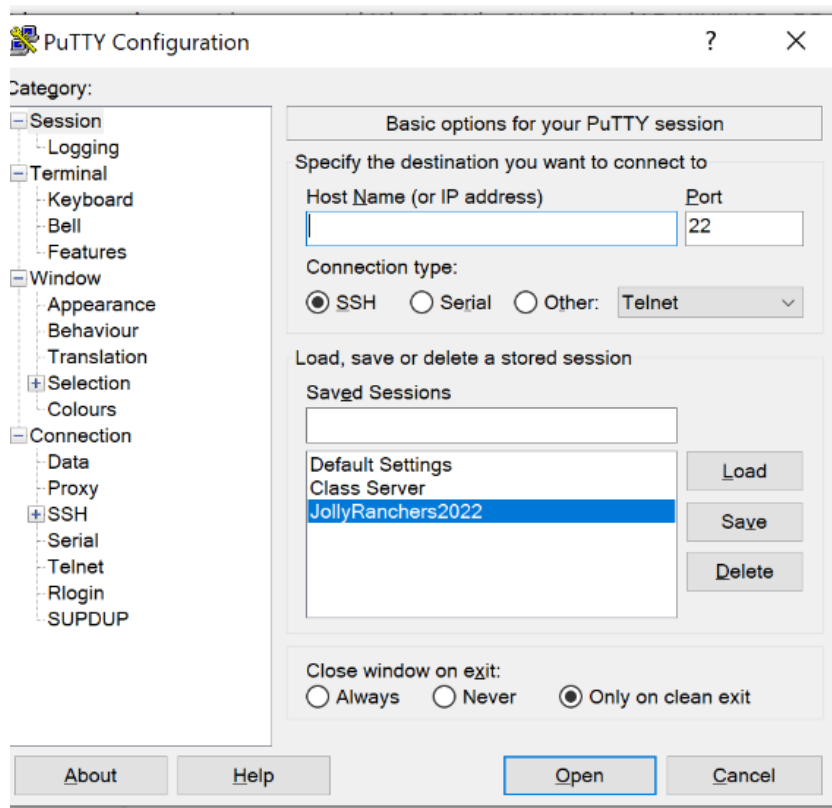
2: Open up the file called databaseAPI.js in your preferred IDE. Webstorm is what was used to develop this project and is highly recommended.

3: Go to line 37 you will see a line of code like below:

```
app.use(express.static('localBuild'));
```

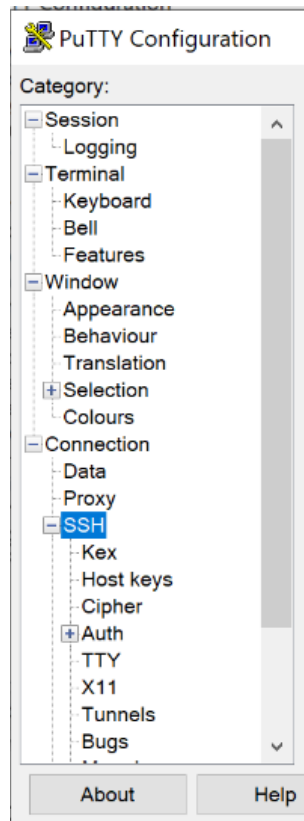
Make sure this line is uncommented and the string in quotes is 'serverBuild' to ensure you are using the correct build of the project. There is an adjacent line that looks almost the same as this line, be sure it is commented out as both lines can't run simultaneously.

4: Open up Putty and you will see a little window like below:

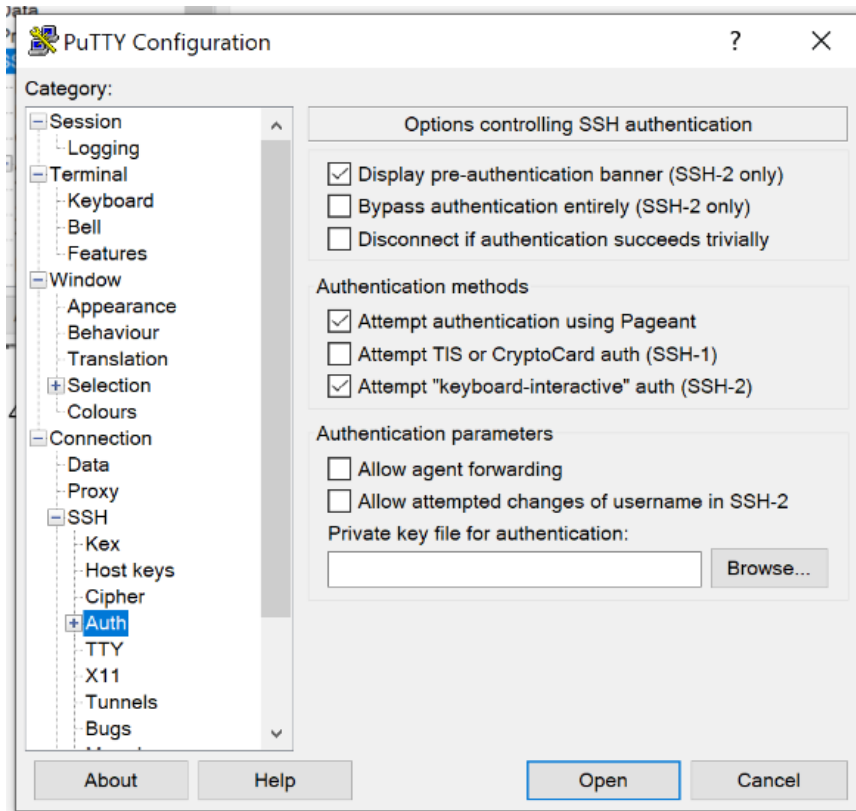


5: Copy and paste the below IP address in the text box for "Host Name (or IP address)"  
13.59.24.7

6: In the category drop down menu on the left side of the window, click on the "Plus" button next to "SSH" and you will see the view below:



7: Click on “Auth” (The word, Not the “Plus” button) and you will see the below view.



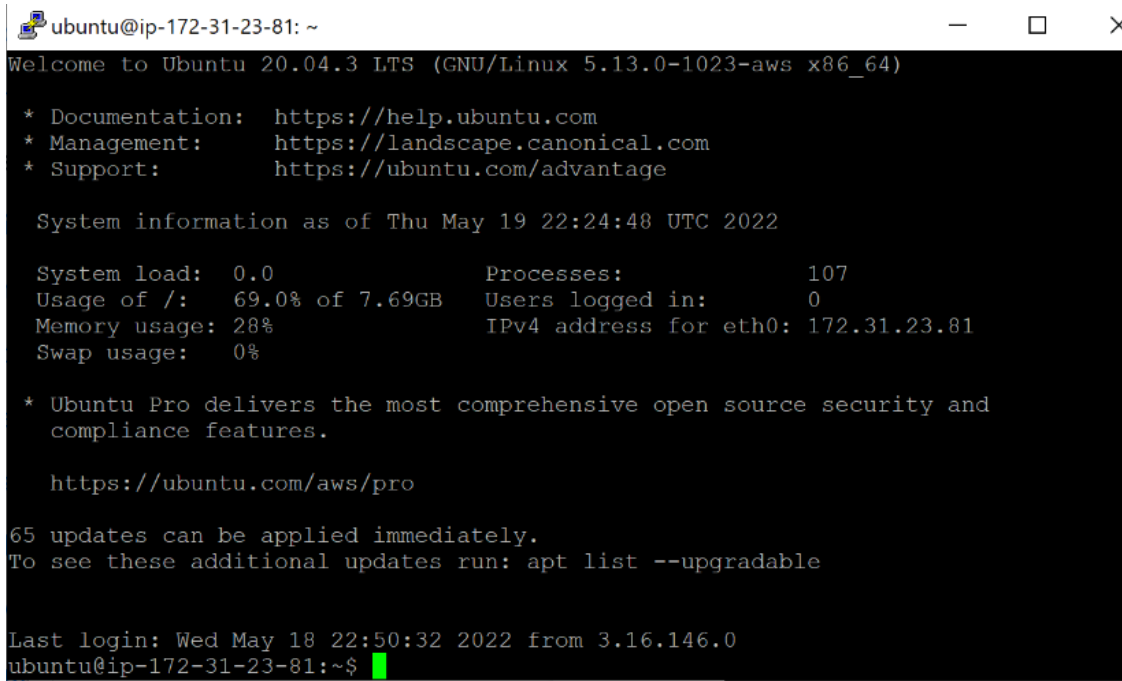
8: Click on the “Browse” button. And navigate to where you have the Putty Private Key file (PEM) titled, “JollyRanchers2022” stored on your device and select the file.

**Note:** The PEM file will be submitted with the final submission on canvas instead of on the project Github Repository due to security risks associated with sharing a private key publicly.

9: Click on the “Open” button and you will be presented with a new terminal window as seen below:



10: Type “ubuntu” into the terminal and press enter. After some processing, you will be presented with a view similar to the one below:



11: Type in “cd Project3/backend” and press enter to navigate to the front end project directory.

12: In the command prompt, type `pm2 start "databaseAPI.js" --name backend-p3` to run the whole application. You are free to rename the project anything you like, but in this example, we named it "backend-p3"

When it starts, you will see a view similar to below in your terminal window:

```
PS C:\Users\User\Documents\Spring_2022\Software_Engineering\project3> cd backend
PS C:\Users\User\Documents\Spring_2022\Software_Engineering\project3\backend> powershell -ExecutionPolicy Bypass pm2 start "databaseAPI.js" --name backend-p3
[PM2] Applying action restartProcessId on app [backend-p3](ids: [ 0 ])
[PM2] [backend-p3](0)
[PM2] Process successfully started
```

id	name	namespace	version	mode	pid	uptime		status	cpu	mem	u
0	backend-p3	default	1.0.0	fork	9964	1s	0	online	75%	60.4mb	U
	disabled										

```
PS C:\Users\User\Documents\Spring_2022\Software_Engineering\project3\backend>
```

13: In order for the website to update every 24 hours, you will need to type one more command into the terminal. Type in “pm2 scheduler.js” to run the scheduler script that will update the website content regularly.

14: Open a web browser window and navigate to “http://ec2-13-59-24-7.us-east-2.compute.amazonaws.com:8000/” to view the web page.

Not secure | ec2-13-59-24-7.us-east-2.compute.amazonaws.com:8000

Forum

## Graphical Representations of Data

City	Mentions (approx.)
Tampa	8,500
Sarasota	5,000
Bradenton	2,500
South Bradenton	2,000
Pinellas Ridge	33,000
Sarasota Springs	5,000
Pinellas City	33,000
South Sarasota	5,000
Lake Tarpon	5,000
West Tarpon	2,000
Florida Gulf Coast University	33,000
North Tarpon	5,000
Bradenton Beach	2,000
Bradenton	33,000

### Related Tweets:

**Tampa Bay Estuary Program:**

TBEP's Marcus Beck talks #PineyPoint and last year's #RedTide event with @CBSNews <https://t.co/o55QJC9GM4>  
Tue May 03 14:26:21 +0000 2022

**Knowledge = Power**

A new study shows the Piney Point spill likely made red tide worse | #redtide #PineyPoint #TampaBay <https://t.co/8ekhgFeWUM>  
Tue May 03 10:34:34 +0000 2022

**Travis:**

@AndTheBandAides Channel a swift action by the Senate to pass #WomensHealthProtectionAct, and a resounding...  
<https://t.co/Ug4eg8UeQ>  
Tue May 03 04:11:51 +0000 2022

Presented by JollyRanchers | 2022 | DISCLAIMER: This page is designed for NCF Software Engineering Class 2022, only for educational purposes.